

Sponsors and Partners





































































Organizer



Industrial Engineering and Operations Management Society International

Welcome to the Third African Conference on Industrial Engineering and Operations Management, Nsukka, Nigeria

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 3rd African International Conference on Industrial Engineering and Operations Management, April 5-7, 2022, hosted by University of Nigeria, Nsukka. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 500 papers/abstracts submitted from 40 countries. After a thorough peer-review process, more than 350 have been accepted for presentation and publication. The program includes many cutting-edge topics of industrial engineering and operations management.

This conference will address many of the issues concerning continuous improvement for quality and service. Our keynote speakers will address some of these issues:

- 1. Prof. Abiodun H. Adebayo, Ph.D., Vice-Chancellor, Covenant University, Ota Nigeria
- 2. Engr. Prof. Emeka Simon Obe, Dean, Faculty of Engineering, Professor of Electrical Engineering, University of Nigeria Nsukka, Nigeria
- 3. Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria
- 4. Engr Prof. Ojo S.I. Fayomi, Dean, College of Engineering, Bells University of Technology, Ota, Ogun State, Nigeria
- 5. Dr. M. Joseph Ogundu, Ph.D., MBA, Chairman/CEO, Emerald Global Consulting Inc., Farmington Hills, Michigan, USA
- 6. Engr Tasiu Saad Gidari-wudil FNSE, D., President, Nigeria Society of Engineers
- 7. Prof. Dr. Esther T. Akinlabi, Director Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria
- 8. Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD, Dean, School of Engineering, Department of Energy and Petroleum Engineering, University of Energy and Natural Resources, Sunyani, Ghana
- 9. Engr Prof. Emenike. C. Ejiogu, Director, Africa Centre of Excellence for Sustainable Power and Energy Development, University of Nigeria Nsukka
- 10. Professor Charles Mbohwa, Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe
- 11. Prof. Elizabeth S. Bosire Abenga, Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS), Yaounde Cameroon
- 12. Prof Keith Carter, Honorary Professor, University of Leicester, United Kingdom
- 13. Engr. Dr Izuchukwu F. Okafor, Director, National Centre for Energy Research and Development, University of Nigeria Nsukka, Nigeria
- 14. Engr Felicia Nnenna Aguabata, PhD. Nigeria Airspace Management Agency, Murtala Muhammed International Airport, Ikeja, Lagos, Nigeria
- 15. Engr Dr. Mrs. Edith Y. İshidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, Abuja Nigeria

The 29th IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 28th IEOM Industry Solutions will showcase major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing, MSV, and industry best practices. The 8th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. Eight-panel sessions have been planned: Industry 4.0, Industry Solutions, Global Engineering Education, Supply Chain, Women in Industry and Academia, Presidential Panel on "The role of professional societies in serving the professions and providing opportunities for re-training and continuing education", EFQM Model: Global and Local Perspectives and Diversity & Inclusion sponsored by Ford Motor Company.

The IEOM Society would like to express our deep appreciation to our sponsors, university partners, organization partners, exhibitors, authors, reviewers, keynote speakers, panelists, track chairs, advisors, the local committee, and the many volunteers who have given so much of their time and talent to make this unique international conference an overwhelming success.

University of Nigeria, Nsukka, the conference host, welcomes all participants. The IEOM Society Conference Planning Committee hopes you will enjoy the Istanbul conference. Lastly, our sincere best wishes to all of you for a successful and memorable event.

Enjoy the conference!



Prof. Charles Arizechukwu Igwe Conference Chief Host Vice-Chancellor University of Nigeria Nsukka



Professor Charles Mbohwa
Honorary Chair
Pro-Vice Chancellor Strategic
Partnerships & Industrialisation
University of Zimbabwe, Harare,
Zimbabwe



Dr. Paul A. Ozor Conference Chair Head, Department of Mechanical Engineering, University of Nigeria Nsukka, Nigeria



Dr. Ahad Ali
Conference Co-Chair
Associate Professor and Director of IE
Lawrence Technological University
Southfiled, Michigan, USA
Executive Director, IEOM Society

Conference Program

All times are in Nigeria Time

April 4, 2022 (Monday) - Competitions

6:00 - 7:45 am - Parallel Sessions 8:00 - 9:45 am - Parallel Sessions 10:00 - 11:45 am - Parallel Sessions 12:00 - 1:45 pm - Parallel Sessions 2:00 - 3:45 pm - Parallel Sessions 4:00 - 5:45 pm - Parallel Sessions

April 5, 2022 (Tuesday)

6:00 am - 7:45 am - Parallel Sessions 8:00 am - 09:45 am Parallel Sessions 10:00 am - 11:45 pm Parallel Sessions

11:45 am - 12:00 pm Welcome Address: Prof. Charles Arizechukwu Igwe, Vice-Chancellor, University of Nigeria, Nsukka, Nigeria

12:00 pm - 12:30 pm Keynote I: Prof. Abiodun H. Adebayo, Ph.D., Vice-Chancellor, Covenant University, Ota Nigeria

12:30 pm – 01:00 pm Keynote II: Engr. Prof. Emeka Simon Obe, Dean, Faculty of Engineering, Professor of Electrical Engineering, University of Nigeria Nsukka, Nigeria

1:00 pm - 01:30 pm Keynote III: Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria

1:30 pm – 02:00 pm Keynote IV: Engr Prof. Ojo S.I. Fayomi, Dean, College of Engineering, Bells University of Technology, Ota, Ogun State, Nigeria

2:00 pm – 2:30 pm Keynote V: Dr. M. Joseph Ogundu, Ph.D., MBA, Chairman/CEO, Emerald Global Consulting Inc., Farmington Hills, Michigan, USA

3:00 pm - 04:45 pm Parallel Sessions

March 6, 2022 (Wednesday)

6:00 am - 7:45 am - Parallel Sessions 8:00 am - 09:45 am Parallel Sessions

10:00 am - 11:45 pm Parallel Sessions

12:00 pm - 12:30 pm Keynote VI: Engr Tasiu Saad Gidari-wudil FNSE, D., President, Nigeria Society of Engineers

12:30 pm – 01:00 pm Keynote IVI: Prof. Dr. Esther T. Akinlabi, Director Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria

1:00 pm – 01:30 pm Keynote VIII: Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD, Dean, School of Engineering, Department of Energy and Petroleum Engineering, University of Energy and Natural Resources, Sunyani, Ghana

1:30 pm – 02:00 pm Keynote XIV: Engr Prof. Emenike. C. Ejiogu, Director, Africa Centre of Excellence for Sustainable Power and Energy Development, University of Nigeria Nsukka

2:00 pm – 2:30 pm Keynote X: Professor Charles Mbohwa, Ph.D., Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe

3:00 pm - 04:45 pm Parallel Sessions

March 7, 2022 (Thursday)

6:00 am - 7:45 am - Parallel Sessions

8:00 am - 09:45 am Parallel Sessions

10:00 am - 11:45 pm Parallel Sessions

12:00 pm – 12:30 pm Keynote XI: Prof. Elizabeth S. Bosire Abenga, Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS), Yaounde Cameroon

12:30 pm – 01:00 pm Keynote XII: Prof Keith Carter, Honorary Professor, University of Leicester, United Kingdom

1:00 pm – 01:30 pm Keynote XIII: Engr. Dr Izuchukwu F. Okafor, Director, National Centre for Energy Research and Development, University of Nigeria Nsukka, Nigeria

1:30 pm – 02:00 pm Keynote XIV: Engr Felicia Nnenna Aguabata, PhD. FNSE, ACIArb, Nigeria Airspace Management Agency, Murtala Muhammed International Airport, Ikeja, Lagos, Nigeria

2:00 pm – 2:30 pm Keynote XV: Engr Dr. Mrs. Edith Y. Ishidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, Abuja Nigeria

2:30 pm - 4:00 pm Parallel Sessions

4:00 – 6:00 pm, Thursday, April 7 Conference Awards Ceremony

Keynote Speakers

11:45 am - 12:00 pm Tuesday, April 5, 2022, Welcome Address from Host University



Prof. Charles Arizechukwu Igwe Vice-Chancellor University of Nigeria, Nsukka, Nigeria

Professor Charles A. Igwe was appointed the 15th Vice-Chancellor of the University of Nigeria, Nsukka (UNN) in June 2019. Prior to this, he was a two term Deputy Vice Chancellor (Administration), UNN (2016 – 2019). He studied Soil Science at UNN (1979–1984) where he obtained his B.Agric degree. He later obtained both MSc (1988) and PhD (1994) degrees in the same discipline in UNN. He also earned numerous other certificates and diplomas both in Agriculture and other areas of learning from institutions within and beyond Africa. These include Postgraduate Diploma in Soil Science from Agricultural University, Norway and Certificate of College on Soil Physics, from the International Centre for Theoretical Physics (ICTP), Trieste, Italy in 1993, among others. He has over thirty years of professional and administrative experience with considerable knowledge of project planning and

management gained both in academia and the wider industrial sector. He was appointed Associate Dean of the Faculty of Agriculture (2006-2008) and later succeeded his principal as Dean of the same Faculty of Agriculture, UNN, (2008-2010). Beyond Deanship, he has served the University as leader of many statutory bodies, such as Director University Advancement Centre; Director, External Studies Unit; Member University Governing Council as Senate Representative, Member TETFund Committee, UNN, among others.

He is an accomplished researcher of international repute with numerous scientific publications on Soil, Soil related matters, agricultural, practices and technologies and authored a number of books to his credit. He is also editorial member of numerous journals of international repute and editor of several. His current research interest is in domesticating agricultural practises and tools including climate change to improve agricultural yields in Africa and indeed tropical climes of the world, thus contributing to solving the global food security question. He has been and still is visiting researcher/professor to many universities across the world including Agricultural University of Norway, Ås; Dipartmento di Scienze Chimico-Agrarie, Università di Napoli Federico II, Italy; Universite De Bourgogne, Dijon, France; and Institutfür Bodenkunde und Standortslehre, Universität Hohenheim, Stuttgart, Germany among others. He has also presented many invited academic papers and key note addresses in countless international and national fora.

Professor Igwe is equally outstanding in winning awards and academic laurels. His awards of excellence defy geographical and disciplinary boundaries. His awards come from different regions of the world and in fields like Hydrological Sciences, Engineering Technology among others. One of the most significant is the award from the Japanese Society for Promotion of Science, exemplifying him as a distinguished scientist of his times. He has also attracted funds and grants to further the growth and academic excellence in the University of Nigeria. These include, but not limited to, the European Union Research Project on "Evaluation of the Stability of Soil Organic Matter (SOM) Pools in African Ecosystems (Ethiopia and Nigeria) for the Improvement of a Sustainable Soil Management". Scientific Equipment Donation Programme by ALEXANDER von HUMBOLDT FOUNDATION in 2001 and 2010; among others too numerous to list here.

12:00 – 12:30 pm Tuesday, April 5, Keynote I (Opening Keynote):



Prof. Abiodun H. Adebayo, Ph.D. Vice-Chancellor Covenant University, Ota Nigeria

Abiodun Humphrey Adebayo is an astute Professor of Biochemistry, a University Administrator and Award-winning Researcher. He is the 7th Vice-Chancellor of Covenant University – one of the leading universities in Africa driven by a vision to raise a new generation of leaders. He is a specialist in plant biochemistry and has been actively involved in the sustainable use of indigenous medicinal plants with teaching prowess in Biochemical Toxicology and Ethnopharmacological Biochemistry. Prof. Abiodun H. Adebayo's main research focus is on phytochemical, biochemical and toxicity studies of medicinal plants; he is a recipient of the prestigious Chinese Academy of Sciences (CAS) and the Academy of Sciences for the Developing World (TWAS) Fellowship awards and has published in reputable local and international journals. His astuteness has earned him several awards and honours

such as the Leading Scientist of the World 2013 by International Biographical Centre, Great Britain; High Impact Journal prize of Covenant University three times consecutively amongst several other international and national awards. Prof. Adebayo's biography was listed and published in the 30th edition of Marquis Who's Who in the World in the United States. He has served in various capacities in Covenant University prior to being appointed the 7th Vice Chancellor such as being the former Dean of the School of Postgraduate Studies and Chair, Committee of Deans, Deputy Chaplain and Chair of Community Development Impact Initiative Committee amongst several other academic and leadership capacities. He is happily married to Mrs. Olufunke Adebayo and their marriage is blessed with three children.

12:30 pm - 1:00 pm, Tuesday, April 5, Keynote II:



Engr. Prof. Emeka Simon Obe
Dean, Faculty of Engineering
Professor of Electrical Engineering
University of Nigeria Nsukka

Fault-Tolerant Operation of Concentrated Dual Winding Synchronous Reluctance Motor

Emeka Simon Obe received his B. Engineering, M. Engineering and Ph.D. degrees in Electrical Engineering from University of Nigeria in 1994, 1999 and 2002, respectively. Since 1999 he has been with the Department of Electrical Engineering, University of Nigeria, Nsukka where he is currently a professor. Prof. Obe has been a visiting researcher at Tennessee Technological University, USA in 2004 and 2006, at the University of the Ryukyus, Japan in 2005 and at Technische Universitat Darmstadt, Germany 2008-2009. He has held several key positions at the

University of Nigeria including Director, National Center for Equipment Maintenance and Development, (2012-2014), Director, Computer

Communications Center (2014 – 2018), Coordinator, International Interventions Programs (2016 – 2019), Head of Electrical Engineering Department, UNN (2016-19), Associate Dean, Faculty of Engineering (2018-2020). In August 2020, Prof. Obe was elected Dean, Faculty of Engineering, University of Nigeria, a position he currently occupies.

Prof. Obe is an Associate Editor of IET Electric Power Applications of UK, Associate Editor of Electric Power Components and Systems and Editor-in-Chief, Nigerian Journal of Technology. He is a fellow of AvH, Germany, Fellow of Matsumae International Foundation of Japan, Member IEEE, Member NSE and a registered corporate engineer in Nigeria. His research interests are ac machine analysis, design and drives. Prof. Obe has published over 50 articles in reputable journals and high echelon conference proceedings. He has successfully supervised over 20 of PhDs and Masters in Electrical Machines, Drives and Energy Systems.

1:00 am - 1:30 pm, Tuesday, April 5, Keynote III:



Prof. Toyin Ashiru CEO, Tricontinental Oil Ikeja, Lagos Nigeria

Prof. Toyin Ashiru is a distinguished Materials and Metallurgical Engineer with a career of about 40 years that spans through Nigeria, UK, USA, Canada, Saudi Arabia, Bahrain, Far East, and Asia.

Toyin Ashiru has utilized his diverse experiences in the academia, consulting, finance/investment entrepreneurship, and project management to provide technical advisory services for the enhancement of productivity in major in petrochemical, chemical processing, fertilizer, and steel manufacturing industries worldwide. He has served as expert consultant to NNPC, SHELL, CHEVRON, EXXONMOBIL, ADDAX, SAUDI ARAMCO, SABIC, SAMAREC, QATAR OIL, etc. He has also served on various technology advancement committees of the UNIDO, UNESCO and the WORLD BANK.

Toyin Ashiru is a graduate of the University of Sussex, Brighton, UK where he obtained B.Sc in Materials Science and Engineering. He concluded his Ph.D at the University of Birmingham, UK in Industrial Metallurgy in 1983. He began his career as a lecturer in Mechanical Engineering at the Universities of Lagos and Ibadan respectively before serving as Nigerian Senior Research Fellow at the International Tin Research Institute in the UK. Toyin Ashiru before his advent into the oil and gas industries in 1998 was a professor/senior research fellow at the King Fahd University of Petroleum and Minerals in Saudi Arabia.

Toyin Ashiru is the inventor of the first known instrument for in situ detection of steel cracking in sour petroleum production operations. He holds patents in the USA, UK, Brazil, Japan and of the World Intellectual Property Organization for several other inventions. He developed electroplated tin-zinc alloy coating system (USA Patent # 5,378,346, January 3, 1995). The coating is extensively used worldwide for the protection of plant, machinery, automobile, and aerospace components. Of importance was his stint as a Technical Advisor to the Saudi Basic Industries Corporation (SABIC), where he developed several innovative solutions for petrochemical, chemical processing and fertilizer plants. He is responsible for the introduction of Sponge-Jet, an environment-friendly low-dust blasting technology to Nigerian industries.

Toyin Ashiru has received many merit awards and citations worldwide in recognition of his work, including an acknowledgment in the USA as a "Professional with Extraordinary Ability" and listings in Who is Who in the World and the Dictionary of International Biography; the highly esteemed Corrosion Odyssey 2001 Award in England; Dalic's Very Imperial Plater Award, Vitré, France in 2010; Honoree of the African Engineering Education (AEEA). He is a recipient of the prestigious Distinguished Innovator Award of the Association of Tin Producing Countries (ATPC).

Toyin Ashiru is a Fellow of the Nigeria Society of Engineers, the New York Academy of Science, the Nigeria Academy of Engineers and the Nigerian Institution of Mechanical Engineers. Prof. Ashiru is a Non-Executive Director of FCMB Group Plc, Chairman of CSL Stockbrokers Ltd and others. He is currently the Vice Chairman/CEO of Tricontinental Group

1:30 pm - 2:00 pm, Tuesday, April 5, Keynote IV:



Engr Prof. Ojo S.I. Fayomi Dean, College of Engineering, Bells University of Technology Ota, Ogun State, Nigeria

Re-emphasizing the Paradigm Shift in Engineering Management for a Sustainable World

Professor Ojo Sunday Fayomi is a Full Professor of Mechanical Engineering and an internationally distinguished researcher. He is the current Dean of the College of Engineering, and Chairman, Corporate Affairs Unit, Office of the Vice Chancellor, Bells University of Technology, Ota, Nigeria. Bells University of Technology is the first Private University of Technology in Nigeria committed to the development and transformation of society through environment-friendly technologies and other innovations.

Prof Ojo Sunday Fayomi is an established proven academia and global researcher in the area of Mechanical Metallurgy of Materials and Production Technology. He is a Materials and Corrosion expert. He is well-reputed

nationally and internationally in the areas of Mechanical Materials Mechanics. Obtained Bachelor's of Engineering, (Honours) in (Mechanical Engineering) from Bells University of Technology. He bagged his Master's and Doctoral degree in Metallurgical Engineering with Distinction (Cum Laude) from the Department of Chemical, Metallurgical and Materials Engineering, Tshwane University of Technology, Pretoria, South Africa. He has a postgraduate diploma in environmental and natural resource management from Olabisi Onabanjo University, Ago-Iwoye.

He rose to be a distinguished exceptional Professor with a massive contribution to new materials development. He is a visiting scholar to several Universities locally and internationally. He has to his credit over (500) indexed international and local peer-reviewed journals with substantial impact

factors, broad readership, and citations in Scopus and Web of Science. Professor Fayomi is an External Examiner to several local and foreign universities. He has supervised over 150 international research/industrial projects, graduated (9) Doctoral and (16) Master's degree students.

Prof Fayomi is a sought-after inspirational public speaker and lecturer to many industries. He is known to be a reviewer to the highly-rated Scientific Journals and an examiner to the National Research Foundation, South Africa, and Portugal. He is a member of several engineering bodies such as Council for the Regulation of Engineering in Nigerian (COREN), and Member Nigeria Society of Engineers (NSE).

As an accomplished researcher and lecturer, he has harvested several awards internationally. Among others is the Scientific Achievement by South African Association for Advancement in Science Medal Award (A2S3 Medal for Original Research). Prof Fayomi was a Postdoctoral Research Scholar and an Awardee of the Institutional Best Postdoctoral fellow for Teaching and Innovations at Tshwane University of Technology. He was named the Outstanding African Researcher, 2019, and the Most Innovative Scholar in Composite deposition. In 2021 Professor Ojo Sunday Fayomi was listed Among Top 50 in Africa out of top 500 researchers, by scholarly output, over the period 2015-2020 by Scival. He has a patent to his credit with the South Africa Ministry of Education and Cooperates affair.

As an international conference speaker, he has spoken to audiences in Belgium, Mauritius, United States, Grease, United Kingdom, South Africa, and Nigeria. Fayomi is happily married to his sweetheart Dr. Gloria Uche Fayomi, and they are blessed with two children.

2:00 - 2:30 pm Tuesday, April 5, 2021, Keynote V:



Dr. M. Joseph Ogundu, Ph.D., MBAChairman/CEO
Emerald Global Consulting Inc.
Farmington Hills, Michigan

Dr. Joseph Ogundu is the Chairman/CEO of Emerald Global Consulting Inc., and he brings a wealth of experience in the areas of leadership, strategy development and deployment, risk management, project management, business process excellence, lean transformation, six-sigma, supply chain management, change management, industrial engineering, manufacturing/process engineering, quality assurance and business restructuring/turnaround. Dr. Ogundu is a quality and operations excellence practitioner with expertise in solving complex operations problems and delivering results. He provides operations excellence leadership, training and coaching in the following industries; automotive, oil and gas, manufacturing, consulting, energy and healthcare. Dr. Ogundu spent the early years of his career in leadership, engineering, and senior management positions as director and executive director at Country Coach Inc, process engineering manager at DaimlerChrysler AG, senior operations leader at Chrysler Corporation, facilities engineer and project manager at Ford Motor Company as well as senior product engineer at General Motors Corporation.

Dr. Ogundu was adjunct professor, Industrial and Systems Engineering at both Lawrence Technological University, Southfield Michigan and Oakland University, Rochester Michigan, and adjunct professor of Business Administration at Kettering University, Flint Michigan. He thought courses in both undergraduate and graduate levels including courses in Lean Systems Application, Quality Assurance and Control, Total Quality Management, Operations Research and Stochastic Processes, Manufacturing Processes, Supply Chain Management, Supplier Quality, Business Statistics, Lean Six-Sigma, Production Planning and Control, Materials/Inventory Management and Operations Management.

Dr. Ogundu graduated with a Doctorate Degree in engineering and manufacturing systems and Masters in business administration from Lawrence Technological University, Master's Degree in Manufacturing Engineering from Wayne State University and a Bachelor's Degree in Industrial Engineering from University of Tennessee. Knoxville. He served as board member of Lawrence Tech University College of Management Alumni Association, Finer Cabinetry & Woodwork Inc., Citation Plastics, LLC., River State Foundation Inc., as well as Board member of Healthcare Management department at South University Novi, Michigan Campus, Vice President of Chapter Development Institute of Industrial Engineers SE Michigan/Toledo Chapter. Dr. Ogundu is the author of the book "The Relationship between Types of Waste and Operating Performance Measures, published by Lambert Publishing company.

Wednesday, April 6, 2022

12:00 - 12:30 pm, Wednesday, April 6, Keynote VI:



Engr Tasiu Saad Gidari-wudil FNSE, D.President
Nigeria Society of Engineers

Engr. Tasiu Saad Gidari –Wudil (Engr. Wudil), FNSE, SMIEEE, FNIEEE is the President of Nigeria Society of Engineers. He was educated at the Federal University of Technology (now ATBU), Bauchi State, Nigeria, where he bagged both B.Engr. and Master's degree in Electrical and Electronics Engineering (Power & Machines). Engr. Gidari-Wudil worked with the Kano State Science and Technical Schools Management Board as Electrical Instructor at the Government Technical College, Wudil. He also served as Engineer 1 (Electrical) at the Ministry of Education, Kano before proceeding to the Bayero University Computer Centre as Computer Maintenance Engineer. He was a staff of the defunct National Electric Power Authority (NEPA). Engr. Gidari-Wudil is now an Assistant General Manager with the Nigerian Electricity Regulatory Commission.

The astute engineer had been a Fellow of the Nigerian Society of Engineers since May 2013, and a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), New York, USA. He is the Pioneer Chair of Institute of Electronics Engineers, Nigerian Chapter, Engr Cideri Wudil in a Member of the Nigerian

the Power & Energy Society- Institute of Electrical and Electronics Engineers, Nigeria Chapter. Engr Gidari-Wudil is a Member of the Nigerian Institute of Management; Member Association of Energy Engineers (AEE); and a Professional Member, American Society of Safety Engineers,

ASSE.Engr. Gidari-Wudil was registered with COREN in 2001 and is the first Nigerian Engineer to be Certified Regulatory Specialist. He is also Certified Public Private Partnership Specialist both from Institute of Public Private Partnership (IP3) Washington DC, and Certified Energy Manager, CEM(R). Engr. Gidari-Wudil has a great passion for the development of young engineers, and protection of the dignity of the engineering profession. He has served at various levels of the Nigeria Society of Engineers, ranging from Jos, Bauchi and Maitama Branches. He served on various boards and in committees at the NSE National level. He has been on COREN and NBTE accreditation teams as well as overwhelmingly elected Vice-President of NSE where he superintended the Engineering Bureau Service Department and Board (Engineering Manpower Bureau, Cost Indices and Infrastructural Score Card Committee, Accreditation Committee). He was the pivot of the implementation of the Computer Based Test for NSE corporate examination.

In 2017 he was re-elected as Vice President by yet another majority of the Nigerian engineers. He was assigned to supervise the Engineering Regulation, Legislation and Liaison Board/Department. His team was responsible for the reorganisation of the Young Engineers/Future Leaders in line with WFEO directives, engagement of government agencies and facilitation of collaborations. Several MoUs were either revived or initiated by ERL&L Board. The Standards and Codes Committee was very active. He held the position of the first Vice-President of NSE since 2018. During his tenure, Engr Gidari-Wudil supervised the Engineering Regulation, Legislation and Liaison Board. The face of the Nigerian Engineers has to his credit over eighteen National and International articles in the field of Electrical Engineering. He has attended so many courses in Engineering, Regulations, Public Private Partnerships, and Management. He is an alumnus of IP3, ILI, LBS and KBS. He has attended the Certified Energy Manager training in Cairo, Egypt and is a CEM compliant Engineer. Engr Gidari-Wudil is at a very advanced stage of completion of his PhD at the Abubakar Tafawa Balewa University Bauchi, Nigeria. Engr Tasiu Saad Gidari –Wudil was inaugurated as the 33rd President of the Nigeria Society of Engineers on 22nd January 2022, which is the position he holds at the moment.

12:30 - 1:00 pm, Wednesday, April 6, Keynote VII:



Prof. Dr. Esther T. AkinlabiDirector Pan African University for Life and Earth Sciences Institute (PAULESI) Ibadan, Nigeria

Professor Esther Titilayo Akinlabi is a Full Professor of Mechanical Engineering. She was recently appointed as the Director of the Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria. The Pan African University (PAU) is a continental initiative of the African Union Commission, Addis Ababa to revitalize Higher Education and Research in Africa. PAULESI represents the West African Hub of the Pan African University hosted by the University of Ibadan, Nigeria.

Prior to joining PAULESI, she had a decade of meritorious service at the Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg (UJ), South Africa. During her period of service at UJ, she had the privilege to serve as the Head of Department of the Department of Mechanical Engineering Science and as the Vice Dean for Teaching and Learning for the Faculty. Her research

interest is in the field of modern and advanced manufacturing processes – Friction stir welding and additive manufacturing. Her research in the field of laser based additive manufacturing include laser material processing and surface engineering. She also conducts research in the field of renewable energy, and biogas production from waste. She is a rated National Research Foundation (NRF) researcher in South Africa and has demonstrated excellence in all fields of endeavors.

Prof Akinlabi has supervised to completion 22 PhD candidates and 28 Masters Students. Her leadership, mentorship and research experience are enviable as she guides her team of postgraduate students through the research journey. She is a recipient of several research grants and has received many awards of recognition to her credit. She is a registered member of the Engineering Council of South Africa (ECSA), Council for the Regulation of Engineering Profession in Nigeria (COREN), South African Institution of Mechanical Engineers (SAIMechE), the Nigerian Society of Engineers (NSE) and the American Society of Mechanical Engineers (ASME), USA. Prof Akinlabi has filed two patents, edited four books, published seven books and authored/co-authored over 500 peer reviewed publications.

1:00 am - 1:30 pm, Wednesday, April 6, Keynote VIII:



Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD
Dean, School of Engineering
Department of Energy and Petroleum Engineering
University of Energy and Natural Resources
Sunyani, Ghana

Ing. Prof. Nana Sarfo Agyemang Derkyi, an Associate Professor of Chemical Engineering is the Dean of School of Engineering, University of Energy and Natural Resources (UENR), Ghana. He is a Chemist and a Chemical Engineer by education, and a Renewable Energy Technologies Expert by training and practice. He has a PhD in Chemical Engineering, Masters in Organic Chemistry, and two Bachelors, one in Chemistry, and another one in

Chemical Engineering. He is a recipient of the prestigious Organization for the Prevention of Chemical Weapons (OPCW) award, and a SEED Award Winner. He was the Country Representative for Ghana during the United Nations' International Year of Chemistry (IYC 2011). He has been actively involved in renewable energy technologies locally and internationally (Thailand, China, Israel, France, Germany, Niger, Algeria). He was part of the team that reviewed Ghana's Bioenergy Policy, Ghana's Energy Policy, and Renewable Energy Master Plan. He also contributed to Ghana's Draft Science Technology and Innovation (STI) Policy and Framework of STI Bill. He was one of the two-member Ghanaian delegation on 'Expert Consultation on Vegetable Oils of Africa for Energy' held in Uganda.

He is involved in the organization and administration of research, and supervision of undergraduate and graduate students' theses. He has trained plywood production managers in the formulation and application of his research team's cassava-based adhesives in plywood production throughout Ghana. He supervised the effective production of briquette charcoal for export and local consumption. He is passionate about sustainable processes, and he is currently leading a project on Zero Emission Concepts for Urban Resilience in Selected African Countries (ZECURA). His research program is aimed at the advancement of the biochemical, thermal, thermochemical, and electrochemical engineering applied to renewable energy technologies with a strong focus on the question "to what extent can renewable energy be integrated in the overall energy supply systems for improved livelihoods and sustainable development?" Another key area of his research is in the processing and utilization of natural products, as well

as the operations and optimization of chemical processes and the associated environmental consequences. Engineering design of equipment and plants is another area of his interest.

He teaches both undergraduate and graduate courses including Bioenergy Systems and Design, Biogas Technology, Process Engineering Principles, Production and Operations Management, Energy and Environmental Sustainability, Sustainability and Environmental Management Systems, and Renewable Energy. He has also developed some curricula in both graduate and undergraduate studies. He is a Visiting Professor at the Clean Energy Center of Naresuan University in Thailand where he offers training in biomass gasifier design and manufacture as well as solar water pumping systems. He is also a Visiting Professor at the West African Science Service Center on Climate Change and Adapted Land Use (WASCAL) of Abdou Moumouni University in Niger, as well as Pan Africa University of Water and Energy Science (PAUWES), Algeria; University of Applied Science, Rottenburg, Germany; Policy Pathways Incorporated, Virginia, USA. He is involved in Science, Technology, Engineering and Mathematics (STEM) capacity building of teachers across Ghana.

He has a number of publications to his credit and also reviews research articles for journals including, but not limited to Environmental Engineering Research Journal, International Journal of Renewable Energy Research, Renewable and Sustainable Energy Reviews, Academic Press, South African Journal of Chemical Engineering, International Journal of Renewable and Sustainable Energy, International Journal of Chemical Reactor Engineering, Journal of Emerging Trends in Engineering and Applied Sciences, Chemical Product and Process Modeling, International Journal of Pure and Applied Chemistry. He is a member of some local and international Associations including; Ghana Chemical Society, Ghana Institution of Engineering, World Bioenergy Association, World Society for Sustainable Energy Technologies, American Chemical Society, American Institute of Chemical Engineers, Society of Applied Spectroscopy, and Association of Energy Engineers.

1:30 pm - 2:00 pm, Wednesday, April 6, Keynote IX:



Engr Prof. Emenike. C. EjioguDirector, Africa Centre of Excellence for Sustainable Power and Energy Development University of Nigeria Nsukka

Prof. Emenike C. Ejiogu was educated at the Department of Electrical Engineering, University of Nigeria, Nsukka for B.Eng (June 1987) and M.Eng (March 1990), before proceeding for his PhD studies in April 1990 at the Department of Electronic Engineering, National Shinshu University, Nagano-city, Japan, on Japanese Government Ministry of Education Scholarship. Prof. Ejiogu obtained his PhD (Power Devices and Energy Systems), in March 1994. He has held various positions in the academia and industrial sector, in Japan, from April 1994 till present including, Assistant Professor, Department of Electrical & Electronic Engineering, Ritsumeikan University, Kusatsucity, Japan (Sept 1997 – Sept 2001), Director of Technology, Energy & Environmental Inc, Osaka, Japan (2005-2008), Research Professor, Mirai Denchi/MicroSilitron Inc. Laboratory, High Tech Research Centre, Ritsumeikan University, Japan (2007-2013) and Executive Director (Industrial Technology and Innovation), Nigerian Chamber

of Commerce and Industry in Japan (NCCIJ), Tokyo, Japan (2017-Present).

In June 2011, he was appointed a professor at the University of Nigeria, Nsukka. Prof. Ejiogu has since served the university in various positions, such as, the Head of Department of Electrical Engineering (August 2013-July 2016), the Chairman of the Board of the University of Nigeria Water Resources Management Services Limited (2017-2018), Board Member, University of Nigeria Lion Science Park (2018-Present). Prof. Ejiogu is the Executive Adviser to the Vice-Chancellor on Special Projects (2018-Present). He is the Principal Investigator of the Laboratory of Industrial Electronics, Power Devices and New Energy Systems (LIEPNES), University of Nigeria, Nsukka (July 2011 – Present).

In 2018, Prof. Ejiogu led a multidisciplinary group of academic and non-academic staff of the University of Nigeria to write a proposal that merited the award of a World Bank Centre of Excellence. The Centre is named the Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), and Prof. Ejiogu currently serves as the Director/Centre Leader of the Centre. He is also a Visiting Professor at the Department of Electrical and Electronic Engineering Science, University of Johannesburg, South Africa (2020-present).

Prof. Ejiogu belongs to several professional organizations, such as the New York Academy of Sciences, USA (1996-Present), Institute of Electrical Engineers, Japan (IEEJ) (1994-Present), the European Power Electronics Association (EPE) (1997-present), the Institute of Electrical and Electronic Engineers (IEEE), USA (1992-present), Nigeria Society of Engineers (NSE) (2017-present). He is a registered Engineer of the Council for Regulation of Engineering in Nigeria (COREN), since 2011.

Prof. Ejiogu has numerous publications in reputable international journals and conferences and has trained many Masters and PhD students both in Japan and in Nigeria. He also has international patents in new energy devices and systems. His areas of expertise include industrial electronics, power devices and new energy systems.

2:00 am - 2:30 pm, Wednesday, April 6, Keynote X:



Professor Charles Mbohwa, Ph.D.
Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe, Harare, Zimbabwe

Professor Charles Mbohwa is a Pro-Vice Chancellor Strategic Partnerships and Industrialisation at University of Zimbabwe and an affiliated Professor in the Faculty of Engineering and the Built Environment. He is an established researcher and professor in the field of sustainability engineering and energy. He was the Chairman and Head of Department of Mechanical Engineering at the University of Zimbabwe from 1994 to 1997 and was Vice-Dean of Postgraduate Studies Research and Innovation in the Faculty of Engineering and the Built Environment at the University of Johannesburg from 2014 to 2017. He has published more than 350 papers in peer-reviewed journals

and conferences, 10 book chapters and three books. He has a Scopus h-index of 11 and Google Scholar h-index of 14. Upon graduating with his BSc Honours in Mechanical Engineering from the University of Zimbabwe in 1986, he was employed as a mechanical engineer by the National Railways of Zimbabwe. He holds a Masters in Operations Management and Manufacturing Systems from University of Nottingham and completed his doctoral studies at Tokyo Metropolitan Institute of Technology in Japan. He was a Fulbright Scholar visiting the Supply Chain and Logistics Institute at the School of Industrial and Systems Engineering, Georgia Institute of Technology, a Japan Foundation Fellow, is a Fellow of the Zimbabwean Institution of Engineers and is a registered mechanical engineer with the Engineering Council of Zimbabwe. He has been a collaborator

in projects of the United Nations Environment Programme. He has also visited many countries on research and training engagements including the United Kingdom, Japan, German, France, the USA, Brazil, Sweden, Ghana, Nigeria, Kenya, Tanzania, Malawi, Mauritius, Austria, the Netherlands, Uganda, Namibia and Australia. He has had several awards including British Council Scholarship, Japanese Foundation Fellowship, Kubota Foundation Fellowship; Fulbright Fellowship.

Thursday, April 7

12:00 - 12:30 pm, Thursday, April 7, Keynote XI:



Prof. Elizabeth S. Bosire Abenga
Director, Pan African University Institute for Governance, Humanities and Social Sciences
(PAUGHSS)
Yaounde Cameroon

Prof. Dr. Elizabeth S. B. Abenga is a Professor of Education with a PhD in Educational Communication and Technology – Educational Technology specialisation, a Masters in Educational Administration, Planning and Curriculum Development with a focus on Curriculum Development after a Bachelor of Education. In addition to this she has special certification of training in higher education leadership and management from University of Kassel, Germany and an enviable training in Management of Internationalization in Higher education from University of Hannover, Germany. She assumed office as the Director of the Pan African University for Governance, Humanities and Social Sciences (PAUHSS), in Yaoundé, Cameroon in 2020. She joined PAUGHSS, from Kenya with experience in Higher education institution teaching and research of over 33 years, the most recent being at Masinde Muliro University of Science and Technology, where she served for over 17 years in the department of Curriculum

and Instructional Technology and various administrative positions. Here she rose up the ranks through the Kenyan meritocratic system. While at Masinde Muliro University she had the privilege to serve as the Head of Department of Information and Documentation in the School of Open learning and Continuing Education, as the founding Director of International relations and linkages for the university, and acting Deputy Vice Chancellor of Academic and Student Affairs. Her research interest is in the field of application of technology in instructional design and implementation. She also has an interest in organizational learning and Internationalization which have influenced her practice and publication profile.

Prof. Abenga has a prolific portfolio of expertise in training and capacity building in her three spheres of interest (Teaching and Learning, higher education leadership and management and Internationalization) to the level of regional expert in DAAD sponsored programmes. She is an active member of professional associations such as African Network for Internationalisation of Education (ANIE), Society of Educational Research and Evaluation in Kenya (SEREK), Educational Management Society of Kenya (EMSKENYA), South Africa Comparative and History of Education Society (SACHES), Kenya DAAD Scholars Association (KDSA), African Women in Science and Engineering (AWSE) DIES-DAAD network. Prof. Abenga has a rich repertoire of authored and co-authored peer reviewed articles, book chapters and 5 training modules and supervised as well as mentored graduate students.

12:30 - 1:00 pm, Thursday, April 7, Keynote XII:



Prof Keith Carter Honorary Professor University of Leicester United Kingdom

Keith F. Carter is a Fellow of the Institution of Mechanical Engineers as well as being a chartered Nuclear engineer and a chartered Naval Architect. He is a director and principal consultant for Keimar Consultancy in Leicester, England. Over the last 15 years, Keith has been associated with a wide variety of engineering projects for Rolls-Royce at Derby, England, in both the nuclear marine and aerospace divisions principally specialising in structural integrity issues. He has also carried out other significant projects in a variety of fields, including the analysis of Agraphite cores for British Energy (EDF). Dr. Carter has held the post of Visiting Design Professor within the School of Engineering at the University of Leicester in England for a number of years, bringing in considerable engineering and industrial experience to the teaching of students and to various research projects. He holds a Bachelor of

Science degree in chemistry and a PhD in statistical mechanics using computer simulation, both from the Royal Holloway College at the University of London and has authored over 30 academic papers as well as numerous reports for client companies.

