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3rd Industrial Engineering and Operations Management India International Conference

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November 2–4, 2023

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"Achieving and Sustaining Operational Excellence"

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Industrial Engineering and Operations Management Society International

IEOM Society International, 21411 Civic Center Dr., Suite 205, Southfield, Michigan 48076, USA

Phone: 1-248-450-5660, Email: info@ieomsociety.org

Welcome to the 3rd Industrial Engineering and Operations Management Indian International Conference, New Delhi, India, November 2 - 4, 2023

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the **3rd Indian International Conference on Industrial Engineering and Operations Management** to be held in New Delhi, India during November 2-4, 2023. Venue is at Hotel the Royal Plaza, 19 Ashok Road, Delhi. Local partners are Aligarh Muslim University, Delhi Technological University, AMRITA Vishwa Vidyapeetham University, Bangalore, India, PDA College of Engineering, Gulbarga and Ajeenkya DY Patil University, Pune, India. The conference aims to provide a forum for academics, researchers and practitioners to exchange ideas and recent developments in the field of industrial engineering and operation management. The conference is also expected to foster networking, collaboration and joint effort among the conference participants to advance the theory and practice as well as to identify major trends in India.

This conference will address many of the issues concerning continuous improvement and productivity improvement:

1. Mr. Tarun Aggarwal, Vice President, Maruti Suzuki India Limited, Gurugram, Haryana, India
2. Dr. Christopher Harris, Associate Professor of Computer Science, University of Northern Colorado, Greeley, Colorado, USA
3. Mr. Prabir Kanti Basu, Senior Vice President, Reliance New Solar Energy Ltd (RNSEL), Reliance Industries Limited, Faridabad, Haryana, India
4. Harjinder Singh Cheema, Managing Director, Cheema Boilers Limited, Chandigarh, India
5. Mr. Sunil Kant Munjal, Chairman, Hero Corporate Service Private Limited, Okhla Industrial Estate, New Delhi, India
6. Dr. Kamal Kishore Singh, IPS, ADG of Civil Defence in the Disaster Management Department, Government of Bihar, India
7. Prof. Angelika Peer, Full Professor, Faculty of Engineering, Free University of Bozen-Bolzano, Italy
8. Prof. Dr. LEONG Wai Yie, Immediate Past Chairperson of The Institution of Engineering and Technology, Council Member, the Vice President of the Institution of Engineers Malaysia (IEM), Vice President of International Network of Women Engineers and Scientists (INWES), Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)
9. Vijay Sharma, Vice President, Pavana Industries Limited, Aligarh, UP, India
10. Mr. Rakesh Vasisht, Vice President, Hero Motocorp, Delhi, India
11. Mr. Sanjay Ranawade, Senior Vice President (CMO), Jewellery Division, Titan Company Limited, India
12. Ajay Sambrani, Managing Director Asia Pacific, Member of Group Executive Management, TUBACEX, Mumbai,, Maharashtra, India
13. Dr. Sushil Kumar, Professor in Operations Management, Indian Institute of Management, Lucknow, Prabhathi Nagar, IIM Road, Lucknow, Uttar Pradesh, India
14. Dr. Abhijit Majumdar, R. Jaikumar Chair Professor for Operations Management, Indian Institute of Technology, Delhi, India

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

We would like to extend a warm welcome to all participants in New Delhi, India. Our very best wishes to all of you for great learning and memorable experiences.



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Keynote Speakers

Thursday, November 2, 2023

Conference Welcome and Inaugural Opening Ceremony: November 2, 2023, 9:40 – 10:20 am



Prof. Santishree D. Pandit
Vice Chancellor
Jawaharlal Nehru University (JNU)
New Delhi, India



Prof. Timira Shukla
Director
I.T.S. School of Management
Ghaziabad, India



Keynote I (Opening Keynote): 10:20 am – 11:00 am (November 2)

Mr. Tarun Aggarwal
Vice President
Maruti Suzuki India Limited
Gurugram, Haryana, India

Tarun Aggarwal, Vice President, ERDD Electrical, xEV, and Electronics Systems, Maruti Suzuki has been confirmed for Connected Car Pune. Mr. Tarun Aggarwal has more than 26 years of experience at Maruti Suzuki (MSIL). He has been part of the MSIL Research and Development growth story, during which time he has headed several engineering verticals such as interior and body design, styling design, new model program management, and product strategy. In his current role, he is responsible for taking strategic initiatives for various functions of infotainment, wiring harness, switches, controllers, engine electrical, EV, and hybrid systems. He has been a key driver of change in the emerging technological space of connected car solutions, infotainment, and EV. He has successfully set up dedicated cross-functional teams cutting across the length and breadth of MSIL for advanced engineering initiatives. During his eight-year stint as Head of New Model Program Management, he successfully spearheaded the New Alto program from scratch to build. This was a first-of-its-kind development initiative by MSIL. Also, he has played instrumental roles in initiatives such as the 3-row Ertiga concept, and the Vitara Brezza, the first Compact SUV for India by Indians.

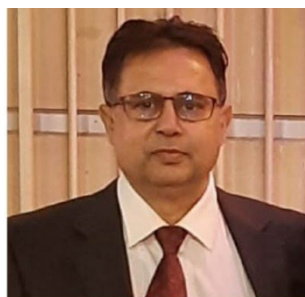


Keynote II: 11:00 – 11:40 am (November 2)

Dr. Christopher Harris
Associate Professor of Computer Science
University of Northern Colorado
Greeley, Colorado, United States

Using ChatGPT and other generative AI in the workplace, specifically manufacturing

Dr. Christopher Harris is an Associate Professor of Computer Science in the School of Mathematical Science at the University of Northern Colorado. Previously, he taught at the State University of New York in Oswego and has nearly 20 years of work experience as a technical strategist at companies including the World Bank, Northrop Grumman, Ratheon, E! Entertainment Television, and AT Kearney. He served as the General Manager at Advisa Group, a technology consultancy based in Beijing, China. Professor Harris received his PhD in Information Science at the University of Iowa, an MBA from the Anderson Graduate School of Management at UCLA, his Masters in Computer Science from Virginia Tech, and his Bachelor's in Computer Engineering from the University of South Florida. Professor Harris' research areas include applying machine learning and artificial intelligence to business, agriculture, human resources, and manufacturing, ensuring fairness in machine learning algorithms, and applications involving blockchain and smart contracts.

**Keynote III: 11:40 am – 12:20 pm (November 2)**

Prabir Kanti Basu
 Senior Vice President
 Reliance New Solar Energy Ltd (RNSEL)
 Reliance Industries Limited
 Faridabad, Haryana, India

- * Qualified National Entrance Test (NET, Dec-1989) among the top 11, Physics, India
 - * Received his Ph.D in 1997 from NPL, New Delhi (work)/BITS, Pilani on crystalline silicon wafer solar cells
 - * Joined semicon industry, 1995, involving fabrication of discrete devices
 - * Became the Head, Solar cell division, 1998, fabricating cells, modules and systems
 - * Teaching Physics, EM theory, Semiconductor devices, 2003-2010 in Engineering Institutes
 - * Worked at Sungkyunkwan University, S Korea, 2004, on advanced solar cell research.
 - * Worked as consultant with UPV Solar, Coimbatore, 2006-2010, for setting up Si solar cell plant
 - * Worked at SERIS, NUS, Singapore, 2010-2015, as Senior Research Fellow (Scientist), Head, Multi-Si wafer Solar Cell Group.
 - * Key research focus was to develop cost-effective processes to improve industrial Si cell efficiency
 - * Worked as Senior Project Executive Officer (Scientist), NCPRE, IIT Bombay, 2016-2018, to establish industrial Si cell fabrication facility in developing new tools/processes
 - * Rejoined SERIS, NUS as Team Head -Front End, 2018, to start work on >23% efficiency industrial Si cell technologies.
 - * Holding several patents (7), e.g., 'SERIS-etch', 'new selective emitter technology', 'Additive-free DWS multi-Si texturing', 'controlled industrial poly-Si etch' etc
 - * Published research papers in international journals (42) and presented research works in international conferences (100)
 - * Authored books on "Engineering Physics", "Electromagnetic Theory", "Solid State Engineering Physics (published by the CRC Press, USA)"
- Key areas: silicon wafer solar cell fabrication, advanced surface treatments, process integration, processing equipment specialist, consultancy, teaching

Keynote IV: 12:20 – 1:00 pm (November 2)

Er. Harjinder Singh Cheema
 Chairman Cheema Boilers Limited
 Formal Chairman CII Mohali Zone
 Sennate Member and Professor of Practice at Indian Institute of Technology, Ropar, Punjab
 Professor of practice at Beant University, Rayat Bahra University, Shoolini University
 Advisor at FIED IIM Kashipur, Lovely Professional University and Chandigarh Group Of College

A title of talk: Innovation & Invention is must for 5Trillion Economy of India

Mr. Harjinder Singh Cheema, a marine engineer of exceptional vision, founded a small manufacturing unit that has since grown into a company valued at 7,000 million and employing 1,150 people. Cheema Boilers is a leading global engineering solutions firm specializing in the production of boilers for various industries. The firm offers custom-made service concepts to optimize efficiency, availability, and reliability. Through a skilled workforce and state-of-the-art facilities, the company has been successful in doubling its turnover annually and expanding its operations, technology, workforce competency, and customer base. Cheema Boilers exports to over 140 countries worldwide, making it a truly global enterprise. He will be sharing few of his inventions in the field of energy and environmental protection in this conference with the help of presentations and crisp videos.

Friday, November 3, 2023

Keynote V: 9:40 – 10:20 am (November 3)

Mr. Sunil Kant Munjal
 Chairman
 Hero Corporate Service Private Limited
 264, Okhla Industrial Estate
 Phase III, New Delhi 110020, India

Sunil Kant Munjal is a business promoter, an institution builder, a social entrepreneur, an angel investor, and a thought leader. He has been joint managing director of Hero Motocorp and is currently Chairman of Hero Enterprise. Besides being an investor, Mr. Munjal actively oversees higher education, healthcare & capacity building projects managed by various family trusts. He is the Founder, of Serendipity Arts Foundation, a unique social project that promotes and incubates fine and performing arts; he is also President of the Ludhiana Sanskritik Samagam, an organization that promotes performing arts across North India.

He sits on the boards of India's iconic educational institutions including ISB, IIM (Ahmedabad) and SRCC. He also heads the board that manages The Doon School, India's premier high school. He is also a board member, DCM Shriram Consolidated, Coca Cola India Advisory Board, Bharti Foundation, and several Hero Group companies. Has headed India's premier industry (CII) and management bodies (AIMA). He has been a Prime Minister's Council on Trade & Industry member advising former Indian Prime Minister Manmohan Singh on economic issues. He also chaired the Study Group on Skill Development, Training, and Workers' Education constituted under the Second National Commission on Labour Reforms. He has prepared a number of socio-economic reports in the areas of skill development, vocational training, CSR and tribal development. He'd made a presentation on skills and training to the PM's Council, and this triggered many future initiatives on skills. Likewise, his presentations on red tape to the PMO, the commerce and finance ministries activated key policy changes currently being introduced under Ease of Doing Business.

Mr Munjal, a member of the Narasimham Committee in the 1990s, laid a framework for banking and financial sector reforms in India. He has also been a member of the Taskforce on Indirect Taxes (Kelkar Committee), which provided the first concrete roadmap for simplifying India's indirect tax system, including framework for VAT and GST. He has also been a member of the consultative groups on industry and external sectors set up by the Planning Commission.

Keynote VI: 10:20 – 11:00 am (November 3)



Dr. Kamal Kishore Singh, IPS
ADG of Civil Defence in the Disaster Management Department
Government of Bihar, India

Keynote topic: *Digitalization, E-procurement, and modernization in public sector*

Dr. Kamal K. Singh did MBBS from Patna Medical College and worked as a medical practitioner between 1993 and 1995. He cleared the UPSC exam in 1995 and was allotted Indian Police Service (IPS) in 1996. He started his career in Bihar as Assistant Superintendent of Police (ASP) and moved up to serve as district SP in many severe Left Wing Extremist infested districts, Operation Commander as Commandant of Bihar Military Police Battalions, SP of Weaker Sections in Criminal Investigation Department (CID), Assistant Inspector General (AIG) at Police Headquarters (Inspection), and Deputy IG of CID.

Dr. Singh was then selected to serve on Government of India (GoI) deputation as DIG of Police in Central Reserve Police Force (CRPF), Operation DIG in Left Wing Extremist areas, and IG (Operations & Sector) CRPF.

Later, he served as IG of State Crime Records Bureau (SCRB), Nodal Officer for Bihar State of the digital police project of GoI Crime & Criminal Tracking Network System (CCTNS), and Nodal Officer for Interoperable Criminal Justice System (ICJS).

Then he served as IG of Provisions at the State Police Headquarters (PHQ), In-charge of Human Rights cell and Legal section of Bihar PHQ, IG of Modernization, IG of Weaker Sections in CID, and Additional DG of Modernization & SCRB. Currently he is serving as ADG of Civil Defence in the Disaster Management Department. In addition to managing digital projects, procurement and modernization of police, Dr. Singh has had wide experience of election management as district SP and as State nodal officer on behalf of CRPF in 2015 Bihar Assembly Elections and as State government Police Nodal Officer in 2019 Lok Sabha Elections and 2020 Bihar Assembly Elections.

Dr. Singh is a motivational speaker and career counselor. He has been a Guest Faculty at Bihar Institute of Public Administration & Rural Development (BIPARD), Bihar Police Academy, and UGC. He has given a series of lectures at Indian Institute of Public Administration (IIPA), Chanakya National Law University (CNLU), and St. Xavier's group of institutes. Dr. Singh has been honoured with various awards during his studies, IPS training, and in professional career. These include President's medal for meritorious services in 2012, internal security medal for operational command in Left wing extremists infested sectors in 2013, certificate of appreciation from Finance Department (Govt. of Bihar) for initiating and remarkable lead in e-procurement in 2018, etc.

Keynote VII: 11:00 – 11:40 pm (November 3)



Prof. Angelika Peer
Full Professor, Faculty of Engineering
Free University of Bozen-Bolzano
Bozen-Bolzano, Italy

Angelika Peer is currently Full Professor at the Free University of Bozen-Bolzano, Italy. From 2014 to 2017 she was Full Professor at the Bristol Robotics Laboratory, University of the West of England, Bristol, UK. Before she was senior researcher and lecturer at the Institute of Automatic Control Engineering and TUM-IAS Junior Fellow of the Institute of Advanced Studies of the Technical University of Munich, Germany. She received the Diploma Engineering degree in Electrical Engineering and Information Technology in 2004 and the Doctor of Engineering degree in 2008 from the same university. Her research interests include robotics, haptics, teleoperation, human-human and human-robot interaction as well as human motor control.

Keynote VIII: 11:40 am – 12:20 pm (November 3)



Prof. Dr. LEONG Wai Yie
Immediate Past Chairperson of The Institution of Engineering and Technology
Council Member, the Vice President of the Institution of Engineers Malaysia (IEM)
Vice President of International Network of Women Engineers and Scientists (INWES)
Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)

Wai Yie is currently the Immediate Past Chairperson of The Institution of Engineering and Technology (IET Malaysia Local Network), IET United Kingdom Council Member, the Vice President of the Institution of Engineers Malaysia (IEM) 2020/2022 and Vice President of International Network of Women Engineers and Scientists (INWES) 2020/2023, and Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee). She specialises in medical signal processing and telecommunications research. She has been researching IR4.0, wireless sensor networks, ultra-wideband and wireless communications, and Brain Signal Processing for signal conditioning and classification in various EEG-based mental tasks. She has developed a gait analysis system and upper limb tracking system. The novel bio-informatics technique has been commercialized and licensed to healthcare companies to extract important features of biomedical signals. Her research works have contributed to cultural enrichment, quality of life, health, and well-being and enhanced the biomedical research capacity, knowledge, and skills of businesses and organisations. The research project has also contributed toward the wealth creation growth of biomedical companies, business revenue, and innovative capacity. She has been successfully attracting R&D investment from businesses. Wai Yie has been awarded the Private Education Excellence Awards 2022 'Special Recognition – National Unity Award' under the University category, 2022 Laureate of the WFEO Women in Engineering Award, First Runner Up of the 2021 Wai Yie has been the National and International Academic Accreditation Panel for more than 20 universities. She has over 10 years of research and industry experience in Australia, Singapore, the United Kingdom, and Malaysia, with a special interest in biomedical signal; image

processing, smart control, telecommunications, and wireless sensor networks. She was also the 2013 Young Scientist (by the Academy of Sciences Malaysia) and has been elected as the Chair of the International Networking Group of Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM). She has been representing women engineers at meetings and discussions at United Nations.

Keynote IX: 12:20 – 1:00 pm (November 3)



Vijay Sharma
Vice President, Pavna Industries Limited
Aligarh, UP, India

A dynamic professional with over 26 years' rich cross functional experience in Business Development, Product Engineering, Product Development, Plant Operations, Production Management, & After Sales Support. Proven abilities to enhance the production process, operations, optimize resource & capacity utilization, escalate productivity & operational efficiencies; while curtailing costs & expenses across organizations. Proven abilities in managing technically advanced, cost-efficient, state of the art production systems and processes. Resourceful at strategizing techniques for maximum utilization of manpower/machinery. A keen planner with skills in conceptualizing and effecting process initiatives to enhance plant efficiency and productivity. Recognized proficiency in steering Marketing Operations with focus on accomplishment of the company's mission & profitability targets. In-depth knowledge of working and dynamics of Products with demonstrated abilities in optimizing product performance and efficiencies. Significant experience of developing and working with highly technical systems geared towards optimizing Customer Service Operations and Service deliveries. Deal with all customers since start from development to its routine supplies, followed with regular visit to them to discuss development issues, quality issues, prices negotiation, finalization, accordingly to take care in Organization.

Closely worked with Japanese for their Indian projects with Honda Lock Japan for their Global sourcing and successfully developed cost effective parts from India. Evaluation of Fuel Injection system projects with Aisan Industry Company Ltd Japan for India OEM' like Bajaj, TVS etc. Set up entire facility for Bank Angle sensor with Technical Collaboration Toyo Denso Japan for Indian OEM's like Honda India. Set up for entire projects of EMS for manufacturing PCB for lighting industries. Clean Room developed for Assembly of Automotive Lights, PCB etc. according to ISO-8 / Class-100,000. Heading the Engineering Department of company equipped with latest software like Ideas, Pro-E, from conceptual design stage to product development stage follow the APQP approach. Monitoring the business plan of the company for achieving the company target. Coordinator of UNIDO partnership cluster programmed conducted jointly by UNIDO, ACMA and CII related to the implementation of the various constituents of lean manufacturing practice like 5S, Kaizen, 3M, Visual Controls, Model machine, Quality Circle, Poke Yoke, single flow manufacturing etc. Leading the team to get ISO/TS: 16949:2002, certification with integrated management system. Extensive experience in implementing quality standards and carrying out internal audits, vendor assessment, resolving customer complaints.

Saturday, November 4, 2023

Keynote X: 9:40 – 10:20 am (November 4)



Mr. Rakesh Vasisht
Vice President
Hero MotoCorp, Delhi, India

Mr. Rakesh Vasisht is a seasoned executive leader with over three decades of rich corporate experience, with a particular emphasis on the automotive industry. For the past two decades, he has held senior leadership positions with the world's largest two-wheeler company, Hero MotoCorp. Throughout his career, Rakesh has played a pivotal role in the transformation of Hero Honda into Hero MotoCorp, contributing to its growth and success.

As an executive leader, Rakesh Vasisht is known for his ability to drive transformative change and establish a clear organizational vision in response to ever-changing business environments. He has a broad business perspective and excels in identifying and evaluating critical arguments that impact decision-making in key business matters. Rakesh also possesses strong operational expertise in sales and marketing, project management, and negotiation of significant projects.

One of Rakesh's notable achievements is his role as the Executive Sponsor for the Scooter business at Hero MotoCorp since October 2020. During the second half of FY 21, he successfully reversed a seven-year declining market share trend by increasing the company's market share by 2%, despite a 20% decline in the Indian scooter market. Additionally, Rakesh guided the Institutional Sales team, resulting in a remarkable 150% increase in sales during the same period. Furthermore, Rakesh Vasisht has demonstrated exceptional leadership skills throughout his tenure. He has a proven track record of building lasting relationships with senior management across all stakeholder groups, including dealers, vendors, partners, shareholders, and the Board of Directors. His excellent presentation skills enable him to effectively address various audiences, fostering collaboration and driving positive outcomes.

In his role as Head of the CEO's Office at Hero MotoCorp from June 2000 to September 2020, Rakesh actively participated in several internal committees, such as the Operations Council for new model development, Ethics Committee, and New Dealer Appointment Committee. He also conceptualized and managed the Chairman's Club, which recognized and engaged with high-performing dealers within the company. Rakesh led the corporate affairs requirements of the company and was responsible for overseeing significant projects from time to time. Additionally, he held leadership positions in internal audit, corporate real estate, and corporate administration, demonstrating his multifaceted skill set. Rakesh Vasisht's passion for government affairs is also noteworthy, as he possesses experience in conducting political and financial analysis that influences key legislations. This expertise further enhances his ability to navigate complex business environments and drive strategic decision-making.

Overall, Rakesh Vasisht is a dynamic and accomplished executive leader who brings transformative change, establishes organizational vision, and influences the direction of innovation and transformation within an organization. With his strong operational background, exceptional communication skills, and extensive leadership experience, he continues to contribute significantly to the success of Hero MotoCorp.