1:00 - 1:30 pm, Thursday, April 7, Keynote XIII:



Engr. Dr Izuchukwu F. OkaforDirector, National Centre for Energy Research and Development University of Nigeria Nsukka

Izuchukwu F. Okafor is the current Director of the National Centre for Energy Research and Development (NCERD), University of Nigeria Nsukka (UNN) and the Head, National Stove Eligibility Laboratory Unit of the Centre. He obtained his B. Eng. and M. Eng. in Mechanical Engineering from University of Nigeria, Nsukka, with emphasis on Energy and Power Technology and PhD at University of Pretoria, South Africa, in the Dept. of Mechanical and Aeronautical Engineering. He conducted his research work in the Clean Energy Research Group funded by Advanced Engineering Centre of Excellence, University of Pretoria, NRF, TESP, NAC, and SOLAR Hub, EEDSM Hub and CSIR. He has his expertise in: (i) Renewable energy technology: solar thermal systems design

and development – concentrated solar thermal system, solar water and air heating system; numerical modelling and simulation, CFD-ANSYS fluent, etc. (ii) Energy Management and Environment: Industrial energy audit, energy efficiency programme, etc. In 2008, he was appointed a Research Fellow in the NCERD, UNN. He was the Head, Energy Mgt. and Environment Unit of the Centre and team member on the Implementation of the ECN/ECOWAS/CUBA Govt. Energy Efficient Lighting Project in UNN. He was the principal investigator in the design and development biomass

cookstoves, biomass/coal briquetting machine, biomass solid fuels optimization and production of clean biomass briquette fuel funded by NCERD, UNN. He chaired the Technical Committee on verification/validation committee, for implementation of the biomass clean cookstoves standard in Nigeria in 2017. Under the UNDP-GEF Sustainable Fuelwood Management (SFM) Project in Nigeria, he is the Team Leader on the Participatory Technology Development of Affordable and Energy-Efficient Cookstoves. He has conducted several capacity building trainings on energy-efficient biomass cookstoves design, fabrication, and characterization/performance evaluation. In 2018, he had a parallel appointment as a Senior Research Fellow in the Dept. of Mechanical Engineering, UNN, where he lectures Mechanics of Machines, and also in the World Bank Africa Centre of Excellence for Sustainable Power and Energy Development, UNN, where he lectures on Energy Conversion and Storage Processes. He supervises B. Eng. and M. Eng. degree projects, and has research publications in peer-reviewed journals and conference proceedings. He has chaired and participated conferences/workshops, HTC in Kyoto, Japan in 2014, presented his research articles at both local and international conferences. He was the Secretary-General Solar Energy Society of Nigeria and a member of World Energy Council (WEC)-Nigerian National Committee, Corporate member of Nigerian Society of Engineers (NSE), ASME and COREN Registered.

1:30 - 2:00 pm, Thursday, April 7, Keynote XIV:



Engr Felicia Nnenna Aguabata, PhD. FNSE, ACIArb Nigeria Airspace Management Agency Murtala Muhammed International Airport Ikeja, Lagos, Nigeria

Dr. Felicia Nnenna Agubata is the Assistant General Manager Terrestrial Services at the Nigerian Airspace Management Agency (NAMA). NAMA is an Air Navigation Service Provider (ANSP) responsible for managing the Nigerian Airspace through the Provision, Installation and Maintenance of Navigational Aids, Communication Equipment and Surveillance Systems, etc. Dr. Felicia has over 18 years of experience in aviation, project management and communication engineering. She is a graduate of Computer Science & Engineering (2nd Class , Upper Division) , has a Master's degree in Electrical/Electronic Engineering (Communication Engineering) with distinction and holds a doctorate degree in Communication Engineering.

Felicia is a Council member of the Council for Regulation of Engineering in Nigerian (COREN), Member Technical Board of Directors of Prototype Engineering Development Institute(PEDI), Ilesha, Osun State and a Fellow of the Nigerian Society of Engineers (FNSE). She was a past Director IFATSEA (International Federation of Air Traffic Electronics Association) African Region, Member Board of Trustee Women in Aviation Nigerian Chapter and an Associate member of UK-Based Chartered Institute of Arbitrators(ACIArb). A recipient of 2010 Women in Aviation Scholarship as well as 2007 Association of Women in Aviation Maintenance (AWAM) scholarship and featured in 2006 edition of AWAM newsletter.

Dr. Felicia Agubata is the 15th President of the Association of Professional Women Engineers of Nigeria (APWEN), from 2018 to 2019; and a passionate Dream Gap/ STEM advocate. She has trans versed all the six geopolitical zones in Nigeria with her "Invent It, Build It " initiative under APWEN and awarded scholarships to 81 pupils from primary to university level as well as constructing seven science and technology laboratories in seven states (primary schools) across the six geo political zones in Nigeria in partnership with NNPC. Some of the labs are completed and others are work in progress. She has contributed in building the capacity of STEM teachers across the six geopolitical zones in partnership with University of West of Scotland through the SHEENGINEER "Invent It, Build It " program sponsored by Royal Academy of Engineering UK, in partnership with University of West of Scotland (UWS) and collaboration with Institution of Engineering Technology(IET), UK as the 2019 GCRF African Catalyst grant awardee.

She is the recipient of APWEN Biennial Woman award 2018-219(for unparalleled contribution to women capacity development and girl -child education) and 2020-2021(for the greatest impact on the associations achievements). She is a recipient of Aviators Africa Tower Awards as a Change maker for year 2021 under STEM category. She is a committed professional as attested by her industry and hands on approach to problem solving. Principals and peers readily acknowledge her can-do spirit and team ethics. Felicia has an innate desire to mentor and guide young STEM students in achieving their goals. Her knack and drive for engineering solutions are compulsive. She also enjoys percolating technical knowledge within professional groups and outside. She is a devout Christian and happily married with kids.

2:00 - 2:30 pm, Thursday, April 7, Keynote XV:



Engr Dr. Mrs. Edith Y. Ishidi, FNSE, FIPE, RCOREN, MACS, MSPE, MPIN, MSLCT, MMSN Director of Research, Business Development, Consultancy and Collaboration Sheda Science and Technology Complex Federal Ministry of Science, Technology and Innovation Abuja Nigeria

Engr. Dr. Mrs. Ishidi FNSE an indigene of Abia State, obtained her Doctor of Philosophy (Ph.D) in the year 2010 from the prestigious Ahmadu Bello University (ABU) Zaria and had a foundation degree from the very revered Federal University of Technology Owerri (FUTO) in Imo state with second class (honours) upper degree and M. Eng. from the same University. Her passion driven career of human capacity development started in the year 1999 in Zaria, Kaduna State as Assistant Lecturer in the then Federal College of Chemical and Leather Technology, (CHELTECH) Samaru Zaria, where she was assigned the responsibility of carrying out research and teaching of students in the field of Polymers and Polymer related programs. To these she served diligently as a Lecturer, Researcher, Examination Officer, Students Project Officer, SIWES Coordinator, Departmental Secretary, Head of

Department and Pioneer Director of Polymers and Environmental Technology Directorate of the same agency. The agency's name was later, (in 2011) changed to the Nigerian Institute of Leather and Science Technology (NILEST). She left NILEST in December 2015 to join another sister agency called Sheda Science and Technology Complex (SHESTCO), Abuja.

SHESTCO is also a Research Institute in the Federal Ministry of Science and Technology (FMST) now Federal Ministry of Science, Technology and Innovation (FMSTI), with the core mandate of advanced research (at its highest possible level in Nigeria). During her service at NILEST, which spanned almost 2 decades, Engr. Dr. Mrs. Ishidi served in different capacities which include the following:

- Director, Polymers and Environmental Technology;
- Head of Department, Polymer Technology;

- NILEST Management Committee;
- NILEST Tenders Board;
- Chairman, NILEST Projects Implementation and Monitoring Committee (PIMC);
- Chairman, NILEST Technologically Based Projects Commissioning Committee;
- Member, NILEST Projects Planning and Procurement Committee;
- Member, NILEST Exhibition Committee;
- NILEST Workshop Facilitator for in House Capacity Building on Entrepreneurship;
- Member, Committee on Development of Zazzau Leather Cluster Project through Public Private Partnership;
- Examination Officer in School of Chemical Technology;
- Students Project coordinator in the School of Chemical Technology;
- Member, Staff Welfare Committee as well as
- Member of many sub-committees too many to be mentioned.

Her experiences as lecturer, researcher and an administrator are evident in her list of about Forty (40) Journal publications both National and International as well as numerous students' projects supervised over the years. Her exposure and experience as HOD and later as Director of Research have also helped her acquire the needed leadership competencies that has enabled her excelled in various responsibilities given to her at different times. This is demonstrated by the written commendation to her by the management of NILEST in 2013 and the award she received as an Ambassador of Moral and Ethics in Civil Service in 2015.

Engr. Dr Mrs. Ishidi has served NSE in the following capacities:

- Vice President in charge of Process and Electro -mechanical Board;
- National Executive Committee Member;
- Chairman, Engineering Man-power Development Committee;
- Vice Chairman, Membership Services Department;
- Vice Chairman, Engineering Regulation Liaison/Legislation Board;
- Chairman, NSE Professional Examination Committee;
- Member, Professional Development Board;
- Member, Membership Services Board;
- Associate Examiner, Category C1 Interview;
- Member NSE Onward Strategic Vision;
- Member, Women in Engineering Committee;
- Member, Engineering Burear Services Board;
- Chairman NSE Zaria Branch;

She is a member of the following professional bodies:

- Registered Engineer, Council for the Regulation of Engineering in Nigeria. (RCOREN)
- Fellow, Nigerian Society of Engineers. (FNSE).
- Fellow, Institute of Polymer Engineers. (FIPE)
- Member, American Chemical Society, (ACS).
- Member, Society of Plastics Engineers. (SPE) UK.
- · Member, Society of Leather Chemists and Technologists, UK.
- Member, Polymer Institute of Nigeria (PIN).
- Member, Material Society of Nigeria (MSN).

She has on several occasions represented the Federal Ministry of Science and Technology (FMSTI) and the country at bi – national discussions both within and outside Nigeria on Science and Technology matters. She is happily married to Mr. M.Y.N Ishidi. To the glory of God, the union is blessed with children.

Conference Committee

Conference Chief Host

Prof. Charles Arizechukwu Igwe, Vice-Chancellor, University of Nigeria Nsukka

Professor Charles Mbohwa, Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe

Conference Chairs

Dr. Paul A. Ozor, Head, Department of Mechanical Engineering, University of Nigeria Nsukka

Dr. Ahad Ali, Associate Professor and Director of Industrial Engineering Program, Lawrence Technological University, Southfield, Michigan, USA

Professor Don Reimer, Lawrence Technological University, Southfield, Michigan, USA

Engr. Prof. Edmund C. Okoroigwe Chairman, Nigeria Society of Engineers, Nsukka Branch

Engr Prof. Gloria I. Ezenne Department of Agricultural and Bioresources Engineering, University of Nigeria Nsukka

Technical Chairs

Prof. Umar Adamu Alhaji, Department of Mechanical Engineering, Bayero University Kano, Kano State Nigeria

Engr. Dr. Mrs. Okokpujie Imhade Princess Department of Mechanical Engineering, Afe Babalola University, Ado-Ekiti, Ekiti State Nigeria Engr. Prof. Rapheal O. Edokpia, Department of Industrial and Production Engineering, University of Benin, Edo State Nigeria

Industry Chairs

Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria Eng. Nnoli Akpedeye FNSE, 13th APWEN President

Women in Industry and Academia Chairs

Engr Felicia N. Aguabata PhD, FNSE, ACIArb, Nigeria Airspace Management Agency, Murtala Muhammed Airport, Ikeja, Lagos, Nigeria Engr Dr Mrs. Edith Y. Ishidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, P.M.B. 186, Abuja

Global Engineering Education Chairs

Prof. Abiodun H. Adebayo, Vice-Chancellor, Covenant University, Ota Nigeria Prof. Elizabeth S. Bosire Abenga Director Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS) Yaounde Cameroon

Global Supply Chain and Logistics Chair

Ms Sebonkile Thaba, Department of Transport and Supply Chain Management, University of Johannesburg, South Africa

Global Business Management Education Chair

Prof. Vincent A. Onodugo, Dean Faculty of Business Administration, University of Nigeria, Enugu campus Enugu, Nigeria

Industry 4.0 Chair

Engr Prof. Ogechukwu N. Iloanusi Head, Department of Electronic Engineering, University of Nigeria Nsukka

Industry Solutions Chairs

Engr. Dr. Patricia N. Opene-Odili FNSE, 8th APWEN President (Association of Professional Women Engineers of Nigeria)

Engr Samuel Ayuba Ushe MNSE, The State Coordinator Standards Organization of Nigeria, Rivers/Bayelsa, Port-Harcourt, Rivers State

Local Organizing Committee

Engr Dr. Paul A. Ozor, Department of Mechanical Engineering, University of Nigeria Nsukka

Engr. Prof. Esther T. Akinlabi, Director, Pan African University for Life and Earth Sciences Institute (PAULESI) Ibadan, Nigeria African Union Commission Engr. Dr. Mrs. Okokpujie Imhade Princess, Department of Mechanical Engineering, Afe Babalola University, Ado-Ekiti, Ekiti State Nigeria Engr. Dr. Patrick U. Akpan, Department of Mechanical Engineering, University of Nigeria Nsukka

Dr Musa-Olokuta, Adekunle Ibrahim, Department of Mechanical Engineering Olabisi Onabanjo University, Ibogun Campus, Ogun State, Nigeria Engr Noble O. Nweze, Department of Mechanical Engineering, University of Nigeria Nsukka

Engr Benedict N. Ugwu, Department of Mechanical Engineering, Enugu State University of Science and Technology Enugu, Nigeria Dr. Omolayo M. Ikumapayi, Department of Mechanical and Mechatronics

Engineering Afe Babalola University, Ado Ekiti, Nigeria

Dr. Adeolu A. ADEDIRAN, Mechanical Engineering Department, Landmark University, Omu-Aran, Kwara State

Engr. Prof. Edmund C. Okoroigwe, Chairman, Nigeria Society of Engineers, Nsukka Branch

Engr Prof. Gloria I. Ezenne Department of Agricultural and Bioresources Engineering, University of Nigeria Nsukka

Engr C.N. Achebe, Coordinator, IEOM Student Chapter, University of Nigeria

Dr. Mariam Kassim Ali, Department of Mining, Materials and Petroleum Engineering, Jomo Kenyatta University of Agriculture & Technology, Nairobi, Kenya

Dr. Fredrick Madaraka Mwema, Senior Lecturer, Department of Mechanical Engineering, Director Centre for Nanomaterials & Nanoscience, Dedan Kimathi University of Technology (DeKUT), Nyeri, Kenya

Dr. Japheth Obiko, College of Engineering and Technology (COETEC), Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya Dr. Samson N. Ugwu Department of Agricultural and Bioresources Engineering, University of Nigeria Nsukka

Technical Parallel Session Chairs

Engr Prof. Sylvester. O. Edelugo Department of Mechanical Engineering, University of Nigeria Nsukka

Engr Prof. Victor S. Aigbodion Department of Metallurgical and Materials Engineering, University of Nigeria Nsukka

Engr Prof. S.C. Nwanya Department of Mechanical Engineering, University of Nigeria Nsukka

Conference Secretariat

Dr. Taufiqul Islam, Operations Manager, IEOM Society International Mr. Ahmad Mahir Faysal, Associate Program Manager, IEOM Society

Track Chairs

Agricultural Engineering Systems

P. Udomkun, International Institute of Tropical Agriculture (IITA), Bujumbura, Burundi

S. Nsabimana, Department of Geography, University of Burundi, Bujumbura, Burundi

M. Minteh, Department of Agriculture (DoA), Ministry of Agriculture, Gambia

Artificial Intelligence

Dr. L. Razanakolona, LIMAD, Uneversity Fianarantsoa, Madagascar Automation and Control

Dr. Rajab Abdullah Hokoma, University of Tripoli, Libya Dr. G.M. Bouba, LTI Laboratory, ESP/UCAD, Dakar, Senegal

Business Management

Dr. M Sandada, Senior Lecturer, Graduate School of Management, University of Zimbabwe

Case Studies

Dr. G.A. Mboro Nchama, Departamento de Ciencias Técnicas, Universidad Nacional de Guinea Ecuatorial (UNGE), Malabo, Equatorial Guinea

Climate

G.-N.T. Longandjo, Faculty of Environmental Science and Engineering, Université Nouveaux Horizons, Lubumbashi, Democratic Republic Congo

Cyber Security

Dr. Sam Takavarasha Jr. Women's University in Africa

Dr. Lemma Lessa, Assistant Professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia

Dr. Alfred Musarurwa, CIO Nedbank, Zimbabwe

Computers and Computing

Joseph Shitote, Strathmore University, Kenya

Construction Management

Hossam Hassaan, University of Alexandria, Alexandria, Egypt

Rym Nassih, École Mohammadia d'ingénieurs (EMI) Rabat, Morocco

Decision Sciences

Dr. Bupe Mwanza, University of Zambia

Design and STEM Workshop

Dr. Marni Lafleur, University of Madagascar

E-Business and E-Commerce

Dr. N. Armando, Universidade Kimpa Vita, Kondo Benze Uíge, Angola

Rannditsheni Pfunzo, University of Johannesburg, South Africa Kátia C.P. Gabriel, Talatona-Município de Belas, Luanda, Angola

Engineering Economy

Dr. Clarimon Georges Kiakondo, Faculté des sciences et technologies, Brazzaville, Congo, Republic of the (Congo-Brazzaville)

Engineering Education

Dr. J. Kamaghe, Nelson Mandela African Institution of Science and Technology, Tanzania

Dr. Tagwa Musa, Sudan University of Science and Technology, Khartoum,

Engineering Management

Dr. Ignatio Madanhire, University of Zimbabwe

Entrepreneurship and Innovation

Dr. Khedidja Allia, Department of Process Engineering, FGMP - USTHB -Algiers, Algeria

Environmental Engineering Systems

Dr. Widad FETHALLAH, Industrial Engineering and Sustainability, National School of Applied Sciences at Tangier, Morocco

Ronald Ragoasha, Council of Geoscience, Pretoria, South Africa Rui Sitoe, Universidade Eduardo Mondlane, Mozambique

Facilities Planning

Dr. Abderrezzak Hocine, University Badji Mokhtar, Sidi Amar, Algeria

Financial Engineering

Dr. Amevi Acakpovi, Accra Technical University, Accra, Ghana

Healthcare Systems

F. Tshibasu, Cliniques Universitaires de Kinshasa, Democratic Republic Congo

C.O. Bagayoko, DigiSanté-Mali, USTTB, Bamako, Mali

Human Factors and Ergonomics

Dr. Osatohanmwen Enehizena, University of Benin

iCloud

M.T. Dandjinou, Nazi BONI University/LAMDI, Bobo-Dioulasso, Burkina Faso

Industry 4.0 in African Context

Emmanuel Lule, University of Rwanda, Kigali, Rwanda

C. Mikeka, Chancellor College, University of Malawi (UNIMA), Zomba, Malawi

Information Technology and Management Information Systems Dr. Euchi Jalel, OLID Laboratory, ISGIS, Sfax University, LR19ES21, 3021, Sfax, Tunisia and College of Business and Economics, Qassim University, Buraydah, Saudi Arabia

Inventory Control and Management

Abebayehu Abdela, School of Mechanical and Industrial Engineering, Manufacturing Engineering Chair, EiTM - Ethiopian Institute of Technology Mekelle, Mek'ele, Ethiopia

loT – Internet of Things M.M. Wielfrid, Institut National Polytechnique Felix Houphouët-Boigny (INPHB), Yamoussoukro, Cote d'Ivoire

Lean and Six Sigma

Dr. Adekunle Kolawole, Senior Lecturer, Department of Industrial and Production Engineering, University of Ibadan, Nigeria

Logistics

Noredine Sadki, Industrial Engineering Science, Faculty of Sciences and Technology Tangier, Morocco and Abdelmalek Essaadi University, Morocco

Dr. AMM Nazmul Ahsan, Western Carolina University, Cullowhee, North Carolina, USA

Dr. Nicholas Tayisepi, National University of Science and Technology, Zimbabwe

Dr. Khobatha Setetemela, National University of Lesotho, Roma, Lesotho

Material Flow Cost Accounting (MFCA)

Dr. Wichai Chattinnawat, Chiang Mai University, Thailand

Modeling and Simulation

Dr. Ali ElKamel, University of Waterloo, Canada

Dr. Magdy Helal, American University of the Middle East (AUM), Kuwait

Occupational Safety and Health (OSH)

Dr. A.M. Idriss, Al Aassriya Nouakchott University, Nouakchott, Mauritania Dr. F.N. Osman, University of Medical Sciences and Technology, South Sudan

Operations Management

Lawrance Seseni, University of Johannesburg, South Africa

Operations Research

Dr. Michael Mutingi, National University of Science and Technology, Windhoek, Namibia

Optimization

Prof. Lagouge Tartibu, University of Johannesburg, South Africa Prof. Sandile Motsa, University of Eswatini, Kwaluseni, Swaziland

Product Development

Dr. R. Kumar, Eritrea Institute of Technology, Asmara, Eritrea

Product Lifecycle Management Dr. Ali Allahverdi, Kuwait University, Kuwait

Production Planning and Management

Jerekias Gandure, Lecturer at University of Botswana

Project Management

Edison Lubua, Institute of Accountancy Arusha, Arusha, Tanzania

Quality Control and Management

Dr. Devkumar Callychurn, University of Mauritius

Robotics and Mechatronics Engineering

Dr. Tawanda Mushiri, Department of Mechanical Engineering, University of 7imbabwe

Reliability and Maintenance

Thierry Ngoundou Boulamatari, Gabon

Sensors and Sensing Systems

Kizito Mubiru, Kyambogo University, Kampala, Uganda

Service Systems and Service Management

Dr. N.D. Lamso, Université de Abdou Moumouni, Niamey, Niger

Dr. H. Wurie, University of Sierra Leone, Freetown, Sierra Leone Dr. G. Nallo, University of Liberia Pacific, Monrovia, Liberia

Supply Chain Management

Ms. Sebonkile Thaba, Lecturer, University of Johannesburg, South Africa

Sustainability and Green Systems

Dr. Loice K Gudukeya, Department of Mechanical Engineering, University of

F.A. Muvundja, Université Catholique de Bukavu (UCB), Central African Republic

Sustainable Manufacturing Dr. Jean Brice MANDATSY Moungomo, Ecole Normale Supérieure de l'Enseignement Technique (ENSET), Boulevard Léon Mba, Libreville, BP 3989. Gabon

Dr. I. Pachoukova, Ecole Nationale Supérieure d'Ingénieurs, University of Lome, Togo

Systems Engineering

Dr. Kamga Tchwaket Ignace, Chef du département d'Economie à l'ISSEA, Cameroon

Technology Management

Dr. J. Mbainaibeye, Université de DOBA, Doba, Chad

Total Quality Management (TQM)

Dr. Salah Haridy, University of Sharjah, Sharjah, UAE Dr. M. Shamsuzzaman, University of Sharjah, Sharjah, UAE

Transportation and Traffic

Dr. Abbas Mahmoudabadi, Mehrastan University, Gilan, Iran

Work Design, Measurement, Standardization and ISO Dr. Yunos Ngadiman, Universiti Tun Hussein Onn Malaysia

Competition Committee

Undergraduate Student Paper Competition Chair

Graduate Student Paper Competition Chair

Doctoral Dissertation Competition Chair

Masters Thesis Competition Chair

Senior Design Project Competition Chair

Undergraduate Research Competition Chair

Simulation and PLM Competition Chair

High School and Middle School STEM Competition Chair

Lean Six Sigma Competition Chair

Dr. Ogundu, Emerald Consulting Services, Detroit, Michigan

Supply Chain and Logistics Competition Chair

Honorary Committee

Pr. Moulay Larbi Abidi, École Mohammadia d'ingénieurs, Rabat, Morocco

Dr. Hamidi Bashir, Chairperson, University of Sharjah, UAE

Dr. Mohamed Essaaidi, Mohamed V University in Rabat, Morocco

Dr. Devashis Mitra, University of New Brunswick, Fredericton, Canada

Prof. Dr. Mohd Razali Muhamad, Deputy Vice Chancellor (Academic and Internationalization), Universiti Teknikal Malaysia Melaka

Professor Dr. Norazman Mohamad Nor, Deputy Vice Chancellor (Research and Innovation), National Defence University of Malaysia in Kuala Lumpur Dr. Hamid R. Parsaei, Texas A&M University at College Station and Qatar

Dr. Ismail Tag, SVP & Provost, The Petroleum Institute, Abu Dhabi, UAE

Dr. Noordin Mohd. Yusof, Universiti Teknologi Malaysia

Advisory Committee

Pr. Moulay Larbi Abidi, École Mohammadia d'ingénieurs, Rabat, Morocco

Dr. Muhammad Abid, Ghulam Ishaq Khan Ins. of Eng. Sci. & Tech., Pakistan

Dr. Olufemi Adetunji, University of Pretoria, South Africa

Dr. Umar AL-Turki, KFUPM, Saudi Arabia

Dr. Ronald G. Askin, Arizona State University, USA

Dr. Mohammed Ben-Daya, KFUPM, Saudi Arabia

Dr. Abdul Talib Bon, Universiti Tun Hussein Onn Malaysia

Dr. Raj Das, University of Auckland, New Zealand

Dr. Kudret Demirli, Khalifa University, Abu Dhabi, UAE

Dr. Jose Arturo Garza-Reyes, University of Derby, UK

Dr. Alireza Ghasemi, Dalhousie University, Halifax, NS, Canada

Dr. Moncer Abdelhamid Hariga, American University of Sharjah, UAE Dr. Mohammad D. Al-Tahat, The University of Jordan, Amman, Jordan

Dr. Arun Kumar, RMIT University, Australia Dr. Jay Lee, University of Cincinnati, USA

Masaru Tezuka, Hitachi Solutions East Japan, Ltd., Sendai, Japan

Dr. Abu Masud, Wichita State University, Kansas, USA

Dr. Charles Mbohwa, University of Johannesburg, South Africa

Dr. Samar Mukhopadhyay, GSB-Sung Kyun Kwan University, Seoul, Korea

Dr. Nor Hasni Osman, Universiti Utara Malaysia

Dr. Leonard Perry, University of San Diego, USA

Dr. Ho Thanh Phong, International University - VNUHCM, Vietnam

Dr. Abdur Rahim, University of New Brunswick, Canada

Dr. Mehmet Savsar, Kuwait University, Safat, Kuwait

Dr. Rapinder Sawhney, University of Tennessee - Knoxville, USA Dr. Rosemary Seva, De La Salle University - Manila, Philippines

Dr. Devdas Shetty, University of the District of Columbia, Washington, DC,

Dr. Hamid Seifoddini, University of Wisconsin-Milwaukee, USA

Dr. Alfredo Soeiro, University of Porto, Portugal

Dr. Robert de Souza, The Logistics Institute – Asia Pacific, Singapore

Dr. Masine Md. Tap, Universiti Teknologi Malaysia
Dr. Zulkifli Mohamed Udin, Universiti Utara Malaysia
Dr. Alok Verma, Old Dominion University, Norfolk, Virginia, USA
Dr. Hari Agung Yuniarto, Universitas Gadjah Mada, Indonesia

Dr. Li Zheng, Tsinghua University, China

Dr. Henk Zijm, University of Twente, Netherlands Dr. Ravi Inder S Jassar, Birla Institute of Technology and Sci., Pilani, India

Global Engineering Education Committee

Dr. Abu Masud, Boeing Global Engineering Professor, Industrial and Manufacturing Engineering Department, Wichita State University, Kansas,

Dr. Hamid Parsaei, Texas A&M University (College Station) and Qatar

Dr. Mukondeleli Grace Kanakana, University of South Africa

Dr. Syed Ahmad Helmi Al Haddad, Program Coordinator for MSc in Industrial Engineering and Associate Fellow, Center for Engineering Education (CEE), Universiti Teknologi Malaysia, Skudai, Johor, Malaysia

Dr. Mehmet Savsar, Professor, Department of Industrial and Management Systems Engineering, Kuwait University, Safat, Kuwait

Dr. Vitor M. Caldana, Professor, Depto. de Eletroeletrônica, IFSP - Instituto Federal de São Paulo - Campus Sorocaba, SP, Brazil

Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia

Dr. Chan Chee-Ming, Associate Professor and Deputy Dean (Academic and Research), Universiti Tun Hussein Onn Malaysia

Dr. Ilham Kissani, Faulty of Engineering & Management Science, Al Akhawayn University, Ifrane, Morocco Dr. Ho Hwi Chie, Bina Nusantara University (Binus), Indonesia

Dr. Rosemary Seva, De La Salle University – Manila, Philippines Dr. Jihong Yan, Professor in Industrial Engineering and Deputy Dean of School of Mechatronics Engineering, Head of intelligent Manufacturing Scientific

Research Team, Harbin Institute of Technology, Harbin, China

Industry Solutions Committee

Dr. Zeki Ayağ, Kadir Has University, Turkey

Amine Belhadi, Industrial Engineering Research Team, Higher School of Technology, Safi, Cadi Ayyad University, Marrakech, Morocco Sameh Moh. Nour El-Din A-Razek, Al Ezz Dekheila Steel Co., Alexandria,

Egypt

Abdullah Y Dhafer, Aramco, Saudi Arabia

Natasha Dzulkarnain, Construction Research Institute of Malaysia

Dr. Kenichi Funaki, Hitachi, Yokohama, Japan

Dr. Adel Hejaaji, Engineering Services Management Limited, Essex, UK

Dr. Anwar Hossain, Daikin Applied, Minneapolis, Minnesota, USA Ihfasuziella Ibrahim, Construction Research Institute of Malaysia (CREAM) Dr. MAS Kamal, Toyota Central R&D Labs. Inc., Nagoya, Aichi, Japan Hwa Kooi Kok, Intel Malaysia

Ali Massaeli, National Iranian Gas Company, Iran German Moya, President at IEEE Costa Rica Section, Costa Rica Paul Moore, International Mining, England, UK

Dr. Gerard O'Connor, Adelaide and Meath Hospital, Dublin, Ireland

Dr. Banu Ozkeser, Istanbul, Turkey Dr. Sushil K. Shetty, Wilsonart LLC, Temple, Texas, USA

Masaru Tezuka, Hitachi Solutions East Japan, Ltd., Japan

Woman in Industry and Academia (WIIA) Committee

Resh Plaha, Crystal Quality, UK

Dr. Chan Chee-Ming, Associate Professor and Deputy Dean (Academic and Research), Universiti Tun Hussein Onn Malaysia

Dr. Mey Goh, Loughborough University, UK

Dr. Ilham Kissani, Faulty of Engineering & Management Science, Al Akhawayn University, Ifrane, Morocco

Dr. Stefanie Pillai, Dean and Associate Professo, Faculty of Languages & Linguistics, University of Malaya, Kuala Lumpur, Malaysia

Dr. Funda Sivrikaya Şerifoğlu, Bilgi University, Istanbul, Turkey

Dr. Adibah Shuib, Head of Strategic Planning (Monitoring), Centre for Strategic Planning, Universiti Teknologi MARA (UiTM)

Dr. Vanajah Siva, Chalmers University, Sweden

Vanessa Victoire, University of Mauritius

Prof. Soumaya Yacout, École Polytechnique de Montréal, Canada

Technical Committee

Maram Al-Shammari, Department of Statistics and Operations Research, King Saud University, Riyadh, Saudi Arabia Peter M. Tase, IFEES – GEDC Secretariat

Dr. A.O. Adewumi, University of KwaZulu-Natal, South Africa Dr. Kondo H. Adjalah, Paul-Verlaine University, France Dr. Abdollah Aghae, K.N. Toosi University of Technology, Iran Dr. Abdul-Rahman Al-Ali, American University of Sharjah, UAE Gasim Al-Hawarii, Senior Fleet Management Engineer, Dubai Municipality, UAF

Ali I. Al-Mosawi, Miskolic University, Hungary

Dr. Basel Alsayyed, University of Alberta, Edmonton, Canada

Dr. Kuchkarov Atamurat, Uzbekistan National University, Uzbekistan

Dr. Faieza Abdul Aziz, Universiti Putra Malaysia, Selangor, Malaysia

Dr. Amir Azizi, Universiti Malaysia Pahang, Malaysia

Dr. Bandar A. Alkhayyal, Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, Kingdom of Saudi Arabia Amine Belhadi, Industrial Engineering Research Team, Higher School of Technology, Safi, Cadi Ayyad University, Marrakech, Morocco

Dr. Behnam Bahrami, Eastern Mediterranean University, Famagusta, Cyprus

Dr. D. K. Banwet, IIT-Delhi, India

Dr. Abdelaziz Berrado, The Ecole Mohammadia d'Ingénieurs, Rabat, Morocco

Dr. Mahdi Bashiri, Shahed University, Iran

Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia

Dr. Haider Ali Biswas, Khulna University, Bangladesh

Dr. Miguel Sanz Bobi, Comillas Pontifical University, Spain Dr. Nejib Chouaibi, Polytechnic School of Tunisia, Tunisia

Dr. Mohammad Ishak Desa, Universiti Teknologi Malaysia

Dr. Omar Elmabrouk, Benghazi University, Libya Dr. Dinusha Gamage, University of Moratuwa, Sri Lanka Dr. Rodrigo Garrido, Universidad Adolfo Ibaez, Chile

Dr. Vassilis Gerogiannis, Department of Project Management, Greece Dr. Jahara bint Ghani, UKM, Malaysia

Dr. Ravi Gor, St. Kabir Institute of Professional Studies, Ahmedabad, India Dr. Kannan Govindan, University of Southern Denmark, Denmark

Dr. Md. Mamun Habib, Universiti Utara Malaysia

Dr. Ramy Harik, University of South Carolina, USA

Dr. Maruf Hasan, University of New South Wales, Australia

Dr. Ahmed Kadhim Hussein, Babylon University, Iraq

Dr. Javad Khamisabadi, Islamic Azad University, Tehran, Iran

Dr. Raja Kothandaraman, Alpha College of Engineering, Chennai, India

Dr. Brigitte Jaumard, Concordia University, Canada

Dr. Rashmi Jha, Gitarattan International Business School (GIBS), Affiliated to

Guru Gobind Singh Indraprastha University, New Delhi, India

Dr. Shahrul B. Kamaruddin, Universiti Sains Malaysia

Dr. Francis Leung, City University of Hong Kong, China
Dr. Boudouda Malik, University of Champagne-Ardenne, France
Dr. Ilias Mamat, Quest International University Perak, Ipoh, Malaysia

Dr. Fulufhelo Masithulela, University of South Africa

Dr. Abderrahmane Mellak, University of Boumerdes, Algeria

Dr. Yuan Xue Ming, SIMTech: Singapore Institute of Manufacturing Technology, Singapore

Dr. Ruchi Mishra, Institute of Management, Nirma Univ., Ahmedabad, India

Dr. Vladimir Modrak, TUKE, Slovakia Dr. Norhamidi Muhamad, UKM, Malaysia

Dr. Michael Mutingi, University of Botswana, Botswana

Dr. Arun N. Nambiar, California State University - Fresno, USA

Dr. Cecilia Nembou, Divine Word University, Papua New Guinea

Dr. Sawat Pararach, Thammasat University, Thailand

Dr. Eui H. Park, North Carolina A&T State University, USA

Dr. Md. Mizanur Rahman, Universiti Malaysia Sabah (UMS), Kota Kinabalu,

Dr. T. Ramayah, School of Management, Universiti Sains Malaysia

Dr. Raja Zuraidah Raja Mohd Rasi, Universiti Tun Hussein Onn Malaysia

Dr. Bhuvenesh Rajamony, University Malaysia Perlis (UniMAP), Malaysia

Dr. Mohd Abdur Rashid, University Malaysia Perlis (UniMAP), Malaysia

Dr. Syed Asif Raza, Qatar University, Qatar

Dr. Nubia Milena Velasco Rodriguez, Universidad de Los Andes, Colombia

Dr. P. Sanjeevikumar, Dublin Institute of Technology, Ireland
Dr. Mahmood Shafiee, Cranfield University, Bedfordshire, United Kingdom
Dr. Ahm Shamsuzzoha, University of Vaasa, Finland

Dr. Abdussalam Shibani, Coventry University, UK
Dr. Sarbjit Singh, National Institute of Technology, Jalandhar, Punjab, India

Dr. Shahryar Sorooshian, University of Gothenburg, Sweden Dr. Jayakanth Srinivasan, MIT Sloan School of Management

Dr. Gopalan Srinivasan, University of New Brunswick, Canada Dr. Zuraidah Sulaiman, Universiti Teknologi Malaysia

Dr. Balan Sundarakani, University of Wollongong in Dubai, UAE

Laurent Tchommo, Operations Management, Department of CIS & BSAN,

College of Business, James Madison University, VA, USA

Dr. Murat Caner Testik, Hacettepe University, Ankara, Turkey

Dr. Theodore B. Trafalis, University of Oklahoma, USA

Dr. Vladimir I. Tsurkov, Russian Academy of Sciences, Moscow, Russia

Dr. Hui-Ming Wee, Chung Yuan Christian University, Taiwan Dr. Yong Yin, Yamagata University, Japan Dr. Norzaidahwati Zaidin, Universiti Teknologi Malaysia, Johor, Malaysia

Dr. Suhaiza Hanim Zailani, University Malaya, Malaysia

Dr. Linda L. Zhang, IESEG School of Management, Lille-Paris, France

Dr. Ali Mostafaeipour, Associate Professor, Industrial Engineering Department,

Yazd University, Yazd, Iran

IEOM Operations Team

Dr. Taufiq Islam - Operations Manager

Ahmad Mahir Faysal – Associate Operations Manager Professor Don Reimer – Director of Membership and Chapter Development

Dr. Mohammed Khadem – Program Director Dr. Hayder Zghair – Associate Program Director Ms. Rocksana Ahmed – Assistant Program Director

Nabid Salehin - Assistant Program Manager

Roshna Ahmed Shipa – Assistant Marketing Manager

Vishesh Mahendrabhai Joshi, MSIE Student, LTU

Sai Abhijith Medavarapu, MSIE Student, LTU Karthik Dhandapani, MSIE Student, LTU

29th IEOM Global Engineering Education DISTINGUISHED SPEAKERS

Tuesday (April 5, 2022)

Session I: Global Engineering Education

Session Chair:

8:00 - 9:45 am (Tuesday, April 5) - Virtual Room 1

8:00 - 8:20 am (Tuesday, April 5)



Dr Musa-Olokuta, Adekunle Ibrahim

B.Eng (EKSU); M.Eng, PhD (FUNAAB); MNSE, MNIpes, FNIMechE, COREN Regd, FMA, FIPMD, PMP Mechanical & Industrial Engineer

Specialised on Ergonomics, Human Factor Engineering, Musculoskeletal Disorder and Anthropometric Department of Mechanical Engineering

Olabisi Onabanjo University

PMB 2002 Ago Iwoye,

Ibogun Campus, Ogun State, Nigeria

Engr. Dr Adekunle Ibrahim MUSA a lecturer and the immediate past Head of the Department of Mechanical Engineering of the Moshood Abiola Polytechnic, Abeokuta, Nigeria. He obtained a B.Eng (Hons) degree in Mechanical Engineering from the Ekiti State University, Ado Ekiti, Nigeria (formally University of Ado-Ekiti and Ondo State University, Ado – Ekiti respectively) in 1997; M.Eng (Mechanical) and PhD (Industrial) degree at the Federal University of Agriculture, Abeokuta, Nigeria in 2011 and 2016 respectively. His research interests are in the areas of Ergonomics and Human Factors, Mechatronics, Safety and Environmental Engineering. He has published a

number of articles in reputable national and off – shore journals and attended conferences both locally and outside the shore of Nigeria. Engr.Dr Adekunle Musa is a member of notable professional bodies which includes Council for the Regulation of Engineering in Nigeria (COREN), International Association of Engineers (IAENG), Nigerian Society of Engineers (NSE) and Fellow of the Nigerian Institution of Mechanical Engineers (FNIMechE) respectively. He has eight years (8) of practical experience having worked as a Mechanical Engineer in the Works and Services Department of Federal University of Agriculture Abeokuta Nigeria (FUNAAB) and over eleven (11) years of teaching, research and administrative experience in Nigerian Polytechnic.

8:20 - 8:40 am (Tuesday, April 5)

8:40 - 9:00 am (Tuesday, April 5)



Dr. Okokpujie Imhade PrincessSenior Lecturer/Researcher

Mechanical and Mechatronics Engineering Department Afe Babalola University

Ado Ekiti State, Nigeria

Dr. Okokpujie Imhade Princess MNSE, MNIMechE is a senior lecturer/researcher in the Mechanical and Mechatronics Engineering Department, Afe Babalola University, Ado Ekiti State, Nigeria. She is the author of over one hundred and thirty (130) scholarly scientific papers, in which ninety-seven (97) are Scopus indexed. Dr. Okokpujie is the former Chief Editor of Covenant Journal of Engineering Technology (CJET). She is one of the toprated researchers in her institution. Dr. Okokpujie has won numerous awards for her intellectual sagacity, including Covenant University Chancellor's Exceptional Researcher of the year (won twice, 2018 and 2019 successively). Her research areas are Design and Production, Advanced Manufacturing such as Machining, Tool Wear, Vibration,

Nano-lubricant, Energy Systems, Mathematical Modeling, Optimization, Artificial Intelligent, Mechatronics, and Multi-disciplinary Research. Recently, she was awarded the Global Excellence Stature Fellowship Grant Industry 4.0 2021 for advanced research at the University of Johannesburg. Dr. Okokpujie is a registered Engineer with the Council for the Regulation of Engineering in Nigeria (COREN), a Corporate Member of the Nigeria Society of Engineers (MNSE), Chairman Ota chapter, and National Technical Secretary of the Association of Professional Women Engineers of Nigeria (APWEN) among other professional affiliations. Finally, Dr. I. P. Okokpujie, takes time out to play Badminton. She is happily married and blessed with beautiful children. She is very passionate about the Girl Child's Education, committed to women development initiative, and offers quality mentorship to Young Researchers and Engineers.

9:00 - 9:20 am (Tuesday, April 5)

Dr. Shamsuddin Ahmed

Professor Shamsuddin Ahmed PhD (UM), MEng (AIT), BSc Eng (BUET), PgDHRM, CEng(UK), FIEB(Life), MIET(UK), Department of Mechanical and Production Engineering Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC)

Former Assoc. Professor, University of Malaya (UM) Ranked QS59, Kuala Lumpur, Malaysia (1997-2015). Supervised one postdoc candidate, 13 PhD and 18 Masters. Currently, involved with several Universities at home and abroad and several journals in different capacities.

Competency-Based Human Resources Administration in Engineering Education under Global Demand

9:20 - 9:40 am (Tuesday, April 5)



Dr. Funso FaladeDepartment of Civil & Environmental Engineering
University of Lagos, Akoka, Lagos, Nigeria
and
President, African Engineering Education Association

Falade Funso Alphonsus is a Nigerian and a Professor of civil engineering at University of Lagos, Nigeria. He earned Diploma in Quantity Surveying at Yaba College of Technology, Nigeria, in 1978. He completed his M.Sc (Civil Engineering) at the Moscow Institute of Civil Engineering in the USSR in 1984 and obtained PhD in Civil Engineering, from University of Lagos in 1998. Prof. Falade has authored over 70 articles on innovative construction materials and engineering education published in locally and internationally reputable journals as well as in

proceedings of learned conferences. He has also made contributions to two (2) textbooks. In February, 2014, he made public presentation of a book titled 'Strengthening of Distressed Buildings'. He has researched into the structural properties of bamboo and developed the technology for its successful incorporation as replacement of steel reinforcement in some structural elements. He has also researched extensively on Foamed Aerated Concrete. Prof. Falade has presented over 45 papers at workshops and seminars on such topics as Project Management, Quality Control, Maintenance of Facilities, and Contract Procurement Processes etc. Prof. Falade is a member of some professional bodies both locally and internationally, including Fellow, The Nigerian Academy of Engineering, Fellow, Nigerian Society of Engineers, Fellow, African Engineering Education Association, Registered Engineers, Council for the Regulation of Engineering in Nigeria etc. He is a promoter of engineering education. He was the initiator of African Regional Conference on Engineering Education and the Chairman, Organizing Committee and the Editor of the Proceedings of the 1st, 2nd and 5th African Regional Conference on Engineering Education that were held at University of Lagos in 23rd – 25th September, 2002, 20th – 22nd September, 2004 and 9th -12th September, 2013 respectively. He is the President of the African Engineering Education Association (AEEA) and former Vice-President, international Federation of Engineering Education Societies (2009-20012). He was appointed UNESCO Consultant in 2005.

Session II: Global Engineering Education

10:00 am - 11:45 am (Tuesday, April 5) - Room 1

10:00 - 10:20 am (Tuesday, April 5)



Professor Christian Amaechi Bolu, FNSE, FAEng Dean College of Engineering Covenant University Ota, Nigeria

Towards Proactive Agenda for (Mechatronics) Engineering Education in Africa

Nsukka in 1976, M.Eng in Industrial Engineering from University of Toronto, Canada in 1979 and Ph.D in Industrial and Systems Engineering from University of Wales, Swansea, United Kingdom in 1982. Prof Bolu, a professor of Mechatronics Engineering, is a practicing engineer with engineering industry work experience spanning over 27 years. He ran several multi-national engineering companies in Nigeria, Ghana and Kenya at top technical and management levels. He was instrumental to setting up of the first CNC wire-cutting machine in Nigeria, in the late 1980s as well as the first automated powder coating plant in Nigeria. He was the developer of one of the early Enterprise Resource Planning solutions widely used in engineering manufacturing plants in Nigeria, Ghana and Kenya. Prof Bolu, a Fellow of the Nigerian Academy of Engineering, Fellow of both the Nigerian Society of Engineers and Nigerian Institution of Industrial Engineers was a one-time Chairman of the Nigerian Society of Engineers (Lagos Branch), National Technical Secretary of the Nigeria Society of Engineers and President of the Nigerian Institution of Industrial Engineers. He is an SAP Certified Solution Consultant. His present special interest area is in Mechatronics System Design for community development, Internet of Things (IoT) and Rapid Prototyping. He is presently the Dean, College of Engineering, Covenant University, Ota, Nigeria, after serving as pioneer Dean, Faculty of Engineering, Federal University Oye-Ekiti, Nigeria from 2012-2015.

10:20 - 10:40 am (Tuesday, April 5)



Engr. Prof. Adagbonyin Moses O. Obiazi
Dean, Faculty of Engineering and Technology
Ambrose Alli University, Nigeria
President, African Engineering Deans Council, AEDC

Engr. Prof. Adagbonyin Moses O. Obiazi was born at Agbor in Delta state. He attended the prestigious Ika Grammar School, Agbor from 1974 to 1979 obtaining the West African School Certificate with Distinction. He proceeded immediately to the University of Benin to study Electrical / Electronics Engineering, graduating in 1984 with 2nd Class Hons, Upper Division. He had his Masters Degree in Electrical Engineering from the University of Lagos in 1991 and capped it with a PhD in Electrical Power and Machines from Ambrose Alli University, Ekpoma, supervised by the renowned Engr. Prof. Philip Kuale.

Professor Christian Amaechi Bolu, graduated with B,Sc in Mechanical Engineering from University of Nigeria,

Prof. Obiazi started his working career in the Federal Polytechnic University, Auchi in 1985 after his NYSC in Sokoto State. In the quest for higher levels of engagement, Engr. Obiazi joined the services of then Bendel State University,

Ekpoma (now, Ambrose Alli University) in 1987 where he has risen through the ranks from Graduate Assistant to his current status as a Professor of Electrical Engineering and Dean of the Faculty of Engineering and Technology. He was the Head of Department of Electrical/Electronics Engineering [1997-1999], Sub-Dean of the Faculty of Engineering and Technology, Member of the University Senate and Member/Chairman of over 40 University committees/panels. He is currently serving as the Chairman of the Central Bank intervention Projects in Ambrose Alli University.

At the professional level, Engr Prof Obiazi was elected a corporate member of the Nigerian Society of Engineers [NSE] in 1993. As an active member of NSE, he was made Secretary, NSE, Ekpoma Branch from 1994-1997 and Chairman of the Branch for five years (1997-2002). During his Chairmanship, the branch won a national merit award as the Most Improved Branch in Nigeria. In 1999, he was made a life member of NSE. He has been a member of the National Executive Council of NSE from 1997 to 2002 and from 2012 to date. He has served in several committees of NSE at both national and local levels. NSE national committees such as Finance and General purpose Committee, Education and Training Committee, Awards and Endowment Committee, Conference Planning Committee, Codes and Standards Committee among others. As a registered Engineer with COREN (Council for the Regulation of Engineering in Nigeria), COREN in 2006 made him a member of Engineering Regulation and Monitoring (ERM) Committee. He has also served as a member of COREN accreditation team to some eight universities and two polytechnics. For eleven years (2001-2012), he was an External Examiner to the Petroleum Training Institute (PTI), Effurun, and since 2011, External Examiner to Delta State University, Abraka. In 1991, Engr. Obiazi was sponsored by UNESCO to Kumasi, Ghana to present a research paper at an International Engineering Conference, while in 2013, he was sponsorsed to the Conference of the Global Engineering Deans Council [GEDC] held in Chicago, USA. In 1994, the Delta State Government appointed him as a Member of the Delta State Public Utilities Board (PUB).

In May 2013, Engr. Prof OBIAZI was appointed the National Secretary of the Committee set up by COREN [Council for the Regulation of Engineering in Nigeria] to develop COREN Minimum Benchmarks for the training of Engineers in Nigerian Universities. In 2006, Shell Petroleum Development Company (SPDC) appointed Engr. Obiazi as a research advisor on sabbatical to help with the construction and installation work on the new Afam VI power station in Rivers State. In March, 2010, the Edo State Government appointed Engr. Prof. Obiazi as a member of the Governing council of Edo State Institute of Technology and Management, Usen (a polytechnic), a position he held till Sept, 2012.

Engr. Prof. Obiazi has received several awards from students, staff, religious and professional bodies and groups for outstanding contributions to engineering, education, national development and socio-cultural advancement. Engr. Prof. Obiazi is well published in both local and foreign journals and has presented papers in several local and international conferences.

In Sept, 2012 Eng. Prof .Obiazi was elected the Chairman, Committee of Deans of Engineering and Technology of Nigerian Universities.

10:40 - 11:00 am (Tuesday, April 5)



Nouçaiba Sbai
Industrial Engineer and PhD Candidate
Ecole Mohammadia d'Ingénieurs
Mohammed V University
Rabat, Morocco
MBA and BA Lecturer
SIST British Education
Morocco

Sbai Nouçaiba is a fifth-year Ph.D. Candidate in Engineering Sciences and Supply chain management at EMI School of Engineering at Mohamed V University in Rabat. She is a member of the Analyze, Modelling, and Integration of Processes and Systems (AMIPS) research team in EMI. Her doctoral main research investigates

multi-echelon inventory management with a special focus on sizing multi-echelon inventories in the pharmaceutical sector. Her research interests are in the areas of supply chain management, simulation in supply chain networks, and multi-criteria decision-making. She published several conference papers and participated in international conferences in Morocco as well as Europe. She holds an engineering degree in Industrial Engineering from the EMI School of Engineering at Mohamed V University in Rabat. She has been an MBA and BA Lecturer At SIST British Education in Morocco since 2018.

11:00 - 11:20 am (Tuesday, April 5)

Manali Kshirsagar

Principal

Rajiv Gandhi College of Engineering and Research, Wanadongri Nagpur, Maharashtra, India

11:20 - 11:40 am (Tuesday, April 5)

Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria Perspective



Engr Celestine Nnaemeka Achebe

Lecturer and Researcher in the field of Industrial Engineering and Operations Management Department of Mechanical Engineering University of Nigeria, Nsukka

Engr Celestine Nnaemeka Achebe is a lecturer and researcher in the field of Industrial Engineering and Operations Management, Department of Mechanical Engineering, University of Nigeria, Nsukka. He Obtained a bachelor's degree in Metallurgical and Materials Engineering at Nnamdi Azikiwe University, Awka Nigeria and master's degree in Mechanical Engineering, University of Nigeria, focusing on Industrial Engineering and Management. He is currently a doctoral degree Candidate. He is a COREN registered Engineer. Engr Achebe's areas of specialisation are Industrial Engineering and Operations Management, Metallurgy and Materials Engineering. Before embracing university teaching and research career, Engr Achebe worked several years as supervisor at FRSC License Vehicle Number Plate plant, Abuja, and later the Head, Delta State Plant for several years. He had published works in peer

reviewed local and international journals and conference proceedings. Research interests include but not restricted to operations research, operations management and materials technology. C.N. Achebe has interdisciplinary savvy.

Currently, he is the staff coordinator of University of Nigeria Nsukka-IEOM Students Society.



Engr Dr Paul Amaechi Ozor Head, Department of Mechanical Engineering University of Nigeria, Nsukka, Nigeria

Engr Dr Paul Amaechi Ozor is the West African Sub-Regional Coordinator of Industrial Engineering and Operations Management Society International. He holds a bachelor's degree in Mechanical/Production Engineering from the Enugu State University of Science and Technology as well as Masters and PhD in Industrial Engineering and Management from the University of Nigeria, Nsukka. Dr Ozor had been a Project Manager in a reputable Engineering company in Nigeria for many years. He had been a faculty member of University of Nigeria Nsukka since 2009, and has served the Department of Mechanical Engineering and Faculty of Engineering in various capacities prior to his appointment as the head of Department of Mechanical Engineering in August 2021. Dr Ozor is a Scholar of the Association of Commonwealth Universities (ACU), and a fellow of The World Academy of Science. He is a fellow of the global excellence stature (GES) of the University of Johannesburg. He is currently serving as a Senior Research Associate of the University. As a speaker and participant in international conferences, seminars and workshops, he has visited several countries on research grounds. Dr Ozor has published research articles in many peer reviewed local and international Journals and conference proceedings. He has supervised

significant local and international postgraduate students to successful study completion. He is an external examiner to University of the Witwatersrand, South Africa. He is a member of the Nigeria Society of Engineers (NSE) and registered with the Council for the Regulation of Engineering in Nigeria (COREN). His research interest is not limited to Asset Management, Quality, Operations Management, Reliability Engineering, Environmental Influence, Sustainable materials, lean six sigma, smart manufacturing.



Prof Nita Inderlal Sukdeo

Associate Professor and Head Department in the Department of Quality and Operations Management School of Mechanical and Industrial Engineering University of Johannesburg, South Africa

Prof Nita Inderlal Sukdeo is currently an Associate Professor and Head of Department in the Department of Quality and Operations Management within the School of Mechanical and Industrial Engineering at the University of Johannesburg, South Africa. She obtained a Masters in Quality from the Durban University of Technology and a PhD in Engineering Management from the University of Johannesburg. She is an active researcher in the field of total quality management and operations management. Her field of expertise also include advanced manufacturing

technologies, smart factory, Quality 4.0, quantitative analysis, quality management systems, quality auditing and risk assessment. She is a qualified Lead Auditor, proficient in ISO standards and certification. She is chairperson and director of the Society for Operations Management in Africa (SOMA), a non-executive director of the South African Society for Quality (SASQ). She is an active participant and session chair of the IEOM Women in Industry and Academia panel session Africa edition.

She is chairperson and director of the Society for Operations Management in Africa (SOMA), a non-executive director of the South African Society for Quality (SASQ). She is an active participant and session chair of the IEOM Women in Industry and Academia panel session Africa edition.

Session III: Global Engineering Education

3:00 – 4:45 pm (Tuesday, April 5) – Room 1 Session Chair: Dr Boitumelo Ramatsetse

3:00 - 3:20 pm (Tuesday, April 5)



Dr Boitumelo Ramatsetse

Lecturer & Researcher: Engineering Graphics and Design (EGD) Educational Information and Engineering Technology (EDIET) Wits School of Education University of the Witwatersrand Commissioner: Office of the Presidency

Republic of South Africa

Dr. Boitumelo Ramatsetse is currently a member of the National Planning Commission (NPC) in the Office of the Presidency (Republic of South Africa). In addition, he is a Lecturer & Researcher in the Educational Information & Engineering Technology (EDIET) division, School of Education, University of the Witwatersrand, as well as a Research & Innovation (RnI) Associate at the Faculty of Engineering & the Built Environment (FEBE), Tshwane University of Technology (TUT) in South Africa. He has over 10 years of teaching and research experience in Higher Education Institutions with vast knowledge in areas of engineering, design, risk analysis, problem solving, project management, manufacturing, innovation and leadership. He holds a Doctor of Engineering (D-Eng), Master of Technology (M-Tech) degree in Industrial Engineering, Bachelor of Technology (B-Tech), National Diploma in Mechanical Engineering from TUT as well as Certificate in Project Management from University of South Africa (UNISA). He is an associate member of Southern African Institute of Industrial Engineers (SAIIE), member of Southern African Institute of Mechanical Engineers (SAIMechE) as well as Industrial Engineering and Operations Management (IEOM). He has served at the National Research Foundation (NRF) funding committee for the year 2017 and he was also the member of the Local Organising Committee for the CIRP (The International Academy for Production Engineering) design conference 2020 held in South Africa. He is currently a Y-Rated NRF researcher with over 30 peer-reviewed scientific papers and 1 book chapter. To date, he has successfully filed 3 patents in South Africa and China.

He has been invited to present on innovation and advanced manufacturing initiatives in countries such as Tanzania (Dar es Salaam), Mozambique (Maputo), Germany (Ingenieurbüro Wolfgang Bauer-IWB), UK (London Imperial College), Mexico (Monterrey), China (Beihang, Tsinghua & Tongji University) were he established business and research collaborations. He has been actively involved in numerous interdisciplinary research projects in collaboration with research institutions, industries and government organizations. Through his efforts, he has attracted over R832 800 worth of seed-funding for technology development and commercialisation. He has received over 20 awards and recognitions for his efforts, which includes; Winner 2020/2021 NSTF-South32 TW-Kambule Emerging Researcher award, Finalist 2020/2021 NSTF-South32 Innovation Award: Corporate Organisation, 2021 Mail & Guardian 200 most influential Young South Africans, Semi-Finalist Accenture Rising Star Awards 2021, 3rd Place Winner GAP Innovation Competition 2020, The most efficient PhD candidate, Winner Intellectual Property Competition 2020, Finalist for the Standard Bank Rising Star Awards 2017, Best poster award IEOM conference 2018, Gibela Research Chair Contribution Award 2018, National Intellectual Property Management Office (NIPMO) Patent Award 2017, NRF Freestanding and Innovation Doctoral Fellowships 2016, Highest number of publications award 2016, Finalist Step-Up Technology Innovation Competition 2013, Winner Sasol Society of Automotive Engineers (SAE) Baja Competition 2011 etc. His research interests includes; innovation, maintenance engineering, life cycle management, reconfigurable manufacturing systems (RMS), production systems, machine design, ranging from theory to design implementation.

3:20 - 3:40 pm (Tuesday, April 5)

Shailesh Shirguppikar, Ph.D.

Head - Office of International Relations and Education Rajarambapu Institute of Technology Rajaramnagar, Maharashtra, India

3:40 - 4:00 pm (Tuesday, April 5)

Engineer Lovemore Gunda

DPhil Student, Department of Electrical Engineering. University of Zimbabwe Harare, Zimbabwe

Engineer Lovemore Gunda is a DPhil student at the University of Zimbabwe in the Department of Electrical Engineering. He is majoring in the development of renewable energy based power systems for rural electrification. He is also currently employed as a Lecturer at the National University of Science and Technology in Zimbabwe since 2016. He holds a Master of Engineering Degree in Electronic Engineering and a Bachelor of Engineering degree in the same field. The total number of publications produced by Engineer Gunda from 2010 to date is fourteen in journals and conference proceedings. His research areas include power electronics, electrical machine drives, electrical and electronic measurements, instrumentation and control, power systems simulation and modelling and renewable energy power systems. Engineer Gunda is a fully registered Professional Engineer registered under the Zimbabwe Institution of Engineers (ZIE).

4:00 - 4:20 pm (Tuesday, April 5)

Dr. Didibhuku Wellington Thwala

Professor University of South Africa (UNISA) Johannesburg, South Africa

4:20 - 4:40 pm (Tuesday, April 5)



Engr Prof. Edmund Chijioke Okoroigwe Chairman, Nigeria Society of Engineers Nsukka Branch

Title: University-Industry Linkages: The Gateway for Accelerating National Development in Africa

Edmund C. Okoroigwe holds Ph.D degree in Mechanical Engineering and is an Associate Professor of Mechanical Engineering, University of Nigeria. He was formerly the Acting Head, Department of Mechanical Engineering, University of Nigeria, for two years. His research is in applied renewable energy. He was formerly a Research Fellow at the National Centre for Energy Research and Development, University of Nigeria, Nsukka, Nigeria under the Energy Commission of Nigeria. He was a recipient of Fulbright Scholar award to Michigan State University,

East Lansing in 2009/2010. He is a recipient of NRF Postdoctoral Fellowship at University of Cape Town South Africa on ERAfrica Project 2014 – 2016. He is a registered engineer with the Council for the Regulation of Engineering in Nigeria (COREN), a member of the Nigerian Society of Engineers (NSE), member of the Solar Energy Society of Nigeria (SESN). He has authored many scholarly research papers published in impact fact journals across the world. He is currently the Chairman, Nigerian Society of Engineers, Nsukka Branch and the pioneer Coordinator, Nigerian Institution of Mechanical Engineers (NIMechE) Nsukka Chapter. He has visited China, USA, Tunisia, Benin Republic, Rwanda, and South Africa.

© IEOM Society International 3rd African Conference

21



Dr. Esther Matemba

Engineering Education Advisor- Lassonde Educational Innovation Studio (LEIS) Lassonde School of Engineering, York University, Canada Governing Board Member for Research in Engineering Education Network (REEN) – Africa representative

Sessional Academic, Curtin University, Western Australia

Redefining Global Engineering Education for Africa

Esther Matemba is an engineering lecturer and an active engineering education researcher. She is currently working as an Engineering Education Advisor for Lassonde Educational Innovation Studio (LEIS) at York University. Her previous Engineering Education research experience include a Research Assistant role at Curtin University

(2015), and a Research Associate role at the University of Western Australia (Feb 2019 – Aug 2019). Esther is a Governing Board Member of Research in Engineering Education Network (REEN) representing Africa region. She has a PhD in Engineering Education from the Department of Civil Engineering at Curtin University, Australia. Her PhD titled 'Globalisation of engineers: African Professional Engineering Education Perspective', focused on issues of developing curriculum for globalisation with a particular interest on Africa. Esther also holds a Masters of Science in Construction Management (2009), and a Bachelor of Science in Civil Engineering (2007) from the University of Dar es Salaam, Tanzania, where she also lectured for five years. She is a co-founder of a project called 'Collaboration and Method Sharing for engineering educators', founded in 2015, with the purpose of sharing student centred methods to engineering educators in Africa. Esther's research interests include curriculum for global engineers in the Global South, engineering competencies, international accreditation and African engineering education, and her work appears in different international conferences and journals.





Continuous Innovation

At Eaton, we are continually pursuing new ideas with our current and future technologies to help customers meet their goals. Our valvetrain solutions such as cylinder deactivation and hollow engine valves that are engineered to deliver efficient performance while withstanding the extreme heat requirements. Our supercharger technologies for advanced boosting provide the instant throttle response and improved fuel efficiency customers desire. We are constantly innovating differentiated technologies to provide advanced solutions for the industry and our customers.

© IEOM Society International 3rd African Conference

28th Industry Solutions - Distinguished Speakers

Wednesday, April 6, 2021

Session I: Industry Solutions

8:00 – 9:40 am (Wednesday, April 6) – Room 1 Session Chair: Dr. T. Mushiri, University of Zimbabwe

8:00 - 8:20 am (Wednesday, April 6)



Dr. T. Mushiri
Senior Lecturer, Department of Industrial and Mechatronics Engineering
Faculty Research Manager
Faculty of Engineering & the Built Environment (FEBE)
University of Zimbabwe
Mt Pleasant, Harare
ZIMBABWE

Tawanda Mushiri is a Faculty Research and Innovation Manager (FRIM) for Faculty of Engineering and the Built Environment (FEBE) and a Senior Lecturer in the Department of Industrial and Mechatronics Engineering under FEBE at the University of Zimbabwe. His research interests are in Artificial Intelligence, Robotics, Biomedical

Engineering and the Healthcare Systems Design. He is a Corporate Member of the Zimbabwe Institute of Engineers (ZIÉ) and the Engineering Council of Zimbabwe. Tawanda is in the process of finalizing his patent for Robotic First Aid in passenger vehicle, which will reduce deaths in the global society as a whole at scenes where accidents occur. His education is as follows: PhD (Doctor of Engineering), he did fuzzy logic system design for reducing machinery failure in industries and was obtained at the University of Johannesburg in 2017; Master's degree in Manufacturing Systems and Operations Management (MSc. MSOM), which he completed in 2012, and a BSc in Mechanical Engineering in 2008 all from the University of Zimbabwe. He is currently doing an MSc in Medical Physics at National University of Science and Technology in Zimbabwe (2019 – Sept 2022). For this masters he mastered Radiotherapy for Cancer Treatment, Nuclear Medicine, Radiation Protection and Safety, Medical Electronics and Instrumentation and Diagnostic Radiology. His main research is on Breast Cancer Treatment using Machine Learning. Robotic First Aid System.

Health emergencies occur in passenger cars where victims do not have immediate access to either layperson or professional, proper medical services, resulting in deterioration of their health or death. Installation of robotic first aid system for passenger-car occupants has been proposed. This study is part of a larger work of designing the system and seeks to identify the safest location inside the vehicle for it to survive any form of impact in a crash and retain the ability to assist the victims. The study population comprised 70 passenger cars (14 automakers across 7 segments) involved in road traffic accidents, which had been recovered by a roadside vehicle assistance company based in Harare, Zimbabwe. Vehicle damage was rated considering direction of force in comparison to a clock-point diagram, area damaged, and the damage severity on a scale of 1 to 7, following an official vehicle damage guide for traffic crash investigators. By eliminating all areas which had received damage in the study population, the robotic first aid system's best chances of car crash survival are at the middle, towards the floor of the vehicle. It is advisable that the system does not depend on components in the proximity of the vehicle's body as they are prone to damage in crashes. Hardware and software automotive infrastructure that the robotic first aid system can functionally use were designed. These resources are reviewed in categories of sensing, connectivity, data analysis and information exchange, which form the internet of things. Consequently, the system's design for internet of things mechanical requirements are identified in sensing. Finally, a preliminary framework for the system's internet of things infrastructure is established to facilitate the development of a smart robot. The robot has 6 links and 10 degrees of freedom.

8:20 - 8:40 am (Wednesday, April 6)



Dr. Stanley Chinedum NwojiBSc, MBA, MSc (Analytics), PhD
Professor of EBusiness and Entrepreneurship
Harrisburg University of Science and Technology
Harrisburg, PA, USA

Topic: Industry 4.0 Readiness for African Organizations and Universities

Dr. Stanley Chinedum Nwoji is a Professor of EBusiness and Entrepreneurship at the Harrisburg University of Science and Technology at Harrisburg, PA, United States of America. He is also a Visiting Professor at the Faculty of Business,

University of Nigeria, Enugu Campus. He has a Bachelor's degree in Biochemistry/Pharmacology, a Post-Graduate Diploma in Business, a Masters' degree in Business Administration (with specialization in Management Science); all from the University of Nigeria. He has a second Masters in Analytics from Harrisburg University of Science and Technology. He earned a Ph.D. in Intercultural Studies (Anthropology) with specialization in Leadership from Asbury Seminary, Kentucky, United States. He is the co-founder of the Smart Intelligent Systems, a research group in Harrisburg University of Science and Technology. Dr. Nwoji is pursuing a second Ph.D. in Data Science at Harrisburg University of Science and Technology. He has been teaching for the past 15 years in the United States of America; his students include MBA, MSc, and Ph.D. students. Among the many courses he teaches are Business Intelligence and Decision Support Systems, Entrepreneurship, Strategic Management, International Business, Leading and Managing Contemporary Organizations, Crisis Leadership, Management Science, Digital Marketing, and Capstone courses (Research and Graduate Thesis). As the founder of the Smart Intelligent Systems, his vision is to investigate complex problems afflicting governments, nations, healthcare systems, universities, and businesses using smart and Al systems, and offer sustainable and contextualizable solutions and models.

© IEOM Society International

23

3rd African Conference

8:40 - 9:00 am (Wednesday, April 6)

Engr. Nnoli Akpedeye FNSE 13th APWEN President

9:00 - 9:20 am (Wednesday, April 6)



Dr. Kanwalvir Singh DhindsaProfessor & Head, Department of CSE
Baba Banda Singh Bahadur Engg. College (BBSBEC)
Fatehgarh Sahib (Pincode-140407)
Punjab, India

Dr. Kanwalvir Singh Dhindsa is currently working as Professor & Head, Department of Computer Science & Engg. at Baba Banda Singh Bahadur Engg. College (BBSBEC), Fatehgarh Sahib (Punjab). He earned both his Ph.D degree (2014) in the field of Information Systems & Mobile Computing; and M.Tech degree (2003) from Punjabi University, Patiala (Punjab). He is also having additional charge@BBSBEC as: Officer Incharge- M.Tech (CSE), IKGPTU Regional Centre, Jalandar (Pb.), Coordinator, IIT-Bombay Spoken Tutorial Labs, Oracle Academy, FOSS Centre and Coordinator, IIT-Bombay Remote Centre.

His Ph.D Thesis has been awarded as the "Best Ph.D. Thesis Award" by Computer Society of India (CSI) at Roorkee, Uttarakhand in the year 2014. He has also received "Best Paper Award" at International Conference at Dubai in year 2012. Dr. Dhindsa has also been awarded "Green ThinkerZ - Outstanding Researcher Award" for his contribution in the field of Computer Science and Engineering at "IRSD-2016", NITTTR, Chandigarh (Dec. 2016). He has also worked as Coordinator of Enterprise Resource Planning (2016-2019) & college website@BBSBEC (2015-2019). He is the Member, Board of Studies (Computer Applications) of IKG Punjab Technical University, Jalandar. He has also been the Member, Board of Studies (Information Technology) of MRS Punjab Technical University, Bathinda. His experience includes Expert Member for CSE branch, Academic Committee, Faculty of Engg. & Technology at Punjabi University, Patiala & as Expert for various selection and promotion committees. He is an avid research and has been involved in the academics and research in the field of Computer science and Engineering & IT for the last more than 21 years. His Bibliography has been listed in the Asia Pacific (Vol. XVI) – Who's Who (Jan. 2018). He has already guided PhD Thesis of 6 PhD scholars & dissertations/thesis of 40+ M.Tech. (CSE) - PG students; and is also currently guiding 5 PhD scholars. He has been granted 3 International Patents & published 1 Indian Patent while 1 Indian Patent has been filed also.

He has been the NBA Programme Coordinator for BTech(CSE) Programme at Baba Banda Singh Bahadur Engg. College, Fatehgarh Sahib (Punjab) for which BTech(CSE) Programme got accredited from NBA for three years (2017-2020). As Head of CSE Department@BBSBEC, BTech(CSE) Programme got again accredited from NBA for year (2020-2021). His work experience also includes Incharge, Computer centre@BBSBEC. He has been also the Member-Coordinator for NAAC for preparation of faculty and staff regarding Criterion points for NAAC peer team-2021 visit, for which BBSBEC Institute got accredited from NAAC for five years (2021-2025).

His current research interests include Cloud Computing, IoT, Big Data, Web Engineering, Database & Security, & Mobile Computing.

9:20 - 9:40 am (Wednesday, April 6)

Session II: Industry 4.0

10:00 – 11:40 am (Wednesday, April 6) – Room 1 Session Chair: Dr. Sam Takavarasha Jr. Women's University in Africa

Session Co-Chair: Dr. Lemma Lessa, Assistant Professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia

10:00 - 10:20 am (Wednesday, April 6)



Dr. Lemma LessaAssistant Professor of Information Systems
School of Information Science
Addis Ababa University (AAU)
Ethiopia

Dr. Lemma Lessa is an assistant professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia. He received his doctorate in Information Technology (specialized in Information Systems) from Addis Ababa University. He has served over twenty years in the Ethiopian Higher education. His teaching interest is on the socio-technical aspects of Information Systems. His postgraduate teaching at AAU includes Information Systems Security Management, Information Systems Strategy & Management, Enterprise Systems, Information Systems Project Management, Research Methods for Information Science and Systems, Security Management, IT Governance, Enterprise Systems and e-Government. He is member of Association for Information Systems (AIS) and current president of the Ethiopian chapter of AIS. Dr. Lemma is serving as an associate editor

for the African Journal of Information Systems, reviewer for international conferences such as the International Conference on eDemocracy & e-Government, International Conference on Digital Transformations and Global Society, Hawaii International Conference on System Sciences, and International Conference on Electronic Governance and Open Society. He has attended different subject-oriented short-term trainings such as Usable security, Cyber security and its Domains, Fundamentals of Cyber Attacks, Cyber Attack Countermeasures, Real-time Cyber Threat Detection and Mitigation, Enterprise and Infrastructure Security, Digital Transformations and more.

10:20 - 10:40 am (Wednesday, April 6)



Dr. Mohammad IqbalProfessor
Department of Industrial and Production Engineering
Shahjalal University of Science and Technology
Sylhet, Bangladesh

Dr. Mohammad Iqbal is currently serving as a Professor at Shahjalal University of Science and Technology (SUST) under the Department of Industrial and Production. Professor Iqbal obtained his Bachelor of Technology (Mechanical) from Sri Venkateshwara University, College of Engineering, Tirupati, Andre Pradesh, India and M.Sc. Engineering from the department of Industrial and Production Engineering, BUET, Dhaka in 1989 and 1993 respectively. He received his Ph.D. from Dublin City University, Dublin, Republic of Ireland in 2000. Professor Iqbal served as a visiting research scholar at Mary O' Connor Process Safety Center, Texas A & M University, College Station, Texas, USA in the

Iqbal served as a visiting research scholar at Mary O' Connor Process Safety Center, Texas A & M University, College Station, Texas, USA in the year 2018. He is the founder lecturer of the Department of Industrial and Production, SUST. He served as the Head of the department for 13 years and Dean of School of Applied Science and Technology for two years. He was the Head of Petroleum and Mineral Engineering Department Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh for one year. He has 30 years of industrial, research and teaching experiences. Professor Iqbal's present research interest includes Virtual Reality, Ergonomics, Industrial safety and risk management, Supply chain management, Renewable energy and Production system analysis and Climate change and environment. He has more than 100 International publications in conference proceedings and peer review journals. He is a co-author of three engineering books namely Surveying, Engineering Materials and Industrial Health, Safety & Welfare. He is a life member of the Institution of Engineers, Bangladesh. He was the honorary secretary of the Institution of Engineers Bangladesh (IEB) Sylhet Centre, Sylhet, Bangladesh during 2018-2019. Dr. Iqbal was the Conference Chair of IEOM Society - Bangladesh Chapter from March 2018 – February 2020. Professor Iqbal conducted many training programs, seminars, workshops and symposiums at home and abroad. He has been involved in several research projects funded by the Ministry of Science and Technology, Bangladesh and SUST Research Center, Shahjalal University of Science and Technology, Sylhet, Bangladesh. Professor Iqbal received International Awards on research papers presented at different International Conferences home and abroad.

10:40 - 11:00 am (Wednesday, April 6)



Mr. Keshav Kaushik
Assistant Professor
School of Computer Science
University of Petroleum and Energy Studies
Dehradun, India

Mr. Keshav Kaushik is working as an Assistant Professor in the School of Computer Science at the University of Petroleum and Energy Studies, Dehradun, India. He is an experienced educator with over 7 years of teaching and research experience in Cybersecurity, Digital Forensics, the Internet of Things, and Blockchain Technology. Mr. Kaushik received his B.Tech degree in Computer Science and Engineering from the University Institute of

Engineering and Technology, Maharshi Dayanand University, Rohtak. In addition, M.Tech degree in Information Technology from YMCA University of Science and Technology, Faridabad, Haryana. He has published 20+ research papers in International Journals and has presented at reputed International Conferences. He is a Certified Ethical Hacker (CEH) v11, CQI and IRCA Certified ISO/IEC 27001:2013 Lead Auditor, and Quick Heal Academy certified Cyber Security Professional (QCSP). He acted as a keynote speaker and delivered 50+ professional talks on various national and international platforms. He has edited more than 8 books with reputed publishers.

11:00 - 11:20 am (Wednesday, April 6)



Dr. Sam Takavarasha Jr.Dean, Faculty of Management and Entrepreneurial Sciences Women's University of Africa

Zimbabwe

Dr Sam Takavarasha Jr is the Dean of the Faculty of Management and Entrepreneurial Sciences Women's University of Africa (Zimbabwe). Prior to that he was a research fellow at University of Fort Hare department of Information Systems. He acquired his BSc at the University of Portsmouth, UK and PhD in Information Systems at University of Zimbabwe where he led research consultancy projects and championed Zimbabwe's first e-learning

University of Zimbabwe where he led research consultancy projects and championed Zimbabwe's first e-learning virtual lecture project. Sam lectured Information Systems at the University of Portsmouth UK, University of Fort Hare and Women's University in Africa.

Sam has published several peer reviewed academic papers and a book with ICT4D. He conducted four national consultancy research projects, two of which he was the principal investigator. His research interests is built on an egalitarian approaches to Information Systems in Developing Countries, ICT4D. His teaching interest include IT Project Management, Human Computer Interaction, e-commerce and e-business.

Sam's editorial experience includes being special issue journal editor (International Journal of Information Systems (IJISPM) and Electronic Journal of Information Systems in Developing Countries (EJISDC), IEOM Journal and book project editor. He was track chair ECIS 2017(General track), ECIS 2018 (ICT4D track) and IEOM 2020 and 2022 (Cyber Security track). Sam serves as program committee member of international conference such as IFIP HCC13, IFIP HCC14 and ICTAS2018 to 2021 and ACIST 2021-2022, among other conferences.

11:20 - 11:40 am (Wednesday, April 6)

Session III: Industry Solutions and Industry 4.0

3:00 am – 4:40 pm (Wednesday, April 6) - Room 1 Session Chair: Saiful Siddique, Stellantis, Auburn Hills, USA

3:00 - 3:20 pm (Wednesday, April 6)



Prof. Ogechukwu Nkechinyelu Iloanusi, Ph.D. Head, Department of Electronics Engineering University of Nigeria Nsukka

Overcoming the Challenges of a Developing Country to Embracing the Fourth Industrial Revolution: A Case for Nigeria

Ogechukwu N. Iloanusi (Ph.D.) is a Full Professor at the Department of Electronic Engineering, Faculty of Engineering, University of Nigeria, Nsukka Campus. She joined the Faculty in October 2005. She holds a B.Eng and M.Eng in Electronic Engineering; Ph.D. in Digital Electronics from the Department of Electronic Engineering, University of Nigeria. Her research interests include biometrics, signal processing, pattern recognition, artificial intelligence, computer vision and machine / deep learning. She is a member of the Council for the Regulation of

Engineering in Nigeria (COREN), Institute of Electrical and Electronic Engineers (IEEE) and Women in Engineering (WIE). She is a Commonwealth Fellow.

Since 2006, She has completed supervision of 42 projects of least 120 undergraduate students and 23 postgraduate students. She currently supervises 9 Ph.D. and 2 Masters students. She is also the Director of research in the Biometrics Vision and Computing laboratory (BVCLab). She is currently the Head of Department of Electronic Engineering and is serving as the first female Head of Department. She is the first female Professor in the Faculty of Engineering, University of Nigeria since its inception in 1961. She also authored the book titled – Fundamentals of Biometrics (2016) with other two co-authors. She has over 50 journal and conference publications and has attended over 20 conferences and workshops internationally in countries in Africa, North America, Europe and the Middle East.

Prof. Ogechukwu Iloanusi was twice a Visiting Scholar at the Lane Department of Computer Science and Electrical Engineering, College of Engineering and Mineral Resources, West Virginia University where she carried out pre-doctoral research for a total of ten months from August 2009 to November 2009 and April 2010 to November 2010. She was also granted a Commonwealth Academic Fellowship Award by the Commonwealth Scholarship Commission in the UK where she was a Visiting Fellow at the University of Southampton, Highfield, Southampton, UK from September 2012 to December 2012. She also participated in a Teaching Fellowship for Nigerian University Professors at the Massachusetts Institute of Technology where she collaborated with the Faculty at MIT in the development of new curriculum and teaching methods that were adapted to her home university from September to December 2013. She has also served as an Assistant Guest Professor in a one-year contract with the University of Notre Dame du Lac, Notre Dame, IN, USA, from a period of August 2016 to August 2017.

3:20 - 3:40 pm (Wednesday, April 6)



Engr. Dr. Patrick U. Akpan

Senior Lecturer – Department of Mechanical Engineering, University of Nigeria Senior Lecturer – Dept. of Mechatronics Engineering, University of Nigeria Co-Founder/Partner – Comdalytics Nigeria Limited

A Natural Convective Passive Noise Control System for Mini-Generators

Patrick U. Akpan is a Senior Lecturer with the department of Mechanical Engineering & Mechatronics Engineering at the University of Nigeria. His expertise covers: design, modelling and thermal performance evaluation and simulation of conventional and renewable energy systems and power plants; energy system integration; energy audit; energy management and deployment; measurement and instrumentation; and refrigeration and air-

conditioning systems. He has a PhD in Mechanical Engineering (specializing in Power Plant Engineering) from the University of Cape Town, an MSc in Process Systems Engineering (specializing in Energy Systems and Thermal processes) from Cranfield University United Kingdom and a Bachelor's degree in Mechanical Engineering from the University of Nigeria. Dr Akpan's experience and interests have been fostered by fourteen years (2008-2022) of independent and collaborative research and development projects, academic project supervisions, and undergraduate teaching and mentoring at various organizations in Nigeria, South Africa, and the United Kingdom. The organizations are: University of Nigeria (UNN), University of Cape Town, Cranfield University, Bentley Motors in Crewe UK, Eskom Power Holdings in South Africa, and Comdalytics Nigeria Limited. Akpan has authored/co-authored twenty-six (26) scholarly publications. He also reviews papers for scientific and engineering Journals such as Energy Conversion and Management, Energy, NIJOTECH, and etc. He has gained proficiency in the use of different engineering softwares in his previous and current research projects. These include: Python, Ansys Fluent, MATLAB, Wanda Transient, Excel, System Advisor Model, Virtual Plant, EPANET etc. Akpan has received a number of awards namely: African Energy Indaba Top Innovator Award (2017); Eskom Energy Efficiency Doctoral Bursary Award (2016-2019); TWAS-NRF Doctoral Fellowship Award (2016-2018); NNPC/ESSO Exploration Foreign Post- Graduate Scholarship (2010-2011); Exxon Mobil Producing Nigeria Limited Undergraduate Scholarship (2002-2006). His previous and present membership of professional bodies include: African Renewable Energy Alliance (AREA), Council for the Regulation of Engineering in Nigeria (COREN), American Society of Mechanical Engineers (ASME), Energy Institute in UK and South African National Energy Association (SANEA).