Keynote XI: 10:20 – 11:00 am (November 4)

Mr. Sanjay Ranawade
Senior Vice President (CMO)
Jewellery Division
Titan Company Limited, India

Keynote XII: 11:00 – 11:40 am (November 4)

Ajay Sambrani
Managing Director Asia Pacific
Member of Group Executive Management
TUBACEX
Mumbai, Maharashtra, India

Mr. Ajay Sambrani is TUBACEX Asia Managing Director and a member of the TUBACEX Group Executive Committee. Mr. Ajay Sambrani is an Engineer with MBA from Sweden. In his role, Mr. Ajay Sambrani is responsible for the TUBACEX Businesses in Asia leading the Manufacturing Operations in the region as well as managing all the Sales Offices throughout Asia Pacific & Australia.

Core Competencies

- KAM Business Growth and Transformation
 - Technical Marketing Strategy
 - New Business Development International Business
 - Project Management Operation Management
 - Stakeholder Management Marketing & Sales
 - M&A
- Education and Training**
- Master of Business Administration & Management, ABB University, Vasteras Sweden
 - Bachelor of Engineering, Industrial & Production, Karnataka University – India
 - Leadership Management Programme – Harvard Business School
 - Global Strategy – IMD – Lausanne Switzerland

Keynote XIII: 11:40 am- 12:20 pm (November 4)

Dr. Sushil Kumar
Professor in Operations Management
Indian Institute of Management, Lucknow
Prabandh Nagar, IIM Road
Lucknow, Uttar Pradesh, India

Sushil Kumar is Professor in the Operations and Supply Chain Management Group at the Indian Institute of Management Lucknow (IIM Lucknow), India. He has 27 years of rich experience in teaching post-graduate students and conducting training programmes in IIM, Mumbai and IIM Lucknow. After completion of PhD from IIT Delhi, he joined IIM Mumbai (NITIE) as an Assistant Professor in 1996. In 2005, he shifted to IIM Lucknow as an Associate Professor. Since 2009 he is Full Professor at IIM Lucknow. He holds a Bachelor's degree in Civil Engineering from NIT Kurukshetra, Master's and Doctoral degrees from Indian Institute of Technology Delhi. He did Post-doctoral Fellowship at Waseda University, Tokyo, Japan, and as a part of his work, visited numerous manufacturing and service organizations in Japan. He has published several research papers in the International

and National journals, some of which have been highly referred to. He has been a consultant to a number of Private and Government/Public Sector organizations. He has guided several doctoral students.

His teaching/research interests are Operations Management, Supply Chain Management, Service Operations Management, Project Management, Design Thinking, etc. Apart from these, he also teaches some other very interesting courses. His training programmes in the area of Decision Making, Creative Problem Solving, Design Thinking and Project Management are well received by the participants from industries and other organizations and he has trained more than 1000 industry participants in such programmes. He is member of the Governing Board at IIM Ranchi since 2019. He is member of the Academic Council at IIITDM Jabalpur and MIT-WPC University Pune. He has been Chairman OSCM Ara, Chairman Post Graduate Programme, Chairman Placements at IIM Lucknow. A keen sports lover, he represented his institute in Football and Athletics in his college days. He is a trekking enthusiast and done a number of treks in India. He has completed Skiing course in Japan. He pursues badminton now-a-days. He knows Marathi, Hindi, English and a little bit of Japanese. He lives with his wife, a son, a daughter, and a dog at IIM campus Lucknow.

Keynote: 12:20 – 1:00 pm (November 4)



Dr. Abhijit Majumdar

R. Jaikumar Chair Professor for Operations Management
Indian Institute of Technology
Delhi, India

Abhijit Majumdar is currently holding the position of R. Jaikumar Chair Professor for Operations Management at the Indian Institute of Technology, Delhi, India (IIT Delhi). His research area includes sustainable supply chain management, circular economy, decision modeling, etc. He graduated from Calcutta University with a Gold medal in Textile Technology program. He also holds M.Tech and MBA degrees from IIT Delhi. He acquired Ph.D. in Production Engineering from Jadavpur University, Kolkata. He has 24 years of experience in academia and 2 years of experience in industry. He is a visiting professor at the University of Huddersfield, UK. He has authored two textbooks and edited five books. He has also published 170 research papers in refereed journals which have received more than 5900 citations. He has guided 15 Ph.D. scholars. He is an area editor of

Operations Management Research journal. He is a recipient of the Best Industry Relevant Doctoral Thesis Supervision Award, IIT Delhi (2023); Eminent Engineer Award from Institution of Engineers, India (2023), Best Industry Relevant Masters Project Supervision Award, IIT Delhi (2019); Gandhian Young Technology Innovation (GYTI) Award (2016 and 2021); Teaching Excellence Award of IIT Delhi (2015) and Outstanding Young Faculty Fellowship, IIT Delhi (2009-2014).

Submissions Received from Countries and Territories

- | | | |
|---------------|------------------|------------------|
| 1. Australia | 12. India | 23. Sri Lanka |
| 2. Bangladesh | 13. Indonesia | 24. South Africa |
| 3. Botswana | 14. Iran | 25. South Korea |
| 4. Brazil | 15. Malaysia | 26. Taiwan |
| 5. Canada | 16. Mexico | 27. Turkey |
| 6. China | 17. Namibia | 28. Thailand |
| 7. Colombia | 18. Nigeria | 29. UK |
| 8. Croatia | 19. Peru | 30. USA |
| 9. Ecuador | 20. Philippines | 31. Vietnam |
| 10. Ethiopia | 21. Qatar | 32. Zimbabwe |
| 11. Germany | 22. Saudi Arabia | |



**4th Indian International Conference on
Industrial Engineering and
Operations Management**
November 5-7, 2024, Hyderabad
Host and Venue: JNTU, Hyderabad



Conference Chair

Dr. M. Manzoor Hussain

Registrar

Jawaharlal Nehru Technological University (JNTU)

Hyderabad, Telangana, India

Professor, Department of Mechanical Engineering, JNTUH

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Dr. Taufiqul Islam, Operations Manager, IEOM Society International
Tipu Sultan, IEOM Executive Team Member

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Prof. K Rama Krishna, Mechanical Engineering, KL University, Guntur

Automation and Control

Dr. Santosh Kumar Prusty, Associate Professor, XIMB, Bhubaneswar

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Prof. Sunil Sharma, Sr. Professor (Operations Management and Supply Chain Area), Faculty of Management Studies, University of Delhi, India

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Dr. Vivek Soni F.I.E., Assistant Professor, Faculty of Management Studies, University of Delhi, New Delhi, Delhi, India

Business Process Management and Digital Transformation

Prof. Sunil Jha, Mechanical Engineering, IIT Delhi

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Decision Sciences

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Industrial Management

Dr. Abid Haleem, Professor, Mechanical Engineering Dept., Jamia Millia Islamia University, New Delhi

Industry 4.0

Dr. V Vasu, Ass. Professor, Mechanical Engineering, NIT Warangal

Industry Solutions

Prof. Arshad Hussain Khan, Professor, , Department of Mechanical Engineering, Aligarh Muslim University, Aligarh, India

Inventory Control

Prof. G L Samuel, Mechanical Engineering, IIT Madras, Chennai

Lean

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Product Design and Development

Abid Ali Khan, Department of Mechanical Engineering, ZH College of Engineering & Technology, AMU, Aligarh, India

Production Engineering

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Production Planning and Control

Mohd Ali, Department of Mechanical Engineering, A.M.U., Aligarh, INDIA

Project Management

Quality Control

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Reliability and Maintenance

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Six Sigma

Faisal Talib, Mechanical Engineering Department, A.M.U., Aligarh, India

Statistics

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Supply Chain Management

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Sustainability and Green Systems

Sustainability in Supply Chains and Operations

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Technology Management

Dr. Syed Mohd Yahya, Associate Professor, Department of Mechanical Engineering, Aligarh Muslim University, Aligarh, India

TPM

Prof. K Rama Krishna, Mechanical Engineering, KL University, Guntur

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 Edly Ramly, Lean Six Sigma Master Black Belt, EFR Certification, Malaysia
 Hossam Hassaan, University of Alexandria, Alexandria, Egypt
 Ms. Sebonkile Thaba, University of Johannesburg, South Africa

42nd IEOM Global Engineering Education – Plenary Speakers

Thursday, November 2, 2023, 08:00 – 9:30 pm - Meeting Room 1 – (onsite)

Session Chair: Dr. Md Shahadat Hossain Khan

8:00 – 8:20 pm (November 2)



Dr. Md Shahadat Hossain Khan

Professor

Head, Department of Technical and Vocational Education (TVE)

Islamic University of Technology (IUT)

Board Bazar, Gazipur-1704, Bangladesh

Dr. Md. Shahadat Hossain Khan completed his PhD from the University of Sydney, Australia. He has been working as a Professor of the department of Technical and Vocational Education (TVE), at the Islamic University of Technology (IUT), Bangladesh, since 2018. He has been working (teaching and research) in TVET sectors since 2004. He was awarded Australian Leadership Award Scholarship (Australia), Graduate Research Scholarship (Brunei), Skill-Road Scholarship (Seoul University, South Korea) based on his outstanding academic results, teaching and research expertise. His research area mainly explores on two wide directions: Technology education and TVET sectors. More specifically, he has a wide experience on ICT-enhanced teaching and learning, Curriculum development in tertiary level, Professional development particularly focus on scholarship in teaching (student-centered teaching, ICT-integration, flipped classroom pedagogy during COVID-19 & Beyond) at national and international levels. In TVET sector, he is researching on TVET pedagogy, technology integration in TVET sectors & eTPD Model, and TVET reforms. Currently his research also focuses on TPACK (Technological, Pedagogical, Content, Knowledge) Framework in national and international contexts. He works as an international editorial member of many indexed journals. His research works published in the TOP RANKED ISI/SSCI indexed journals. Hence, his published journals and books chapters have already contributed internationally. BRIEF CONTRIBUTIONS: RESEARCH GRANT-(i) International Development Research Centre (IDRC), Canadian Government selected a research grant to Institute of Education and Research (IER), University of Dhaka, Bangladesh under a consortium of four more countries Nepal, Bhutan, Vietnam, and Timor-Leste, for conducting a research project titled as “Students’ participation and learning achievement at secondary level during pandemic and beyond: Impact of Gender and Inclusive pedagogical approaches”. Value: \$ 1176470 (Canadian Dollar); (ii) General Directorate of Foreign Economic Relations of the Ministry of Development of the Republic of Turkey selected me as a lead researcher for conducting a research project titled as Skills Development in the OIC Member Countries: Vocational Education. Value: US\$ 68,500.00; (iii) I have been awarded as Alumni Support Grant “From Theory to Practice: Establishing a Community of Practice (COP) to support Gender Equality, Disability and Social Inclusion” by the Australia Government from Nadia Simpson, Deputy High Commissioner- Australia High Commission Bangladesh (2022). RESEARCH OUTCOME: (i) I developed five teaching approaches (ICT-enhanced) based on intention and strategy framework, which is a new innovation in the area of teacher education. It was published in the top SSCI indexed journals (ISI/SSCI indexed Journals: Higher Education & Instructional Science). (ii) My recent work provides useful empirical evidence for minimizing the gap between teaching in tertiary education and workplace practices (SSCI indexed Journal: Journal of Educational Computing Research). (iii) My collaborative research work provided a new approach in understanding TPACK framework particularly when a teacher is planning to use ICT in teaching and learning which was published in another SSCI indexed journal (ISI/SSCI indexed Journal: Australasian Journal of Educational Technology). This piece of work contributed new insights towards existing knowledge that extended the TPACK framework. (iv) Teachers’ Attitude Towards Technology: we examined the trainee teachers’ attitudes toward technology adoption and use in tertiary engineering education. The Computer Attitude Scale (CAS) was extended by including the social influence component, to examine whether social norms affect the acceptance of technology by teachers that is published in the SSCI indexed Journal SAGE Open (iv) Guest Editor, Special Issue on: Emerging Technology in Teaching and Learning: Cases from Developing Countries, International Journal of Smart Technology and Learning.