3:40 - 4:00 pm (Wednesday, April 6)

26



Dr. Ahad Ali
Associate Professor
Director of Bachelor of Science in Industrial Engineering
Director, Master of Science in Industrial Engineering
Director of Smart Manufacturing and Lean Systems Research Group
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University
Southfield, Michigan, USA

Dr. Ahad Ali is an Associate Professor and Director of Bachelor of Science in Industrial Engineering and Master of Science in Industrial Engineering in the A. Leon Linton Department of Mechanical Engineering at the Lawrence Technological University, Michigan. Dr. Ali is the Director of Smart Manufacturing and Lean Systems Research Group. He earned B.S. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and Ph.D. in Industrial Engineering from University of Wisconsin-Milwaukee. Dr. Ali is the Executive Director of IEOM Society and Conference Chair of the Sixth International Conference on Industrial Engineering and operations Management, Kuala Lumpur 2016. He advised six doctorate students in Doctor of Engineering in Manufacturing Systems. Dr. Ali has published journal and conference papers. He was past President of IIE Lean Division. Dr Ali has done research projects with Chrysler, Ford, DTE Energy, Delphi Automotive System, GE Medical Systems, Harley-Davidson Motor Company, International Truck and Engine Corporation (ITEC), National/Panasonic Electronics, and Rockwell Automation. His research interests include quality, reliability, six sigma, manufacturing, simulation, optimization, scheduling, maintenance, e-manufacturing, lean, CAE and GD&T and. He is a member of ASEE, IEEE, IEOM, INFORMS, and SME.

4:00 - 4:20 pm (Wednesday, April 6)



Saiful Siddique
Engineering Supervisor
High Voltage Charging System
Stellantis
Auburn Hills, USA

EV Charging: Challenges and Opportunities - INTEROPERABILITY CHARGING ANALYSIS

Saiful Siddique is a product development professional with years of verifiable experience with US automotive OEM's. After graduating from the University of Michigan-Flint, he works for Ford Motor Company and General Motors as a new product development engineer. Currently, work for Stellantis (Former Fiat Chrysler Automobile)

as an engineering leader. Managing high volume manufacturing products including Power electronics, HV powertrain hardware/ software, mechanical, and electrical components. Also managed HV battery system components and interiors. He is a member of the UM-Flint Engineering Industrial Advisory Board (EIAB).

4:20 - 4:40 pm (Wednesday, April 6)

IEOM Global Business Management Education (GBME) 8th IEOM Global Supply Chain and Logistics DISTINGUISHED SPEAKERS

Thursday (April 7, 2022)

Global Supply Chain and Logistics - I

Session Chair: Ms. Sebonkile Thaba, University of Johannesburg, South Africa 8:00 – 9:40 am (Thursday, April 7) – Room 1

8:00 - 8:20 am (Thursday, April 7)



Dr. Thobile Yvonne BhilaProgramme Manager
School of Management
University of Johannesburg
South Africa

Dr Thobile Yvonne Bhila is a Programme Manager in the School of Management, leading a team of seventy-one lecturers and has over 13 years' experience in the higher education sector. She has been working as a Post-Doctoral Research Fellow at the University of Johannesburg in her previous employment. She was also previously employed as a University Lecturer in the private and public education institutions. She was awarded the NRF bursary in 2017 and the Faculty of Engineering and the Built Environment Bursary in 2018 – 2020 when she completed her PhD Degree, she was also awarded the Golden Key Honorary award, as she excelled in her Masters

and PhD degree both of which she completed in record time. Has reviewed conference papers in 2018 - 2020.

8:20 - 8:40 am (Thursday, April 7)

Dr. A. B. M. Abdul MalekProfessor
SUST
Sylhet, Bangladesh

Supply Chain disruption under Covid 19

8:40 - 9:00 am, Thursday, April 7



Ilkay Boduroglu, Ph.D. CEO + Director of R&D Riskoptima Istanbul, Turkey

Ilkay Boduroglu is the co-founder of Riskoptima, the home of the portfolio managing robot. Boduroglu's applied research interests include finding optimal hedge scenarios for SMEs under severe commodity price oscillations. Boduroglu received his PhD degree from Columbia University's IEOR Dept in 1997. He worked for a successful Silicon Valley startup, Demandtec at the beginning of the millennium and then moved to Bogazici University to become one of the co-founders of B.U. Financial Engineering Executive Program in 2002.

9:00 - 9:20 am, Thursday, April 7

Naill AlMomani Ph.D. P.E. CBCI TQC Professor and Consultant Dubai Police Academy Dubai, United Arab Emirates

9:20 - 9:40 am (Thursday, April 7)



Ms Sebonkile Thaba
Lecturer
Department of Transport and Supply Chain Management
University of Johannesburg
South Africa

Title: Social Economy Value Chain in Agro-processing Sector: The Case of Emerging Argo-processors and Small-Scale Farmers

She is currently a lecturer at the University of Johannesburg, holding Master of Technology Degree in Operations Management. Ms Thaba serves at the Department of Transport and Supply Chain Management, lecturing 3rd-year students on Purchasing and 4th-year students on Logistics Processes and Practices. Ms Thaba's research area are enterprise development, Sustainable Supply Chain Management and Cooperatives. She has so far published

one book-chapter and 25 peer-reviewed international conferences papers. She has 34 Google Scholar citations with three h-index, and 1 I10- Index. She is awarded Academic Doctorate Advancement Project towards Transformation (ADAPTT) Scholarship, which is the collaboration of University of Florida (USA) and South Africa Higher Education (SA-HE) Network (UJ). Sebonkile received three global prestige's awards from Industrial Engineering and Operations Management (IEOM)-International Society, Best Track Paper Award, Outstanding Service Award and Teaching & Learning Award in Supply Chain Management. She is a Track Chair for Waste Management and Supply Chain Management, Annual International Conference on Industrial Engineering and Operations Management. Sebonkile formed part of the diversity and Inclusion panelist from the 2nd African International Conference on Industrial Engineering and Operations Management in Harare Zimbabwe, December 2021.

Ms Thaba currently is working on two projects, on Enterprise Development, which is Sustainable Supply Chain Management on Agricultural Farming Industry and Social Value Chain Economy within Local Community Enterprises. She currently a PhD candidate at University of Johannesburg, with a proposed title: Deconstructing the Social in Sustainable Supply Chain Management for African Farmers.

Global Business Management and Education II

Session Chair: Vincent Onodugo, University of Nigeria, Enugu Campus 10:00 – 11:40 pm (Thursday, April 7) – Room 1

10:00 - 10:20 am (Thursday, April 7)



Mr. Lawrance Seseni Lecturer College of Business and Economics University of Johannesburg South Africa

Mr. Lawrance Seseni is a PhD Operations Management candidate in the Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, at the University of Johannesburg. He is a Lecturer in the Department of Business Management and at the Centre for Entrepreneurship in the College of Business and Economics at the University of Johannesburg. He is currently lecturing Entrepreneurship Studies to undergraduate students. He is also a co-supervisor for honours and master's students from the College of Business and Economics. He is a board secretary at IBASA YC (Institute of Business Advisors Southern Africa under the Youth Chapter); he is a Director at Translife; he is a Primary Faculty Advisor for Enactus University of Johannesburg; he is a Peer Mentorship Coordinator for first-year students from the Department of Business Management; he is one of the two staff members who formed the Business Clinic at the University of Johannesburg; he is the editor of the departmental newsletter (Department of Business Management, University of Johannesburg); he is a house

warden/house parent; and he is a lab manager for Digital Story Telling, a Common Good First project, which is an initiative by the European Union and Erasmus+. This project comprises universities from Iceland, Norway, Denmark, Scotland, Spain and South Africa as well as the global network, the Social Innovation Exchange. He formerly served as the Director of Human Resources and a founding member of Africa Cooperatives Institute of South Africa. He runs a business consulting company and he is also a wellness coach.

His Master's in Operations Management was on Quality Management on Furniture Manufacturing SMEs (Small Medium Enterprises). His interest in research is multidisciplinary. He focuses on knowledge management in SMMEs, service and product quality and the Fourth Industrial Revolution (Artificial Intelligence and Big Data) for SMEs. He published numerous articles at international conferences, which are indexed by Scopus. On numerous accounts, he served as a Session Chair at international conferences; he reviews conference papers to ensure the quality of work published by international conferences and he served as a Track Chair. With his research, he was classified as a distinguished speaker in one of the international conferences held at Bangkok, Thailand. Through academic work, he travelled several countries abroad, such as Detroit and Washington in the United States of America, and Rotherham, Bristol and Oxford in the United Kingdom. He visited Botswana and Zambia through the Africa-by-Bus project, which is an initiative by the University of Johannesburg.

Mr Lawrance Seseni is a Golden Key member, an international society that honours outstanding academic achievement. Lastly, he is currently establishing a travel and accommodation bursary scheme for learners in rural areas.

© IEOM Society International 12th Annual Conference

10:20 - 10:40 am (Thursday, April 7)



Dr. Bambang Hengky Rainanto, SPi, MM, CSM, CHRPHead of the Department of Tourism Institute of Business and Informatics of Kesatuan, Bogor – Indonesia

Green Marketing Mix as a mediator of environmental factors to create Sustainable Industry Performance in the Hotel Industry

Bambang Hengky Rainanto completed his studies at Brawijaya University, IPB University, and UTHM in 1993, 2003 and 2022. Since 2004 he has been a lecturer with a scientific focus on marketing management. In 2019 he was appointed Head of the Department of Tourism.

Apart from being a lecturer, Bambang Hengky Rainanto has been a part of several consultants since 1999. Some of the international institutions that have been clients include: The World Bank (WB), United States Agency for International Development (USAID), Japan International Cooperation Agency (JICA), Japan Bank for International Cooperation (JBIC), Overseas Economic Cooperation Fund (OECF), Islamic Development Bank (IDB), Central Government, Local Government, and Private Enterprises. The highest position during his time as a consultant was as Team Leader for the SPIRIT-Bappenas project which was funded by The World Bank.

Scientific activities at the International Seminar include: being Chairman of the 10th Indonesian Operation Research Association - International Conference in Global Optimization and Its

Applications (IORA - ICoGIA) -2021, Keynote speaker at Public Lecture organized by Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ) - 2021, Keynote speaker at International Career, International Education Service (IES) - 2021, Keynote speaker at Vocational Studies in the World (Asia & Europe) - 2020, Keynote speaker at Small Medium Enterprise - 2016, Keynote speaker at The Cross-border Joint Research Project on Marketing Transfer of Japanese Corporation to Asia at Hosei Business School, Hosei University, Tokyo, Japan -2014.

10:40 - 11:00 am (Thursday, April 7)

ID 53 Thinking online assessments to uphold quality and academic integrity-Lessons from Covid-19 Pandemic

Obianuju. E. Okeke-Uzodike, Faculty of Management Sciences, Department of Applied Management, Durban University of Technology, Riverside Campus, Pietermaritzburg, KwaZulu-Natal, South Africa

11:00 - 11:20 am (Thursday, April 7)

11:20 - 11:40 am (Thursday, April 7)



Prof. Vincent Onodugo, PhD, FCAI, FIIA, FNIM
Professor of Management
Dean, Faculty of Business Administration
University of Nigeria, Enugu Campus
Nigeria

Vincent Onodugo, is a Professor of Management and the currently the Dean, Faculty of Business Administration at the University of Nigeria, Enugu Campus. He is an alumnus of University of Port-Harcourt, University of Nigeria, Nsukka and Haggai Leadership Institute, Maui, Hawaii, USA. He is an organisation and human development consultant and researcher of over twenty years experience. inter alia, he teaches Research Methodology, Enterpreneurship and Small Business Management, Project Management and Diversity Management. He has over 65 peer reviewed publications in national and international journals. He is a peer reviewer in Cities and Heliyon (published by Elsevier) and Sage Open (published by Sage) journals among others. He is currently the Editor-in Chief of Nigerian Journal of Management Research (NJMR) and a member of the editorial team of Academy of

Strategic Management Journal (ASMJ). He has attended over 100 workshops and conferences and presented over 350 papers in the process. He has conducted research supervised by Institute of Development Studies, Geneva. He has consulted for the World Bank, UNIDO, PATHS, USAID MARKET, SPARC, DFID, USAID, UNICEF, EU, AFRODAD, GLOBIM, Central Bank of Nigeria (CBN) and National Planning Commission. He is an Associate Research Fellow of African Institute for Applied Economics (now Afriheritage Institution), Enugu and Institute of Development Studies of the University of Nigeria. He is also a fellow of Nigeria Institute of Management, Fellow of the Institute of Corporate Administration of Nigeria, Fellow of Institute of Industrial Administration and Member, Mandatory Continuous Professional Education Committee (MCPE) of ICAN. He holds a Master's and Doctorate degrees in the field of Management. He is a certified SAP and Debt Management Consultant. He is currently working on two key areas: Entrepreneurship Education and employment generation among the youths; and Exploration of the factors responsible for the high mortality of family-owned businesses in Nigeria.

Global Supply Chain and Logistics - II

Session Chair: Dr. Ratri Parida 2:30 – 4:00 pm (Thursday, April 7) – Room 1

30

2:30 - 2:50 pm (Thursday)



Dr. Ratri Parida
Associate Professor
IMT Ghaziabad, India
Visiting Research Fellow
Guildhall School of Business and Law (GSBL)
London Metropolitan University
London, UK

Topic: Supply Chain Finance: Insights and Research Opportunities

Dr. Ratri Parida is an Associate Professor in the area of Operations and Supply Chain Management at Institute of Management Technology (IMT) Ghaziabad and also a Visiting Research Fellow at Guildhall School of Business and Law, London Metropolitan University. She was one of the founding faculty members at Indian Institute of Management (IIM) Sambalpur. She was associated with premier institutes like International School of Business and Media (ISBM), Pune, National Institute of Construction Management and Research (NICMAR), Pune and Vellore Institute of Technology (VIT), Vellore. She completed PhD from the Department of Industrial and Systems Engineering, Indian Institute of Technology (IIT) Kharagpur. She has 10 years of experience in research and teaching. She acts as ad-hoc reviewer in many international journals and conferences. Her research interest focuses specifically on Operations Management, Industry 4.0, Sustainability, Lean and Six Sigma, Ergonomics and Healthcare Supply Chain. She has publications in peer reviewed international journals and international conferences in India and abroad.

2:50 - 3:10 pm (Thursday)

Abdul Sattar Safaei, PhD

Associate Professor, Sustainable Supply Chain, Founder of Infinite Booster Babol Noshirvani University of Technology Iran

3:10 - 3:30 pm (Thursday)



Hallen-by Guitemberg Lamarque

Assistant Professor, Infoworld University, Port-au-Prince, Haiti
Master in Agribusiness Management Student at Rome Business School
Hallen-by Guitemberg LAMARQUE, Engineer-Agronomist with specialization in Crop
Production. Master's student in Agribusiness Management and Assistant Professor.

Hallen-by G. Lamarque is a young agronomist who works in agriculture, environmental protection, teaching, and business in the agricultural sector in Haiti. In order to obtain his bachelor's degree in Agricultural Science at "Universite Americaine des Sciences Modernes d'Haiti" (UNASMOH) in 2016, Hallen-by undertook his end of studies project on the Sorghum sector at Thomazeau (Haiti). After obtaining his diploma, he started to work at Promotion for Development (PROMODEV – Haiti) as Agronomist and Youth Coordinator. While working at PROMODEV- Haiti, he also worked at some development project in soil conservation, environmental protection and agriculture in Haiti. Hallen-by has also participed in some interested training like Entrepreneurship, Sustainable development, Seed in agriculture and Climate change and many others. Since 2018, he is lecturer, Assistant professor and Professor in agriculture and agricultural Entrepreneurship at some universities in Port-au-Prince and

also have a little experience to work as Co-Consultant. Hallen-by is member of National Association of Haitian Agro-professionals (ANDAH). Currently, he is doing his Master degree online in Agribusiness management at Rome Business School (Italy) and would like to do his doctorate in Agro-economy in the next years.

3:30 - 3:50 pm (Thursday)



Dr. M S Uppin
Professor and Head
Department, Industrial & Production Engineering
P.D.A.College of Engineering, Kalaburagi
India

Global Supply Chain and Logistics Management

Dr. M S Uppin is currently the Professor and Head of Department, Industrial & Production Engineering, P.D.A.College of Engineering, Kalaburagi. Dr. Uppin has about 34 years of experience in teaching and research. He has guided (02) PhD scholars and (06) are working under him. Dr.Uppin has more than 30 publications in

journals and conferences. He has reviewed papers for IJPR and a regular reviewer for IEOM Conferences. As Head of Department he shows keen interest in the activities of IEOM student chapter. His areas of research include Supply Chain and Logistics Management, Industry 4.0, Business Communication, Mechatronics and Manufacturing.

© IEOM Society International

Panel Sessions

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair:



Professor Donald M. Reimer

Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant

with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker I



Yazeli Cruz Medallia Expert Services / Latinx@Medallia Lead Medallia Washington, DC, USA

Cruz is the current Latin America Medallia Expert Services Senior Analyst, where she coaches and supports subcontracting partners that roll up to over forty accounts and a hundred Medallia software users. She is also the Latinx@Medallia employee resource group lead (ERG). The Latinx@Medallia is an affinity group for employees of Latin American descent and allies. She obtained her bachelor's and master's in Industrial engineering from the University of Puerto Rico at Mayaguez (UPRM). She started her work in diversity and inclusion in 2009 as part of the Industrial and mechanical engineering student mentor association also in UPRM. In 2012, she joined the

Applied Optimization Group led by Prof. Mauricio Cabrera-Rios and Prof. Clara Isaza. She participated in research to unlock information about the origins of certain illnesses such as lung cancer and Alzheimer's Disease. Thanks to her work in the Applied Optimization Group, she published a paper in the Journal of Alzheimer's Disease titled: "A Selection of Important Genes and Their Correlated Behavior in Alzheimer's Disease." In addition, she was the only student chosen from Puerto Rico in 2013 to be part of INROADS. This non-profit organization creates pathways to careers for ethnically diverse high school and college students across the United States. She participated in co-ops in both Rockwell Aerospace and Amgen. She has won various awards, including INROADS 2014 Golf scholarship, DiscoverE's 2016 New Face of Engineering: College Edition, SACNAS 2016 travel award, and AAAS 2017 Joshua Neimark Travel award recipient. In 2017 she co-founded the grassroots organization called "Copa Solidaria", which aims to help underprivileged people who menstruate. After graduating with her master's in 2018, she became a Technical Analyst for Accenture Federal Services plus service as one of the co-leads of the community outreach committee of the Washington D.C. chapter of Accenture's Hispanic ERG. In 2020, she joined Medallia as a technical senior analyst and liaison between financial services accounts in Latin America. She also became the leader of the Latinx@Medallia ERG. Yazeli continues to service her community by mentoring the next generation of tech employees and supporting Latinx organizations throughout the Americas.

Panel Speaker II



Dr. Bhaskar BhandarkarDirector General
Institution for Innovation Industrial Engineering and Entrepreneurship India and Former Chairman Indian Institution of Industrial Engineering

Dr. Bhaskar Bhandarkar is Director General of Institution for Innovation & Industrial Engineering and Entrepreneurship. He received is BSc from Nagpur University, BTech from JNU New Delhi, MTech from Pune University, MBA (Operation & Marketing) and PhD: BIT, Mesra ,Gold Medalist from NCDC, GOI, Ministry of Home affairs. Dr. Bhandarkar has 37 years' experience in Operations/Refits/Quality Assurance/Manufacturing and Training; Consultant to NITIE Govt. of India, Ministry of Human Resource Development; Chairman, Indian Institution of Industrial Engineering for record eight years; Director General Indian Institution of industrial Engineering Mumbai, Managing Editor of Industrial Engineering Journal; Member of the Technical Committee Indian Register of Shipping. He served in many international committees including Board Member of Asia Pacific IE and Management Systems Society (APIEMS) , and Program Head: Indo US Science & Technology Forum (workshop). His research interests are servant leadership, safety management, quality management, futuristic SCM and logistic and lean six sigma.

He is a Fellow of Institution of Engineers (India)(FIE), Institution of Marine Engineers (FMarE), and Indian Institution of Industrial Engineering (FIIE).

Dr. Bhandarkar received various awards including Lilian-Gilbert Award, Ramaswami Award, Coal-India Productivity Award, Shiksha-Bharati Award, Best-Educationalist Award, Distinguished Engineer Awards, Distinguished IIIE Service Award. International recognitions include Production and Operation Management Society (POMS): Recognition on 08th May 2016 at Orlando USA Conference, IEOM at Rabata, Morocco Conference, Advisor IEM, MOST Govt of Taiwan. He served as an Associate Editor of International Journal of Production Research (IJPR) Taylor and Francis. Award Constituted in the Honor of Dr Bhandarkar include Dr. Bhandarkar Award for First Merit Student, VJTI, Mumbai University and Nagpur University and Cdr Bhandarkar Visionary Leadership Award (For CEOs with outstanding leadership and Visionary Institution Building.

Panel Speaker III



Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed. Professor, Industrial Engineering Department Engineering School University of Costa Rica San Jose, Costa Rica

Computer Society, USA.

Eldon Caldwell is full professor/Cathedraticus of the University of Costa Rica, Central America; member of the IEOM Society Academy of Fellows and member of the IEOM Society Global Council. Also, he has been recognized by the IEOM Society with the "Outstanding Service Award" for his career of over 30 years as an educator, researcher and promoter of development of industrial engineering and as "Distinguished Professor" by IEEE

Dr. Caldwell earned his B.Sc. and Master degree in Industrial Engineering at University of Costa Rica and he earned a Master degree in Service Marketing, as well in Financial Analysis at Interamerican University of Puerto Rico; M.Sc. Health Management Systems at UNED, Costa Rica and a M.Sc. Operations Management at ITESM, México. Finally, he earned three doctoral degrees: 1-Ph.D. in C.Sc. / Industrial Engineering, Autonomous University of Central America; 2- Ph.D. (Sc.D.) in Robotics and Automation, University of Alicante, Spain; and 3-Ph.D. (Dr. Ed.) in Education at the University of Costa Rica, developing the "Theory of Socio-educational Exergy-Anergy and Entropy".

He is author of many scientific articles and two books: "Marketing of Social Products & Services", UCR Publications; and "Lean Manufacturing: Fundamentals and techniques for cycle time reduction", Kaikaku Ins. Press, USA.

Dr. Caldwell served as Director of Industrial Engineering Department at Engineering School of University of Costa Rica, Operations Manager at MASECA, CA; Lean Manufacturing Project Manager at Eaton Corp. Costa Rica, General Manager at Quirós & Cía-Bandag Inc. and General Manager at Lean Systems Intl., USA. He has more than 30 years of experience as advisor and consultant in Operations Management, Lean Manufacturing and Lean Logistics at Interamerican Bank for Development, WHO, UN, World Wide Bank, Coca-Cola, Ministry of Health, Costa Rica, Honduras, Panamá, Costa Rican Institute for Electricity, RTC- Perú, Young Electrical Signs, Nevada, USA, AirCare Inc., Reno, Nevada, Plan International-Honduras, Bournes Co., DOLE Co. and many others. In addition, Dr. Caldwell currently serves as Director of the Central America Robotics and Industry 4.0 Challenge Contest (ROBOTIFEST) and General Manager at Kaikaku Institute Latin America.

Panel Speaker IV



Engr Dr Paul Amaechi Ozor Head, Department of Mechanical Engineering University of Nigeria, Nsukka, Nigeria

Engr Dr Paul Amaechi Ozor is the West African Sub-Regional Coordinator of Industrial Engineering and Operations Management Society International. He holds a bachelor's degree in Mechanical/Production Engineering from the Enugu State University of Science and Technology as well as Masters and PhD in Industrial Engineering and Management from the University of Nigeria, Nsukka. Dr Ozor had been a Project Manager in a reputable Engineering company in Nigeria for many years. He had been a faculty member of University of Nigeria Nsukka since 2009, and has served the Department of Mechanical Engineering and Faculty of Engineering in various capacities prior to his appointment as the head of Department of Mechanical Engineering in August 2021. Dr Ozor is a Scholar of the Association of Commonwealth Universities (ACU), and a fellow of The World Academy of Science. He is a fellow of the global excellence stature (GES) of the University of Johannesburg. He is currently serving as a Senior Research Associate of the University. As a speaker and participant in international conferences, seminars and workshops, he has visited several countries on research grounds. Dr Ozor has published research articles in many peer reviewed local and international Journals and conference proceedings. He has supervised

significant local and international postgraduate students to successful study completion. He is an external examiner to University of the Witwatersrand, South Africa. He is a member of the Nigeria Society of Engineers (NSE) and registered with the Council for the Regulation of Engineering in Nigeria (COREN). His research interest is not limited to Asset Management, Quality, Operations Management, Reliability Engineering, Environmental Influence, Sustainable materials, lean six sigma, smart manufacturing.

Submissions Received from Countries and Territories

10. Haiti 19. Nigeria 28. Thailand 1. Algeria 2. Bangladesh 11. India 20. Peru 29. Turkey 3. Cameroon 12. Indonesia 21. Philippines 30. UK 4. China 13. Iran 22. Rwanda 31. United Arab 5. Costa Rica 14. Jordan 23. Saudi Arabia **Emirates** 6. Egypt 15. Kenya 24. Sierra Leone 32. United States 16. Malaysia 25. South Africa 7. Ethiopia 33. Zimbabwe 17. Mexico 8. Germany 26. South Korea Ghana 18. Morocco 27. Spain 9.

Parallel Sessions

All Times are in Nigeria Time

Monday, April 4, 2022 (Online)

	Virtual Room 1	Virtual Room 2	Virtual Room 3
6:00 – 7:45 am	Undergraduate Paper Competition	Graduate Paper Competition	Human Factors and Ergonomics Competition
8:00 - 9:45 am	Undergraduate Paper Competition	Graduate Paper Competition	Lean Six Sigma Competition
10:00 - 11:45 am	Undergraduate Research Competition	Masters Thesis Competition	Simulation Competition
12:00 – 1:45 pm	Undergraduate Research Competition	Masters Thesis Competition	Supply Chain and Logistics Competition
2:00 - 3:45 pm	Senior Design Project Competition	Doctoral Dissertation Competition	Poster Competition
4:00 – 5:45 pm	Senior Design Project Competition	Doctoral Dissertation Competition	High School STEM Project Competition

Tuesday, April 5, 2022

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	
6:00	Healthcare Systems	Operations Research	Manufacturing and	Business Mngt	Service Systems	
			Product Development		and Management	
8:00	Global Engineering Education I	Humanitarian Supply Chain	Quality	Business Mngt	Operations	
		Management for COVID-19			Excellence	
10:00	Global Engineering Education II	Systems Engineering	Lean Six Sigma and	Case Studies	Engineering	
			Simulation		Management	
11:45	Welcome Address from Host: Prof. Charles Arizechukwu Igwe, Vice-Chancellor, University of Nigeria, Nsukka, Nigeria					
12:00	Keynote I (Opening Keynote): Prof. Abiodun H. Adebayo, Ph.D., Vice-Chancellor, Covenant University, Ota Nigeria					
12.30	Keynote II: Engr. Prof. Emeka Simon Obe, Dean, Faculty of Engineering, Professor of Electrical Engineering, University of Nigeria					
	Nsukka, Nigeria					
1:00	Keynote III: Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria					
1:30	Keynote IV: Engr Prof. Ojo S.I. Fayomi, Dean, College of Engineering, Bells University of Technology, Ota, Ogun State, Nigeria					
2:00	Keynote V: Dr. M. Joseph Ogundu, Ph.D., MBA, Chairman/CEO, Emerald Global Consulting Inc., Farmington Hills, Michigan, USA					
3:00	Global Engineering Education III	Environmental Engineering	Energy	Business Mngt	-	

Wednesday, April 6, 2022

			, , , , , , , , , , , , , , , , , , ,			
	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	
6:00	Innovation and Entrepreneurship	Operations Management	Case Studies	Business Mngt	Case Studies	
8:00	Industry Solutions I	SCM	Al	Business Mngt	Planning and Scheduling	
10:00	Industry Solutions II	Cybersecurity	Case Studies	Business Mngt	SCM and Sustainability	
12:00	Keynote VI: Engr Tasiu Saad Gidari-wudil FNSE, D., President, Nigeria Society of Engineers					
12.30	Keynote VII: Prof. Dr. Esther T. Akinlabi, Director Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan,					
	Nigeria					
1:00	Keynote VIII: Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD, Dean, School of Engineering, Department of Energy and Petroleum Engineering, University of Energy and Natural Resources, Sunyani, Ghana					
1:30	Keynote IX: Engr Prof. Emenike. C. Ejiogu, Director, Africa Centre of Excellence for Sustainable Power and Energy Development					
	University of Nigeria Nsukka					
2:00	Keynote X: Professor Charles Mbohwa, Ph.D., Pro-Vice Chancellor Strategic Partnerships and Industrialisation, Universit					
	Zimbabwe, Harare, Zimbabwe					
3:00	Industry Solutions III	SCM	Engineering	Construction	Project Management	
			Education	Management		

Thursday, April 7, 2022

	mursuay, April 7, 2022						
	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5		
6:00	Global Business Management Education I	E-Business / E-Service	Industry 4.0	Business Mngt	Case Studies		
8:00	Global Supply Chain and Logistics I	Data Analytics and OSH	IoT	Business Mngt	Decision Support System		
10:00	Global Business Management	Construction	Industry 4.0 in African	Case Studies	Waste Management and		
12:00	Education II Management Context Climate Keynote XI: Prof. Elizabeth S. Bosire Abenga, Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS), Yaounde Cameroon						
12.30	Keynote XII: Prof Keith Carter, Honorary Professor, University of Leicester, United Kingdom						
1:00	Keynote XIII: Engr. Dr İzuchukwu F. Okafor, Director, National Centre for Energy Research and Development, University of Nigeria Nsukka, Nigeria						
1:30	Keynote XIV: Engr Felicia Nnenna Aguabata, PhD. FNSE, ACIArb, Nigeria Airspace Management Agency, Murtala Muhammed International Airport, Ikeja, Lagos, Nigeria						
2:00	Keynote XV: Engr Dr. Mrs. Edith Y. Ishidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, Abuja Nigeria						
2:30	Global Supply Chain and Logistics II	Design and Planning	Technology Management and Engineering Economy	Case Studies	Diversity and Inclusion Panel sponsored by Ford Motor Company		
4:00	Conference Awards Ceremony						

April 4, 2022 (Monday) - Session: 6:00 - 7:45 am

6:00 - 7:45 am, MONDAY

Undergraduate Paper Competition

Virtual Room 1

Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

A Proposed Decision Matrix on Student Engagement for Engineering Online Learning using Factor Analysis and Analytical Hierarchy ProcessLou H. Palacio, Daniella B. Santos, Jeremy V. Santos and Marshal R. Tan Department of Industrial Engineering University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines,

Joehanna K. Ngo Department of Industrial Engineering University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines.

Gabriel C. Bucu Department of Industrial Engineering University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines

An E-Commerce Marketing Decision Matrix Tool using Consumer-Behavior Analysis during Pandemic

Jonas M. De Leon, Cliff Van Kristiene B. Laoang, Carl Rovick S. Martinez, Kristian, M. Mañibo, and Gabriel C. Bucu Department of Industrial Engineering University of Santo Tomas Manila, Philippines.

The Influence of Consumer Behavior on Consumer Purchase of Fashion Products (Case Study of Generation Z in Bali)

I Nengah Agus Pradytya, Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

The Effect of Service Quality and Brand Image on Repurchase Decision (Case Study International Students in Bandung, Indonesia)

Husny Gibreel Musa Saleh, Mahir Pradana, School of Communication and Business, Telkom University

6:00 - 7:45 am, MONDAY

Graduate Paper Competition

Virtual Room 2

Judging Committee Chair:

ID 184 Prototyping For an In-month Seed Forecasting System

Eric De Vera Reynoso, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines Grace Lorraine Intal

School of Information Technology, School of Industrial Engineering and Engineering Management

Mapua University Manila, Philippines

Proposed Utilities Billing Information Management System using Google Workspace Platform for a Property Management Services Company ID 188

Francis Lourdan M. Miña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

Grace Lorraine D. Intal, School of Industrial Engineering and Engineering Management, School of Information Technology, Mapúa University, Manila, Philippines.

Development of Internet of Things Model for Acoustic Maintenance of Boilers

S.N. Dhludhlu, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

The Secretary and the Ethics of Secretarial Practice

Muhammad Yahaya Musa & Kahirol Mohd Salleh, Faculty of Technical and Vocational Education University Tun Hussein Onn Malaysia

Capital Structure in Indonesian Banking Industry

Dewi Tamara, Executive Master Program, Binus Business School, University of Bina Nusantara, Jakarta Indonesia

Nadia Heraini and Dimas Ivaldi, Young Professional Master Program, Binus Business School, University of Bina Nusantara Jakarta Indonesia

6:00 - 7:45 am, MONDAY

Human Factors and Ergonomics Competition

Virtual Room 3

Judging Committee Chair:

The Relationship of Demographic Factors to the Mental Health of Security Guards and Janitors in the Healthcare ID 376

Rushtin S. Alberto, Danica D. Apolinar, Jessy Mariel B. Tomboc, and Assoc. Prof. Carlos Ignacio Jr. P. Lugay, Ph.D., PIE, ASEAN Eng, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines.

ID 140 Ergonomic Intervention Studies for Productivity Improvement in Small Scale Utensils Manufacturing Industry.

Veeresh, Student, Industrial & Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India. Qutubuddin S.M., Associate Professor, Industrial & Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India. Kajal, Aishwarya K., Sampati Bai, Students, Industrial & Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India

Inter-rater Reliability of Manual Anthropometric Measurement of Students of Tertiary Institution in North-West Nigeria.

Ademola James Adeyemi, Department of Mechanical Engineering, School of Industrial Engineering, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria, Department of Mechanical Engineering, Usmanu Danfodiyo University, Sokoto, Sokoto State Nigeria.

Olusegun Isa Lasisi, Muyideen Abdulkadir, Department of Mechanical Engineering, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria. Paul Ojile, Department of Architectural Technology, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria.

April 4, 2022 (Monday) - Session: 8:00 - 9:45 am

8:00 - 9:45 am, MONDAY

Undergraduate Paper Competition

Virtual Room 1

Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

Analysis of Perception and Acceptance on Telemedicine in a Third World Country: A Case Study in the Philippines

Ardvin Kester S. Ong, Yoshiki B. Kurata, Sophia Alessandra D.G. Castro, Jeanne Paulene B. De Leon, Hazel V. Dela Rosa, Alex Patricia J. Tomines, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Philippines. España Blvd, 1015, Manila, Philippines. Ardvin Kester S. Ong, Yoshiki B. Kurata, School of Industrial Engineering and Engineering Management Mapua University, Manila, Philippines 658 Muralla St., Intramuros, Manila 1002, Philippines.

Identification of ergonomic risks and postural analysis in small scale industries - a case study of rotary oil mills

Someshwari Agre, Student, Department of Industrial & Production Engineering, P.D.A.College of Engineering, Kalaburagi, India.

Qutubuddin S.M., Associate Professor, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India Smita Shabadi and Rudreshwar Hiremath, Students, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India

ID 231 The Influence of Social Media Marketing on Brand Loyalty Through Customer Engagement as Intervening Variable on Instagram Sociolla Accounts Maulidias Dewi Ferliansyah, Mahir Pradana, S.E., M.Sc.B.A, Ph.D, Prodi Administrasi Bisnis, Fakultas Komuniksi daniiBisnis, Universitas Telkom, Bandung.

ID 235 An Evaluation of the Perceived Usability of Traditional Cashiers and Kiosk Machines in Light Rail Transit (LRT) Stations in the Philippines.

Madeline Anne Patrice C. Sy, Frankern Luis S. Malabuyoc, Ma. Daniella M. Sobrevilla, and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

8:00 - 9:45 am, MONDAY

Graduate Student Paper Competition

Virtual Room 2

Judging Committee Chair:

8:00 - 9:45 am, MONDAY

Lean Six Sigma Competition

Virtual Room 3

Judging Committee Chair:

April 4, 2022 (Monday) - Session: 10:00 - 11:45 am

10:00 - 11:45 am, MONDAY

Undergraduate Research Competition

Virtual Room 1

Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 240 Promoting of Emotional Intelligence in Enhancing Employability Skills For 21st Century Among Nigerian Technical Education Graduates. Ibrahim Haruna Bako, Faculty of Technical and Vocational Education, University Tun Hussein Onn Malaysia.

Ts. Dr Yusmarti Binti Yusof, Faculty of Technical and Vocational Education, University Tun Hussein Onn Malaysia.

ID 247 A study on the assessment of a Proposed Website Application the Block using SWOT Analysis

Kenneth AJ G. Quilantang, Alphonsus Joseph Nicollo R. Magpantay Gabriel Angelo B. Dela Cruz, Grace Lorraine Intal, School of Information Technology, Mapúa University, Makati City, Philippines

ID 260 SSTQUAL Model Application: A Comparison of Self-Check-In Kiosks and Counter Check-In in Philippine Airports Integrating Analytical Hierarchy Process (AHP)

Maria Angelica D. Bare, Francee Mae F. Castro, Deceree Anne A. Haboy, and Rianina D. Borres, School of Industrial and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 373 Occupational accidents due to personal factors and work factors in road work projects in the city of Lima Peru

Juan Carlos Quiroz-Flores, Facultad de Ingeniería, Universidad Peruana de Ciencias Aplicadas, Lima, Perú

Juan Francisco Salazar-Tenorio, Dirección General de Estudios de Posgrado Facultad de Ingeniería Geológica, Minera, Metalúrgica y Geográfica, Universidad Nacional Mayor de San Marcos, Lima, Perú

ID 378 Application of Analytical Hierarchy Process (AHP) Method in the Comparison of Voice/Speech Recognition and Manual Typing

Lorenzo Caday, Jerome Liwanag, Wajid Mariño, and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 379 Comparative Analysis of Bank Teller Deposit Transaction vs. Automated Cash Deposit Machine When Depositing: An Application of Analytical Hierarchy Process (AHP) Method.

Krisanta Ána E. Draculan, Angelo Luis S. Doctora, William Davin D. Perez, and Abigail B. Vasquez, Department of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

Rianiña D. Borres, Department of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 399 Legal Analysis on Indonesia Food Import Policy Review through TPRM WTO to Prevent an International Trade Dispute.