8:20 am - 8:40 am (November 2)



Professor Arshad Noor Siddiquee, PhD

Professor

Department of mechanical Engineering

Jamia Millia Islamia (a Central University), New Delhi

South Delhi, Delhi, India

Arshad Noor Siddiquee has engages with the research in materials, and processing of materials, especially friction-based processing including friction stir welding, friction welding and friction stir processing. He has a meritorious career of more than two decades in Jamia Millia Islamia, India, and about a decade a Processor of Mechanical Engineering. Besides, has also contributed to innovation and entrepreneurship in his role as director in-charge of centre for innovation and entrepreneurship (CIE) and Faculty coordinator for the University’s Start-up Policy (Oct 2021 to Nov 2022). He has a distinguished record of publication with more than 250 publication, 8 books and more than 5700 citations, h-index-44 and i10 index 120. He has significantly contributed to the outcome-based education, teaching-learning philosophy and pedagogy and has delivered a number of in invited talks, conducted several workshops on these topics. He also has especial interest in product development and has developed several prototypes including micro-electro-discharge vertical milling machine, linear friction welding system, and numerous instrument for customized measurements.

8:40 am – 9:00 am (November 2)

Dr. Devinder Kumar Banwet FIE
Vice Chancellor Founding Retd
University of Engineering & Management
Kolkata India
Professor Emeritus, DMS, IIT Delhi (India)

Prof. Devinder Kumar Banwet is Vice Chancellor Founding Retd. of University of Engineering & Management, Kolkata India. He is an Emeritus Professor of DMS IIT Delhi in the area of Operations & Supply Chain Management, Industrial Systems Engineering, Infrastructure Project Systems Management, TQM, DSS, Operations Research Applications, Prof Banwet is a graduate Mechanical Engineer, with Master of Industrial Engineering and a PhD (Industrial Engg /Production Management from IIT Delhi. Previously he served as a Vice Chancellor of the University of Engineering and Management at Kolkata. He has made significant contributions in publications related to Operations Management. His areas of research interest include Operations Management, Supply Chain and Logistics, Services Management, Project Management, IT-enabled DSS, Industrial Systems

Engineering, Total Quality Management, Manufacturing Strategy, Technology Management, Materials Inventory Management, Facilities Planning, Operations Research Systems Modelling, Telecom Systems and Entrepreneurship Management. Prof Banwet has more than 40 years of academic teaching, research and administrative experience Prof Banwet has guided 35 + PhD projects:, has many research publications in reputed journals in India and abroad, Has had prestigious assignments at Kuwait Institute for Scientific Research, University of Sorbonne at Paris, Asian Institute of Technology Bangkok; Awarded Best Engineer Award IE, India, PMI Distinguished Researcher Award, IEOM Award, Life Time Achievement Award of POMS India, ISTD India., President of professional Societies Decision Science Institute of USA India Chapter,. Prof Banwet is on the Governing Board of many Professional Institutes of Technology, and Management, and usually Chairman of many NBA Nat Board of Accreditation team expert visits.

9:00 am – 9:20 am (November 2)

Dr. Ashok G. Matani
Professor [Retired] in Mechanical Engineering Department
Govt. College of Engineering
Jalgaon, M.S., India

9:20 am – 9:40 am (November 2)

Dr. M. Muzammil, M.Sc. Engineering, Ph.D.
Professor
Ergonomics Research Division
Mechanical Engineering Department, A.M.U., Aligarh, India
Member of Institution of Engineers (India)
Member Indian Society of Ergonomics
Executive Member, Indian Society of Ergonomics

Thrust Area of Research: Ergonomics/Human Factors Engineering, Active Control of Noise

Dr. M. Muzammil is Professor in the department and also In charge of the Ergonomics Research Division. He is teaching Industrial Engineering, Operations Management, Economics & Management, Ergonomics. His research interest is Human response to vibration and noise, Noise control engineering, Human Computer Interaction and Human Cognitive performance. He has published more than sixty-five papers in various International and National journals and conferences. Some of the journals in which his articles have been published are Quality Engineering, Theoretical issues in Ergonomics Science, Occupational Ergonomics, Journal of Occupational Safety and Ergonomics, Work: A journal of Prevention, Assessment and Rehabilitation and Journal of Low Frequency Noise, Vibration & Active Control etc. He has B.Sc. Engineering (Mechanical) and M.Sc. Engineering (Industrial and Production Engineering) from AMU, Aligarh

Artificial Intelligence and Machine Learning – Plenary Speakers

Thursday, November 2, 2023

8:00 am – 9:30 pm – Meeting Room 2 (Onsite)

Session Chair: Dr Suraj Kumar Mukti

8:00 am – 8:15 am (November 2)



Dr Suraj Kumar Mukti

Associate Professor, Department of Mechanical Engineering
NIT Raipur
Raipur, Chhattisgarh, India

Dr Suraj Kumar Mukti is working as an Assistant Professor, Department of Mechanical Engineering, National Institute of Technology Raipur. He has completed his Ph.D. research work at his own institute i.e. NIT Raipur under the supervision of Dr. A. M. Rawani, Director NIT Raipur. His fields of interest are Industrial Engineering & Management, Enterprise Resource Planning, Management Information System, Knowledge Management, Change Management, Customer Relationship Management and Production Engineering & Technology. He is Taking care of CPDA review Committee, Institutional Start-up Cell, Anti-Ragging Committee, In-Charge

Mechanical Engineering Departmental Library and Training Cell (Internal) under Career Development Centre at NIT Raipur presently. He has teaching experience of more than 18 years and also served as an Engineer at Chhattisgarh Electricity Board, in State Government. He has presented more than 20 papers in reputed journals and attended & presented research papers in many important International Conference within the country and abroad as well. He has organized many short-term training programs and other important events at his institute. He has authored three books viz. Customer Relationship Management: A Management Perspective, Execution of ERP system: A Case Study Approach and Knowledge Management: Implementation Methods and Strategies. He is lifetime member of Institute of Engineers (India), Indian Society for Technical Education (ISTE), Indian Institution of Industrial Engineering (IIIE), South Asia Institute of Science and Engineering (SAISE) and many more technical and educational bodies. He is the recipient of many prestigious awards like Mahatma Jyotiba Phule Fellowship Award, Shikshak Ratna Samman etc. He is Editorial Board Member International Journal of Core Engg. and Mgt. (iJCEM) and may other reputed journals. Dr. Suraj Kumar Mukti represented NIT Raipur in Inter NIT Sports Meet at NIT Goa in 2018 and received gold medal for Table Tennis.

8:15 am – 8:30 am (November 2)

Rituparna Datta

Manager, Data Science
Capgemini Technology Services India Limited
Capgemini, Bangalore, India

8:30 am – 8:45 am (November 2)

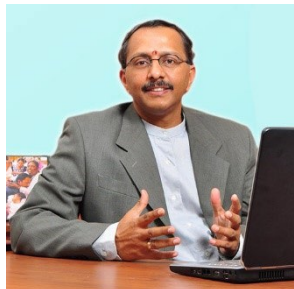


Dr Patanjali Kumar

Assistant Professor
Jindal Global Business School
O. P. Jindal Global University
Haryana, India

Dr Patanjali Kumar is an Assistant Professor in Jindal Global Business School, O. P. Jindal Global University, Haryana, India. Dr Kumar is also an Editor of Optimal Envelope, Associate Editor of International Journal of Mathematical, Engineering and Management Sciences (IJMEMS) and Vice President of IEOM (Industrial Engineering and Operations Management Society International) New Delhi Chapter, India. Dr Kumar has completed his doctoral degree in the area of Operations Management and Quantitative Techniques from Indian Institute of Management Rohtak. Dr Kumar has a master's degree in technology from the Indian Institute of Technology Delhi, India. Dr Kumar has secured all India 4th, 14th, and 19th rank in Graduate Aptitude Test in Engineering (GATE) in the year 2010, 2013, and 2015 respectively. He has completed a Bachelor of Technology with honours. Dr. Kumar

is recipient of many outstanding awards such as Outstanding Teaching Excellence in SCM Award (IEOM Society International), the best research paper award (AGBA Society), and the best performer award (Bhartiya Kalyan Samiti, Varanasi, UP, India). He has also received a silver medal in Textile Technology from Uttar Pradesh Technical University, Lucknow (U.P.). Dr. Kumar has taught at IIM Rohtak, UPES, The Northcap University Gurugram, VESIM Mumbai, and GLA University Mathura (India). Dr Kumar has published in leading journals such as European Journal of Operational Research, Transportation Research Part D, Transportation Research Part E, Journal of Business Research, Technological Forecasting and Social Change, Annals of Operations Research, Business Strategy and the Environment, Applied Economics, American Business Review, Operations Management Research, Journal of Public Affairs, and so forth. He has presented his research work in various leading conferences. He has also worked on defense, policing, and public policy projects. He is currently working in the area of Sustainable Supply Chain, Supply Chain Coordination, Innovative Supply Chain, Game Theory, Optimization, Behavioral Operations Management, and Policing Research.

8:45 am – 9:00 am (November 2)**Prof. Shekar Babu, Ph.D.**

Founding Head, AMRITA School of Business, Bengaluru and
Head, ARISE Lab
AMRITA Vishwa Vidyapeetham University
Bengaluru, Karnataka, India

Prof. Shekar has 15 years of experience in academia and 15 years in Industry. Prof. Shekar Babu is the founding head of AMRITA School of Business, Bangalore. He started AMRITA School of Business, Bangalore in 2007 in collaboration with State University of New York (SUNY), Buffalo, USA. He was also an Adjunct Faculty at School of Management, University at Buffalo, NY, USA. He worked for 10 years as a Director of Hewlett-Packard's Software Division, California, USA. He was responsible for managing the \$1Billion revenues. He worked 5 years as a Management Consultant at Price Waterhouse (PWC), Los Angeles, California, USA. Prof. Shekar has been actively working on Sustainability, SDG and CSR projects since 2007. He led the "Education through Rural Transformation" project by implementing "Village Resource Centers (VRC)" across 5 remote locations in Tamil Nadu and Kerala. The VRC project was in collaboration with ISRO and with the help of corporate funding from HP, Microsoft, CTS and CISCO.