Putu George Matthew Simbolon, Most Outstanding Student, Faculty of Law, Center for International Law and Human Rights, Universitas Kristen Indonesia, Jl Mayjen Sutoyo, Jakarta 13630, Indonesia

Hulman Panjaitan, Dean of Faculty of Law, Associate Proffesor, Faculty of Law, Universitas Kristen Indonesia, Indonesia

Edward ML Panjaitan, Lecturer, Faculty of Law, Center for International Law and Human Rights Universitas Kristen Indonesia, Indonesia

Wilson Rajagukguk, Lecturer, Vice Chancelor for Academics, Faculty of Economics and Business Universitas Kristen Indonesia, Indonesia

10:00 - 11:45 am, MONDAY

Masters Thesis Competition

Virtual Room 2

Judging Committee Chair:

ID 124 Urban Resilience and Sustainability Through Regenerative Urban Agriculture

Dr Jackson Sebola-Samanyanga, Lecturer, Department of Town and Regional Planning, University of Johannesburg, Johannesburg, South Africa Miss Segakweng Khutlapye, Masters Candidate, Department of Town and Regional Planning, University of Johannesburg, Johannesburg, South Africa

ID 165 Community Perceptions on Public Spaces: A Case of Lilian Ngoyi Square and Street in the City of Tshwane

Nonhlanhla Khumalo, Candidate Planner, Department of Urban and Regional Planning, University of Johannesburg, Johannesburg, South Africa Ockert Pretorius, Lecturer, Department of Urban and Regional Planning, University of Johannesburg, Johannesburg, South Africa Trynos Gumbo, Professor, Ph.D., Head, Department of Urban and Regional Planning, University of Johannesburg, Johannesburg, South Africa

ID 181 Waste Minimization Through Sustainable Manufacturing

Anelisa Kanyisa Nokele, Masters Student, University of Johannesburg, Johannesburg, South Africa

Jackson Sebola-Samanyanga, Lecturer- Department of urban and regional planning, University of Johannesburg, Johannesburg, South Africa

ID 362 Analysis of OEE improvements in Blow Molding Machines in the Plastic Packaging Manufacturing Industry using Six Big Losses and FMEA methods

Nanang Sunandar Hadisaputra, Universitas Mercu Buana, Jakarta, Indonesia

Sawarni Hasibuan, Corresponding author, Universitas Mercu Buana, Jakarta, Indonesia

ID 464 Increasing Production Yield With a Visual Stream Mapping (VSM) in the Plastic Material Recycling Industry

Ade Sophian, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta State Indonesia Hasbullah Hasbullah, Lecturer at the Faculty of Industrial Engineering, University Mercu Buana, Jakarta Indonesia

Ibnu Shaleh, Master of Industrial Engineering Student, Mercu Buana University, Jakarta, Indonesia

ID 491 Valuation of Mining Low Coal Calories Using Real Option Analysis

Dewi Tamara, Executive Master Program, Binus Business School, University of Bina Nusantara, Jakarta Indonesia Sri Parwati and Yuani Yuani, Blended Learning Master Program, Binus Business School, University of Bina Nusantara, Jakarta Indonesia

ID 195 Leadership Factors Influencing Successful Project Delivery: The case of a South African civil engineering company

Lesetja Justice Boshomane, School of Business Leadership, University of South Africa

Dr. Sugandren Naidoo (PhD), Department of Operations Management, College of Economic and Management Sciences, University of South Africa

10:00 - 11:45 am, MONDAY

Simulation Competition

Virtual Room 3

Judging Committee Chair:

ID 24 System Dynamics Modeling and Simulation for Reduction of Scrap and Rework in an Automotive Manufacturing Company

Shelly Mona, Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa

ID 366 System-Based Optimization of Pumping Capacity of Centrifugal Pumps

A Stulumani, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa A Mpoko, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

O Khumalo, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

M. E. Matlakala, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 367 FEA of the Fire Fighting High-Pressure Centrifugal Pump via the Naiver-Stokes Equations

T. Zwane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

P. Zikalala, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa M. E. Matlakala, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

M. E. Matlakala, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

April 4, 2022 (Monday) - Session: 12:00 - 1:45 pm

12:00 - 1:45 pm, MONDAY

Undergraduate Research Competition

Virtual Room 1

Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 42 Comparative Analysis and Evaluation between Traditional and Online Learning in Engineering Education, Focused on Introduction to Engineering. Mary S. Dedel, Daryl N. Magdurulan, Kristian Q. Malaluan and Bea M. Santos, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc. Manila. 1008. Philippines

Asst. Prof. Charmina Lou C. Bautista, MES, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 148 Low-cost Dietary Plan for COVID-19 Immunity Response Using Mixed-Integer Linear Programming

Allia Coleen S. De Leon, Camille T. Ninobla, Naomi Joyce S. Sibal, Krizia Mile Joy B. Yu, and Engr. Gabriel C. Bucu, CIE, AAE Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

ID 174 Predicting Factors influencing Management Leadership among Filipinos in the Service Industry through Multiple Regression Analysis

Yoshiki B. Kurata, Christienne Joie C. Andrada, Mariela Nicole S. Manalo, Errol John Aldrie U. Sunga, Alvin Racks Martin A. Uy, Ardvin Kester S. Ong, Department of Industrial Engineering, University of Santo Tomas, España Blvd, 1015, Manila, Philippines

ID 208 Application of Facility Location-Allocation Model for Tuberculosis Sputum Referral System

Akinfenwa Daniel Akinsola, Industrial and Production Engineering Department, University of Ibadan, Oyo State, Nigeria

ID 234 Improving Service Quality of a Bank in Laguna, Philippines Using Queuing Theory, Simulation, and Analytical Hierarchy Process (AHP). Madeline Anne Patrice C. Sy, Frankern Luis S. Malabuyoc, Ma. Daniella M. Sobrevilla, and Rianina D. Borres, School of Industrial Engineering and Engineering

Management, Mapúa University, Intramuros, Manila, Philippines

12:00 - 1:45 pm, MONDAY

Masters Thesis Competition

Virtual Room 2

Judging Committee Chair:

12:00 – 1:45 pm, MONDAY

Supply Chain and Logistics Competition

Virtual Room 3

Judging Committee Chair:

ID 443 The digital twin model of vehicle containers to provide an ergonomic handling mechanism

Ahmed M. Abed, Associate prof. at Industrial Engineering Department, Zagazig University, Egypt

Samia Elattar, Associate prof. at Department of Industrial & Systems Engineering, College of Engineering, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia

Tamer S. Gaafar, Assistant prof. at Computer and Systems Department, Zagazig University, Egypt

D 494 Covid-19 Pandemic and Identity Negotiation (Phenomenological Study about Mapur's Social Resilience in Bangka – Indonesia)

Iskandar Zulkarnain, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia Panggio Restu Wilujeng, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia Michael Jeffri Sinabutar, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia Laila Hayati, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia

ID 455 Communication Experience of the Neighborhood Chief in Covid 19 Handling in Kelurahan Pangkalan Mansyur Medan

Nadra Ideyani Vita, Nina Siti Salmaniah Siregar and Agnita Yolanda, Communication Science Department, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia

Feni Agus Bintang and Ridwan Nasution, Communication Science Department, Faculty of Political and Social Sciences, Universitas Islam Sumatera Utara, North Sumatera. Indonesia

Indrayanti, Communication Science Department, Faculty of Political and Social Sciences, Universitas Hassanudin, Makasar, Indonesia

Waridah, Covernance Science Department, Faculty of Political and Social Sciences, \Universitas Medan Area, Medan, North Sumatera, Indonesia

April 4, 2022 (Monday) - Session: 2:00 - 3:45 pm

2:00 - 3:45 pm, MONDAY

Senior Design Competition

Virtual Room 1

Judging Committee Chair:

2:00 - 3:45 pm, MONDAY

Ph.D. Dissertation Competition

Virtual Room 2

Judging Committee Chair:

ID 349 Evaluation of Elements Affecting the Effectiveness of Maintenance Policies Following the ASME Code and Delay Time Model

Christian Ighohor Okonta and Professor Raphael Olumese Edokpia, Ph.D., Department of Industrial and Production Engineering, University of Benin, Edo State, Nigeria

ID 364 Inherent Factors Affecting the Effectiveness of Maintenance Using Root Cause Analysis. A Case Study

Christian Ighohor Okonta and Professor Raphael Olumese Edokpia, Ph.D., Department of Industrial and Production Engineering, University of Benin, Edo State, Nigeria

ID 414 Identification of Ergonomic Risk Factors and Postural Analysis in Electrical Transformer Manufacturing Industry in Karnataka Vidyadhar G. Biradar, Research Scholar, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India Qutubuddin S.M., Associate Professor, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India Hebbal S.S., Principal, P.D.A. College of Engineering Kalaburagi, Karnataka, India.

ID 415 Emperical survey of post-harvest operations constraining Bambara nut utilization

Ikechukwu IJEOMA.F. Department of Mechanical Engineering, Michael Okpara University of Agriculture, Umudike, Abia state Nigeria

2:00 - 3:45 pm, MONDAY

Poster Competition

Virtual Room 3

Judging Committee Chair:

ID 363 Implementation of Risk Control Hazards Identification using PDCA Method to Reduce Potential Work Accidents at Tissue Company Ekalia Yanasari Putri, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia Sawarni Hasibuan, Industrial Engineering Department, Universitas Mercu Buana, Jakarta, Indonesia

April 4, 2022 (Monday) - Session: 4:00 - 5:45 pm

4:00 - 5:45 pm, MONDAY

Senior Design Project Competition

Virtual Room 1

Judging Committee Chair:

4:00 - 5:45 pm, MONDAY

Ph.D. Dissertation Competition

Virtual Room 2

Judging Committee Chair:

4:00 - 5:45 pm, MONDAY

High School STEM Project Competition

Virtual Room 3

Judging Committee Chair:

ID 394 Artificial Intelligence and Blockchain Technology Method to Design Electric Vehicle Charging Systems

Jung Sein, Shin Dong Ho, Ph.D., PAUL MATH SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

ID 508 Renewable Energy Evaluation

Anas Ali, Michigan Islamic Academy, Ann Arbor, Michigan, USA

April 5, 2022 (Tuesday)

April 5, 2022 (Tuesday) - Session: 6:00 - 7:45 am

6:00 - 7:45 am, TUESDAY

Healthcare Systems

Virtual Room 1

Session Chair: Omas Bulan Samosir, Faculty of Economics and Business, Universitas Indonesia

D 35 Challenges of Implementing Telemedicine in South African Public Healthcare: Gauteng Case Study

Mayver Ramogayane, Department of Industrial Engineering, University of Johannesburg, Johannesburg, South Africa

Muzi Masilela, Founder, Muluma Engineering Management Consulting, University of Pretoria, Pretoria, South Africa

Dr RE Ngwenya, Consultant Specialist Surgeon & Plastics and Reconstructive Surgeon, Senior lecture, University of Pretoria, Pretoria, South Africa

ID 069 Toward the Achievement of Goal 2 of SDGs: Are Indonesian Children Well Fed? The Impacts of Mother's Internet Usage and Financial Empowerment on the Infant and Young Child Feeding Practice.

Omas Bulan Samosir, Dinda Srikandi Radjiman, Flora Aninditya, Researcher, Lembaga Demografi Faculty of Economics and Business, Universitas Indonesia.

ID 082 The Role of Quality Family Planning Services in Contraceptive Switching to Long-Acting and Permanent Methods (LAPM)

Anisa R Rahmawati and Omas B Samosir, Faculty of Economics and Business, Universitas Indonesia, Depok, 16424, Indonesia.

ID 084 Health and socioeconomic development and morbidity: A district case in Indonesia

Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia. John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

ID 096 The impact and response to the three waves of COVID-19 infections on healthcare service delivery in South Africa

Ngaka Mosia, University of South Africa (Unisa), Johannesburg, South Africa

ID 258 Telehealth and Telemedicine – An Overview

Omolayo M. Ikumapayi, Sunday A. Afolalu, Joseph F. Kayode, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria. Emeka S. Nnochiri, Kayode O. Olowe, Department of Civil Engineering, Afe Babalola University, Ado Ekiti, Nigeria.

Ojo P. Bodunde, Department of Mechanical and Automation Engineering, Chinese University of Hong Kong, Shatin, NT, People's Republic of China.

ID 308 Health Facilities and Competence on Service Quality through the Performance of Health Workers in the Regional General Hospital of Central Mamuju Regency

Radia, Rasjidin Abdullah, Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 320 Analysis of the Effect of Health Promotion and Personal Hygiene on Covid 19 through Physical Distancing in Central Mamuju Regency

Patunrengi, Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

Rasjidin Abdullah, Universitas Muslim Indonesia, Makassar, Indonesia

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

Muhammad Aswan Zanynu, Department of Communication and Journalism, Halo Oleo University, Indonesia

M. Najib Husain, Department of Communication Science, Halo Oleo University, Indonesia.

Sirajuddin, Department of Journalism, Halo Oleo University, Indonesia

ID 426 Toward the Achievement of Goal 2 of SDGs: Are Indonesian Children Well Fed? The Impacts of Mother's Internet Usage and Financial Empowerment on the Infant and Young Child Feeding Practice.

Omas Bulan Samosir, Dinda Srikandi Radjiman, Flora Aninditya, Researcher, Lembaga Demografi Faculty of Economics and Business ,Universitas Indonesia.

6:00 - 7:45 am, TUESDAY

Operations Research

Virtual Room 2

Session Chair: Vanessa Joyce Encarnacion, University of Santo Tomas, Manila, Philippines

ID 51 A Research Study on the Integration of Linear Programming (LP) from the Overall Equipment Effectiveness (OEE) Machine Performance Evaluation to Maximize Uptime for the Labeling Department of B-Mirk Enterprises

Paul Amaechi Ozor, Head, Department of Mechanical Engineering, University of Nigeria Nsukka, Enugu State Nigeria Professor Charles Mbohwa, Ph.D., Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe

ID 74 Corrective Infrastructure Maintenance Scheduling at Railway Stations: Disruption and Resolution

Aliyu Mani Umar, Abdulhakeem Suleiman, Ashiru Mohammed, Adamu Ado Sabari, Department of Civil Engineering, Ahmadu Bello University, Zaria 810107, Nigeria Yasir Adam Nabage, Department of Civil Engineering Technology, Federal Polytechnic Bauchi, 740102, Nigeria

ID 151 Determining Weights of Criteria for Equipment Supplier Selection Process Utilizing Analytic Hierarchy Process

Marilou Agapay-Bigcas, Department of Industrial Engineering, MSEM, Intramuros Manila, Philippines

ID 152 Determining Weights of Criteria for Equipment Supplier Selection Process Utilizing Analytic Hierarchy Process

Marilou Agapay-Bigcas, Department of Industrial Engineering, MSEM, Intramuros Manila, Philippines

ID 176 A Research Study on the Integration of Linear Programming (LP) from the Overall Equipment Effectiveness (OEE) Machine Performance Evaluation to Maximize Uptime for the Labeling Department of B-Mirk Enterprises

Vanessa Joyce Encarnacion, Daphne Mae Muyargas, Von Jacob Rivera, Cryzxia Bhene Yulo, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

ID 214 Development of Flow Shop Scheduling Method to Minimize Makespan Based on Nawaz Enscore Ham (NEH) & Campbell Dudek and Smith (CDS) Method

Latief Anggar Kurniawan, Farizal, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 370 A Mixed-Integer Robust Programming Model for Reverse Logistics Network Design of Plastic Waste Management in Indonesia

Syifa Nurkamila and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java, Indonesia

6:00 - 7:45 am, TUESDAY

Manufacturing and Product Development

Virtual Room 3

Session Chair: Ayuba, Department of Materials and Metallurgical Engineering, Nigerian Army University Biu, Borno State, Nigeria

ID 4 Performance Evaluation of Smart Refractory Furnace Developed for Home and Industrial Applications.

Henry Benjamin, Adedotun Adetunla and Bernard Adaramola, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado Ekiti, Nigeria

D 18 Supply Preparation of Line Production Through Capacity Using Simulation Model in Garment Industry

Bagus Trilaksono, Industrial Engineering, Sebelas Maret University, Surakarta, Indonesia.

Pringgo Widyo Laksono, Industrial Engineering, Sebelas Maret University, Surakarta, Indonesia.

ID 238 Explicit Microstructural and Properties of Polyvinyl Alcohol/Eggshell Particles as Biodegradable Composites for Packaging Industries

P.A. Ozor, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria.

V.S. Aigbodion, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

Africa Centre of Excellence, ACE-SPED University of Nigeria Nsukka Nigeria.

Department of Metallurgical and Materials Engineering, University of Nigeria, Nsukka, Nigeria.

N.I. Sukdeo, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

ID 120 The Evaluation of Technology Implementation to Support Product Development Agility in FMCG Company in Indonesia

Bagas Muhamad Kartiko, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia. Novandra Rhezza Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia.

ID 239 New insights in decoration of Carbon Nanotube for improved electrical conductivity and Thermomechanical properties of polymer nanocomposites

V.S. Aigbodion, Africa Centre of Excellence, ACE-SPED University of Nigeria Nsukka Nigeria Department of Metallurgical and Materials Engineering, University of Nigeria, Nsukka, Nigeria

Faculty of Engineering and Built Environment, University of Johannesburg, South Africa

P.A. Ozor, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa

Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria.

N.I. Sukdeo, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

ID 71 Suitability of Jamata River Sand Deposits for Moulding Operation

Ayuba, Department of Materials and Metallurgical Engineering, Nigerian Army University Biu, Borno State, Nigeria.

T. Ause, Department of Metallurgical and Materials Engineering, Ahmadu Bello University, Zaria. Kaduna State, Nigeria.

O. Aponbiede, Department of Metallurgical and Materials Engineering, Ahmadu Bello University, Zaria. Kaduna State, Nigeria.

A. Adebisi, Air Force Institute of Technology, Kaduna, Kaduna State, Nigeria.

6:00 - 7:45 am, TUESDAY

Business Management

Virtual Room 4

Session Chair: June Levi-Oguike, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD), CST, University of Rwanda; Kigali, Rwanda.

D 7 The Impact of Marketing in social media On the Purchase Decision of The Fast-Food Consumer.

Pablo Farro-Gómez de la Torre, Matias Zamorano-Ramos, Martin Collao-Diaz, Juan, Quiroz-Flores and Alberto Flores-Pérez, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú.

ID 20 Effect of Celebrity Ambassador's Credibility toward Brand Passion of Wardah Cosmetic Users in Semarang City.

V. Ivaney and John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

ID 25 Risky Business: A Real Options Valuation for Biopower Investments in sub-Saharan Africa

June Levi-Oguike, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD),CST, University of Rwanda; Kigali, Rwanda. Diego Sandoval, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD),CST, University of Rwanda; Kigali, Rwanda. Etienne Ntagwirumugara, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD),CST, University of Rwanda; Kigali, Rwanda.

ID 26 The Effect of Ease of Use of Applications and Promotions on Purchase Decisions at E-Commerce Shopee.

Aulya Rahman Putri, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia Aditya Wardhana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

D 27 The Effect of Price, Product Quality, And Quality of Service on Customer Satisfaction of a Noodle Restaurant in Bandung City.

Mery Wahyu Santika, Telkom University, Bandung, 40257, Indonesia.

Aditya Wardhana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

ID 50 Sales Performance Improvement Strategy through Customer Engagement on Instagram social media.

Krisma Nisha and Eriana Astuty, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia

ID 79 Strategic Branding Maintenance of Microsoft Corporation in Indonesia Case

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

6:00 - 7:45 am, TUESDAY

Service Systems and Management

Virtual Room 5

Session Chair: Mary Jane C. Samonte, School Information Technology, Mapua University, Philippines

ID 6 Service Management and Time to Care in SMEs In the Health Sector in The Period 2010 - 2020: A Systematic Review of The Scientific Literature.

José Reyes-Romero, Faculty of Engineering, Universidad Privada del Norte, Lima, Perú.

Jhefferson Santillan-Chuqui, Faculty of Engineering, Universidad Privada del Norte, Lima, Perú. Juan Quiroz-Flores, Facultad de Ingeniería, Universidad Peruana de Ciencias Aplicadas, Lima, Perú.

Evelyn Rondon-Jara, Department of Humanities, Universidad Privada del Norte, Lima, Perú.

D 31 Medical Health Tracking and Medicine Delivery System in Urban City

Mary Jane C. Samonte, School Information Technology, Mapua University, Timothy N. Araña, School Information Technology, Mapua University Kevyn John E. Castro, School Information Technology, Mapua University Gabrielle Angeline G. Uy, School Information Technology, Mapua University

ID 278 Clean and Healthy Public Toilet in Amenities Development in Surakarta Tourist Destinations.

Argyo Demartoto, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia Siti Zunariyah, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia Sri Hilmi Pujihartati, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 295 The Influence of Information and Service Quality on Employee Performance through Supervision Quality at the Department of Energy and Mineral Resources of South Sulawesi Province

Yeni Apriani, Agus budiono, Baharuddin Baharuddin, Gunawan B. Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia. Sitti Hairani Idrus, Department of Public Administration, Universitas Halu Oleo, Indonesia.

ID 311 The Effect of Parental Knowledge and Environmental Sanitation on Clean and Healthy Life Behavior and Its Impact on Health Quality in Pinrang Regency

Andi Fauzia, Syahruddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Eddyman W. Ferial, Faculty of MIPA, Universitas Hasanuddin, Makassar, Indonesia.

Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

Erens Elvianus Koodoh, Department of Anthropology, Universitas Halu Oleo, Indonesia

Yesi, Department of Sociology, University of Riau, Indonesia.

ID 312 The Effect of Locus of Control and Competency on Medical and Paramedic Functional Performance through Motivation in The Center of Veterines Maros

Gembong Rachmadany, Hendra Gunawan, Muhammad Tamrin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

A. Suparlan Isya Syamsu, Pharmacy Department, Universitas Megarezky, Makassar, Indonesia.

ID 318 Service Quality and Nurse Performance on Patient Loyalty with Patient Satisfaction as Moderation Variables at Lasepang Health Center, Bantaeng Regency

Akbar Arfa, Hasmin Tamsah, Baharudin Baharudin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

Hj. Suharty Roslan, Department of Sociology, Halu Oleo University, Indonesia.

April 5, 2022 (Tuesday) - Session: 8:00 – 9:45 am

8:00 - 9:45 am, TUESDAY

Global Engineering Education I

Virtual Room 1

Session Chair: Dr Musa-Olokuta, Adekunle Ibrahim

8:00 - 8:20 am (Tuesday, April 5)

Dr Musa-Olokuta, Adekunle Ibrahim

B.Eng (EKSU); M.Eng, PhD (FUNAAB); MNSE, MNIpes, FNIMechE, COREN Regd, FMA, FIPMD, PMP

Mechanical & Industrial Engineer

Specialised on Ergonomics, Human Factor Engineering, Musculoskeletal Disorder and Anthropometric

Department of Mechanical Engineering

Olabisi Onabanjo University

PMB 2002 Ago Iwoye,

Ibogun Campus, Ogun State, Nigeria

8:20 - 8:40 am (Tuesday, April 5)

8:40 - 9:00 am (Tuesday, April 5)

Dr. Okokpujie Imhade Princess

Senior Lecturer/Researcher

Mechanical and Mechatronics Engineering Department

Afe Babalola University

Ado Ekiti State, Nigeria

9:00 - 9:20 am (Tuesday, April 5)

Dr. Shamsuddin Ahmed

Professor Shamsuddin Ahmed PhD (UM), MEng (AIT), BSc Eng (BUET), PgDHRM, CEng(UK), FIEB(Life), MIET(UK),

Department of Mechanical and Production Engineering

Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC)

Competency-Based Human Resources Administration in Engineering Education under Global Demand

9:20 - 9:40 am (Tuesday, April 5)

Dr. Funso Falade

Department of Civil & Environmental Engineering

University of Lagos, Akoka, Lagos, Nigeria

and

President, African Engineering Education Association

8:00 – 9:45 am, TUESDAY Humanitarian Supply Chain Management for COVID-19 Virtual Room 2

Session Chair: Zachary Y. Jara, University of Santo Tomas, Manila, Philippines

ID 89 An Evaluation of the COVID-19 Vaccine Management and Cold Chain Systems of the Five Cities in the National Capital Region of the Philippines Zachary Y. Jara, Melissa Shaine M. Pajarillaga, Mickaela Mae M. Paña, Zarina Karla B. Posecion, Damirson A. Co, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines.

ID 268 Covid-19, Multidimensional Poverty, and Semi-Urban Women's Resilience in Malang City, East Java.

Irza Khurun'in, Department of International Relations, University of Brawijaya, Malang, Indonesia.

Genta Mahardhika Rozalinna, Department of Sociology, University of Brawijaya, Malang, Indonesia

Kartika Putri Kumalasari, Department of Business Administration, University of Brawijaya, Malang, Indonesia

ID 277 The Challenges, Opportunities, and Strategies to Strengthen the Social Enterprise Resilience during Covid-19 Pandemic (A Case Study of Three Social Enterprise Organizations towards Community Empowerment in Indonesia)

Getar Hati, Department of Social Welfare, Ewha Womans University, 03760 Seoul, South Korea

Ratih Indraswari, Department of International Relations, Parahyangan Catholic University, 40141 Bandung, Indonesia.

ID 285 Why do Preparedness and Response to Covid-19 Pandemic Need Community Development Approach: An Experience from Indonesia

Anif Fatma Chawa, Department of Sociology, Faculty of Social and Political Sciences, Universitas Brawijaya, Malang, Indonesia. Moch Hisyam Putra, Department of Sociology, Faculty of Social and Political Sciences, Universitas Brawijaya, Malang, Indonesia.

ID 287 Regional Government Design During the Pandemic: The Challenges Toward Agile Governance in East Java, Indonesia

Muhammad Lukman Hakim, Department Governmental Science, University of Brawijaya and Centre for Policy Studies and Data Analysis (CYDA), Malang, Indonesia. Iqbal Fajar Dwiranda, Centre for Policy Studies and Data Analysis (CYDA), Malang, Indonesia.

ID 309 Knowledge and Satisfaction of Nursing Services through Community Response to Immunization Coverage in the Work Area of the Public Health Center

Akhmad Furqan, Umi Farida, Darti Darti, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Jumra, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia.

Yusuf, Faculty Economics and Business, Universitas Halu Oleo, Indonesia.

Yoenita Jayadisastra, Departemen of Agricultural Extension, Halu Oleo University, Indonesia.

ID 337 Analysis of Human Capital on Teacher Performance Through Discipline and Professionalism in the Technical Implementation Unit of State Senior High School 5 Jeneponto

Resa Nur Arpani, Mustari, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Indonesia.

8:00 - 9:45 am, TUESDAY

Quality

Virtual Room 3

Session Chair: James Wakiru, Mechanical Engineering Department, Dedan Kimathi University of Technology, Nyeri, Kenya.

ID 54 Integrating Supply Chain and Quality Management in a Public Entity in South Africa

Bongumusa Cebekhulu. Ph. D Operations Management Candidate. University of Johannesburg. Johannesburg. South Africa.s

ID 168 Design of Supplier Quality Monitoring System Considering Nonconformity Level in Electronics Manufacturing.

Azelia Puteri, Teuku Yuri M. Zagloel, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia.

ID 283 Design of Service Quality-Based Maintenance Strategy and Risk Analysis in Urban-Rail Operator.

Arsy Karima Zahra and Teuku Yuri M. Zagloel, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia.

ID 319 The Workload of Police Personnel in the Professional and Security Sector of the Southeast Sulawesi Regional Police.

Nasrudin, Asep Putra Satria, Hendra Gunawan, Buyung Romadhoni, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

ID 48 Improving on machine reliability and productivity through data analysis.

Patrick Pasipatorwa, Postgraduate School of Engineering Management, Faculty of Engineering and Built Environment, University of Johannesburg, Johannesburg, South Africa

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Jos, Nigeria.

Jan-Harm C. Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 93 Simulating the influence of spares replacement and reuse strategies on equipment availability and maintenance cost.

Dr. James Wakiru, Ph. D, Lecturer, Mechanical Engineering Department, Dedan Kimathi University of Technology, Nyeri, Kenya.

Professor Peter Muchiri, Ph.D., Associate Professor, Mechanical Engineering Department, Dedan Kimathi University of Technology, Nyeri, Kenya.

ID 416 Maintenance of Raw Mill Machines Using Monte Carlo Simulation: A Case Study at Cement Company in Indonesia.

Muhammad Rizki, Syukrawati, Muhammad Ihsan Hamdy, Muhammad Nur, Harpito, Industrial Engineering, Faculty of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia.

8:00 - 9:45 am, TUESDAY

Business Management

Virtual Room 4

Session Chair: Francis Andem, Department of Business Management, University of Uyo, Akwa Ibom State - Nigeria

Performance of Collaboration Social Media Marketing and Product Quality on Local Brand Loyalty of Coffee Shop for Revisit Intention.

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia.

ID 88 Building Performance Dashboards in the context of Operations Management: Case of the urban commune of Oujda City (Morocco)

Amine AZZAOUI, PhD Student, MATSI Laboratory, High School of Technology, Med First University. Professor Mohammed ERRAMDANI, Ph.D., MATSI Laboratory, High School of Technology, Med First University.

ID 95 The Impact of Strategic Management in Implementing a Risk Management Framework

ID 97 Knowledge Sharing (KS) Strategy and Operational Performance in University of Uyo Teaching Hospital, Uyo - Nigeria.

Francis Andem, Daniel Akpan, Francis Ogosi, Department of Business Management, University of Uyo, Akwa Ibom State - Nigeria.

ID 98 Knowledge Sharing (KS) Strategy and Operational Performance in University of Uyo Teaching Hospital, Uyo - Nigeria.

Francis Andem, Daniel Akpan, Francis Ogosi, Department of Business Management, University of Uyo, Akwa Ibom State - Nigeria.

ID 113 Corporate Reputation on Financial Budi Rustandi Kartawinata

Budi Rustandi Kartawinata, Faculty of Communication and Business, Telkom University, Indonesia.

Sulaeman Sumalaksana, Public Administration Program, STIA Maulana Yusuf Banten, Indonesia.

ID 114 Valuation of Stock Technology Companies Using Discounted Cash Flow Method and The Free Cash Flow to Firm Approach

Budi Rustandi Kartawinata, Aldi Akbar, Mahir Pradana, Faculty of Communication and Business, Telkom University, Indonesia.

8:00 - 9:45 am, TUESDAY

Operations Excellence

Virtual Room 5

Session Chair: Sangowawa Olakitan Olusola, Department of Quantity Surveying, Bells University of Technology, Ota

ID 441 Level of Maintenance Management Practice in Federal Tertiary Institution in Nigeria: A Case Study of University of Lagos.

Ayotunde Anthony Babalola, Department of Quantity Surveying, Federal polytechnic of Ado Ekiti

Akinrata Ebunoluwa Bimbola, Oyeyipo Opeyemi O., Sangowawa Olakitan Olusola, Department of Quantity Surveying, Bells University of Technology Ota. Ganiyu Olaiya, Department of Building, University of Lagos.

ID 442 Impact of Crowdfunding on Real Estate Development: Perception of Construction Stakeholders in Nigeria.

Sangowawa Olakitan Olusola, Department of Quantity Surveying, Bells University of Technology, Ota. Akinrata Ebunoluwa Bimbola, Department of Quantity Surveying, Bells University of Technology, Ota Oyeyipo Opeyemi O., Department of Quantity Surveying, Bells University of Technology, Ota

April 5, 2022 (Tuesday) - Session: 10:00 - 11:45 am

10:00 - 11:45 am, TUESDAY

Global Engineering Education II

Virtual Room 1

Session Chair: Ashiru Mohammed, Ahmadu Bello University, Zaria 810107, Nigeria

10:00 - 10:20 am (Tuesday, April 5)

Professor Christian Amaechi Bolu, FNSE, FAEng Dean College of Engineering Covenant University Ota, Nigeria

Towards Proactive Agenda for (Mechatronics) Engineering Education in Africa

10:20 - 10:40 am (Tuesday, April 5)

Engr. Prof. Adagbonyin Moses O. Obiazi Dean, Faculty of Engineering and Technology Ambrose Alli University, Nigeria President, African Engineering Deans Council, AEDC

10:40 - 11:00 am (Tuesday, April 5)

Nouçaiba Sbai Industrial Engineer and PhD Candidate Ecole Mohammadia d'Ingénieurs Mohammed V University Rabat, Morocco MBA and BA Lecturer SIST British Education Morocco

11:00 - 11:20 am (Tuesday, April 5)

Manali Kshirsagar Principal Rajiv Gandhi College of Engineering and Research, Wanadongri Nagpur, Maharashtra, India

11:20 - 11:40 am (Tuesday, April 5)

Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria Perspective

Engr Celestine Nnaemeka Achebe Lecturer and Researcher in the field of Industrial Engineering and Operations Management Department of Mechanical Engineering University of Nigeria, Nsukka

Engr Dr Paul Amaechi Ozor Head Department of Mechanical Engineering University of Nigeria, Nsukka Nigeria

Prof Nita Inderlal Sukdeo
Associate Professor and Head
Department in the Department of Quality and Operations Management
School of Mechanical and Industrial Engineering
University of Johannesburg
South Africa

11:20 pm - 11:40 pm (Tuesday, April 5)

Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria Perspective

Engr Celestine Nnaemeka Achebe

Lecturer and Researcher in the field of Industrial Engineering and Operations Management

Department of Mechanical Engineering University of Nigeria, Nsukka

Engr Dr Paul Amaechi Ozor Head Department of Mechanical Engineering University of Nigeria, Nsukka Nigeria

Prof Nita Inderlal Sukdeo Associate Professor and Head Department in the Department of Quality and Operations Management School of Mechanical and Industrial Engineering University of Johannesburg

10:00 - 11:45 am, TUESDAY

Systems Engineering

Virtual Room 2

Session Chair: Mohamed Retima, National School of Mines and Metallurgy L3M-Annaba, Algeria.

ID 360 A Causal Loop Analysis for Proposed E-waste Financing Schemes in Indonesia

Muhammad Irfan Kemal and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java

ID 29 Evaluation of Database Management Systems and Techniques Applied in Distributed Systems

Mary Jane C. Samonte, School of Information Technology, Mapúa University. Sasky A. Samonte, School of Information Technology, Mapúa University. Antonette D. Gabriel, School of Information Technology, Mapúa University.

ID 385 Friction and Electrochemical investigation of biomaterials alloys AISI 316L and pure Zn in simulated body fluids

Samira Tlili, Saida Bouyegh, Hinda Gueroui, Traiaia Noura, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria Abdelmoumene Guedri, Infra-Res Laboratory, Department of Mechanical Engineering, University of Souk Ahras, Souk Ahras, Algeria.

Mohamed Fouad Assila, Badji Mokhtar University, Annaba, Algeria.

ID 389 Improvement of biodegradable magnesium-based alloys properties by Ca-P based bioceramics biomimetic deposition

Saida Bouyegh and Samira Tilli, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria.

Mohamed Retima and Imene Ghezaili, National School of Mines and Metallurgy L3M-Annaba, Algeria.

ID 417 Effects of salt bath nitrocarburizing treatment on microstructure and mechanical properties of 13Cr supermartensitic stainless steel

Samira Tiili, Saida Bouyegh, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria. Abdelmoumene Guedri, Infra-Res Laboratory, Department of Mechanical Engineering, University of Souk Ahras, Souk Ahras, Algeria. Charmati Djihad, Abdessabour Derradii, Mohamed Islam Tiili, Badji Mokhtar University, Annaba, Algeria.

ID 444 The Relationship Between Energy Intensity and GDP per Capita in Eastern African Countries (EAC): Evidence From Co-integration and Granger-Causality Investigation Analysis

Desire Sekanabo, Hakizimana Khan Jean de Dieu, African Centre of Excellence in Energy for Sustainable Development, College of Science and Technology, University of Rwanda, KN 73 St, P.O.Box 3900, Kigali, Rwanda

Elias Nyandwi, Centre for Geographic Information Systems and Remote Sensing, University of Rwanda (CGIS-UR), College of Science and Technology, KN 73 St, P.O.Box 3900, Kigali, Rwanda.

Valerie M. Thomas, H. Milton Stewart School of Industrial and Systems Engineering, and School of Public Policy, Georgia Institute of Technology,

10:00 - 11:45 am, TUESDAY

Lean Six Sigma and Simulation

Virtual Room 3

Session Chair: Jajat Sudrajat, Binus University Entrepreneurship Study Program, Bandung, Indonesia.

ID 70 Integration of ABC-XYZ Analysis in Inventory Management Optimization: A Case Study in the Health Industry

Zharalin Suryaputri, Djoko Sihono Gabriel, Rahmat Nurcahyo, Industrial Engineering Department, Indonesia University, Depok, Indonesia.

ID 182 Proposed Implementation of The Lean Service using VSM and DMAIC Methods to Increase Productivity in The Procurement of Goods and Services of MRO Companies

Rahardhian Dimas Puja Kusuma, Industrial Engineering Master Student, Universitas Mercu Buana, Jakarta, Indonesia. Sawarni Hasibuan, Industrial Engineering Department, Universitas Mercu Buana, Jakarta, Indonesia.

Cawarii Hasibaan, maasinai Engineening Department, Oniversitas Werea Daana, Vakarta, maoi

ID 404 Development of Value Stream Mapping (VSM) in Garment Industry (A case study in Telaje Garment Industry)

Abebe Shimelis, Addis Ababa university Institute of technology, Industrial Engineering.

ID 146 Accurate Modeling and Simualtion of Boron Diffuion in Textured Solar Cells

A. El Boukili, School of Science and Engineering, Al Akhawayn University in Ifrane, Morocco.

ID 211 Integrated Location and Technician Routing Problem with Profits Modeling for Managed Service Provider.

Rahadyas Bharata Widyandaru, Department of Industrial and Systems Engineering, Sepuluh November Institute of Technology, Surabaya, Indonesia.

Niniet Indah Arvitrida, Ph.D., Head of LSCM Laboratory, Department of Industrial and Systems Engineering, Sepuluh November Institute of Technology, Surabaya, Indonesia.

Ahmad Rusdiansyah, Ph.D., Associate Professor in the Department of Industrial and Systems Engineering, Sepuluh November Institute of Technology, Surabaya, Indonesia.

ID 422 Business Development Model Students of Entrepreneurship Study Program.

Jajat Sudrajat, Binus University Entrepreneurship Study Program, Bandung, Indonesia.

10:00 - 11:45 am, TUESDAY

Case Studies

Virtual Room 4

Session Chair: Muhammad Lukman Hakim, University of Brawijaya, Malang, Indonesia

ID 237 Application of Analytic Hierarchy Processes in the Comparison of Manual Toll Gate and Radio Frequency Identification (RFID) Systems in the Philippines

Jhon Lawrence G. Quimio, Anthony A. Sanchez, Kianna Denise C. Villapando, Mary Christy O. Mendoza, and Rianina D. Borres

School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines.

Elasticity of Labor Demand and Real Wages Rigidity by Sector in West Java province (2000-2020)

Nur Azmi Karim, Entrepreneurship Departement, Bussiness School Undergraduate Program Bina Nusantara University Bandung Campus Bandung, Indonesia.

The Conflict in the Iron Sand Mining Construction in Yogyakarta (A Study of the Society's Social Movement Against the Iron Sand Mining **Construction Project)**

Muhammad Alhada Fuadilah Habib, Faculty of Economy and Islamic Business, Universitas Islam Negeri Sayyid Ali Rahmatullah Tulungagung. Asik Putri Ayusari Ratnaningsih, Faculty of Humanities, Universitas Airlangga Surabaya

Mukhammad Fatkhullah, PT Kilang Pertamina Internasional Unit Dumai

Siti Muslihatul Mukaromah, Madrasah Aliyah Negeri 7 Jombang

Ella Erliyana, Stiamak Barunawati Surabaya.

Active Tolerance Among Religious People Based on Local Genius in Social Practices of The Sukodadi Community, Wagir Distric, Malang Regency. ID 263

Mohamad Anas, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

Destriana Saraswati, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

ID 264 Adaptation of Muhammadiyah Members to the Religious Tradition of Nahdlatul Ulama Gorontalo.

Arfan Nusi, Department of Philosophy, Islamic State University of Sultan Amai Gorontalo, Indonesia.

Nurul Ilmi Idrus, Hamka Naping, Department of Anthropology, Hasanuddin University, Makassar, Indonesia.

Lahaji, Department of Family Law (Ahwalul Syasiah), Islamic State University of Sultan Amai Gorontalo, Indonesia.

Trapped in Virtual: Case of Trafficking for Indonesian Girls.

Anggaunitakiranantika, Sunhye Kim, Department of Women Studies, Ewha Woman's University, Seoul, Republic of Korea

Compromise: Social Interactions of Political Elites Build Voter Networks

Mahatva Yoga Adi Pradana, Sociology Doctor Program, University of Brawijaya.

Muhammad Lukman Hakim, University of Brawijaya, Malang, Indonesia

10:00 - 11:45 am, TUESDAY

Engineering Management

Virtual Room 5

Session Chair: Ahmad Alzghoul, Data Science Department, Princess Sumaya University for Technology, Amman, Jordan

Risk Classification and Prediction: A Logistic Regression Approach for Analyzing Property Risk Classes in Insurance Companies.

Reem Adel Abdallah, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, United Arab Emirates. Doraid Dalalah, PhD., Associate Professor, Coordinator of the PhD Program, Department of Industrial Engineering and Engineering Management, University of Sharjah, Shariah 27272. United Arab Emirates.

ID 115 Heavy Oil Storage Tanks' Inspection -using Acoustic Emission.

Mohamed Mounir, Department of Industrial & Management Engineering, Arab Academy for Science, Technology & Maritime Transport, Cairo, Egypt. Yasser Shaban, Department of Mechanical Design Engineering, Helwan University, Cairo, Egypt.

The Relationship Between Challenges E-Learning and Interaction with Motivation and Satisfaction Amongst Student During Covid-19 Pandemic. Linda Theresia, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia.

Relationship Between Aspects of Total Quality Management and the Lecturer Satisfaction in the Era of Independent Learning-Independent

Campuses (MBKM) (Case Study in Institut Teknologi Indonesia).

Yenny Widianty, Linda Theresia, Gadih Ranti, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia.

Towards High-Performance Buildings using IoT and AI technologies: A Comprehensive Review.