Prof. Shekar has been working with international researchers and consultants from USA, Australia and Europe on mandated CSR and Sustainability projects with focus on Indian government and private companies. He has published close to 50+ high-impact journal international conference papers. Prof. Shekar is also a guest editor in some prestigious research journals like "Sustainability Accountability Public Governance", "Industrial Marketing Management" and "Journal of Finance and Accounting". Prof. Shekar is the Head of "AMRITA Center for Responsible Innovations and Sustainable Enterprises – ARISE" Lab. He has already secured funding of more than 2 Crores from HP, Microsoft, Cognizant, Cisco and SAN Engineering and Locomotives. The main areas of research include Technology for Social Good, Sustainability, SDGs, CSR and Ethics.

Prof. Shekar received B.E. (Electronics and Communications) degree from Bangalore University, India, M.S. (Computer Engineering) degree from California State University, Los Angeles, USA and PhD from AMRITA University, India.

9:00 am – 9:15 am (November 2)**Dr Saurabh Agrawal**

Associate Professor
School of Management
Delhi Technological University
India

9:15 am – 9:30 am (November 2)**Dr. Sunil Sharma**

Professor
Faculty of Management Studies
University of Delhi
New Delhi, India

12th Global Business Management + Project Management Plenary Speakers**Friday, November 3, 2023****3:15 am – 4:30 pm – Meeting Room 1 (Onsite)****Session Chair:** Dr. Vivek Soni F.I.E.**Speaker I**

Saurabh Parmar
CMO, Fractional
Delhi, India

He excels in facilitating the integration between businesses, brands, and digital media, encompassing areas ranging from business strategy and brand positioning to growth hacking tools and product-led growth. With experience in managing both B2C and B2B enterprises, he has steered an acclaimed communication consultancy, Brandlogist, and successfully led an eCommerce firm, Cupidly, which was later acquired. His professional endeavors have spanned various industries, including tech startups, eCommerce, subscription, and SAAS, while also serving as a visiting faculty and trainer for almost ten years.

Speaker II

Dr. Sulagna Chattopadhyay
Founder, SaGHAA
Delhi, India

With over 25 years of research and publication experience, she has focused on two areas, namely Arctic-Antarctic-Himalaya and Disaster Management. She is the founder and Editor of Geography and You (G'nY), a magazine published since 2001. Under her leadership, the magazine has completed 140 issues, and she has organized various international and national conferences. She has also edited and developed five books and 23 national and international reports for different organizations. As a principal investigator, she has undertaken 12 questionnaire-based study reports. Recently, she co-edited two books published by Springer.

Speaker III

Amit Kumar Rawat
Incubation Head, HOD, MBA, IIC, Convenor
Assistant Professor
Roorkee Institute of Technology
Roorkee, Uttarakhand, India

Speaker IV

Dr. Anchal Patil
Assistant Professor
International Management Institute
New Delhi
Delhi, India

Dr. Anchal Patil is a scholar in the field of Disaster Relief Operations and Supply Chain. He has a PhD from Department of Management Studies, IIT Delhi. His research interests include application of simulation, optimization, and MCDM methods to improve supply chain performance. His PhD focuses on the performance improvement of disaster relief operations. Anchal has published several research papers related to transportation and humanitarian work in reputed journals, including the BSE, IJPDLM, IJLM, CIE and IJDDR. Anchal is currently working at IMI New Delhi as a research track faculty.

Speaker V

Dr. Vivek Soni F.I.E.
Assistant Professor
Faculty of Management Studies
University of Delhi
New Delhi, Delhi, India

Dr. Vivek Soni is a faculty in Operations, Supply Chain Management, and IT Analytics at one of the well-reputed educational systems at the Faculty of Management Studies University of Delhi. He acts as a critical-thinking academic enabler to the management students, and researchers of both full-time and part-time executive batches of MBA, MBA (Ex.) & MBA (Healthcare Exe). Working as an Assistant Professor, his teaching interest is in the Operations area, and research on wide dimensions of subject matters in the holistic development of India.

Previously, he served at Jaipuria School of Business (Delhi / NCR) as Area Chairperson (Operations) and Head (Research and Development). Dr. Soni holds a Ph.D. in Operations Management area from the Department of Management Studies, Indian Institute of Technology Delhi (IIT Delhi), M. Tech. (IIT Delhi), B. Tech. (Motilal Nehru NIT Allahabad) and also holds a MBA degree in the Operations Area. His Ph.D. dissertation is on systems modeling for security and sustainability in the Indian energy sector and his MBA dissertation is on higher education policy framework in an industry 4.0 context. He has been contributing to teaching at premier academic institutions such as FMS University of Delhi, BULMIM, BIMTECH Greater Noida, Great Lakes Gurgaon, LBSIM, and TERI SAS Delhi.

Dr. Soni has also contributed several papers in international journals such as Resources Policy, Journal of Business Research, Indian Journal of Public Administration, Sustainable Production and Consumption, Transforming Government: People, Process, and Policy, Int. Journal of Energy Sector Management, Information and Computer Security, and Advances in Management Research and many more on decision-making on energy, sustainability, digital society, public services, academic governance arrangement, project management and business in the Indian context, etc. He is also an editorial advisory board member of Int. Journal of Energy Sector Management. His research work is also appeared at international conferences at the Industrial Engineering & Operations Management Society Singapore (2021), the International Academy of Business, and Economies (IABE), USA (2012), The Institute of Energy Economics (IEEJ) Japan (2009), and Canadian University of Dubai, (2014). Dr. Soni also works as a consultant to Indian Corporate, is also a fellow of the Institution of Engineers India, and is a certified independent director by the Ministry of Corporate Affairs, Govt. of India. He is an active life member of several professional associations/ research, & training forums including the Indian Institute of Public Administration New Delhi. As a unique management proposition towards society, he supports the academic legacy of India's chapter of IEOM Society USA in New Delhi.

Speaker VI

Dr. Anita Yadav
Assistant Professor
Maharishi Markandeshwar (Deemed to be University)
Gurugram, Haryana, India

41st IEOM Industry Solutions and Industry 4.0 – Plenary Speakers

Friday, November 3, 2023
4:30 – 6:00 pm – Meeting Room 1 (Onsite)

Session Chair: Ekta Rohra Jafri

4:30 – 4:45 pm (November 3)



Ekta Rohra Jafri
Consultant
Formerly cloud architect, IBM
Delhi, India

Ekta Rohra Jafri is a design leader with over 20 years of experience & many commercially successful products under her belt. She carries with her the toolset of design to address real world problems and use cases of digital transformation, organizational change and new initiatives. She and her teams have won 3 iXDA awards, presented at the prestigious World Design Organization and have designed award winning business platforms. Ekta has skillfully handled multiple industries and verticals from healthcare to finance with many others in between. She has been a proponent of data driven design for many years now and speaks and teaches on the intersection of design and technology. Speculating about the future through her writing in Sienna Tales, her story blog on how 2030 will pan out for humanity, she tries to bring in a plurality of different futures together into an era of abundance and social reform. Sustainability and the role of policy in our futures is what excites her about tomorrow. In studying various futures, be it in medicine, finance, construction, or lifestyle, she has developed a comprehensive point of view around the technologies that drive us today. She's here to present her research and give us a view to the advantages and pitfalls that different technologies being used in the 4th Industrial Revolution bring to the table.

5:15 – 5:30 pm (November 3)



Kanishk Gaur
Founder
India Future Foundation
New Delhi, India

Kanishk Gaur is an expert in Cyber Security, Public Policy, Government Affairs, and Digital Technology, with a focus on areas such as Cyber Security, Data Protection, Privacy, Policy Regulation, Safety, and Digital Laws. He is a well-known host, Tech Commentator, and columnist for India's top news journals, including Economic Times, Financial Express, and Business Standard, and frequently appears on leading news channels and TV shows. Kanishk advises leading global tech companies, governments, defense and security companies, and enterprises on Cyber Defense, Advanced Cyber Threats, Online Harms, Tackling Misinformation, and Implementation of Security Standards to secure emerging technologies such as Artificial Intelligence, Machine learning, Robotics, and Cloud. He has advised the Indian government on Cyber Security Strategy and Internet of Things (IoT) Standards and works closely with Tech Policy Leaders and Think Tanks in India and the United Kingdom.

In addition to advising Private Family-run Businesses, Entrepreneurs, and Enterprises on Cyber Security, Privacy, Digital Transformation, and the implementation of emerging technologies, Kanishk is also a British Chevening Commonwealth Fellow who underwent Leadership Training at the United Kingdom's prestigious Royal Military College of Science (Shrivenham Defence Academy). With over 15 years of experience, Kanishk has held leadership roles with Deloitte, Ernst & Young (EY), and Synopsis Inc, leading roles as Managing Director Consulting and Strategy Advisor to CXOs/Business leaders in emerging markets and held Profit & Loss responsibility. He is a TEDx Speaker and visiting faculty at leading Indian Business Schools (IIMs, MDI, FSM) and a speaker at the Chamber of Commerce (ASSOCHAM, CII, FICCI). For his work in innovation, leadership, and Cyber Security, Kanishk was awarded the 'Chevening Fellowship' by U.K FCDO. Furthermore, Kanishk has been the change agent driving India Future Foundation for the last four years, impacting millions of families in India, especially vulnerable groups, and working towards education and empowerment of children and youth in rural areas through its Digital Literacy, Financial Inclusion, Online Safety, Cyber Awareness Sustainable, and scalable programs. India Future Foundation works in partnership with the United Nations, Indian Central Government, State Government (Maharashtra, Kerala, Assam), Police, Industry, Civil Societies, and Self Help Groups in implementations.

5:00 – 5:15 pm (November 3)



Prof. Timira Shukla
Director
I.T.S School of Management
ITS: The Education Group
An ISO 9001:2015 Certified Institute
Mohan Nagar, Ghaziabad

With over 35 years of experience in academics and industry, has made immense contributions to academics, research, and training; and in institution-building. Her academic credentials include the design and development of course curriculum, interaction with regulatory bodies, and academic administration besides taking up teaching assignments in the field of marketing, marketing research, sales, and distribution business communication and personality development activities.

In her current assignment as Professor, she has been associated with institution-building activities, conducting intensive orientation programs and mentoring and counseling students. She has guided over 700 students for summer internships and project work. She has served as HOD for over 18 years.

She has over 50 publications in national and international refereed journals and national and international conference proceedings which include IIM-Kozhikode, IISc-Bangalore, GLOGIFT-Austria, AIMS-Dubai, and Asia-Pacific Business Conference-Malaysia. She has chaired and co-chaired many sessions in the field of management. She has conducted communication workshops and training programs for government bodies regularly for their skill enhancement.