Lama Alhaj Husein, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, Sharjah, UAE.

Prof. Imad Alsyouf, Sustainable Engineering Asset Management (SEAM) Research Group, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, Sharjah, UAE.

Dr. Emad Mushtaha, Department of Architectural Engineering, College of Engineering, University of Sharjah, Sharjah, UAE.

Dr. Ahmad Alzghoul, Data Science Department, Princess Sumaya University for Technology, Amman, Jordan.

Chatbot Platform Selection in Marketplace with AHP-TOPSIS: A Case Study in Indonesia

Desi Triyana, Armand Omar Moeis, Departement Teknik Industri, Fakultas Teknik, Universitas Indonesia, Depok, Indonesia.

ID 306 Competence and Job Placement on Job Performance through Job Satisfaction in the Office of the XIX Region Land Transportation Management in South Sulawesi

Mardiana, Baharuddin, Baharuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Firman H, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

Analysis of Facilities and Infrastructure Management Its Impact on Student Learning Outcomes Through Quality of Learning in the Madrasah Working Group (KKM) State Aliyah Madrasah 1 Bulukumba

Andi Muhammad Tasmira, Hasmin Tamsah, Mislia, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia. Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Indonesia

April 5, 2022 (Tuesday) - Session: 11:45 am - 2:30 pm

Keynote Speakers

11:45 am - 12:00 pm Welcome Address:

Prof. Charles Arizechukwu Igwe

Vice-Chancellor University of Nigeria, Nsukka, Nigeria 12:00 – 12:30 pm Keynote I: Opening Keynote

Prof. Abiodun H. Adebayo, Ph.D.

Vice-Chancellor Covenant University, Ota Nigeria

12:30 – 1:00 pm Keynote II:

Engr. Prof. Emeka Simon Obe

Dean, Faculty of Engineering Professor of Electrical Engineering University of Nigeria Nsukka, Nigeria

1:00 - 1:30 pm Keynote III:

Prof. Toyin Ashiru

CEO

Tricontinental Oil Ikeja, Lagos Nigeria

1:30 – 2:00 pm Keynote IV:

Engr Prof. Ojo S.I. Fayomi

Dean, College of Engineering Bells University of Technology Ota, Ogun State, Nigeria

2:00 - 2:30 pm Keynote V:

Dr. M. Joseph Ogundu, Ph.D., MBA

Chairman/CEO
Emerald Global Consulting Inc.
Farmington Hills, Michigan, USA

April 5, 2022 (Tuesday) - Session: 3:00 - 4:45 pm

3:00 – 4:45 pm, TUESDAY

Global Engineering Education III

Virtual Room 1

Session Chair:

3:00 - 3:20 pm (Tuesday, April 5)

Dr Boitumelo Ramatsetse

Lecturer & Researcher: Engineering Graphics and Design (EGD) Educational Information and Engineering Technology (EDIET) Wits School of Education University of the Witwatersrand

Commissioner: Office of the Presidency Republic of South Africa

3:20 - 3:40 pm (Tuesday, April 5)

Shailesh Shirguppikar, Ph.D. Head - Office of International Relations and Education Rajarambapu Institute of Technology

Rajaramnagar, Maharashtra, India

3:40 - 4:00 pm (Tuesday, April 5)

Engineer Lovemore Gunda DPhil Student, Department of Electrical Engineering. University of Zimbabwe Harare, Zimbabwe

4:00 - 4:20 pm (Tuesday, April 5)

Dr. Didibhuku Wellington Thwala Professor University of South Africa (UNISA) Johannesburg, South Africa

4:20 - 4:40 pm (Tuesday, April 5)

Engr Prof. Edmund Chijioke Okoroigwe Chairman, Nigeria Society of Engineers Nsukka Branch

Title: University-Industry Linkages: The Gateway for Accelerating National Development in Africa

4:40 - 5:00 pm (Tuesday, April 5)

Dr. Esther Matemba

Engineering Education Advisor- Lassonde Educational Innovation Studio (LEIS)

Lassonde School of Engineering, York University, Canada

Governing Board Member for Research in Engineering Education Network (REEN) - Africa representative

Sessional Academic, Curtin University, Western Australia

3:00 - 4:45 pm, TUESDAY

Environmental Engineering

Virtual Room 2

Session Chair: Jacqueline Chipo Nyambiya, Department of Industrial and Mechatronics Engineering, University of Zimbabwe.

Design and Development of a Bio Coal Pelletizer for Application in Solid Waste Management Technologies

M. Mugoronji, Department of Chemical and Process Systems Engineering, School of Engineering and Technology, Harare Institute of Technology, Zimbabwe M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa. N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa. W. Stinner, Germany Biomass Research Center, Leipzig, Germany,

Effects of Sesame Stalk Ash (SSA) as Partial Replacement of Cement in Concrete **ID 76**

I. Belloa, T. A. Sulaiman, M.M. Musa, J.A. Adamu, Department of Civil Eng., Ahmadu Bello University, Zaria, Nigeria.

ID 77 An Extended Period Analysis Of The Water Pipe Network System In Calabar

Professor Charles Chidozie Nnaji, Ph.D. Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

Nnaji Cyrus Chikwado, Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

An Extended Period Velocity Analysis Of The Water Pipe Network System In Calabar.

Professor Charles Chidozie Nnaji, Ph.D. Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

Nnaji Cyrus Chikwado, Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

Evaluation of Performance of Fixed Dome Biogas Digester Surface Insulated with Mud.

Nwoke Oji Achuka, Ozioko Ifeanyi Chijindu, Ime Chukwuemeka, Ugwu Samson Nnaemeka, Ezenne Gloria Ifeoma, Ogwo Vintus, Department of Agricultural and Bioresources Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

Chukwuma Chibundo Emmanuel, Department of Agricultural and Bioresources Engineering, Nnamdi Azikiwe University Awka, Anambra State Nigeria.

Impact of Effective Layout in Reducing Noise Pollution in Birnin Kebbi Central Market in North-West Nigeria.

Semiu Adedeji Yusuf, Ademola James Adeyemi, Abubakar Arzika Zaki, Olusegun Isa Lasisi, Department of Mechanical Engineering, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria.

Ademola James Adeyemi, Department of Mechanical Engineering, Usmanu Danfodiyo University Sokoto, Sokoto State Nigeria.

Design of an Electromagnetic Suspension and Regenerative Braking System for Electricity Generation

Zibusiso Jila Dube and Mufaro Kanganga, Department of Industrial and Mechatronics Engineering, University of Zimbabwe

Loice Gudukeya and Nita Inderlal Sukdeo, Quality and Operations Management Department, PhD in Engineering Management.

ID 398 Creating electrical energy from bacteria: Harare waste water management case study

Jacqueline Chipo Nyambiya and Mufaro Kanganga, Department of Industrial and Mechatronics Engineering, University of Zimbabwe. Loice Gudukeya and Nita Inderlal Sukdeo, Quality and Operations Management Department, PhD in Engineering Management.

3:00 - 4:45 pm, TUESDAY

Energy

Virtual Room 3

Session Chair: Mendon Dewa, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa.

The Relationship Between Energy Intensity and GDP per Capita in Eastern African Countries (EAC): Evidence From Co-integration and Granger-Causality Investigation Analysis

Desire Sekanabo, Hakizimana Khan Jean de Dieu, African Centre of Excellence in Energy for Sustainable Development, College of Science and Technology, University of Rwanda, KN 73 St, P.O.Box 3900, Kigali, Rwanda.

Elias Nyandwi, Centre for Geographic Information Systems and Remote Sensing, University of Rwanda (CGIS-UR), College of Science and Technology, KN 73 St, P.O. Box 3900, Kigali, Rwanda.

Valerie M. Thomas, H. Milton Stewart School of Industrial and Systems Engineering, and School of Public Policy, Georgia Institute of Technology,

Sustainable Energy consumption in the Industry 4.0 era.

- O. Awogbemi, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.
- D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.
- A. O. Owoputi, Discipline of Mechanical Engineering, University of KwaZulu-Natal, South Africa.
- K.G. Mansaray, Faculty of Engineering and Architecture, University of Sierra Leone, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

ID 38 Development of an automated coal mine methane extraction system.

Lovejoy Gushungo and Portia Mupfumira, Industrial and Manufacturing Engineering, Harare Institute of Technology, Harare, Zimbabwe.

Dr Daramy Vandi Von Kallon, Senior Lecturer and Head of Quality Assurance, Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

ID 100 Estimation of the Moisture Content, Volatile Matter, Ash Content, Fixed Carbon and Calorific Values of Rice Husk Briquettes

Francis Inegbedion and Emmanuel Ikpoza, Department of Production Engineering, University of Benin, Benin City, Nigeria.

ID 112 Energy Generation Potentials from Sawdust Waste (Sawdust Stove and Power Plant).

C.C. Nnaji, Department of Civil Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

U.U. Udokpoh, Department of Civil Engineering, Akwa Ibom State University, Ikot Akpaden, Akwa Ibom State, Nigeria.

ID 142 Biomass Resources in Nigeria and the Conversion Pathways

Collins O. Ugwu, Department of Mechanical Engineering, University of Nigeria, Nsukka, 410001, Nigeria.

Paul A. Ozor, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

Chigbogu G. Ozoegwu, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

Agwu Ndukwe, Department of Mechanical Engineering, University of Nigeria, Nsukka, 410001, Nigeria.

Charles Mbohwa, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

ID 155 Project Financing Analysis Using Capital Budgeting and Multi Criteria Decision Making (MCDM) in Geothermal Projects in Indonesia.

Yafiazmi Dhaniswara, Farizal and M. Dachyar, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia.

ID 158 Recent Advances in DC-to-DC Converter Applications in Electric Vehicles

Akpeghagha Oghenevwaire, Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED) University of Nigeria Nsukka, Enugu State Nigeria.

Ifeanyi Chinaeke-Ogbuka and Augustine Ajibo, Department of Electronic Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria.

Cosmas Ogbuka, Department of Electrical Engineering/ Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), University of Nigeria Nsukka, Enugu State, Nigeria.

ID 177 Comparative analysis of specific energy consumption and energy consumption benchmarking in galvanising plants.

Mendon Dewa, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa.

ID 248 Designing a Domestic Biodiesel Generation Machine for Rural Communities.

O.G. Tiro, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

A.T. Molale, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa

M.M. Setwaba, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

S. Khumalo, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

D.V.V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa. O. Awogbemi, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

3:00 - 4:45 pm, TUESDAY

Business Management

Virtual Room 4

Session Chair: Tlou Phillemon Mathane, University of Johannesburg, South Africa.

ID 408 The Characteristics of Travellers of Homecoming During the Covid-19 Pandemic in Makassar City.

Hasmar Halim, Basyar Bustam, Department of Civil Engineering, Ujung Pandang State of Polytechnic, Makassar, Indonesia

Nur Khaerat Nur, Department of civil engineering, Fajar University, Makassar, Indonesia.

Muhammad Isradi, Faculty of engineering, University Mercu Buana Jakarta, Indonesia

Joewono Prasetijo, Industri Centre of Excellence for Railway (ICoE-REL), Faculty of Engineering and Technology, Univeriti Tun Hussein Onn Malaysia, 84600 Panchor, Johor, Malaysia.

ID 409 The Impact of Implementing Emergency Curriculum on Students' Creativity during Covid-19 Pandemic Learning

Mulyo Kurniati, Sarwiji Suwandi, Budhi Setyawan, Sebelas Maret University Surakarta, Jln. Ir. Sutami, 36 A Kentingan.

Postgraduate Program Jln. Ir. Sutami, 36 Kentingan, Surakarta.

ID 410 Village Head Transformational Leadership in Facing the COVID-19 Pandemic

Widharto, Hamidah, Budi Santoso, Rachma Fitriati, Faculty of Economics, Jakarta State University

ID 411 Employee Performance Assessment Using Simple Additive Weighting (Saw) Method.

Hery Mustofa, Syaiful Bakhri, Universitas Islam Negeri Walisongo Semarang.

ID 47 Smart cities and social justice in Africa: Perspectives from African Local Government Practitioners.

Tlou Phillemon Mathane, Masters Student, University of Johannesburg, South Africa.

ID 78 Strategic Product Sales Performance Analysis: The Case at Unilever Corporation in Indonesia.

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia.

ID 91 Determining Factors Affecting E-Service Quality for Environmental Permits in Indonesia

Hanoum Salsabila, Djoko Sihono Gabriel, Novandra Rhezza Pratama, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia.

3:00 - 4:45 pm, TUESDAY

Case Studies

Virtual Room 5

Session Chair:

ID 83 Evaluation of Railway Ballast Degradation Using Different Approaches

Ashiru Mohammed, Yusuf. Dada. Amartey, Abdulfatai Adinoyi Murana, Adamu. Lawan, Ahmadu Bello University, Zaria 810107, Nigeria

ID 138 Automatic Agile Transformation with Approach by Modeling from BPMN Collaboration Diagram Model to UML Use Case

Ouzayr RABHI, MATSI Laboratory, EST, Mohammed First University, Oujda, Morocco

Ibtissam ARRASSEN, Laboratory for Computer Science Research Faculty of Sciences, Mohammed First University, Oujda, Morocco

Mohammed ERRAMDANI, Department of Management, EST, Mohammed First University, Oujda, Morocco

ID 504 New Normal Life Strategy through Local Indigenous Pentahelix Collaboration: Case Study of "Kampung Tangguh Semeru Wani Jogo Suroboyo" Policy of Surabaya

Faza Dhora Nailufar, Public Administration Department, Polytechnic of STIA LAN Jakarta, Jakarta, Indonesia

Novy Setia Yunas, Department of Political Science, University of Brawijaya, Malang, Indonesia

ID 505 The Dynamics of Conflict In Blimbing Market Development Malang City

Qurnia Indah Permata Sari, Department of Sociology, Faculty of Social and Political Sciences, University of Brawijaya

Ali Maksum, Department of Sociology, Faculty of Social and Political Sciences, University of Brawijaya

Mangku Purnomo, Department of Socio-economics, Faculty of Agricultural, University of Brawijaya

Dewa Agung, Department of History, Faculty of Social and Political Sciences, University of Malang

ID 506 Investigating Gender Justice to the Minorities: The case of Pretty Transpuan in Denpasar, Bali

Nazrina Zuryani, Department of Sociology at FISIP Udayana University Denpasar, Indonesia

ID 507 Policy Design for Poverty Reduction in Jember Regional Coordinating Body

Solih Mu'adi, Dean of Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia

Muhammad Lukman Hakim, A Lecturer of Department of Governmental Science, Brawijaya University & Senior Researcher at the Centre for Policy Studies and Data Analysis (CYDA), Malang, Indonesia

Edy Suprianto, An Alumnus of Doctoral Program in Sociology, Faculty of Social and Political Sciences, Brawijaya University & Researcher at the Centre for Policy Studies and Data Analysis (CYDA), Malang, Indonesia

Syahirul Alim, A Lecturer of Department of Communication Science, Faculty of Social and Political Sciences, Brawijaya University Malang, Indonesia

April 6, 2022 (Wednesday)

April 6, 2022 (Wednesday) - Session: 6:00 - 7:45 am

6:00 - 7:45 am, WEDNESDAY

Innovation and Entrepreneurship

Virtual Room 1

Session Chair: Dr. Divya S, Assistant Professor, VIT Business School, Vellore Institute of Technology, Chennai, India

ID 161 Disruptive Technology Selection for Automotive Industry: A Case Study from Indonesia

Fahmi Ramadhan Putra, Novandra Rhezza Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

ID 299 The Effect of Rewards on Personnel Performance Through Training and Professionalism at the South Sulawesi Police Mobile Brigade Unit Ramli, Hasmin Tamsah, Nasaruddin Nawawi, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Masriadi Patu, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 333 The Effect of Compensation and Discipline on Performance Through Employee Work Motivation at the DPRD Secretariat in Soppeng Regency

Heriani, Baharuddin Baharuddin, dan Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Muliaty, Politeknik Negeri Media Kreatif, Makassar, Indonesia.

Lery Prasetyo, Metta Puspita Dewi, STAB Negeri Raden Wijaya Wonogiri.

Mauli Denil, Akademi Maritim Sapta Samudra.

ID 334 Reward and Individual Ability on Employee Performance Through Job Satisfaction at the Office of the Human Resources Development Agency of South Sulawesi Province.

Cicilia Hartutik, Nasruddin Nawawi, Mansur Azis, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Firman H, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

Agus Subandi and Lery Prasetyo, Widia Darma, STAB Negeri Raden Wijaya Wonogiri.

ID 12 Impact of Authentic-Servant leadership on Trust and Employee Burnout in STEM start-ups during exogenous shocks.

Dr. Divya S, Assistant Professor, VIT Business School, Vellore Institute of Technology, Chennai, India.

ID 273 MOPO'A HUTA RITUAL; The Resistance of Maize Peasants toward Agropolitan Program

Momy A. Hunowu, Department of Sociology, State Islamic University of Sultan Amai, Gorontalo, Indonesia.

Munsi Lampe, Nurul Ilmi Idrus, Safriadi, Departement of Anthropology, Hassanuddin University, Makassar, Indonesia.

ID 282 Virtual Tour "Batik Tiga Negeri" As Innovation of Tourism Sustainability During the Outbreak of Covid-19 In Lasem, Rembang, Central Java.

Prisca Kiki Wulandari, Student of National Resilience Science Doctorate Program, University of Gadjah Mada, Lecturer at University of Brawijaya Indonesia.

M. Baiquni, Geography Department, University of Gadjah Mada, Indonesia.

Ahmad Zubaidi, Philosophy Department, University of Gadjah Mada.

ID 305 The Role of Parents' Knowledge, the Environment on Student Behavior and Its Impact on Dental and Oral Health in the Work Area of the Public Health Center in Central Mamuju.

Ni Putu Hendria Dewi, Hasmin Tamsah, Darti Darti, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Muhammad Ybnu, Universitas Tomakaka, Mamuju, Indonesia.

Yasnani, Department of Public Health, Halu Oleo University, Indonesia.

ID 315 Competence and Rewards on Employee Performance through Motivation at the Sultan Daeng Radja Regional General Hospital, Bulukumba Regency.

Tria Haryuni Dammar, Erwin Wijaya, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Razak Munir, Ekafadly Jusuf, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin, Makassar, Indonesia.

Bambang Sunatar, Department of Shariah Economic, State Islamic Institute of Sorong.

6:00 - 7:45 am, WEDNESDAY

Operations Management

Virtual Room 2

Session Chair: Tosin Akintunde, Department of Industrial and Production Engineering, University of Ibadan, Oyo State, Nigeria.

Design of Mass Rapid Transit (MRT) Service Quality Through Analysis of Factor Affecting Passenger Behavior Intention Using PLS-SEM and QFD. Amalia Hasanah Nur Ahlina, Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia.

Maintenance Performance Measurement Using Fuzzy Logic and Analytical Hierarchy Process (AHP)

Olalekan Emmanuel Omoniyi and Ayodeji Emmanuel Oluleye, Department of Industrial and Production Engineering, University of Ibadan, Oyo State Nigeria.

Evaluation of Some Selected Water Producing Companies Using the Data Envelopment Analysis. ID 193

Tosin Akintunde, Department of Industrial and Production Engineering, University of Ibadan, Oyo State, Nigeria.

Ayodeji Emmanuel Oluleye, Department of Industrial and Production Engineering, University of Ibadan, Oyo State, Nigeria.

ID 009 Optimal Redesign of The Organisation Structure of a Steam Power Plant.

Appropriate Parameters of 3D Food Printing from Gelatin-based Mixtures ID 014

Supakorn Prapalert, Master Degree Program in Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand

Wassanai Wattanutchariya, Advanced Manufacturing and Management Technology Research Center, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand.

ID 156 Optimization of Assembly Process in the Production Line to Increase Productivity with the Line Balancing Method in Indonesian Automotive sector.

Andy Kresna, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia.

Farizal, Ph.D., Senior Lecturer of Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia.

Prof Dr. M. Dachyar, MSc, Professor of Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia.

6:00 - 7:45 am, WEDNESDAY

Case Studies

Virtual Room 3

Session Chair: Tri Yatno, Universitas Sebelas Maret Surakarta

ID 345 The Effect of Psychological Capital on Performance Through Work Capability and Soft Competence of Sub-District Employees in Jeneponto Regency.

Arfina, Gunawan B. Ilyas, Syafri Arief, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Harlindah Harniati Arfan STIF Nobel Indonesia Makassar Indonesia

Student Perception of Catcalling Activities in The Campus Environment

Nina Siti Salmaniah Siregar, Delvi Windrayani, Nadra Ideyani Vita and Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.

Waridah Pulungan, Government Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.

Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.

Wiflihani, Music Education Study Program, Faculty of Language and Art, Universitas Negeri Medan, North Sumatra, Indonesia.

Cultural Inheritance Through Informal Education in Sapu Jagad Studio of Kemiren Tourism Village Banyuwangi

Wiwin Yulianingsih and Suhanadji, Department of Nonformal Education, Universitas Negeri Surabaya, Indonesia.

Utari Dewi, Department of Curriculum and Educational Technology, Universitas Negeri Surabaya, Indonesia.

Warih Handayaningrum, Department of Drama, Dance, and Music Education, Universitas Negeri Surabaya, Indonesia.

Imam Shofwan, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Semarang, Indonesia.

Impoliteness Communication on social media Used by Universitas Igra Buru Students

Azwan, Susiati, A Yusdianti Tenriawali, Ibnu Hajar, Taufik, M Chairul Basrun Umanailo, Risman Iye, Saidna Zulfiqar Bin-Tahir, Literature Faculty of Universitas Iqra Buru, Maluku, 97571, Indonesia.

ID 377 Study of Application of Energy Transition Policy in Indonesia's Automotive Sector

Annisa Khairani, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

The Plurality of Vesak Celebrations at Borobudur and Sewu Temples

Tri Yatno, Universitas Sebelas Maret Surakarta.

Mahendra Wijaya, Universitas Sebelas Maret Surakarta.

Slamet Subiyantoro, Universitas Sebelas Maret Surakarta.

Titis Srimuda Pitana, Universitas Sebelas Maret Surakarta

6:00 - 7:45 am, WEDNESDAY

Business Management

Virtual Room 4

Session Chair: Indra Kusumadi Hartono, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

Comparative Analysis of Financial Performance Before and During Covid-19 Pandemic on Property and Real Estate Sector in Indonesia.

Suwiro Heriyanto, Management Department, Business School of Banten, Serang Banten.

Uli Wildan Nuryanto, Postgraduate Department, University Bina Bangsa, Serang Banten.

Ika Pratiwi, Management Department, University Bina Bangsa, Serang Banten.

Joni Prihatin, Management Department, University Bina Bangsa, Serang Banten.

The Influence of Financial Literacy and Heuristic Behavior on Perception Risk That Impact on Investment Decision Generation Z During Pandemic.

Ardella Aswieri, Student of Management, University of Bina Nusantara, Jakarta, Indonesia.

Daniel Suharli, Student of Management, University of Bina Nusantara, Jakarta, Indonesia. Michelle Aurellia, Student of Management, University of Bina Nusantara, Jakarta, Indonesia.

The influence of job search activities and evaluation of shortlist of possible jobs on Application Intention. ID 200

Dava Arla Gammal Muhammad, Mahendra Fakhri, Syarifuddin Syarifuddin, Anita Silvianita, School of Communication and Business Telkom University.

The Effect of Trust and Expected Outcome on Willingness to Pay on Netflix Services That Will Help Your Business.

Fauzan Fadhli Akbar, Mahendra Fakhri, Mahir Pradana, School of Communication and Business Telkom University.

ID 202 The Influence of The Relationship of Curiosity, Museum Attributes, Novelty and Knowledge Seeking as Motivation for Generation Z to Visit Museum.

Nur'aini Jasril, Nurafni Rubiyanti, Devilia Sari, Mahendra Fakhri, School of Communication and Business Telkom University.

ID 203 The Relationship between Digital Wallet Adoption and Usage to Financial Inclusion.

Oktarini Riandani, Devilia Sari, Nurafni Rubiyanti, Nadya Karina Moeliono, Mahendra Fakhri, School of Communication and Business Telkom University.

ID 254 The Effect of TikTok Social Media Marketing on Impulse Purchases of Fashion Products with Hedonic Shopping Motivation as the Intervening Variable.

Rizqi Nurazizah, School of Comunnication and Business Telkom University.

Marheni Eka Saputri, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

Nurafni Rubiyanti, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

6:00 - 7:45 am, WEDNESDAY

Case Studies

Virtual Room 5

Session Chair: Nur'aini Inayah, Sebelas Maret University, Surakarta, Indonesia

ID 267 Covid-19 Pandemic and Identity Negotiation (Phenomenological Study about Mapur's Social Resilience in Bangka – Indonesia)

Iskandar Zulkarnain, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.

Panggio Restu Wilujeng, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.

Michael Jeffri Sinabutar, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.

Laila Hayati, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.

ID 269 Information Uncertainty during the Indonesian Pandemic: Sociological Perspectives

Rizki Setiawan, Septi Kuntari, Stevany Afrizal, Department of Sociology Education, University of Sultan Ageng Tirtayasa, Serang, Indonesia. Musahwi, Department of Sociology of Religion, IAIN Syekh Nurjati, Cirebon, Indonesia.

ID 270 Intersectionality Regulations for Handling Crisis of Women Trafficking during the Pandemic

Sayuti, Faculty of Sharia, University of Islamic State Sultan Thaha Saifuddin Jambi, Jambi, 36363, Indonesia.

Ghina Nabilah Effendi, Department of Government Affairs, University of Islamic State Sultan Thaha Saifuddin Jambi, Jambi, 36363, Indonesia.

ID 271 Islamic Boarding Schools and Sanitation Problems

Dewi Puspita Rahayu, Department of Sociology, Universitas Brawijaya, Malang, Indonesia.

ID 272 Masculinity Representation of BTS Fans Through Instagram social media

Nur'aini Inayah, Aris Arif Mundayat, Yuyun Sunesti, Master of Sociology, Sebelas Maret University, Surakarta, Indonesia

ID 274 Difable Women: Marginalized Identities

Varinia Pura Damaiyanti, Department of Sociology, Faculty of Social and Politics, Lambung Mangkurat University, Indonesia.

ID 275 The Power Relation of Rural Government in Developing Indonesian" Unicorn Village": Study Case of Sleman and Badung.

Ali Maksum, Department of Government, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

Juwita Hayyuning Prastiwi, Department of Political Science, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

Wida Ayu Puspitosari, Department of Sociology, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

April 6, 2022 (Wednesday) - Session: 8:00 - 9:45 am

8:00 - 9:20 am, WEDNESDAY

Industry Solutions I

Virtual Room 1

Session Chair:

8:00 am - 8:20 am (Wednesday, April 6)

Dr. T. Mushiri
Senior Lecturer
Department of Industrial and Mechatronics Engineering
Faculty Research Manager
Faculty of Engineering & the Built Environment (FEBE)
University of Zimbabwe
Mt Pleasant, Harare
ZIMBABWE

8:20 am - 8:40 am (Wednesday, April 6)

Dr. Stanley Chinedum Nwoji
BSc, MBA, MSc (Analytics), PhD
Professor of EBusiness and Entrepreneurship
Harrisburg University of Science and Technology
Harrisburg, PA, USA

Topic: Industry 4.0 Readiness for African Organizations and Universities

8:40 am - 9:00 am (Wednesday, April 6)

Engr. Nnoli Akpedeye FNSE 13th APWEN President

9:00 am - 9:20 am (Wednesday, April 6)

Dr. Kanwalvir Singh Dhindsa Professor & Head, Department of CSE Baba Banda Singh Bahadur Engg. College (BBSBEC) Fatehgarh Sahib (Pincode-140407) Punjab, India

9:00 am - 9:40 am (Wednesday, April 6)

8:00 - 9:30 am, WEDNESDAY

Supply Chain

Virtual Room 2

Session Chair: Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

ID 382 Application Modeling for Sustainable Supply Chain Coffee Trade in Indonesia using the Analytical Hierarchy Process.

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

Bahtiar H. Simamora, Department of Management - Binus Business School, Bina Nusantara University, jakarta, Indonesia.

Adhi Nugroho Chandra, Henricus Bambang Triantono, Seprihadi Natanael, J Rolles Sihombing, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

ID 383 Uncertainty Factors Affecting in Supply Chain Management Systems Using Computer-based Application

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

Bahtiar H. Simamora, Department of Management - Binus Business School, Bina Nusantara University, jakarta, Indonesia.

Adhi Nugroho Chandra, Henricus Bambang Triantono, Seprihadi Natanael, J Rolles Sihombing, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

ID 384 Influencing Factors in the Supply Chain for Selection of Coffee Marketing Patterns Bali Kintamani Coffee

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

Bahtiar H. Simamora, Department of Management - Binus Business School, Bina Nusantara University, jakarta, Indonesia.

Adhi Nugroho Chandra, Henricus Bambang Triantono, Seprihadi Natanael, J Rolles Sihombing, School of Information systems, Bina Nusantara University, Jakarta, Indonesia.

ID 257 Effectiveness of Cow-Hooves Ash as Partial Replacement of Filler in Hot-Mix Asphalt

Yusuf Mansur Hashim, Ahmadu Bello University, Zaria

Kyenpia Goje, Ahmadu Bello University, Zaria

Abdulaziz Ahmad, Ahmadu Bello University Zaria

Yusuf Yau, Ahmadu Bello University, Zaria

Tasiu Ashiru Sulaiman, Ahmadu Bello University, Zaria

ID 351 An Effects of social media for High School Students during the Covid-19 in Indonesia.

Muhammad Alfikri, Solihah Titin Sumanti, Abdul Rasyid, Anang Anas Azhar, and Syahrul Abidin, Program Study Communication Science, Faculty of Social Sciences, Universitas Islam Negeri, North Sumatera, Medan, Indonesia

ID 352 Analysis of Factors that Affected Turnover Intention at UD. Tito Medan

Dewi Anggraini, Marketing Management Study Program, Politeknik Cendana, North Sumatera, Indonesia.

Fahmi Sulaiman, Marketing Management Study Program, Sekolah Tinggi Ilmu Manajemen Sukma, North Sumatera, Indonesia.

Supriyanto, Business Administration Study Program, Politeknik LP3I Medan, North Sumatera, Indonesia.

Budi Hartono, Master in Public Administration, Universitas Medan Area, North Sumatera, Indonesia

Agung Suharyanto, Public Administration Study Program, Faculty of Social Science and Political Science, Universitas Medan Area, North Sumatera, Indonesia. Endang Haryanti and Rahma Afwina, Faculty of Psychology, Universitas Medan Area, North Sumatera, Indonesia.

ID 355 Analysis of Communication Management on the Handling of Covid-19 in North Sumatra

Dedi Sahputra, Taufik Wal Hidayat, Ilma Saakinah Tamsil, and Ara Auza, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Bahrum Jamil, Beltahmamero Simamora, and Marlina Deliana, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 392 Exploration of Medicinal Plants in Pamekasan District: Ethnobotany Study in Herbal Medicine to Prevent Symptoms of Tuberculosis Infection.

Khoirin Maghfiroh, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Department of Food Science and Technology, Faculty of Agriculture, Yudharta University

Jati Batoro, Sri Widyarti and Sutiman Bambang Sumitro, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University.

8:00 - 9:30 am, WEDNESDAY

Artificial Intelligence

Virtual Room 3

Session Chair: Aaron John V. Boquiren, School of Information Technology, Mapua University, Makati, Metro Manila.

ID 23 Application of Machine Learning Techniques to Predict Some Geotechnical Indices in Ekiti State, Southwestern Nigeria.

Akinwamide Joshua Tunbosun, Department of Civil Engineering, Faculty of Engineering, The Federal Polytechnic, Ado Ekiti, Ekiti State, Nigeria.

Jacob Odeh Ehiorobo, Ph.D., Osuji Sylvester Obinna. Ph. D. and Ebuka Nwankwo. Ph.D., Department of Civil Engineering, Faculty of Engineering, University of Benin, Benin City, Edo State, Nigeria

ID 28 Applying Deep Learning for the Prediction of Retail Store Sales.

Mary Jane Samonte, School of Information Technology, Mapua University.

Elixeline Britanico, School of Information Technology, Mapua University.

Karmin Ida Mae Antonio, School of Information Technology, Mapua University.

John Emmanuel J. Dela Vega, School of Information Technology, Mapua University.

Tia Julienne P. Espejo, School of Information Technology, Mapua University.

ID 180 Tagalog Sentiment Analysis Using Deep Learning Approach with Backward Slang Inclusion.

Aaron John V. Boquiren, Raymond A. Garcia, Chrisrenee Jerard D. Hungria, School of Information Technology, Mapua University, Makati, Metro Manila.

ID 259 A study on AI and ICT for sustainable manufacturing.

Omolayo M. Ikumapayi, Sunday A. Afolalu, Joseph F. Kayode, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria. Emeka S. Nnochiri, Kayode O. Olowe, Department of Civil Engineering, Afe Babalola University, Ado Ekiti, Nigeria.

Ojo P. Bodunde, Department of Mechanical and Automation Engineering, Chinese University of Hong Kong, Shatin, NT, People's Republic of China.

8:00 - 9:30 am, WEDNESDAY

Business Management

Virtual Room 4

Session Chair: Indhar Wahyu Wira Harjo, Department of Sociology Faculty of Social Sciences and Politics, Universitas Brawijaya, Malang, Indonesia.

ID 255 Prior to Corporate Transformation Readiness: A Case of Digital Capability, Employee Engagement, And Employee Productivity.

Anita Maharani, Master Program, Binus Business School, Bina Nusantara University, Jakarta, Indonesia

Joan Yeremia Sualang, Master Program, Binus Business School, Bina Nusantara University, Jakarta, Indonesia.

Pradita Billy Pramono, Master Program, Binus Business School, Bina Nusantara University, Jakarta, Indonesia.

William Lucky Kartim, Master Program, Binus Business School, Bina Nusantara University, Jakarta, Indonesia.

ID 284 Women's Participation in Fullfilment of Household Need through E-WARONG KUBE PKH: A Qualitative Study in Banjar.

Nuzul Solekhah, Fatwa Nurul Hakim, Balai Besar Penelitian dan Pengembangan Pelayanan Kesejahteraan Sosial.

ID 290 Civilizing Process of Football in Indonesian Schools

Indhar Wahyu Wira Harjo, Department of Sociology Faculty of Social Sciences and Politics, Universitas Brawijaya, Malang, Indonesia.

ID 296 Analysis of Human Resource Development Needs to Improve Employee Performance at the Office of Education and Training Personnel Agency in Mamuju District.

Muhammad Abduh Hanubun, Ansar, Partono Sumaryo, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Muhammad Ybnu, Universitas Tomakaka, Mamuju, Indonesia

lin Asikin, Department of Economic Education, Universitas Indraprasta PGRI, Indonesia.

ID 297 Increased Organizational Commitment with Facilities and Professionalism and Its Effect on The Performance of Extension Officers in Jeneponto Regency

Sukmawati, Gunawan Bata Ilyas, Misbahuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 301 The Influence of Situational Leadership on Employee Performance Through Work Discipline and Organizational Climate at the Department of Manpower and Industry Bantaeng Regency.

Nursamsi, Miharsi Chandra, Syahruddin, Mansur Azis

Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Asriani, Department of Government Science, Universitas Halu Oleo, Indonesia.

ID 303 The Influence of Human Resource Development and Organizational Culture on Public Service Quality through Employee Performance in Central Mamuju District.

Nurlaela, Gunawan Bata Ilyas, Muahammad Natsir, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Elpisah, STKIP Pembangunan Indonesia, Makassar, Indonesia

Sitti Hairani Idrus, Department of Public Administration, Universitas Halu Oleo, Indonesia.

Ashmarita, Department of Anthropology, Universitas Halu Oleo, Indonesia

Maulid, Department of Public Administration, Universitas Sembilanbelas November Kolaka.

8:00 - 9:30 am, WEDNESDAY

Planning and Scheduling

Virtual Room 5

Session Chair: Janella B. Diaz, Mapua University, Intramuros, Manila, Philippines.

ID 153 Using Business Model Canvas Approach as A Tool to Support New Venture Strategy: The Case of Dakge as a Healthy Culinary SMEs

Clarissa Arthamevia Gusindatama, Creativepreneurship Department, Faculty of BINUS Business School Bina Nusantara University Bandung, School of Creative Technology, Bandung, West Java 40181, Indonesia.

Nadya Natasya Wijaya, Creative preneurship Department, Faculty of BINUS Business School, Bina Nusantara University Bandung, School of Creative Technology, Bandung, West Java 40181, Indonesia.

Iston Dwija Utama, S.E., M.A.B., Creativepreneurship Department, Faculty of BINUS Business School, Bina Nusantara University Bandung, School of Creative Technology, Bandung, West Java 40181, Indonesia.

ID 154 Cost Benefit Analysis of Implementation Valorization Technology of Rejected Brine for Alternative Chlor Alkali Plant Raw Material: Case Study in Indonesia

Ayu Erliza, Farizal F., Djoko Sihono Gabriel, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI, Depok, 16424, Indonesia.

ID 163 Business Process Analysis in Revenue Administration in the Oil and Gas Drilling Services in Indonesia: A Case Study.

Naldo Badriansyah, Novandra Rhezza Pratama, M. Dachyar, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia.

ID 175 Car Demand Forecasting Using Multiple Linear Regression: A Case Study Low Prices Toyota in Indonesia.

Andi Maulana, Farizal, Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Kampus Baru UI Depok, Depok 16424, Indonesia.

ID 185 System Analysis and Design of Company XYZ's RFQ/RFP Processes

Cristel Joy Cayaban, Eric Tacardon, and Maria Cristina Sario, Grace Lorraine Intal, School of Industrial Engineering and Engineering Management, School of Information Technology, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines.

ID 213 A Comparative Study between Mall Concierge and Interactive Digital Wayfinding in the Philippines Applying Analytical Hierarchy Process (AHP) Method.

Kirstien Paola E. Robas, Matthew P. Solivio, Jeric James G. Pido, Rianina Borres, Department of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 236 Comparison of Manual Toll Gate and Radio Frequency Identification (RFID) Systems using Queuing Model and Monte Carlo Simulation. Janella B. Diaz, Jeric James G. Pido, Jhon Lawrence G. Quimio, Kianna Denise C. Villapando, Mary Christy O. Mendoza, and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines.

April 6, 2022 (Wednesday) - Session: 10:00 - 11:45 am

10:00 - 11:45 am, WEDNESDAY

Industry Solutions II

Virtual Room 1

Session Chair: Dr. Sam Takavarasha Jr. Women's University in Africa

Session Co-Chair: Dr. Lemma Lessa, Assistant Professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia

10:00 am - 10:20 am (Wednesday, April 6)

Dr. Lemma Lessa Assistant Professor of Information Systems School of Information Science Addis Ababa University (AAU) Ethiopia

10:20 - 10:40 am (Wednesday, April 6)

Dr. Engr. Mohammad Iqbal Professor Department of IPE SUST Sylhet, Bangladesh

10:40 - 11:00 am (Wednesday, April 6)

Mr. Keshav Kaushik Assistant Professor School of Computer Science University of Petroleum and Energy Studies Dehradun. India

11:00 - 11:20 am (Wednesday, April 6)

Dr. Sam Takavarasha Jr. Women's University in Africa

11:20 - 11:40 am (Wednesday, April 6)

10:00 - 11:45 am, WEDNESDAY

Cybersecurity

Virtual Room 2

Session Chair: Neil Russel D. Ayap, School of Information Technology, Mapúa University, Philippines.

ID 110 Cyber Security Awareness and Education Framework for Zimbabwe Universities. A Case of National University of Science and Technology Belinda Mutunhu, Dr. Sibusisiwe Dube, Nolwazi Ncube and Sizalobuhle Sibanda, Computer Science Department, National University of Science and Technology.

ID 111 Cyber Security Awareness and Education Framework for Zimbabwe Universities. A Case of National University of Science and Technology. Belinda Mutunhu, Dr Sibusisiwe Dube, Nolwazi Ncube and Sizalobuhle Sibanda, Computer Science Department, National University of Science and Technology.

ID 123 Employees Information System Misuse: Insights from National culture and Criminological Theories

ID 135 Beat the Bait: A Case Study on Phishing Attack.

Neil Russel D. Ayap, School of Information Technology, Mapúa University, Philippines. Arfren Ceniel Y. Dabu, School of Information Technology, Mapúa University, Philippines. Alejandro M. Reyes, School of Information Technology, Mapúa University, Philippines. Aaron Benedict K. Ventura, School of Information Technology, Mapúa University, Philippines. Ghibi P. Trinidad, School of Information Technology, Mapúa University, Philippines. Eric B. Blancaflor, School of Information Technology, Mapúa University, Philippines.