5:15 – 5:30 pm (November 3)

Rajeev Johari
Associate Professor
I.T.S School of Management
ITS: The Education Group
An ISO 9001:2015 Certified Institute
Mohan Nagar, Ghaziabad

Professor Rajeev Johari, a highly accomplished academician, has had an illustrious career spanning over 18 years in the field of economics. With a Doctorate in Economics and an MBA in International Business and Operations Management, he has established himself as an expert in the field of economics and management. He has been associated with several prestigious institutions, including Delhi University colleges and Jamia Millia Islamia. Throughout his career, he has been actively involved in teaching both undergraduate and postgraduate students and has guided several research projects. He has also served as an examiner, observer, evaluator, and paper setter, demonstrating his expertise in the field of academics. Apart from teaching, he has also been actively involved in administration, having organized several seminars and workshops. He has also liaised with government departments and has been instrumental in the formulation of various projects. He is a prolific writer and has published 25 research articles in refereed journals. He has also contributed to the field of academics by writing study modules for prestigious universities.

5:30 – 9:45 pm (November 3)

Susheel Baloji
Deputy General Manager
Purchase Ferrous Castings
Tata Motors Limited
Pune, Maharashtra, India

5:45 – 6:00 pm (November 3)

Dr. Ashok Mittal
Retired Professor IIT Kanpur
Director on Board, IIITD Innovation and Incubation Center
New Delhi Area, India

Dr. Ashok K Mittal retired as Professor from Industrial and Management Engineering Department at the Indian Institute of technology Kanpur in June 2013 where he served as faculty member for 38 years in the Department of Industrial Management and Engineering. During this period he also served as Head of the Industrial and Management Engineering Department, Dean of Planning and Resource Generation, Dean of Research and Development and head of Visionary Leadership for Manufacturing program and MHRD Chair Professor in Intellectual property rights. He also served as Visiting Faculty at Kellogg School of Management North western University for one year, He also assisted Mazardan University Iran in setting up their Ph.D. and MBA program, and Defense college Ethiopia in starting MTech program. After retirement he was associated with several Institutes including Indian School of Business where he was Director of MPMO Program and visiting faculty (part time) with IIT Delhi. He was also founding Director and chairman of IIITD Incubation and Innovation Centre a section 8 company, where he continues as Advisor. He has been President of Operational Research Society of India for the years 2007-2008. He has been President of Quality Circle Forum of India, a NGO providing training for grassroot workers in Quality concepts. He graduated as Mechanical Engineer from IIT Kharagpur in 1969 from where he also completed MTech in Industrial engineering and O.R. in 1972. He did PhD from Case Western reserve University Cleveland USA in Operations Research in 1975. His area of interest includes Operations research, Operations Management, Intellectual Property Rights and Entrepreneurship.

21st IEOM Global Supply Chain and Logistics – Plenary Speakers

Saturday, November 4, 2023

8:00 – 9:45 am – Meeting Room 1 (Onsite)

Session Chair: Dr. Gaurav Kabra

8:00 am – 8:20 am (November 4)



Dr. Gaurav Kabra

Associate Professor, Operations and Supply Chain Management
O.P. Jindal Global University (JGU), Delhi, India

Dr. Gaurav Kabra earned his PhD in the area of Supply Chain Management from the Indian Institute of Technology Roorkee, India. He holds a B.Tech (Information Technology) and MBA from the Indian Institute of Information Technology and Management Gwalior (IIITM Gwalior), India. He has received the 'Highly Commended Paper Award' from Emerald Literati Network Awards for Excellence-2016. He has been conferred the 'Best Paper' award in several International Conferences, including the International Conference of Society of Operations Management 2019. He was recognized as top seven researchers in the area of humanitarian supply chain management in 2018. He has co-authored a book titled "Think New Think Better: Select Cases on Entrepreneurship". His research articles have been published in various journals of national and international repute, including Production Planning and Control, International

Journal of Disaster Risk Reduction, Telematics and Informatics, Neural Computing and Applications. His research areas include Operations Management, Supply Chain Management, Humanitarian Logistics, Application of IT in Business, and Sustainable Supply Chain Management.

8:20 am – 8:40 am (November 4)



Vernika Agarwal, PhD

Associate Professor
Apeejay School of Management
Dwarka, New Delhi, India

Dr. Vernika Agarwal holds the position of Associate Professor in operations at Apeejay School of Management, Dwarka, New Delhi, India. Her expertise spans diverse domains including green supply chains, circular economy, sustainability, cross-disciplinary research in supply and operations management, optimization, reverse logistics, and empirical research. Having earned her doctorate in operations and supply chain management from the Department of Operational Research at the University of Delhi in 2019, she has an impressive record of many research papers featured in esteemed national and international journals, as well as presentations at various conferences. She has been conferred the 'Best Paper' award in several International Conferences. Her scholarly impact is underscored by her recent publication in Business

Strategy and the Environment (Impact factor: 13.4) and a significant presence in ABDC listed journals. Notably, she serves as the Guest Editor for a Special Issue on "MSME's Resilience and Performance: COVID-19 Perspective" in Benchmarking (Emerald) - ABDC-B. Adding to her accomplishments, she has authored a book titled "Lean and Green Manufacturing - Towards Eco-Efficiency and Business Performance," featured in the Management and Industrial Engineering book series by Springer. Currently, she has more than 50 SCOPUS indexed publications.

8:40 am – 9:00 am (November 4)

Dr. Abdul Ahad

Assistant Professor, Department of Civil Engineering
Jahangirabad Institute of Technology
New Delhi, Delhi, India

9:00 am – 9:20 am (November 4)



Prof. (Dr.) Rajesh Kumar Singh

Professor (Operations and Supply Chain Management)
Management Development Institute
Gurgaon, India

Prof. (Dr.) Rajesh Kumar Singh is working as Professor (Operations and Supply Chain Management) at Management Development Institute, Gurgaon, India. Prof. Singh is figured among the top 2% of researchers in the Business Management area by a study conducted by Stanford scholars and others and handling editorship and guest editorship of a few reputed leading international journals such as International Journal of Consumers Studies (Wiley) ("A" Category journal by ABDC), International Journal of Global Business and Competitiveness (Springer), Sustainable Production and consumption (2021) on Strategies for Resilient and Sustainable Supply Chains in an Uncertain Business Environment, Operations Management Research Journal (Springer), Competitiveness Review (Emerald), Journal of Modelling in Management, and Journal of Global Operations and Strategic Sourcing (2020) on Application of Blockchain Technologies for Global Operations. He also serves as an active member of the

Editorial Board of Journal of Supply Chain Management Systems, Vision (Sage) and Resources, Conservation and Recycling (Elsevier) on Supply Chain Management, Industry 4.0, and the Circular Economy. He earned his BTech in Mechanical Engineering from Dayalbagh Educational Institute (Deemed University Agra), MTech from IIT Roorkee, and a Ph.D. degree from Delhi University Delhi, India.

9:20 am – 9:40 am (November 4)



Dr. Imtiaz Ali Khan
M.Sc.Engineering, Ph.D.
Professor, Mechanical Engineering Department
A.M.U., Aligarh, India

Area of Research Interest: Industrial Ergonomics, Production Planning and Control, Manufacturing Analysis, Industrial Automation, CAM, CIM, Work Simplification. Area of Teaching Interest: Operation Research, Ergonomics, Industrial Engineering, Economics and Management, CAM. Name of Publication Journals: Springer's, 'Cognition Technology & Work, Precision Engineering and Manufacturing, Interactive Design and Manufacturing and Applied Machine Tool Technology, Taylor & Francis, InTech Open Access, Lambert Academic Publishers, Germany, International Journal of Human Factors and Ergonomics, International Journal of Engineering Research and Applications, International Journal of Science, Technology and Society, International Journal of Artificial Intelligence and Mechatronics.

9:40 am – 10:00 am (November 4)



Dr. Sunil Sharma
Professor of Operations, Quality & Supply Chain Management
Faculty of Management Studies (FMS)
University of Delhi
Delhi-110007, India

Dr Sunil Sharma is a Professor at the Faculty of Management Studies (FMS), University of Delhi, Delhi in the area of Operations Management for the last 34 years. He is an M.Tech. from IIT Delhi and Ph.D in. Total Quality Management from FMS, University of Delhi. He specializes in TQM and Supply Chain Management in which areas he has presented papers and chaired sessions at many international and national conferences including at IIM Ahmedabad, IIM Bangalore, IEOM Conference in Indonesia and Assumption University,

Thailand etc. He received UGC National Research Award in 2003-05 to work on Supply Chain Management Practices in India based on which he published a book from Oxford University Press.

He got Dewang Mehta award for best Teacher in Operations Management in 2011. He also received Prof Y.K. Bhushan Most Influential Professor Award at Mumbai in 2022. He has published three books and a number of papers in reputed national and international journals. He completed ITP (International Teachers Programme) at Kellogg School of Management, USA in 2010. He also participated as a group leader at a Global Colloquium of Participant Centered learning held at Harvard Business School, USA in 2013. He has been associated with Eastern and Western Dedicated Freight Corridors of Government of India as Chairperson of Social Impact Assessment Group. He is Chairperson of the Management Development Programs (MDPs) at FMS, University of Delhi. He is on Research Jury of NIFT, New Delhi. He is on board of studies and Faculty board member in a number of institutions including Aligarh Muslim University, Central University of Jammu and Indian Institute of Materials Management (IIMM) etc.

Machining and Smart Manufacturing – Plenary Speakers

Saturday, November 4, 2023

8:00 – 9:45 am – Meeting Room 2 (Onsite)

Session Chair: Dr. Andriya Narasimhulu

8:00 am – 8:20 am (November 4)



Dr. Andriya Narasimhulu
Assistant Professor
Netaji Subhas University of Technology
Delhi, India

Dr. Andriya Narasimhulu received his B.Tech. in Mechanical Engineering from SK University in 2007. He received his M.Tech. degree in Production Engineering from the Indian Institute of Technology (IIT) Delhi in 2009 and his Ph.D. in 2015 from IIT Delhi, India. He joined as an assistant professor in the Department of Mechanical Engineering at the Netaji Subhas University of Technology, New Delhi, in 2013. Dr. Andriya Narasimhulu has over 10 years of diversified experience in teaching and learning, accreditation, research, industry, and academia. Currently, he is an assistant professor at the Netaji Subhas University of Technology, India. He has published around 30 research papers in journals and conferences of national and international repute. He is a member of various professional bodies such as ASME, IEI, and ISTE. Under his guidance, 10 M.Tech. students have completed their dissertations major research focusing on Non-Pneumatic Tires (NPTs), Computer Integrated manufacturing, and industrial automation.

8:20 – 8:40 am, Saturday, November 4, 2023



Dr. Akhter Husain Ansari
Ph.D., M.ScEngg, B.Sc. Engg
Professor, Mechanical Engineering Department
A.M.U., Aligarh, India
Thrust Area of Research: Stir Casting, Conventional and non-conventional sintering in Powder Metallurgy, Cutting fluid, Stir welding.