10:00 - 11:45 am, WEDNESDAY

Case Studies

Virtual Room 3

Session Chair: Krizia Ein Z. Saguibo, Mapúa University, Manila, Philippines.

ID 400 The Role of Women in Tourism in Sade Village, Lombok, Indonesia.

Deviana Mayasari, Ph. D, Candidate, Sociology Graduate, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia, Sanggar Kanto, Siti Kholifah, Bambang Dwi Prasetyo, Postgraduate Lecturer in the Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia. M Chairul Basrun Umanailo, Iqra Buru University, Namlea.

ID 419 Online Shopping Websites and its Factors Affecting Consumer Buying Behavior: A Comparative Analysis between BeautyMnl, Mercury Drug, and Watsons.

Nicole Louise Josue, Angela Mae B. Urbiztondo, Jonel Miko E. Reyes, Alexandra Isshi V. Villareal, Renz Roniel G. Macatangay and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines.

ID 420 Factors Affecting Students' Performance During Online Classes in Physics Course: A Comparative Analysis on First-Year Engineering Programs of Mapúa, DLSU, and UST.

Krizia Ein Z. Saguibo, Michelle Catherine A. Santos, Clarice Ann M. Verdeflor, David Jericho B. Villanueva and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 421 Factors Affecting the Academic Standing in Calculus 2 in the Online Educational Setting: A Comparative Analysis among First Year Civil Engineering, Mechanical Engineering, and Chemical Engineering Students of Mapúa University.

Eunice Gabrielle A. Reyes, Alfonso Paul B. Bagtas, Gerome Kaye M. Cangco, Robin D. Torres, and Rianiña D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 423 The Different Factors Affecting Customer Satisfaction on Local Courier Services in the Philippines: A Comparative Analysis between J&T Express, NinjaVan, and JRS Express.

Angelea Jewel Mayores, Jeanne Allen P. Galang, Julieth Mae B. Radores, Patrick Kyle C. Medina, and Rianiña D. Borres, School of Industrial Engineering and Engineering Management Mapúa University, Manila, Philippines.

ID 424 Factors Affecting Purchasing Intention of Consumers in E-commerce: A Comparative Analysis Between Shein, Zaful, and Zalora. Sachi Liyah S. Bautista, Cedric Vincent L. Chan, Jesslene Emille L. Mallen, Fea Claire Plantilla.

ID 425 Classification of Spare Parts and Determining the Number of Inventory Using Logistics and Maintenance Perspective on The Oil and Gas Industry. Yosi Carolina, Farizal, Rahmat Nurcahyo, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia.

10:00 - 11:45 am, WEDNESDAY

Business Management

Virtual Room 4

Session Chair: Ichmi Yani Arinda Rohmah, International Relations Department, Faculty of Social and Political Sciences, Universitas National.

ID 374 The Relationship of Human Capital Management and Productivity in a Construction Company in 2021

Hammer Jose Trujillo-Quiroz, Faculty of Business, Universidad Privada del Norte, Lima, Perú.

Ruth Elizabeth Ortega-Córdova, Faculty of Business, Universidad Privada del Norte, Lima, Perú.

Ralphi Jaurequi-Arroyo, Faculty of Business, Universidad Peruana de Ciencias Aplicadas, Lima, Perú.

Evelyn Rondon-Jara, Department of Humanities, Universidad Privada del Norte, Lima, Perú

ID 401 Community Empowerment and The Economic of Farmers, Menturus Village, Kudu District, Jombang Regency, Through the Use of Agricultural Technology Renewable Energy Based.

I Nyoman Sudapet and Agus Sukoco, Department of Management, Narotama University, Indonesia.

Hendro Sutowijoyo and Muhammad Ikhsan Setiawan, Department of Management, Narotama University, Indonesia.

Achmad Muchayan, Department of System Information, Narotama University, Indonesia.

Paisal Halim and Syamsiah Badruddin, Universitas Nasional, Jakarta, Indonesia.

ID 402 E Cities, Sustainable Cities in Indonesia

Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia.

Agus Sukoco and I Nyoman Sudapet, Department of Management, Narotama University, Indonesia.

Dani Harmanto, Aeronautical Engineering at De Montfort University UK.

ID 403 E Desa Smart Economy and Tourism Integration.

I Nyoman Sudapet and Agus Sukoco, Department of Management, Narotama University, Indonesia.

Ronny Durrotun Nasihien and Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia.

Mohd Idrus Mohd Masirin, UTHM Malaysia.

ID 405 The Implication of War on Terror Policy on Human Rights Violations to Uighur's People in 2018.

Dinda Widiastuti, Gulia Ichikaya Mitzy, International Relations Department, Faculty of Social and Political Sciences, Universitas Nasional.

ID 406 Islamophobia in New Zealand: Case Study of The Terrorist Attacks on The Two Christchurch Mosques in 2019.

Risma Eka Putri, Suhanto, International Relations Department, Faculty of Social and Political Sciences, National University.

ID 407 Labor Market of Traditional Medical Practitioners: An Introduction in Sociological Economic Perspective.

Ichmi Yani Arinda Rohmah, International Relations Department, Faculty of Social and Political Sciences, Universitas National.

10:00 - 11:45 am, WEDNESDAY

SCM and Sustainability

Virtual Room 5

Session Chair: Suleiman Hassan Otuoze, Ahmadu Bello University, Zaria 810107, Nigeria.

ID 372 Assessing the Supply Chain Risk in Indonesian Cosmetic Industry

Tia Atika Putri and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java.

ID 418 Simulation Model of Cocoa Transportation in Middle Java Indonesia.

Dwi Novirani, PhD student, School of Architecture, Planning and Policy Development, Institut Teknologi Bandung (ITB), Bandung 40132, Indonesia Institut Teknologi Nasional (Itenas Bandung), Bandung 40123, Indonesia.

Pradono Pradono, Professor, School of Architecture, Planning and Policy Development, Institut Teknologi Bandung (ITB), Bandung 40132, Indonesia. Gatot Yudoko, Associate Professor, School of Business and Management (SBM), Institut Teknologi Bandung (ITB), Bandung 40132, Indonesia. Fadillah Santika, Institut Teknologi Nasional (Itenas Bandung), Bandung 40123, Indonesia.

ID 75 Optimum Gum Arabic Content as Bitumen Modifier in Hot Mix Asphalt.

Suleiman Hassan Otuoze, Abdulmumin Ahmed Shuaibu, Aliyu Mani Umar, Suleiman Kamilu, Abdulaziz Ahmad, Department of Civil Engineering, Ahmadu Bello University, Zaria 810107, Nigeria.

ID 164 Social Life Cycle Assessment – A Bibliometric Review.

Marcela Ivonne Delgado Armendáriz, Jorge Luis García Alcaraz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juarez, Ciudad Juárez 32310, Chihuahua, México.

Adrián Salvador Morales García, José Roberto Díaz Reza, Department of Electric Engineering and Computers Sciences, Autonomous University of Ciudad Juarez, Ciudad Juárez 32310, Chihuahua, México.

Rita Puig i Vidal, Departament d'Informatica I Enginyeria Industrial University of Lleida, Igualada 08700, Barcelona, Spain.

ID 204 Reduction of Contamination from Water Using Rainwater Filtration System In NCR, Philippines.

Catherine Therese L. Tolentino, Joshua Benjamin R. Mabeza, Therese Marie C. Pimentel, Renier Dale D. Dalawampu, Engr. Nestor R. Ong, MSIE, PIE, ASEAN Eng., Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, España Blvd., Metro Manila, Philippines.

ID 189 Developing Food Safety and Standards of Food Delivery Service in Thailand during the COVID-19 Pandemic

Natissareeya Suksrimuang and Pornthipa Ongkunaruk, Department of Agro-Industrial Technology, Faculty of Agro-Industry, Kasetsart University, Bangkok 10900, Thailand.

ID 375 The Developing Key Performance Indicators for Sustainable Supply Chain in Indonesian Fashion Industry

Nora Nisrina and Romadhani Ardi, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

April 6, 2022 (Wednesday) - Session: 12:00 - 2:30 pm

Keynote Speakers

12:00 - 12:30 pm Keynote VI:

Engr Tasiu Saad Gidari-wudil FNSE, D.

President Nigeria Society of Engineers

12:30 – 1:00 pm Keynote VII:

Prof. Dr. Esther T. Akinlabi

Director

Pan African University for Life and Earth Sciences Institute (PAULESI)
Ibadan, Nigeria

1:00 - 1:30 pm Keynote VIII:

Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD

Dean, School of Engineering
Department of Energy and Petroleum Engineering
University of Energy and Natural Resources
Sunyani, Ghana

1:30 – 2:00 pm Keynote IX:

Engr Prof. Emenike. C. Ejiogu

Director

Africa Centre of Excellence for Sustainable Power and Energy Development University of Nigeria Nsukka

2:00 - 2:30 pm Keynote X:

Professor Charles Mbohwa, Ph.D.

Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe
Harare, Zimbabwe

April 6, 2022 (Wednesday) - Session: 3:00 - 4:45 pm

3:00 – 4:45, WEDNESDAY

Industry Solutions III

Virtual Room 1

Session Chair: Engr. Dr. Patrick U. Akpan

 $3:00-3:20\ pm$ (Wednesday, April 6)

Prof. Ogechukwu Nkechinyelu Iloanusi, Ph.D.

Head

Department of Electronics Engineering

University of Nigeria Nsukka

Overcoming the Challenges of a Developing Country to Embracing the Fourth Industrial Revolution: A Case for Nigeria

3:20 - 3:40 pm (Wednesday, April 6)

Engr. Dr. Patrick U. Akpan

Senior Lecturer – Department of Mechanical Engineering, University of Nigeria Senior Lecturer – Dept. of Mechatronics Engineering, University of Nigeria

Co-Founder/Partner - Comdalytics Nigeria Limited

A Natural Convective Passive Noise Control System for Mini-Generators

3:40 pm - 4:00 pm (Wednesday, April 6)

Dr. Ahad Ali

Associate Professor

Director of Bachelor of Science in Industrial Engineering

Director, Master of Science in Industrial Engineering

Director of Smart Manufacturing and Lean Systems Research Group
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering

Lawrence Technological University

Southfield, Michigan, USA

4:00 pm - 4:20 pm (Wednesday, April 6)

Saiful Siddique **Engineering Supervisor** High Voltage Charging System Stellantis Auburn Hills, USA

EV Charging: Challenges and Opportunities - INTEROPERABILITY CHARGING ANALYSIS

4:20 pm - 4:40 pm (Wednesday, April 6)

3:00 - 4:45, WEDNESDAY

SCM

Virtual Room 2

Session Chair: Daniel Lagamang, University of Johannesburg.

Supply Chain Decolonization: An Overview.

Department of Industrial Technology and Packaging, California Polytechnic State University, San Luis Obispo, CA 3407, USA.

Material Flow in Production Process and its Effect on Economic Sustainability. ID 159

Adrián Salvador Morales García, José Roberto Díaz Reza, Department of Electric Engineering and Computers Sciences, Autonomous University of Ciudad Juarez. Ciudad Juárez 32310 Chihuahua México

Jorge Luis García Alcaraz, Marcela Ivonne Delgado Armendáriz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juarez. Ciudad Juárez 32310, Chihuahua, México,

Cuauhtémoc Sánchez Ramírez, Division of Research and Postgraduate Studies, Tecnologico Nacional de México/Instituto Tecnologico de Orizaba, Orizaba 94320, Veracruz, Mexico.

ID 183 Design of a Risk-Based Vendor Selection Model in The Implementation of VMI in Retail Company.

Rischa Aninditha, Teuku Yuri M. Zagloel, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia.

Designing Supplier Partnership Success Factors in the Coal Mining Industry.

Ahmad Afif, Teuku Yuri M. Zagloel, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia.

Temperature Influence on the Structure of Vegetables in Cold Supply Chain Management

Siti Aishah Hadawiah Ahmad, Mohd Nizam Ab Rahman and Rizauddin Ramli, Department of Mechanical and Manufacturing Engineering, The National University of Malaysia, Selangor, Malaysia.

Ariff Azly Muhamed, Department of Business and Management, University Technology Mara, Selangor, Malaysia.

Hernadewita Hernadewita, Department of Industrial Engineering, Mercu Buana University, Indonesia.

Muhammad Zeeshan Rafique, Department of Mechanical Engineering, The University of Lahore, Punjab, Pakistan.

Supply chain Challenges encountered by Johannesburg Street vendors. ID 232

Daniel Lagamang, Talent Tatenda Chingono and C Mbohwa, Department of Quality and Operations Management, University of Johannesburg.

Developing Key Performance Indicators for Supply Chain Resilience in Indonesian Automotive Industry

Sela Diah Kenanga and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java.

3:00 - 4:45, WEDNESDAY

Engineering Education

Virtual Room 3

Session Chair: Celestine Nnaemeka Achebe, University of Johannesburg, South Africa.

Assessing the Design Principle and Policy of Production Management in Nigeria. Case Study: Packaging Company.

I. P. Okokpujie, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, 2028, South Africa.

A.O.M. Adeoye, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria.

E.T. Akinlabi, Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park Kingsway Campus, Directorate of Pan African Universities for Life and Earth Institute, PMB 20, Ibadan, Oyo State, Nigeria.

P. N. Opene-Odili, Oil and Gas industry, Energy Sector.

L. K. Tartibu, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, 2028, South Africa.

The Philosophy of Integrating Technical Vocational Educational and Training Ecosystem into the Dynamics of Industrial Engineering and Operational Management for Resilient and Sustainable Economic Development.

ID 94 University-Industry Linkages: The Gateway for Accelerating National Development in Africa.

Edmund Chijioke Okoroigwe, Department of Mechanical Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

Ikechukwu Samuel Agbasi, Cloud Infrastructure Engineering, Amazon Web Services, Virginia USA. Founder @ Nenture LLC - Cloud ML/Al Technologies, Illinois, USA. Florence Chizoba Okoroigwe, Natural Science Unit, School of General Studies, University of Nigeria Nsukka, Enugu State Nigeria. Chinyere N. Okoroigwe, Dept of Home Science and Management, University of Nigeria Nsukka, Enugu State Nigeria.

Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria **ID 141** Perspective

Celestine Nnaemeka Achebe and Paul Amechi Ozor, Department of Mechanical Engineering, University of Nigeria Nsukka, Department of Quality and Operations Management, University of Johannesburg, South Africa.

ID 169 Impact of Personal and Academic Factors on Outcome- Based Education of Third-Year Engineering Students in the University of Santo Tomas Delivered Through Full Online Modality.

Sophia Jayelle P. Dy, Alyanna Micayla T. Lascano, Joshua S. Salvador and Dioschwin N. Sumo, Faculty of Engineering, University of Santo Tomas, Manila, Philippines.

ID 291 Digital Education About Vaccination In Managing The Spread Of Covid-19 In Tawangrejo Village Communities Through Social Media Facebook.

Widowati, Master of Sociology, Sebelas Maret University, Surakarta, Indonesia.

Supriyadi, Department of Sociology, Sebelas Maret University, Surakarta, Indonesia.

Eva Agustinawati, Department of Sociology, Sebelas Maret University, Surakarta, Indonesia.

ID 302 School Environment and Student Discipline on Learning Outcomes through Learning Motivation at Technical implementation Unit (UPT) State Senior High School (SMAN) 22 Makassar.

Yuspianti, Mislia, Gunawan Bata Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

MisnawatiSekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia.

Alimin Alwi, Department of History Education, Halu Oleo University, Indonesia.

Burhan, Universitas Bosowa, Indonesia.

ID 331 The Influence of Bidikmisi Scholarships and Learning Environment on Learning Achievement through Student Motivation at Private College.

Nuryani, Akmal Umar, Nasruddin Nawawi, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Indonesia.

Muhammad Dedad Bisaraguna Akastangga, Universitas Nahdlatul Wathan Mataram.

Sukardi, Universitas Nahdlatul Wathan.

Putu Ari Suprapta Pratama, Fakultas Ilmu Budaya Universitas Udayana.

ID 342 The Effect of Education and Economic Ability on Elderly Care Through Health Services in the Durikumba Health Center Work Area, Karossa District, Central Mamuju Regency

Alphonsa Sampe, Rasyidin Abdullah, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia. Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 353 Smartphone-Assisted Language Learning: A Breakthrough for English Learning Autonomy Engineering Education

Santiana, Fera Sulastri, Asri Siti Fatimah, Abdul Gafur Marzuki, Saidna Zulfiqar Bin-Tahir, Andi Asrifan, English Education Department, Siliwangi University, West Java, Indonesia.

3:00 – 4:45, WEDNESDAY

Construction Management

Virtual Room 4

Session Chair: Ebunoluwa Akinrata, Bells University of Technology Ota, Nigeria

ID 33 Impact of variation orders on construction project cost and time

Ulunji Msiska and Nokulunga Mashwama University of Johannesburg, Faculty of Engineering and the Built Environment, Department of Construction Management and Quantity Surveying

Didibhuku Thwala, SARChI in Sustainable Construction Management and Leadership in the Built Environment, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 86 Eco-innovation in the Built Environment: A Bibliometric and Systematic Literature Review.

Motheo Meta Tjebane, Innocent Musonda and Adetayo Onososen, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg South Africa.

ID 150 Appraising the Factors Affecting Maintenance Management Practice of Academic Buildings in Public Tertiary Institutions in Lagos State, Nigeria Ebunoluwa Akinrata Bells University of Technology Ota Nigeria

ID 262 User Responses of Agricultural Product Applications in the Era of the Covid-19 Pandemic as Part of a Digital Community

Sociology Study Program, Faculty of Social Sciences and Humanities, State Islamic University Sunan Kalijaga, Yogyakarta, Indonesia.

ID 292 Technical Skills on Patient Satisfaction through Service Quality and Pharmacist Professionalism at The City and Lasepang Health Centers in Bantaeng District, Bantaeng Regency

Ihwana, Muhammad Yahya, Trimaya Cahya Mulat, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusep Mulyana, Universitas Pasundan, Bandung, Indonesia

ID 304 The Influence of Motivation and Competence on Health Care Quality and its Impact on Patient Satisfaction in Hospital Emergency Room (IGD) in Majene Regency

Tasniah, Mattalatta Mattalatta, Purnomo Purnomo, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Feby Triadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

3:00 - 4:45. WEDNESDAY

Project Management

Virtual Room 5

Session Chair: Edoghogho Ogbeifun, University of Johannesburg, South Africa

ID 446 Ameliorating the Effects of Time Overrun in the Execution of Capital Infrastructure Projects

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Jos, Nigeria Jan-Harm C Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 447 Improving on machine reliability and productivity through data analysis

Patrick Pasipatorwa, Postgraduate School of Engineering Management, Faculty of Engineering and Built Environment, University of Johannesburg, Johannesburg, South Africa

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Jos, Nigeria.

Jan-Harm C. Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 448 Conversion of Diesel and Petrol Engines to Biogas Engines as an Energy Transition Strategy

Moses Jeremiah Barasa Kabeyi, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

ID 449 Supply Preparation of Line Production through Capacity using Simulation Model in Garment Industry

Bagus Trilaksono, Industrial Engineering, Sebelas Maret University, Surakarta, Indonesia

Pringgo Widyo Laksono, Industrial Engineering, Sebelas Maret University, Surakarta, Indonesia

ID 462 Locations of the Automated External Defibrillators based on Emergency Disease Distribution in Prachinburi

Ornurai Sangsawang, Department of Industrial Management, Faculty of Industrial Technology and Management, King Mongkut's University of Technology North Bangkok, Prachinburi, Thailand

Sunarin Chanta, Department of Industrial Management, Faculty of Industrial Technology and Management, King Mongkut's University of Technology North Bangkok, Prachinburi, Thailand

ID 463 Clean and Healthy Public Toilet in Amenities Development in Surakarta Tourist Destinations

Argyo Demartoto, Siti Zunariyah and Sri Hilmi Pujihartati, Lecturer, Department of Sociology, Universitas Sebelas Maret, Central Java, Indonesia

April 7, 2022 (Thursday)

April 7, 2022 (Thursday) - Session: 6:00 - 7:45 am

6:00 - 7:45 am, THURSDAY

Global Business Management Education I

Virtual Room 1

Session Chair:

6:00 am - 6:20 am (Thursday, April 7)

6:20 am - 6:40 am (Thursday, April 7)

6:40 am - 7:00 am (Thursday, April 7)

7:00 am - 7:20 am (Thursday, April 7)

7:20 am - 7:40 am (Thursday, April 7)

6:00 - 7:45 am, THURSDAY

E-Business/E-Service

Virtual Room 2

Session Chair: Hamza Usman, Faculty of Environmental Technology, Abubakar Tafawa Balewa University, Bauchi, Nigeria

ID 5 Digital Marketing Strategies to Promote E-commerce: Evidence of SMEs Importing Cosmetics in Peru.

Karla Acuña-Salazar

Student in International Business and Management, Business Department, Universidad Privada del Norte, Lima, Perú.

Silvana Pacsi-Capche, Student in International Business and Management, Business Department, Universidad Privada del Norte, Lima, Perú.

Evelin Aragón-Grados, Master in Supply Chain Management, Bachelor in Administration and International Business, specialist director of the Administration and International Business career of the Business School, Universidad Privada del Norte, Lima, Perú.

Evelyn Rondon-Jara, Doctoral student in Educational Sciences, Master in Educational Management. Professor of the Department of Humanities, Universidad Privada del Norte. Lima. Perú.

ID 39 Technology Acceptance Model E-learning for Government.

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Prasetya Cahya S, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia.

Deny Jollyta, Institut Bisnis Dan Teknologi Pelita Indonesia.

Emi Suwarni, Universitas Teknokrat Indonesia.

ID 41 Mobile Learning with Augmented Reality to Reduce the Risk of Medical Malpractice

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Ade Lola Yorita Astri, Universitas Dinamika Bangsa Jambi.

Ade Fadli Fachrul, Stid Di Al Hikmah, Jakarta, Indonesia.

Sastya Hendri Wibowo, Informatics Engineering Study Program, Faculty of Engineering, University of Muhammadiyah Bengkulu, Indonesia.

Rofiq Noorman Haryadi, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia.

Rizky Maulana, Department of Economics, Faculty of Economics and Management, IPB University Bogor, Indonesia.

ID 43 Collaborative Learning with E-Learning for Higher Education: Conceptual Model.

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

Rozali Toyib, Universitas Muhammadiyah, Bengkulu, Indonesia.

Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia 11480.

Rajiv Dharma Mangruwa, Communication and Business-Telkom University, Bandung, Indonesia

Azman Hashim International Business School – University of Technology Malaysia, Malaysia.

Indra Kusumadi Hartono, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

ID 172 The Influence of Social Commerce Construct on Consumer Trust ond Purchase Intention (Study on Shopee E-Commerce Users in Indonesia).

Elysabeth, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

Nurafni Rubiyanti, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

ID 178 Analysis of Customer Satisfaction with NPS of Fresh Products E-Commerce Company in Indonesia.

Zulfaa Irbah Zain, Novandra Rhezza Pratama, Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Kampus Baru Ul Depok, Depok 16424,

ID 380 Social Media Exposure, Intention Antecedents and Fake News Sharing Behaviour in Abu Dhabi, UAE

Ahmed Hamad Almansoori and Mohd Lizam, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia. Hamza Usman, Faculty of Environmental Technology, Abubakar Tafawa Balewa University, Bauchi, Nigeria.

 ID 502 User Satisfaction Analysis of E-Learning Using End User Computing Satisfaction in Covid 19
 Stedico Anderjovi, Department of Information System, Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia Muhammad Luthfi Hamzah, Department of Information System, Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia Idria Maita, Department of Information System, State Islamic University of Sultan Syarif Kasim Riau, Pekanbaru, Indonesia Tengku Khairil Ahsyar, Lecturer, Department of Information System, Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia

6:00 - 7:45 am, THURSDAY

Industry 4.0

Virtual Room 3

Session Chair: Siti Aminah Kusin, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia

ID 117 Development of locally made 3D printers from electrical/electronic waste materials in Nigeria - An overview

Paul Ozor, epartment of Mechanical Engineering University of Nigeria Nsukka, Nigeria

Esther T. Akinlabi, Department of Mechanical Engineering Sciences, University of Johannesburg, Pan-African University of Life and Earth Sciences, University of Ibadan,

Anyaoha C., Department of Mechanical Engineering University of Nigeria Nsukka.

Oluah C.K., Department of Mechanical Engineering University of Nigeria Nsukka, Department of Mechanical Engineering Sciences, University of Johannesburg. Ononiwu N.H., Department of Mechanical Engineering University of Nigeria Nsukka, Department of Mechanical Engineering Sciences, University of Johannesburg. Anuta U. J., Department of Mechanical Engineering University of Nigeria Nsukka

Business Process Reengineering and IOT Selection in Raw Materials Receiving Process in Paper Processing Company.

Muhammad Fauzan, Novandra Rhezza Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia

Time Reduction of Oxyhydrogen Carbon Clean Process at Automobile Workshop in Indonesia Using Business Process Reengineering.

Davis Belmiro Satria, Novandra Rhezza Pratama, M. Dachyar, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

Review of Acoustics Technology for Cleaning at Industries

T. Mafokwane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

Ecosystem for 4th Industrial revolution to accelerate Sustainable goals in South African context: A conceptual framework

C. D. Diale, Department of Psychology, Industrial psychology unit, Rhodes University, Grahamstown, South Africa

M.G. Kanakana-Katumba, Department of Mechanical and Industrial Engineering, Tshwane University of Technology, Tshwane, South Africa

R. W. Maladzhi, Department of Mechanical and Industrial Engineering, University of South Africa, Johannesburg, South Africa

H. Von der Ohe, Department of Mechanical and Industrial Engineering, University of South Africa, Johannesburg, South Africa

The Use of E-Governance in Developing Countries: A Case of South Africa during the COVID-19 Pandemic ID 145

Lerato Mofokeng, DSI/NRF/Newton Fund Transformative Innovation, Fourth Industrial Revolution and Sustainable Development, University of Johannesburg, Johannesburg, RSA

Incorporation of Artificial Intelligence in Eradicating HIV Aids and Cancer

Tanyaradzwa Allan Machakaire, Tatenda Chingono and Charles Mbohwa

The Relationship Between Instructional Leadership Style and School Performance Excellence Among Primary Schools in Johor

Siti Aminah Kusin, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia Umi Kartini Rashid, Ph.D., Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia

6:00 - 7:45 am, THURSDAY

Business Management

Virtual Room 4

Session Chair: Nur Fauzia, Universitas Negeri Surabaya, Indonesia

ID 307 Compensation and Supervision on Job Satisfaction through Work Discipline of Regional Contract Workers at the Regional General Hospital of Central Mamuju Regency

Setyo Bero, Hasmin Tamsah, Purnomo Purnomo, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

Armin Anwar, Postdoctoral Program, Universitas Muslim Indonesia, Makassar, Indonesia

ID 310 Employee Competence and Innovation on Employee Performance through Compensation Scope of Development Planning Agency at Sub-National Level Bulukumba Regency

Hafsah, Nasruddin Nawawi, Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

M Awaluddin A, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

The Influence of Human Resource Management and the Work Environment on Employee Performance through the Quality of Human Resources at the Regional Secretariat of Bantaeng Regency

Swasti Indasari, Budiman Haruna, Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Zakir Muhammad, Sekolah Tinggi Ilmu Ekonomi Panca Bhakti, Palu, Indonesia.

ID 326 The Effect of Training and Competence, Work Discipline on Improving the Performance of State Civil Apparatus at the Regional Secretariat of Jeneponto Regency

Heriadi, Buyung Romadhoni, Gunawan Bata Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Gustika Sandra, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia.

ID 330 The Influence of Human Resources Competence and Compensation on Job Satisfaction Through Excellent Service at Lagaligo Hospital I in East Luwu Regency

Jamal, Rasyidin Abdullah, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

Dewi Mayangsari, Trunojoyo University, Madura, Indonesia

Yunanfathur Rahman, Universitas Negeri Surabaya, Surabaya, Indonesia

Diana Budi Darma, Universitas Negeri Surabaya

ID 332 The Effect of Training and Motivation on Job Satisfaction Through Employee Self-Efficacy at the Regional Secretariat of Bantaeng Regency

Hj. Sri Ummiaty, Mattalatta Mattalatta, Hasmin Tamsah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia Rahayu Kuswardani, Fithriyah Inda Nur Abida, Nur Fauzia, Universitas Negeri Surabaya, Indonesia

Transpar Ruowardam, Filmiyan maa ruu Fibraa, Fiar Fadela, Omvolokao Rogen Gurabaya, maan

ID 335 Incentives and Work Ability on Job Satisfaction through Performance

Kasrul, Ansar, and Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia

Gustia Harini, Universitas PGRI Sumatera Barat, Indonesia

Gabriel Fredi Daar, Universitas Katolik Indonesia Santu Paulus Ruteng, Indonesia

Ni Made Ayu Sulasmini, Bisnis Digital Institut Pariwisata dan Bisnis Internasional, Indonesia

6:00 - 7:45 am, THURSDAY

Case Studies

Virtual Room 5

Session Chair: Momy Hunowu, Universitas Islam Sultan Amai Gorontalo, Indonesia

ID 493 The Effect of Job Stress, Workload, Leadership Style, and the Organizational Environment on the Intention to Quit Working

Aulya Junanda Dahlan and Prama Hayuletra, Postgraduate Student of Business Management Program, Management Department, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia

Rini Setiowati, Dean of Master Program, Management Department, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia

ID 495 A Study of LNG as Fuel for Vehicles- A Review

M. B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, INDIA

ID 456 Strategies for Utilizing Instagram as a Digital Marketing Communication Media in Samudera Kuphi Medan Coffeeshop

Abdul Haris and Effiati Juliana Hasibuan, Communication Science Department, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia

Siti Hawa Lubis, Magister Psychology, Universitas Medan Area, North Sumatera, Indonesia

Hasrat Effendi Samosir, Da'wah and Communication Faculty, Universitas Islam Negeri Sumatera Utara, Universitas Medan Area, North Sumatera, Indonesia

ID 457 Policies, Roles and Relationships between Village Government and Community in Tourism Management in Situngkir Village, Pangururan District, Toba Samosir Regency, North Sumatra, Indonesia

Agung Suharyanto, Bebby Masitho Batubara and Adam, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, Indonesia

Armansyah Matondang & Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera. Indonesia

M. Citra Ramadhan & Anggreni Atmei Lubis, Faculty of Law, Universitas Medan Area, North Sumatera, Indonesia

ID 458 How Media Sees the Brawl between Residents in Belawan, North Sumatra, Indonesia (Case Study)

Dedi Sahputra & Rehia Isabella Karenina Barus, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Bahrum Jamil, Indra Muda and Nina Angelia, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Niarita Bukit, Management Department, Faculty of Economic, Universitas Sisingamangaraja XII Tapanuli, North Sumatera, Indonesia

Agus Mulia, Regional Agency for Language in North Sumatra Province, Agency for Language Development and Cultivation, Ministry of Education, Culture, Research and Technology, North Sumatera, Indonesia

ID 459 Revisiting Indonesian Youth Nationalism in the Indonesia-Malaysia Borderland

Addin Kurnia Putri, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia Ignatius Agung Satyawan, Department of International Relations, Universitas Sebelas Maret, Surakarta, Indonesia

ID 461 MOPO'A HUTA RITUAL: The Resistance of Maize Peasants toward Agropolitan Program

Momy A. Hunowu, Department of Sociology, State Islamic University of Sultan Amai, Gorontalo, Indonesia

Munsi Lampe, Nurul Ilmi Idrus, Safriadi, Departement of Anthropology, Hassanuddin University, Makassar, Indonesia

April 7, 2022 (Thursday) - Session: 8:00 - 9:45 am

8:00 - 9:45 am, THURSDAY

Global SCM I

Virtual Room 1

Session Chair: Session Chair: Ms. Sebonkile Thaba, University of Johannesburg, South Africa

8:00 am - 8:20 am (Thursday, April 7)

Dr. Thobile Yvonne Bhila Programme Manager School of Management University of Johannesburg South Africa

8:20 am - 8:40 am (Thursday, April 7)

Abdul Sattar Safaei, PhD Associate Professor, Sustainable Supply Chain, Founder of Infinite Booster Babol Noshirvani University of Technology

8:40 - 9:00 am, Thursday, April 7

Ilkay Boduroglu, Ph.D. CEO + Director of R&D Riskoptima Istanbul, Turkey

9:00 - 9:20 am, Thursday, April 7

Naill AlMomani Ph.D. P.E. | CBCI | TQC Professor and Consultant Dubai Police Academy Dubai, United Arab Emirates

9:20 am - 9:40 am (Thursday, April 7)

Ms Sebonkile Thaba Lecturer Department of Transport and Supply Chain Management University of Johannesburg South Africa

Title: Social Economy Value Chain in Agro-processing Sector: The Case of Emerging Argo-processors and Small-Scale Farmers.

8:00 - 9:45 am, THURSDAY

Data Analytics and OSH

Virtual Room 2

Session Chair: Mary Jane C. Samonte, School of Information Technology, Mapúa University

Productivity Prediction of Sea Water Reverse Osmosis Desalination Plant Using Robust Regression.

Ahmed S. Sabry, Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology, and Maritime

Yehia M. Youssef, Department of Chemical and Petrochemical Engineering, College of Engineering and Technology, Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt.

Khaled S. El-Kilany, Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt.

ID 122 Prediction of Pneumonic Oxygenation in a PID-embedded Electro-pneumatic Pressure-Controlled Ventilator Device.

Olubunmi Ige, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.

Adedotun Adetunla, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.

Samuel Amudipe, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.

Highlighting the Challenges of Big Data Analytics Implementation in Mainstream Industries.

Mary Jane C. Samonte, School of Information Technology, Mapúa University.

Johndale Alfred A. Julian, School of Information Technology, Mapúa University, School of Management and Information Technology, De La Salle-College of Saint Benilde

Implementation of Data Science and Decision Analysis to Determine Shale Gas Sweet Spot Interval.

Muhamad Aditya, Andri D. Setiawan, Armand O. Moeis, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Depok 16424, Indonesia.

The Effect of Exercise Habits and Low-salt Diet on Blood Pressure Control and Its Impact on The Quality of Life of Hypertensive Patients.

Rahmawati, Rasjidin Abdullah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

Gazali Salim, Universitas Borneo, Tarakan, Indonesia.

Nina Siti Salmaniah Siregar, Communication Science Study Program, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia. Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.

Factors Influencing the Incidence of Low Birth Weight During the Pandemic at General Hospital West Pasaman

Detty Afriyanti S, Midwifery Study Program Applied Bachelor Program and Midwifery Profession Faculty of Health Fort De Kock University Bukittinggi City West Sumatra Indonesia

8:00 - 9:45 am, THURSDAY

IoT

Virtual Room 3

Session Chair: Adrian B. Alfonso, School of Information Technology, Mapua University, Philippines.

ID 40 Integration Model Social Learning and Learning Management System for SMEs.

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia.

Maisyarah Rahmi Hasan, Islamic Economic Law Department, Faculty of Sharia, Universitas Islam Negeri Sultan Aji Muhammad Idris Samarinda.

Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia.

Deny Jollyta, Institut Bisnis Dan Teknologi Pelita Indonesia

Siti Élda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

Smart City Dimensions, E-Service Quality and Public Satisfaction in UAE: A Confirmatory Factor Analysis.

Hamdan Alrashdi and Mohd Lizam, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia. Hamza Usman, Faculty of Environmental Technology, Abubakar Tafawa Balewa University, Bauchi, Nigeria.

Knowledge Management System Model for SMEs Community.

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480. Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia.

Rozali Toyib, Universitas Muhammadiyah, Bengkulu, Indonesia.

Gustientiedina, Institut Bisnis dan Teknologi Pelita Indonesia.

Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia 11480.

Hendra Alianto, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

Urban Garden Watering System Through Internet-of-Things.

Mary Jane C. Samonte, Doctor of Information Technology, Faculty Member of School of Information Technology, Mapua University, Makati City, Philippines.

Galo Harold F. Galleguez, School of Information Technology, Mapua University, Makati City, Philippines.

Francis Jerome A. Garcia, School of Information Technology, Mapua University, Makati City, Philippines.

Migfred O. Gulle, School of Information Technology, Mapua University, Makati City, Philippines.

TAOAID: Pedestrian Assistance Using Car Motion Detection System.

Gerardine Anne J. Anson, School of Information Technology, Mapua University, Philippines. Kiel Cedrick T. Huplo, School of Information Technology, Mapua University, Philippines. Mark Anthony V. Marin, School of Information Technology, Mapua University, Philippines. James Andrei C. Rivera, School of Information Technology, Mapua University, Philippines. Mark Vincent M. Pinili, School of Information Technology, Mapua University, Philippines. Dr. Eric B. Blancaflor, School of Information Technology, Mapua University, Philippines.

IoT Based Cubicle Occupancy Indicator for Public Toilets

Adrian B. Alfonso, School of Information Technology, Mapua University, Philippines. Rainier C. Atizado, School of Information Technology, Mapua University, Philippines. Angela Mae V. Encinas, School of Information Technology, Mapua University, Philippines. Deanne Marie Nivera, School of Information Technology, Mapua University, Philippines Leanne Kirsten G. Samala, School of Information Technology, Mapua University, Philippines. Dr. Eric Blancaflor, School of Information Technology, Mapua University, Philippines

Concept Development of a Vibration Sensor for Industrial Boilers. ID 251

T. Mafokwane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa. D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa. L. J. Tartibu, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

8:00 - 9:45 am, THURSDAY

Business Management

Virtual Room 4

Session Chair: Miguel Antonio Gamarra-Miranda, Faculty of Business, Universidad Privada del Norte, Lima, Peru.

The Influence of Professionalism, Competence on Employee Performance Through Education & Training (DIKLAT) in Class I Correctional Center (BAPAS) Makassar.

Agusman, Partono Sumaryo, Nur Naninsih, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

M Chairul Basrun Umanailo, Universitas Igra Buru.

ID 344 The Effect of Training and Incentives on Employee Performance Through Work Productivity at the Public Health Center in Bissapu Sub-district, Bantaeng Regency.

Vanty Rosanty Djabbar, Nasruddin Nawawi, Hasmin Tamsah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia. Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 347 Analysis of Training and Development on Performance Through Professionalism and Hard Skill Competence for Civil service Police Unit in Jeneponto Regency

Suharnawan, Gunawan B. Ilyas, Syafri Arief, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia. Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

The Effect of Regional Original Income (PAD), Balancing Funds on Economic Growth through the Human Development Index (IPM) in Central ID 348 Mamuju Regency

Ahmad Sukri, Baharuddin Baharuddin, and Mansur Azis, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia. Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

HR Competence as a Link to the Effect of Strategic Planning on Company Performance.

Wardayani Wardayani, Azhar Maksum, Erlina Erlina and Rina Bukit, Faculty of Economy and Businness, Universitas Sumatera Utara, Medan, Indonesia. Wardayani Wardayani, Department of Management, Sekolah Tinggi Ilmu Manajamen Sukma, Medan, Indonesia.

An Analysis of The Crispy Mushroom Business for Small and Medium-Sized Enterprises (SMEs) In Indonesia.

Ahmad Efendi, Muhammad Rizki, Fitriani Surayya Lubis, Muhammad Isnaini Hadiyul Umam, Ismu Kusumanto, Lianny, Industrial Engineering, Faculty Of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia.

Relationship between Service Quality and Customer Satisfaction in Restaurants in Los Olivos, Peru.

Miguel Antonio Gamarra-Miranda, Faculty of Business, Universidad Privada del Norte, Lima, Peru.

Johisi Rojas-Chávez, Faculty of Business, Universidad Privada del Norte, Lima, Peru.

Ralphi Jauregui-Arroyo, Faculty of Business, Universidad Peruana de Ciencias Aplicadas, Lima, Peru.

Evelyn Rondon-Jara, Department of Humanities, Universidad Privada del Norte, Lima, Peru.

8:00 - 9:45 am, THURSDAY

Decision Support System

Virtual Room 5

Session Chair: Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia

Study of Air in a Vehicle Brake System with Ward's Clustering Method.

Weerachai Khamwiangsa, Department of Industrial Engineering, School of engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand. Associate Professor Sakon Klongboonjit, Ph.D., Department of Industrial Engineering, School of engineering, King Mongkut's Institute of Technology Ladkrabang,

ID 298 The Influence of Democratic Leadership Style on Organizational Culture and Motivation and Its Effects on Employee Performance in the **Government of Bantaeng Regency**

Yusrina Restuwati, Andi Rasyid Pananrangi, Baharuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia. Eka Suaib, Department of Political Science, Universitas Halu Oleo, Indonesia.

Dian Trianita Lestari, Department of Communication Science, Universitas Halu Oleo, Indonesia.

Hasruddin Nur, Department of Sociology University Sawerigading, Indonesia.