Research Area: Metal cutting, Stir casting, Stir welding, Powder Metallurgy, Material Science, Metal & Polymer matrix nano-Composites. . Patents: Awarded: 01 Published in Patent Journal of India: 17 Research papers published/presented in journals/conferences: 83 Secured B.Sc. Engg.(Mech) in 1983, M.Sc.Engg (Ind& Prod) in 1987 and PhD in 2004 from Z.H. College of Engg. & Tech, Aligarh Muslim University, Aligarh. Joined teaching as a lecturer in University Polytechnic in 1984. Joined the Department of Mechanical Engineering in 2010 as a Professor. Has keen interest to teach Manufacturing Engineering subjects to under-graduate and Post -graduate students. Currently, focusing his research in stir welding and the synthesis of mechanically alloyed nano metal

powder, fabrication of metal & polymer matrix nano composites through solid as well as liquid routes.

8:40 – 9:00 am, Saturday, November 4, 2023

Dr. Qasim Murtaza
Professor
Department of Mechanical Engineering
Delhi Technological University
India

9:00 – 9:20 am, Saturday, November 4, 2023



Dr. Lalit Kumar Sharma
Dean & Professor
Mangalmay Institute of Management & Technology
Greater Noida, Uttar Pradesh, India

Dr. Lalit Kumar Sharma is an experienced Professional with a demonstrated history of 25 years working in the training domain in healthcare (Cipla, Ranbaxy, Nicholas Piramal) and management education industry. He is working as Dean & Professor at Mangalmay Institute of Management & Technology, Greater Noida. Dr. Sharma is associated with many MNCs and educational institutions for Training and Development. His experience and association with people from various domains helps him to effectively manage people and their behaviour. He is creative and possesses excellent inter-personal management skills. He has conducted training programs on Toyota Production System, Sales & Marketing, Client Acquisition, Productivity Enhancement, Organizational Culture,

Motivation, People Management, Leadership, Women Empowerment, Gender Sensitization, Research, Business Management etc. Dr. Sharma is Marketing Mentor of 5 Startups at present. He is author of 27 research papers (Indexed in ABDC, SCOPUS) and 24 Management Books in the area of Marketing, Research, Global Business. Dr. Sharma received PhD in E-Marketing from CTU Ahmedabad, Master of Business Administration (MBA), Marketing Management from PTUPTU, Master of Philosophy (M.Phil.) in Management from VMUVMU and PGDBA, Management (Marketing, HR) from GSBAGSBA.

9:20 – 9:40 am, Saturday, November 4, 2023

Prof. Ravi Prakash
Professor & Dean
Management at Univ.
Delhi, India

9:40 – 10:00 am, Saturday, November 4, 2023



Dr Hima Gupta

Director Placement & Professor
IILM University, Gurugram
Gurugram, Haryana, India

Dr Hima Gupta is a Director Placement & Professor at IILM University, Gurugram, Haryana, India. She was Professor & HOD at Indira Institute of Management, Pune, Associate Professor at Jaypee Institute Of Information Technology, Assistant Professor at Institute of Management Studies (IMS) Ghaziabad – Business School and Deputy Manager at LNJ Bhilwara Group. Dr. Gupta worked as Project Officer at Nitra Technical Campus, Ghaziabad and Trainee Officer at Ahmedabad Textile Industry's Research Association (ATIRA). She has 30 years work experience. Her research interests are Project Management, Strategic Management, Operations Strategy, Resource Management & SAP, World Class Manufacturing, Quality Management, Production Planning and Control. She is involved in Accreditation – NBA and NIRF. She earned Ph.D. in Management, PGDBM in Operations & Finance

from Institute of Management Technology, Ghaziabad and BS in Textile Technology from Government Central Textile Institute Kanpur.

Global Lean Six Sigma and Operations Excellence Plenary

Saturday, November 4, 2023

3:15 – 4:30 pm – Meeting Room 1 (Onsite)

Session Chair: Sanya Verma

Speaker I



Dr Naveen BP

Professor & Director of Quality Assurance & Enhancement (QAE)
Amity University Lucknow Campus, Chartered Engineer, MIE
Lucknow, Uttar Pradesh, India

Field Test and Simulation of Large Diameter Vertical Loaded Pile in Residual Soils

Dr. Naveen.B. P did his B.E. from the University Visvesvaraya College of Engineering (UVCE), Bangalore., M. Tech (Geotechnical Engineering) from the National Institute of Technology Karnataka, Surathkal, M.S (Geotechnical Engineering), Ph.D. & Postdoctoral (Geotechnical Engineering) from Indian Institute of Science, Bangalore. Currently, he is working as Professor & Director of Quality Assurance Enhancement (QAE), Amity University Lucknow. He was involved in teaching, research as well as administration. Also, he handled the National

Assessment and Accreditation Council (NAAC) and Sustainable Development Goals (SDGs) accreditation. He has 6 .5 years of post-PhD teaching experience, 5.5years of industry experience after graduation & post-graduation, and 6 years of research experience during his Ph.D. amounting total experience of 18 years. His area of research is Geotechnical and Geoenvironmental Engineering and his Ph.D. work were related to "Assessment of Leachate Characteristics & Geotechnical Properties of Municipal Solid Waste Landfill".

His Ph. D. Thesis is referred by Bruhat Bengaluru Mahangara Palike (BBMP) and Karnataka State Pollution Control Board for reopening of Mavallipura landfill. He Served as Resource Person and Taught for regular Ph.D. Students on the topic entitled " Solid Waste Management" at Centre for Nano and Soft Material Science (CeNS) research institute under the Department of Science and Technology (DST), Government of India & NLD Training Institute, Bhutan. He has total of 896 Google scholar-cited international/ national journal publications in various referred journals like ASTM geotechnical testing, Environmental Pollution, Measurement., etc. including peer-reviewed conference proceeding papers. Out of these publications, 28 documents are SCI/Scopus indexed. He is the Chief Editor of one international Journal in his area of research. He has reviewed several research articles in Elsevier, SAGE, Taylor & Francis, and Springer. He has also collaborated on research with different groups and research centres during his academic career.

He has also bagged 5 awards (IEI Young Engineers Award, Professional Excellence Award, ISSMGE Foundation Award, Centre for International Co-operation in Science (CICS), and Sir M Visvesvaraya Award). In the year 2019 Nominated and selected by the Indian Geotechnical Society (IGS), as one of the two Young Geotechnical Scientists (aged below 35 years) to represent India and present a research paper at the 9th Young Asian Geotechnical Engineers Conference (9AYGEC) and 15th International Conference on Geotechnical Engineering (15ICGE). He is a member of Institute of Electrical & Electronics Engineers (IEEE), American Society of Civil Engineering (ASCE), American Society for Testing and Materials (ASTM), International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), Indian Geotechnical Society (IGS), Karnataka Environmental Research Foundation (KERF), National Foundation for Entrepreneurship Development (NFED), Consulting Engineers Association of India (CEAI), Institution of Engineering and Technology (IET), Institution of Engineers India (IEI).

He has developed a Pile Modelling Design Kit using PLAXIS 2D & 3D, with detailed cases from the industry for fresh/intermediate Geotechnical Design Engineers. He is well versed in using a numerical package (useful in Geotechnical and GeoEnvironmental profession) like PLAXIS 2D & 3D, Pollute, Deep soil, Shake 2000, Geo 5, Alp Oasysis, Autocadd. In addition, he handled Soil Mechanics and Foundation Engineering course at International Geotechnical Centre CGI, Lima – Peru.

He has guided several Ph.D., M.S. M. Tech, and B. Tech students. He has delivered more than 65 plus invited lectures in various engineering, research institutions, and technical associations. He has handled National Assessment and Accreditation Council (NAAC) & Sustainable Development Goals (SDG) accreditation process at Amity University Haryana. He has also contributed to various consultancy projects during his stay in Amity University Haryana, such as Surat Metro Project, Conversion of Meter Gauge Line to Dual Gauge from Parbatipur to Kaunia Section of Bangladesh Railway Project of Bangladesh Railway, Installation and Commissioning of Handpumps in Barmer & Jaisalmer Districts, etc., He has overseas worked experience having worked in Bangladesh, Kenya, Japan, and USA

Speaker II



Dr. Sumit Shandilya

Adjunct Professor – Operations & Supply Chain
School of Management, BML Munjal University
Executive Director & Chief Strategy Officer – QGS Group
Director – CCSL Consulting, Australia
Board Member – IIPE India

Dr. Shandilya is an Analytics, Operations, Supply Chain and a Business excellence professional. He is a key resource for deployment of Industry 4.0, Quality Management system, Performance Management, Lean manufacturing system, Six Sigma, TQM, TPM, Problem Solving, Malcolm Baldrige Business Excellence Model and Operational Performance Excellence strategy initiatives. He has supported and mentored various organization for activities related to implementation of tools related to Data Analytics, Lean Six Sigma, IATF, SPC,

MSA, Minitab etc. His clients are from both service and as well as manufacturing sectors like Banks, E-commerce, automobile, education, minerals and metals etc.

Education

- Doctor of Philosophy (Ph.D.) – BML Munjal University
- B.A. (Operations) – Symbiosis Institute of Business Management
- G. Diploma – Project Management – MIT Sloan, USA
- Sc. (Applied Statistics) – Indira Gandhi National Open University

- G. Diploma – Energy Management – Symbiosis Centre for Distance Education
- E. (Mechanical Engineering) – Nagpur University

Dr. Shandilya is an ASQ professional and an accredited lead auditor registered with National accreditation board, Quality Council of India. He is certified project management professional (PMP), certified ZED consultant by Quality Council of India and a certified business analytics professional by ICMS Sydney. Over the years he has received many awards & accolades which are mentioned below:

- Platinum award for research by Confederation of Indian Industries (CII)
- Patent published by Govt. of India
- ET Young leader of the year
- Qualified UPSC allied services examination (mains & interview)
- Bronze medalist, National games (Athletics – Shotput)
- National Merit Award for Quality
- Business World 40 under 40 industry experts

Professional Associations

- Communication Chair & Member – American Society for Quality, Delhi LMC
- Jury, Faculty & Life member – Quality Circle Forum of India
- Member – Industrial Engineering & Operations Management Society, USA
- Member – American Society for Mechanical Engineering
- Member – Royal Statistics Society, UK
- Member – American Society of Mechanical Engineers (ASME)

Speaker III



Dr. Vinaytosh Mishra

Associate Professor, Healthcare Management, Digital Health and Healthcare Analytics
College of Healthcare Management and Economics
Gulf Medical University, Ajman, UAE

Title of Talk: Value Creation Using Digital Lean in Healthcare

Dr. Vinaytosh Mishra is the Director of Thumbay Institute for AI in Healthcare and Associate Professor for Healthcare Management (Management, Digital Health, and Health Analytics) at the College of Healthcare Management and Economics, Gulf Medical University, Ajman (UAE). He has over 16 years of experience in Healthcare, EdTech, Finance, and Information Technology. He made a diabetes speciality clinic into a fifty-bed multi-specialty clinic during his tenure at Aaroha Healthcare (P) Ltd. In his last Assignment as Associate Professor at FORE School of Management, New Delhi, he was program director for two successful long-duration programs, namely “Building Intelligent Healthcare Analytics” and “PGPM in Healthcare Management and Analytics”. He is also a certified Diabetes Educator and Master Blackbelt in Lean Six Sigma. Dr. Mishra is a proponent of system thinking and is certified by the Massachusetts Institute of Technology, USA, in System Thinking. He also holds advanced certification in System Dynamics Modeling from ATC-INNOVA, Spain. He is also a certified supply chain management expert specialising in healthcare supply chains. His work for system dynamics modelling for diabetes management was recently published as a successful application by the System Dynamics Society, USA. He has also successfully filled out an Australian patent for a device for the early detection of diabetes using nail fold capillaroscopy and a German patent for a Diabetes Education and Lifestyle Management product named Banting. He is also engaged as a domain expert for AI implementation in healthcare for a U.K.-based firm, Bikal.