Improvement of Employee Performance at One Stop Administration Services (SAMSAT) Office in Takalar Regency Through Leadership and ID 300 **Employee Training and Motivation as Mediation Variable**

Nasrullah, Baharuddin, Abdul Latief R, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Masriadi Patu, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

Professionalism Analysis of the Discipline and Performance of Police Officers at Polres Jenesponto

Bakri, Muhammad Aswar, Ansar, Syafri Arief, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

ID 317 Leadership Style and Organizational Culture on Employee Performance Through Motivation in PT. Angkasa Pura 1 Unit Airport Rescue and Fire Fighting Sultan Hasanuddin Maros International Airport

Farid Mampawa, Hasmin Tamsah, Baharudin Baharudin, Umar Syarifuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Rahman, Department of Public Administration, Halu Oleo University, Indonesia.

Gunawan, Department of State Administration, Halu Oleo University, Indonesia.

ID 322 Analysis of Transformational Leadership on Civil Servant Performance through Public Service Motivation and Human Resources Capacity (Study at the Office of the Ministry of Religion, Bulukumba Regency)

Immawan Wahyudi Asbara, Umi Farida, Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Budi Pramono, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

Muhammad Nasir, Department of Political Science, Halu Oleo University, Indonesia.

ID 324 Analysis of Electronic Procurement of Goods and Services in Central Mamuju Regency Government.

Muhammad Aswar, Ansar, Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia.

ID 328 The Role of Bureaucracy and Implementation of Educational Policies on Organizational Performance Through Service Quality.

Deona Glory Tandiawa, Akmal Umar, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

Ni Luh Supartini, Bisnis Digital Institut Pariwisata dan Bisnis Internasional

Agung Suharyanto and Beby Mashito Batubara, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

April 7, 2022 (Thursday) - Session: 10:00 - 11:45 am

10:00 - 11:45, THURSDAY

Global Business Management Education II

Virtual Room 1

Session Chair: Vincent Onodugo, University of Nigeria, Enugu Campus

10:00 am - 10:20 am (Thursday, April 7)

Mr. Lawrance Seseni Lecturer College of Business and Economics University of Johannesburg South Africa

10:20 am - 10:40 am (Thursday, April 7)

Dr. Bambang Hengky Rainanto, SPi, MM, CSM, CHRP Head of the Department of Tourism Institute of Business and Informatics of Kesatuan, Bogor – Indonesia

Green Marketing Mix as a mediator of environmental factors to create Sustainable Industry Performance in the Hotel Industry

10:40 am - 11:00 am (Thursday, April 7)

ID 53 Thinking online assessments to uphold quality and academic integrity-Lessons from Covid-19 Pandemic

Obianuju. E. Okeke-Uzodike, Faculty of Management Sciences, Department of Applied Management, Durban University of Technology, Riverside Campus, Pietermaritzburg, KwaZulu-Natal, South Africa.

11:00 am - 11:20 am (Thursday, April 7)

11:20 am - 11:40 am (Thursday, April 7)

Prof. Vincent Onodugo, PhD, FCAI, FIIA, FNIM Professor of Management Dean, Faculty of Business Administration University of Nigeria, Enugu Campus Nigeria

10:00 - 11:45, THURSDAY

Construction Management

Virtual Room 2

Session Chair: Professor Nita Sukdeo Ph.D., Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 338 The Effect of Interpersonal Communication on Performance Through Work Teams and Organizational Commitments of the Office of Education and Culture in Bantaeng Regency

Ismail, Mislia, Nur Naninsih, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

Syafrizaldi, Faculty of Psychology, Universitas Medan Area, North Sumatera, Indonesia.

ID 339 Analysis of Green Marketing and Hotel Atmosphere on Purchase Decisions Through Customer Purchase Interest at Risata Bali Resort & SPA Tuban Bal

Fahrizal Ardianto, Nur Naninsih, Hasniaty, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Saiful Irfan, Politeknik Pelayaran Surabaya, Indonesia.

M Chairul Basrun Umanailo, Universitas Igra Buru.

ID 340 Work Capability with Organizational Culture and Time Management on State Civil Apparatus Performance at the Community and Village Empowerment Service of South Sulawesi Province

Ramlan, Hendra Gunawan, Buyung Romadhoni, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.

M Chairul Basrun Umanailo, Universitas Iqra Buru

ID 341 Work Discipline and Job Promotion on Employee Performance through Motivation of PT Saptasaritama Makassar.

Suherman, Baharuddin Baharuddin, Andi Tenri Fitriyah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 413 Outsourcing as a tool to improve management in the construction industry.

Victor Molilo, Department of Quantity Surveying and Construction Management, University of Johannesburg, Johannesburg, South Africa.

Professor Clinton Aigbavboa Ph.D., Department of Quantity surveying and Construction Management, University of Johannesburg, Johannesburg, South Africa.

Ifije Ohiomah Ph.D., Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa.

Professor Nita Sukdeo Ph.D., Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

10:00 - 11:45, THURSDAY

Industry 4.0 in African Context

Virtual Room 3

Session Chair: Samuel Olufemi Amudipe, Department of Mechanical and Mechatronic Engineering, Afe Babalola University, Ado, Nigeria.

ID 3 Making Africa 4.0: Barrier of Implementing Industry 4.0 in Africa.

Adedotun Adetunla, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado, Nigeria.

Esther Akinlabi, Pan African University of Life and Earth Science Institute, Ibadan, Nigeria.

Omolayo Ikumapayi, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado, Nigeria. Bernard Adaramola, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado, Nigeria.

Gbenga Adetunla, Department of Library and Information Study, Ekiti State University, Ado, Nigeria.

ID 15 The Impact of Industry 4.0 on the Workforce Within a Business Banking: Projects and Operations Environment.

Jared Lee Subramanien, School of Mechanical, Industrial and Aeronautical Engineering, University of the Witwatersrand, Johannesburg, South Africa. Bernadette Sunjka, School of Mechanical & Industrial Engineering, University of Witwatersrand, Johannesburg, South Africa.

ID 17 Commercial Segment Competitiveness in a Market Disrupted by Digital Banks in South Africa.

Lebohang Tshabalala, School of Mechanical & Industrial Engineering, University of the Witwatersrand, Johannesburg, South Africa.

Bernadette Sunjka, School of Mechanical & Industrial Engineering, University of Witwatersrand, Johannesburg, South Africa.

ID 49 Challenges and Obstacles facing African cities to implement smart cities programs: Perspectives from African Local Government Practitioners in the City of Tshwane, South Africa

Tlou Phillemon Mathane, Masters Student, University of Johannesburg, South Africa.

ID 119 Making Africa 4.0: Possible Impact of Implementing Industry 4.0.

Adedotun Adetunla, Department of Quality and Operations Management, University of Johannesburg, South Africa.

Nelson Madonsela, Department of Quality and Operations Management, University of Johannesburg, South Africa.

ID 388 Utilization of Internet of Things in Food Supply Chain – A Case study in a developing country in Africa

Ahmed Mehrem, Department of Engineering, University of Duisburg Essen University, Duisburg, Germany

ID 002 Prediction of Pneumonic Oxygenation in a PID-embedded Electro-pneumatic Pressure-Controlled Ventilator Device.

Ebenezer Olubunmi Ige, Department of Mechanical and Mechatronic Engineering, Department of Biomedical Engineering, Afe Babalola University, Ado, Nigeria Adedotun Olanrewaju Adetunla, Department of Mechanical and Mechatronic Engineering, Afe Babalola University, Ado, Nigeria.

Samuel Olufemi Amudipe, Department of Mechanical and Mechatronic Engineering, Afe Babalola University, Ado, Nigeria.

10:00 - 11:45, THURSDAY

Case Studies

Virtual Room 4

Session Chair: Abdul Rahim Anuar, Institute for Indonesia, Thailand and Singapore (UUMITS), Universiti Utara Malaysia, Kedah, Malaysia.

ID 276 Political Alms: Patronage Practices In The 2019 Legislative Election In South Sumatra

Ridhah Taqwa, Department of Sociology, University of Sriwijaya, Palembang Indonesia.

Zulfikri Suleman, Department of International Relations, University of Sriwijaya, Palembang Indonesia.

ID 279 Revisiting Indonesian Youth Nationalism in the Indonesia-Malaysia Borderland.

Addin Kurnia Putri, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia.

Ignatius Agung Satyawan, Department of International Relations, Universitas Sebelas Maret, Surakarta, Indonesia.

ID 280 The Role Of Religious Leaders In HIV / AIDS Prevention And Management In Malang City

Titi Fitrianita, Ucca Arawindha, Department of Sociology, Faculty of Social and Political Sciences, Universitas Brawijaya, Malang, Indonesia.

ID 281 Transnationalism of Sebatik Island Malaysia-Indonesia: A Regional Economic Integration Perspective.

Sandy Nur Ikfal Raharjo, Research Center for Politics, National Research and Innovation Agency (BRIN), Jakarta, Indonesia.

Abdul Rahim Anuar, Institute for Indonesia, Thailand and Singapore (UUMITS), Universiti Utara Malaysia, Kedah, Malaysia.

ID 286 The Resilience of The Tablighi Jamaat During the Covid-19 Period

Pardamean Daulay, Department of Sociology, Faculty of Law, Social Science, and Politics, Open University, Jln. Cabe Raya, Banten 15418, Indonesia.

Nur Afni Khafsoh, Department of Sociology of Religion, Faculty of Ushuluddin and Islamic Thought, UIN Sunan Kalijaga Yogyakarta, Jl. Laksda Adisucipto, Papringan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281, Indonesia.

ID 288 The Conflict in the Iron Sand Mining Construction in Yogyakarta (A Study of the Society's Social Movement Against the Iron Sand Mining Construction Project)

Muhammad Alhada Fuadilah Habib, Faculty of Economy and Islamic Business, Universitas Islam Negeri Sayyid Ali Rahmatullah Tulungagung.

Asik Putri Ayusari Ratnaningsih, Faculty of Humanities, Universitas Airlangga Surabaya. Mukhammad Fatkhullah, PT Kilang Pertamina Internasional Unit Dumai.

Siti Muslihatul Mukaromah, Madrasah Aliyah Negeri 7 Jombang.

Ella Erliyana, STIAMAK Barunawati Surabaya.

ID 289 Challenges of Party Autonomy to Party Institutionalization: A Case of Internal Party Conflict

Ridho Imawan Hanafi, Mouliza K. Donna Sweinstani, Esty Ekawati, Research Center for Politic-National Research and Innovation Agency, Jakarta, Indonesia

ID 565 Wind Energy in Saudi Arabia Opportunities and Challenges

Sadeem Alkinani, Omnia Alghazi and Rawan K. Asfour, Master of Energy Engineering Student, Effat University, Jeddah, Saudi Arabia
Tayeb Brahimi, Energy and Technology Research Centre, Natural Science, Natural Science, Mathematics and Technology Unit, College of Engineering, Effat University,
Jeddah, Saudi Arabia

10:00 - 11:45, THURSDAY

Waste Management and Cilmate

Virtual Room 5

Session Chair: U.U. Udokpoh, Department of Civil Engineering, Akwa Ibom State University, Ikot Akpaden, Akwa Ibom State, Nigeria.

ID 55 Selection of Digital Technology and Transportation Routes in Waste Management Services by PT. Wasteforchange Alam Indonesia Indesta Aulia Hendra Putri, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia.

ID 87 Sawdust Waste Management in Enugu Timber Market.

C.C. Nnaji, Department of Civil Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria., Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

U.U. Udokpoh, Department of Civil Engineering, Akwa Ibom State University, Ikot Akpaden, Akwa Ibom State, Nigeria.

ID 92 Evaluation of the strength properties of concrete made with recycled PET fiber

ID 149 Estimates and Factors Influencing Willingness to Pay for Extended Producer Responsibility in Plastic Waste Management

Aziati Ridha Khairi, Farizal and M. Dachyar, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

ID 198 Development Model Design of Cattle Waste Biodigester Installation in Bukittinggi City.

Lailatul Fadhilla Rahmi and Djoko Sihono Gabriel, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

ID 209 Techniques of Agro wastes Materials as Viable Adsorbents - A Review

Sunday A. Afolalu, Omolayo M. Ikumapayi, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria.

Temitayo S. Ogedengbe, Department of Mechanical Engineering, Elizade University, Ilara-Mokin, Ondo State, Nigeria.

Adebayo T. Ogundipe, Directorate of information Communication Technology, Afe Babalola University, Ado Ekiti, Nigeria

ID 143 Forecast of Indonesia's Future Carbon Emission using STIRPAT-ARIMA Model

Nathaniel Viandy Dondokambey, Farizal, Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia.

ID 147 Strategy to Reduce the Carbon Footprint of An Oil Palm Agri-Industry Company Using the Organizational Life Cycle Assessment Method Trisha Amanda, Farizal and M. Dachyar, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

ID 427 Effect of Green Supply Chain Management on Organisational Performance of Selected Manufacturing Firms in Nigeria

Babalola Haorayau Bolaji 1,4, Mohd Kamarul Irwan Abdul Rahim2, Salmah Omar3

1,2,3 School of Technology Management and Logistics, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, MALAYSIA.

2Institute for Management and Business Research (IMBRe), Level 2, Tunku Puteri Intan Safinaz School of Accountancy (TISSA) Building, Universiti Utara Malaysia UUM Sintok, Kedah, MALAYSIA.

4College of Management and Social Sciences, Osun State University, Osogbo, NIGERIA.

April 7, 2022 (Thursday) - Session: 12:00 - 2:30 pm

Keynote Speakers

12:00 - 12:30 pm Keynote XI:

Prof. Elizabeth S. Bosire Abenga

Director

Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS)
Yaounde, Cameroon

12:30 – 1:00 pm Keynote XI:

Prof Keith Carter

Honorary Professor University of Leicester United Kingdom

1:00 – 1:30 pm Keynote XIII:

Engr. Dr Izuchukwu F. Okafor

Director

National Centre for Energy Research and Development

University of Nigeria Nsukka, Nigeria

1:30 – 2:00 pm Keynote XIV:

Engr Felicia Nnenna Aguabata, PhD. FNSE, ACIArb

Nigeria Airspace Management Agency Murtala Muhammed International Airport Ikeja, Lagos, Nigeria

2:00 - 2:30 pm Keynote XV:

Engr Dr. Mrs. Edith Y. Ishidi

Director of Research, Business Development, Consultancy and Collaboration Sheda Science and Technology Complex Federal Ministry of Science, Technology and Innovation Abuja, Nigeria

April 7, 2022 (Thursday) - Session: 2:30 - 4:00 pm

2:30 - 4:00, THURSDAY

Global Supply Chain and Logistics II

Virtual Room 1

Session Chair: Dr. Ratri Parida

2:30 - 2:50 pm (Thursday)

Dr. Ratri Parida Associate Professor IMT Ghaziabad, India Visiting Research Fellow Guildhall School of Business and Law (GSBL) London Metropolitan University London, UK

Topic: Supply Chain Finance: Insights and Research Opportunities

2:50 - 3:10 pm (Thursday)

Abdul Sattar Safaei, PhD Associate Professor, Sustainable Supply Chain, Founder of Infinite Booster Babol Noshirvani University of Technology Iran

3:10 - 3:30 pm (Thursday)

Hallen-by Guitemberg Lamarque Conference Co-Chair

Assistant Professor, Infoworld University, Port-au-Prince, Haiti

Master in Agribusiness Management Student at Rome Business School

Hallen-by Guitemberg LAMARQUE, Engineer-Agronomist with specialization in Crop Production. Master's student in Agribusiness Management and Assistant Professor.

3:30 - 3:50 pm (Thursday)

Dr. M S Uppin Professor and Head Department, Industrial & Production Engineering P.D.A.College of Engineering, Kalaburagi India

Global Supply Chain and Logistics Management

2:30 - 4:00, THURSDAY

Design and Planning

Virtual Room 2

Session Chair: Oluwayemisi Abisuga, Centre for Rapid Prototyping and Manufacturing, Central University of Technology, Bloemfontein, South Africa.

ID 44 Concrete Trial Mix Design for Evaluation of Concrete Grade: Implication in Construction Industry

Akinwamide Joshua Tunbosun and Akinwamide Oluwayinka Glory, Department of Civil Engineering, School of Engineering, The Federal Polytechnic, Ado Ekiti, Ekiti State, Nigeria.

Abioye Adekunle Oluyede, Ogidi Mayowa Ayodele, and Osanyinlokun Oluwatoyin Eugene, Department of Civil Engineering, School of Engineering, College of Technology, Bamidele Olumilua University of Education, Science and Technology, Ikere -Ekiti, Ekiti-State, Nigeria.

Concrete Trial Mix Design for Evaluation of Concrete Grade: Implication in Construction Industry.

Akinwamide Joshua Tunbosun and Akinwamide Oluwayinka Glory, Department of Civil Engineering, School of Engineering, The Federal Polytechnic, Ado Ekiti, Ekiti

Abioye Adekunle Oluyede, Ogidi Mayowa Ayodele, and Osanyinlokun Oluwatoyin Eugene, Department of Civil Engineering, School of Engineering, College of Technology, Bamidele Olumilua University of Education, Science and Technology, Ikere -Ekiti, Ekiti-State, Nigeria.

ID 121 Aerodynamic Behavior of an Ornithopter Capable of a Sustained and Controlled Flight.

Bernard Adaramola, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria. Adedotun Adetunla, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria. Adeyinka Adeoye, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.

Integrated Location and Technician Routing Problem with Profits Modeling for Managed Service Provider.

Rahadyas Bharata Widyandaru, Department Of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.

Niniet Indah Arvitrida, Ph. D, Head of LSCM Laboratory, Department of Industrial And Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia. Ahmad Rusdiansyah, Ph. D, Associate Professor in the Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.

Development of Business Process Model for Drone Regulation and Improvement in South Africa.

Quintin Mokoena 1 llesanmi Daniyan, 1 Khumbulani Mpofu and Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa. Oluwayemisi Abisuga, Centre for Rapid Prototyping and Manufacturing, Central University of Technology, Bloemfontein, South Africa.

Decision Making of Product Deletion and Repetition for The Muslim Fashion Industry

Yaumil Khairoh, Farizal, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

Optimal Production Run Length of a Deteriorating Process with Investment in Setup and Quality Improvement

Ahmed M. Attia, Ahmad Al Hanbali, Haitham H. Saleh, Department of Industrial and Systems Engineering, Interdisciplinary Research Center of Smart Mobility and Logistics, King Fahd University of Petroleum & Minerals, P.O. Box 5067, Dhahran 31261, Saudi Arabia.

ID 46 Ameliorating the effects of time overrun in the execution of capital infrastructure projects.

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos.

Jan-Harm C Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg.

2:30 – 4:00, THURSDAY Technology Management and Engineering Economy Virtual Room 3

Session Chair: Umar Adamu Alhaji, Department of Mechanical Engineering, Bayero University Kano, Nigeria.

The Future of Civil Aviation Industry: Technology Management

Daniel N. Otuokwu, Beng Amimeche Ispim laeng, Graduate School of Technology Management, University of Pretoria, Pretoria South Africa.

Hilda Kundai Chikwanda, Ph.D., Professor of Engineering & Technology Management, Graduate School of Technology Management, University of Pretoria, Pretoria, South Africa.

ID 210 Advances in Nanotechnology and Nanoparticles in the 21st Century - An Overview

Sunday A. Afolalu, Omolayo M. Ikumapayi, Olamilekan R. Oloyede, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria. Temitayo S. Ogedengbe, Department of Mechanical Engineering, Elizade University, Ilara-Mokin, Ondo State, Nigeria. Adebayo T. Ogundipe, Directorate of information Communication Technology, Afe Babalola University, Ado Ekiti, Nigeria.

Maintenance Culture in the Automotive Industry in era of Industry 4.0: challenges and state of readiness

Adedotun Adetunla Department of Quality and Operations Management, University of Johannesburg, South Africa.

Clinton ThankGod, Afe Babalola University, Ado, Nigeria.

Nelson Madonsela, Department of Quality and Operations Management, University of Johannesburg, South Africa.

Techno-Economic Study of Adding Hydrogen Storage to PV Plant in Neom City. **ID 144**

Mashael A. Rajeh, College of Engineering Effat University, Jeddah, Saudi Arabia.

Mohamed F. El-Amin, College of Engineering Effat University, Jeddah, Saudi Arabia.

Investigation of the Level of Automation in Some Selected Manufacturing Industries in Kano, Nigeria. ID 90

Umar Adamu Alhaji and Abali Rukaiya, Department of Mechanical Engineering, Bayero University Kano, Nigeria

Investigating the Stress Intensity Factor of E-Glass Fibre Reinforced Polyester Composites

Meshach Osaretin, Sylvester Edelugo, Patrick Akpan, Cornelius Agbo

Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria

Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), University of Nigeria, Nsukka Comdalytics Nigeria Limited

2:30 - 4:00, THURSDAY

Case Studies

Virtual Room 4

Session Chair:

ID 294 Improving Student Learning Outcomes through Teacher Competence, Academic Supervision as well as Education and Training.

Sahrani, Gunawan B. Ilyas, Hasbi Hasbi, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Muhammad Ybnu, Universitas Tomakaka, Mamuju, Indonesia.

Sutiyana Fachruddin, Department of Communication Science, Universitas Halu Oleo, Indonesia.

Muhammad Ali Equatora, Department of Community Guidance, Indonesia.

Marsuna, Department of Community Guidance, Indonesia

Work Capability with Work Environment Management and the Effectiveness of Education and Training on Civil Servant Performance. ID 316

Martina, Ansar, Syafri Arief, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Geminastiti Sakkir, Universitas Negeri Makassar, Makassar, Indonesia.

Suriyani BB, Department of Public Administration, Halu Oleo University, Indonesia.

Erni Qomariyah, Department of Business Administration, Halu Oleo University, Indonesia.

Endah Setyowati, Department of Public Administration, Brawijaya University, Indonesia.

The Effect of Village Fund Allocation and Village Funds on Increasing the Welfare of Village Communities through Performance Management in Jeneponto Regency.

Johan, Mattalatta Mattalatta, Andi Muh. Rum Tajang, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia. Anas Nikoyan, Department of Agricultural Extension, Halu Oleo University, Indonesia. Aryuni Salpiana Jabar, Department of Social Welfare Halu Oleo University, Indonesia. Adi Sumandiyar, Department of Sociology, Sawerigading University, Indonesia.

Analysis of Social Assistance Grants for Improving Community Welfare in West Sulawesi Province

Makiyah, Mattalatta Mattalatta, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Abdul Razak Munir, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin, Makassar, Indonesia,

Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia.

Muhammad Arsyad, Department of Sociology, Halu Oleo University, Indonesia. Ratna Supiyah, Department of Sociology, Halu Oleo University, Indonesia.

Amin Tunda, Department of Social Welfare, Universitas Halu Oleo.

The Influence of Mother's Knowledge, Attitude and Education Level on Maternal Toddler Participation in Integrated Service Post Activities.

Sitti Nahajerah, Ansar, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Ekafadly Jusuf, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin, Makassar, Indonesia.

Rachmayanthy Rachmayanthy, Department of Correctional Technic, Indonesia.

Ali Muhammad, Department of Community Guidance, Indonesia

Ida Sriwaty Sunarjo, Department of Physiology, Universitas Halu Oleo, Indonesia

The Impact of Digital Marketing and Customer Perception Value Through Customer Satisfaction on Customer Loyalty at PT. Catur Putra Harmonis

Ismaila, Gunawan B. Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Yenni Kurnia Gusti, STIE Widya Wiwaha, Yogyakarta, Indonesia.

R. Endy Gunanto Marsasi, Universitas Islam Indonesia, Yogyakarta, Indonesia.

The Influence of Work Environment and Compensation on Employee Performance Through Job Satisfaction in the Office of the Regional Financial **Management Agency Bantaeng Regency**

Irma Dwiyanti, Nasruddin Nawawi, Umi Farida, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

Geminastiti Sakkir, Universitas Negeri Makassar, Indonesia,

Diah Yovita SuryariniUniversitas Wijaya Kusuma Surabaya.

Ni Ketut Veri KusumaningrumPoliteknik Internasional Bali

2:30 - 4:00, THURSDAY

Panel – Diversity and Inclusion

Virtual Room 5

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair:

Professor Donald M. Reimer

Director of Membership and Chapter Development - IEOM Society

President, The Small Business Strategy Group, Detroit, Michigan, USA

Adjunct Faculty - A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering

Lawrence Technological University, Southfield, Michigan, USA

Panel Speaker I

Yazeli Cruz

Medallia Expert Services / Latinx@Medallia Lead

Medallia

Washington, DC, USA

Panel Speaker II

Dr. Bhaskar Bhandarkar

Director General

Institution for Innovation Industrial Engineering and Entrepreneurship India and

Former Chairman Indian Institution of Industrial Engineering

Panel Speaker III

Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed. Professor, Industrial Engineering Department **Engineering School** University of Costa Rica

San Jose, Costa Rica

Panel Speaker IV

Engr Dr Paul Amaechi Ozor

Department of Mechanical Engineering

University of Nigeria, Nsukka

Nigeria

April 7, 2022 (Thursday) - Session: 4:00 - 6:00 pm **Conference Awards Ceremony**

IEOM Submisison, Review and Registration System is Supported by:



https://x-cd.com/

X-CD Technologies has been supporting the association and conference industry since 1995. X-CD software modules are proprietary and developed in-house which gives the flexibility to make customized changes to meet all of X-CD's clients' unique needs.







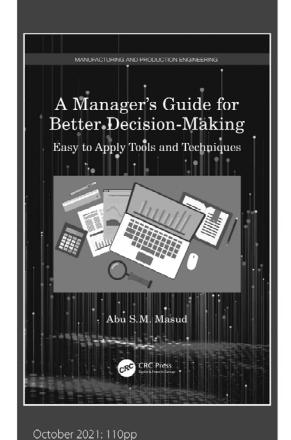


TABLE OF CONTENTS:

13 illustrations

Hb: 978-1-032-00016-9 | \$150.00 Pb: 978-1-032-00014-5 | \$69.95

eBook: 978-1-003-17229-1

- 1. Introduction
- 2. Tools for Problem Analysis
 - 3. Developing Alternatives and Criteria
- 4. Measurement, Normalization, and Weights
- 5. Single Criterion Decision
 Problems
- 6. Multiple Criteria Decision Problems

20% Discount with Discount Code.

A Manager's Guide for Better Decision-Making

Easy to Apply Tools and Techniques

Abu S.M. Masud

Series: Manufacturing and Production Engineering

This book offers a basic understanding of the issues and processes involved in decision-making by presenting the tools associated with problem analysis, tools that enable developing choices, as well as tools used to normalize judgment criteria achievement so that they are comparable across measures using different scales. The intended audience of the book includes technical and nontechnical professionals, managers and supervisors at all levels, and engineering and business educators. The book is also useful to undergraduate students, beginning graduate students, and recent graduates of professional programs, mathematics, computer science, natural sciences, and humanities.

20% Discount Available - enter the code FLY21 at checkout*

Hb: 978-1-032-00016-9 | \$120.00 Pb: 978-1-032-00014-5 | \$55.96

* Offer cannot be used in conjunction with any other offer or discount and only applies to books purchased directly via our website.

To request a copy for review, please contact: https://m.email.taylorandfrancis.com/Review copy request





For more information visit: www.routledge.com/9781032000169



Form and Manage Student Teams Online

Used by 1.5 Million Students at Over 2,400 Institutions Worldwide

CATME Provides Instructor Tools for:

- Assigning students to better functioning teams using Team-Maker surveys
- Training students to work in teams through Teamwork Training Tools
- Identifying teams having teamwork difficulties
- Training students to rate teamwork behaviors using Peer Evaluation and Rater Practice surveys

For more information, go to info.catme.org





6th North American IEOM Conference, Monterrey, Mexico, November 3-5, 2021 Venue: Cintermex Convention Center. Partners: UDEM, UANL, ITESM, CLAUT and RELIEVE



9th IEOM Annual International Conference, Bangkok, Thailand, March 5-7, 2019



Second IEOM Fellows Induction at the IEOM Bangkok Conference on March 6, 2019



IEOM Student Chapters around World

Algeria

Adrar University

Australia

Queensland University of Technology (QUT), Brisbane

Bahrain

University of Bahrain

Bangladesh

- Ahsanullah University of Science & Technology (AUST)
- Bangladesh Institute of Management (BIM)
- Bangladesh Univ. of Engineering and Technology (BUET)
- Bangladesh University of Textiles (BUTEX)
- Chittagong University of Engineering and 8. Technology (CUET)
- Daffodil International University (DIU) 9.
- DUET, Gazipur 10.
- 11.
- International Islamic University of Chittagong
 International University of Business Agriculture and Technology (IUBAT)
- 13.
- Islamic University of Technology (IUT)

 Jessore University of Science and Technology 14.
- Khulna University (KU) 15.
- Khulna University of Engineering and 16. Technology (KUET)
- 17 Military Institute of Science and Technology
- National Institute of Textile Engineering and 18. Research (NITER)
- Rajshahi University (RU) 19.
- Shah Jalal University of Science and Technology (SUST)
- University of Chittagong
- World University Bangladesh (WUB)

Botswana

23. University of Botswana

Brazil

- 24. Federal University of Sao Carlos (UFSCar)
- 25.
- Federal University of Santa Catarina (UFSC)
 University of Sao Paulo (USP) Sao Carlos 26.
- Federal Institute of Sao Paulo (IFSP) -Sorocaba
- 28 FACENS University, Sorocaba

Canada

- Concordia University 29
- 30. Humber Institute of Technology and Advanced
- 31. Polytechnic Montreal
- University of New Brunswick at Fredericton
- 33. University of Waterloo
- University of Windsor

- Fundación Univ. Tecn. Comfenalco, Cartagena, Bolívar
- University of Rosario, Bogota
- 37. University of Quindio
- Universidad de San Buenaventura, Cali, Valle

Costa Rica

39. University of Costa Rica

Czech Republic

40. University of West Bohemia, Pilsen

Ecuador

41. Technical University of Ambato

Egypt

Zagazig University

Ethiopia

43. Bahir Dar Institute of Technology **Finland**

44. University of Vaasa

- France
- **IESEG School of Management** 45. Lorraine University, Metz

Ghana

Technological Education Institute (TEI), Thessaly, Larissa

Greece

Accra Technical University 48.

Haiti

Université Quisqueya 49.

India

- College of Engineering and Technology, 50. Bhubaneswar, Odisha, India
- College of Engineering Guindy (Anna 51 University), Chennai
- Guru Nanak Dev Engineering College, 52. Ludhiana, Punjab
- Pandit Dendayal Petroleum Univ., Ahmedabad, Gujrat

- P.D.A. College of Engineering, Gulbarga,
- Karnataka, India
- Vellore Institute of Technology Vidya Jyothi Institute of Technology, Hyderabad
- 57. Universal College of Engineering & Technology (UCET), Dokiparru, Guntur, Andhra Pradesh, South India
- National Institute of Technology (NIT), Warangal
- Jawaharlal Nehru Technological University Hyderabad (JNTUH)
- IITS, India
- Birla Institute of Technology & Sciences (BITS 61. Pilani)
- Amrita School of Business Bangalore
- Amrita school of Arts and Sciences, Mysuru 63.
- Amrita School of Business, Coimbatore 64. Aligarh Muslim University, Aligarh 65.

Indonesia

- Atma Jaya Catholic University 66
- 67 Bina Nusantara University (Binus), Indonesia
- Institut Teknologi Bandung 68.
- Institut Teknologi Sepuluh Nopember (ITS)
- Sampoerna University, Jakarta 70.
- Shipbuilding Institute of Polytechnic Surabaya
- 72 Tarumanagara University
- UIN Sultan Syarif Kasim, Riau Universitas Diponegoro (Undip)
- Universitas Gadjah Mada (UGM)
- 76. Universitas Iqra Buru
- Universitas Islam Negeri (UIN) Sunan Kalijaga, Yogyakarta
- 78 Universitas Islam Negeri Alauddin Makassar
- Universitas Sebelas Maret (UNS), Surakarta
- 80. University of Indonesia

Iran

- MehrAstan University, Guilan 81.
- 82.
- University of Eyvanekey Technical and Vocational University (TVU) 83.

Iraq

84 Babylon University

Israel

Sapir Academic College 85 Italy

University of Bologna 86. University of Salento

87. Japan

88. Ashikaga University

Jordan

89. Hashemite University

Kenya

Kenyatta University, Nairobi

Libya

Libyan Academy

Malaysia

- Universiti Malaysia Sabah (UMS)
- Universiti Putra Malaysia (UPM)
- Universiti Teknologi Malaysia (UTM)
- Universiti Tun Hussein Onn Malaysia (UTHM) 95.
- Universiti Utara Malaysia (UUM) 96

Mexico

97. Instituto Politécnico Nacional (IPN), Mexico

Universidad del Caribe, Cancun 98

Morocco

- Akhawayn University
- 100. Ecole Mohammadia d'Ingénieurs (EMI)
- Sidi Mohamed Ben Abdellah University of Fez National School of Applied Sciences Kenitra,

Ibn Tofail University Mozambique

103. Eduardo Mondlane University

104. National Univ. of Sci. and Tech. in Windhoek Nepal

105. Kathmandu University

106. Tribhuvan University

Nigeria

- 107. Covenant University
- 108. University of Ibadan109. University of Nigeria, Nsukka 110. University of Benin

111. Olabisi Onabanjo University Oman

- 112. Sultan Qaboos University
- 113. Middle East College

Pakistan

- 114. Dawood University of Engineering and Technology, Karachi
- Government College University Faisalabad
- Mehran University of Engineering and
- Technology, Jamshoro, Sindh Riphah International University, Lahore
- Campus University of Engineering and Technology,
- 119. UOT Nowshera
- Information Technology University of the Punjab, Lahore

Papua New Guinea

121. Papua New Guinea University of Technology Paraguay

- 122. National University of Asuncion
- 123. Universidad del Cono Sur de las Américas

Peru 124. National University of San Antonio Abad,

Cusco Peru **Philippines**

Bulacan State University, Malolos City, Bulacan

126 LPU Laguna

127. Mapua University

Qatar 128. Qatar University

Saudi Arabia 129. Alfaisal University

Effat University

King Abdulaziz University (KAU) 131.

King Abdulaziz University, Rabigh King Fahd University of Petroleum and

- Minerals (KFUPM)
- King Saud University (KSU)
- Umm Al-Qura University (UQU)
- Princes Nourah University (PNU) Prince Sattam Bin Abdulaziz University
- (PSAU) Prince Sultan University (PSU) 138.
- Taibah University 139.
- University of Tabuk 140
- Taibah University 141
- 142. University of Business and Technology South Africa
- 143. Durban University of Technology (DUT)
- 144. Tshwane University of Technology (TUT) 145. University of Johannesburg (UJ)
- 146. University of South Africa (UNISA

147. Vaal University of Technology (VUT)

- Sri Lanka
- 148. University of Kelaniya

149. University of Peradeniya

150. Sudan University of Science and Technology, Khartoum

Thailand

151. Chulalongkorn University, Bangkok

152. Chiang Mai University Turkey

153 **Turkish-German University** UAE 154. University of Science & Technology of Fujairah

(USTF) UK

Bristol

University of Derby 155. 156. University of the West of England (UWE),

USA

157. Central Connecticut State University Eastern Michigan University

Lawrence Technological University, Michigan 160. University of the District of Columbia

161. Indiana State University Venezuela

162. Catholic University Andrés Bello (UCAB), Caracas

Zambia Zimbabwé

163. University of Zambia 164. Copperbelt University 165. Evelyn Hone College

166. University of Zimbabwe, Harare

167. National University of Science and Technology **High School Chapters**

- Bay Area of San Francisco & San Jose, California, USA
- 169. Arongghata, Khulna, Bangladesh

IEOM Global Council



Professor Charles Mbohwa Pro-Vice Chancellor Strategic Partnerships and Industrialisation University of Zimbabwe Mt Pleasant, Harare, Zimbabwe



Ph.D. Professor of Technology Management, Department of **Production and Operations** Management, Universiti Tun Hussein Onn Malaysia

Professor Abdul Talib Bon,



Prof. Vitor Mendes Caldana Federal Institute of Sao Paulo (IFSP) - Sorocaba Campus Sorocaba, Sao Paulo, Brazil



Dr. Eldon Caldwell Director, Industrial Engineering Department **Engineering School** University of Costa Rica San Jose, Costa Rica



Prof. Jose Arturo Garza-Reyes, Ph.D. **Professor of Operations** Management Head of the Centre for Supply Chain Improvement College of Business, Law and Social Sciences, Derby Management School University of Derby, UK



Dr. Umar Al-Turki Professor Systems Engineering Department King Fahd University of Petroleum and Minerals Dhahran, Saudi Arabia



Professor Eui H. Park, Ph.D. **Graduate Program Coordinator** Professor, Department of Industrial and Systems Engineering North Carolina A&T State University Greensboro, North Carolina, USA



Dr. Ilham Kissani Assistant Professor of Engineering & Management Science School of Science & Engineering Al Akhawayn University Ifrane, Morocco



Professor Abu Masud, Ph.D., P.E. Dr. Abdur Rahim **Emeritus Professor** Department of Industrial and Manufacturing Engineering Wichita State University Kansas, USA



Professor Faculty of Business Administration University of New Brunswick Fredericton, NB, Canada



Professor Hamid Parsaei, Ph.D., Professor, Industrial and Systems Engineering Texas A&M University (College Station) USA



Professor Bernardo Villarreal, Ph.D. Professor, Department of Engineering Universidad de Monterrey San Pedro Garza Garcia, NL Mexico

IEOM Executive Committee

Director of Membership and Chapter



Professor Donald M. Reimer President, Small Business Strategy Group, Detroit, Michigan, USA Adjunct Faculty – Lawrence Tech Southfield, Michigan, USA

Director of Program



Dr. Mohammad Khadem
Associate Professor
Department of Mechanical and Industrial
Engineering
Sultan Qaboos University
Muscat, Oman

Director of Publication



Dr. Mohammad Anwar Rahman Associate Professor Manufacturing and Construction Management Central Connecticut State University New Britain, CT, USA

Executive Director



Dr. Ahad Ali
Associate Professor and
Director of IE Program, A.
Leon Linton Dept. of
Mechanical, Robotics and
Industiral Engineering,
Lawrence Technological
University, Southfield,
Michigan, USA

Competition and Workshop Director



Dr. Saso Krstovski Lean Manufacturing Coach /Six Sigma Master Black Belt, Van Dyke Transmission Plant Ford Motor Company, Michigan, USA

Associate Program Director



Dr. Annamalai Pandian
Associate Professor and Director,
Bachelor of Science in Engineering
Technology Management
Department of Mechanical Engineering
Saginaw Valley State University
Michigan, USA

Associate Program Director



Dr. Hayder Zghair Assistant Teaching Professor of Industrial and Manufacturing Engineering, Pennsylivian State University, The college: Penn State Berk, PA, USA

Associate Director of Chapter Development



Dr. Ir. Lina Gozali
Lecturer
Industrial Engineering
Department
Tarumanagara University
(UNTAR)
Jakarta, Indonesia

Operations Manager



Dr. Taufiq IslamIEOM Society International Southfield, Michigan, USA

Director of Web Development



Suvro Sudip Software Engineer II Jervis B. Webb Company Detroit, Michigan

Director of Certification



Dr. Joseph M. Ogundu President/CEO Emerald Global Consulting Inc. West Bloomfield, Michigan

Assistant Program Director

Ms. Rocksana Ahmed Senior - BS in Mechanical and Manufacturing Engineering Technology, Lawrence Technological University, Southfield, Michigan, USA

Upcoming Events



7th North American Conference on Industrial Engineering and **Operations Management** June 12-14 2022, Orlando, Florida, USA









3rd South American Conference on Industrial Engineering & Operations Management Asuncion, Paraguay, July 19-21, 2022









5th European Conference on **Industrial Engineering & Operations Management** Rome, Italy, July 26-28, 2022









2nd Indian Conference on Industrial Engineering and Operations Management August 16-18, 2022, Warangal, India IEOM Society Hosts: NIT, Warangal and JNTU, Hyderabad











3rd Asia Pacific Conference on **Industrial Engineering and Operations Management** Sept. 13-15, 2022, Johor Bahru, Malaysia

Hosts: Universiti Teknologi Malaysia (UTM)

& Universitas Sebelas Maret (UNS), Indonesia









First Australian Conference on **Industrial Engineering and Operations Management**

Sydney, Australia, December 20-22, 2022 IEOM Society Venue: Hilton Sydney, NSW, Australia







13th Annual International Conference on **Industrial Engineering and Operations Management** March 7-9, 2023, Manila, Philippines





Industrial Engineering and Operations Management Society International

IEOM Society International

21411 Civic Center Dr., Suite 205, Southfield, Michigan 48076, USA, www.ieomsociety.org