In addition, Dr. Mishra has an advisory board and adjunct positions with leading institutes in India, such as Datta Meghe Institute of Higher Education & Research, Nagpur, and Panacea Institute of Interdisciplinary. Research and Education, Varanasi. Dr. Vinaytosh Mishra has published in journals of international repute (ABDC/Scopus/SSCI) and served as a reviewer for various international journals. Dr. Mishra is also on the editorial board of leading journals such as Hospital Topics and Frontiers in Digital Health. He features regularly on 100.3 FM Talk Business and Sport Show as a Business Strategy and Technology Expert. He is an invited columnist for Asia Development Bank Asia Pathway, Times of India, and The Brew News, UAE. Dr. Mishra is especially interested in building an entrepreneurship ecosystem and acting as a business mentor for leading incubators in India and UAE as a Healthcare Technology, Healthcare Management, Public Health, Service Operations, and Supply Chain management expert. He is a member of the ASA, System Dynamics Society and IEEE.

Speaker IV



Sanya Verma

Research Analyst, GSMA
Master of Business Administration, Amity Business School
Lean Six Sigma Green Belt Certified, British Standards Institution
Certified Digital Marketer, Accenture in India
Marketing Analytics Certified, Henry Harvin

A title of your talk: Lean: The Principles, Pitfalls and the Best Practices

Sanya Verma, currently serves as a Research Analyst at GSMA, where she has dedicated the past one and a half years of her career to making a significant impact. Her journey, however, is one characterized by continuous growth and achievement. Sanya's academic foundation is built upon the solid cornerstone of an MBA, which she successfully completed just last year in 2022. However, Sanya's journey extends far beyond the classroom. She has amassed a wealth of invaluable experience through numerous internships in the research, marketing and agile field allowing her to grasp the intricacies of agile methodologies. This hands-on experience equips her to navigate the ever-evolving business landscape with unparalleled finesse. She has published several research papers focused on cutting-edge topics such as the Metaverse, AI, and various tech-related concepts. Her commitment to advancing the frontiers of knowledge extends to her active participation in prestigious global conferences. For two consecutive years, Sanya has presented her research papers on topics like “Impact of COVID-19 on Trade: The Indian Perspective” at the Global Leadership Research Conference 2021 and presented another research paper on “Artificial Intelligence and Blockchain in Banking Sector: Challenges and Opportunities”

at the Global Leadership Research Conference 2022. Sanya showcased her analytical skills and depth of knowledge by presenting a compelling case study titled "Factors Influencing Investment Needs and Patterns" at the International Case Study Conference – Renvoi 2021. Sanya is also a Lean Six Sigma Green Belt certified professional from the British Standards Institution, showcasing her dedication to process improvement and operational efficiency. Her strategic mindset, coupled with her analytical acumen, is a force to be reckoned with. In our rapidly changing digital landscape, Sanya recognizes the importance of staying ahead of the curve. She has fortified her skillset with certifications in digital marketing and analytics as well, which are the invaluable tools for success in the data-driven world of today.

Speaker V



Dr. Mohd Ali

Ph.D. (IIT Delhi), Msc. Engineering (Mechanical)

Professor

Department of Mechanical Engineering

A.M.U., Aligarh, INDIA

Thrust Area of Research: Industrial Engg., Manufacturing System, FMS, CIMS, Simulation, SCM, Manufacturing Process

Mohammed Ali took his Mechanical Engineering in 1991 and Master in Industrial Engineering in 1995 from Aligarh Muslim University, Aligarh, U.P. Subsequently he did Ph.D. from IIT-Delhi, in 2007, in the domain of CIM systems under the supervision of Late Prof. Subhash Wadhwa and Prof. P. V. Rao. At present, he is working as a Professor in the Department of Mechanical Engineering, A.M.U. Aligarh. He has taught many subjects ranging from Industrial Engineering, Industrial Management, Economy and Management, Manufacturing Engineering, etc. He has publications in journals such as the International Journal of Production Research, Global Journal of Flexible Systems Management, International Journal of Industrial and System Engineering, International Journal of

Industrial Engineering, Studies in Informatics and Control Journal, etc. He has also a number of publications in International and National Conference proceedings. Two patents are published in the Official Journal of the Patent, New Delhi. His interest includes Flexible Systems, Simulation, CIMS, etc. He has also reviewed papers for renowned journals.

Speaker VI



Dr. Faisal Talib

PhD (IITR), M.Sc. Engg. (Industrial Engg.), B.Sc. Engg. (Mechanical Engineering)

Professor

Mechanical Engineering Department

A.M.U., Aligarh, India

Thrust Area of Research: Total Quality Management; Multi-Criteria Decision Making (MCDM) Techniques; Industrial Engineering and Operations Management

Dr. Faisal Talib is a Professor in the Department of Mechanical Engineering, Zakir Husain College of Engineering & Technology, Aligarh Muslim University (AMU), Aligarh, (U.P.), India. He holds a Ph.D. degree from IIT Roorkee and Masters in Industrial Engineering from AMU. He has over 26 years of teaching and research experience and has more than 110 publications to his credit in national/international journals and conferences, including 45 papers in SCI/SCIE/Scopus journals and published 08 Book Chapters. He has successfully guided 03 PhDs, and 04 are in progress. He has also supervised 05 M.Tech. dissertation theses and 08 M.Tech. projects. His work has been

published and cited in various peer-reviewed refereed journals, including Journal of Cleaner Production, Environmental Science and Pollution Research, Sustainability, International Journal of Sustainable Engineering, Total Quality Management & Business Excellence, International Journal of Health Planning and Management, International Journal of Quality & Reliability Management, International Journal of Sustainable Engineering, International Journal of Service Business, Benchmarking: An International Journal, International Journal of Productivity & Quality Management, and International Journal of Mobile Communications to name a few. His special interest includes Quality 4.0, Total Quality Management (TQM), Sustainable Practices, Operations Management, Multi-Criteria Decision Making (MCDM) Techniques, and Quantitative research. Additionally, he is a member of various advisory boards/editorial boards of International Journals and serves as an expert reviewer in the review panel of several International Journals of repute, including the International Journal of E-Entrepreneurship and Innovation, International Journal of Productivity Management and Assessment Technologies, International Journal of Information Systems in the Service Sector, International Journal of Business Intelligence Research, and International Journal of Service Science, Management, Engineering, and Technology. He is also a member of notable professional bodies, some of which includes Indian Society for Technical Education (ISTE), The Institution of Engineers (IEI), International Association of Engineers (IAENG), and International Engineering and Technology Institute (IETI). To conclude, he has more than 4000 citations (h-index= 29, i-10-index= 56) to his credit indexed by Google Scholar.

Panels Speakers

Women in Industry and Academia (WIIA) Panel

Thursday, November 2, 2023
2:00 – 3:15 pm – Meeting Room 1 (Onsite)

Session Chair: Prof. Seema Singh, Professor of Economics at Delhi Technological University, Delhi, India

Panel Speaker I



Prof. Dr. LEONG Wai Yie

Immediate Past Chairperson of The Institution of Engineering and Technology
Council Member, the Vice President of the Institution of Engineers Malaysia (IEM)
Vice President of International Network of Women Engineers and Scientists (INWES)
Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)

She specialises in medical signal processing and telecommunications research. She has been researching IR4.0, wireless sensor networks, ultra-wideband and wireless communications, and Brain Signal Processing for signal conditioning and classification in various EEG-based mental tasks. She has developed a gait analysis system and upper limb tracking system. The novel bio-informatics technique has been commercialized and licensed to healthcare companies to extract important features of biomedical signals. Her research works have contributed to cultural enrichment, quality of life, health, and well-being and enhanced the biomedical research capacity, knowledge, and skills of businesses and organisations. The research project has also contributed toward the wealth

creation growth of biomedical companies, business revenue, and innovative capacity. She has been successfully attracting R&D investment from businesses. Wai Yie has been awarded the Private Education Excellence Awards 2022 'Special Recognition – National Unity Award' under the University category, 2022 Laureate of the WFEO Women in Engineering Award, First Runner Up of the 2021. Wai Yie has been the National and International Academic Accreditation Panel for more than 20 universities. She has over 10 years of research and industry experience in Australia, Singapore, the United Kingdom, and Malaysia, with a special interest in biomedical signal; image processing, smart control, telecommunications, and wireless sensor networks. She was also the 2013 Young Scientist (by the Academy of Sciences Malaysia) and has been elected as the Chair of the International Networking Group of Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM). She has been representing women engineers at meetings and discussions at United Nations.

ID 49 Advancing Diversity and Inclusion for Women in Engineering

Wai Yie Leong, INTI International University, Malaysia

Panel Speaker II



Dr. Seema Singh

Prof., Professor of Economics, Department of Humanities
Delhi Technological University, Delhi, India

Seema Singh is a Professor of Economics at the Delhi Technological University, India. Largely interested in the area of technology and its impact on the labour market, gender, education and training etc., she has published extensively in referred journals and successfully completed many projects funded by national and international organisations. At present, she is part of the research team on "Women and science, gender inequalities in higher education and scientific careers: Examples of engineering and medicine in India" sponsored by Women and Science Chair at Paris Dauphine-PSL University, Paris. She is supervising many PhD and Post- Doctoral students and paper reviewer of many SCOPUS indexed journals. She was Vice President (Education and Research) in International

Network of Women Engineers and Scientists (INWES) Board 2018-20 and has Chaired the Nomination Committee in the INWES Board 2021-23. She is Joint Secretary of the Indian Society of Labour Economics and was President of University Women Association of Delhi during 2019-21.

ID 170 Work -Life Balance of Women HOD's in STEM Academia

Japji Kaur, Research Scholar, Department of Humanities, Delhi Technological University, Delhi, India

Seema Singh, Prof., Professor of Economics, Department of Humanities, Delhi Technological University, Delhi, India

Panel Speaker IV



Parveen Farooque

M.Sc. Engineering, Ph.D.
Professor
Mechanical Engineering Department
A.M.U., Aligarh, India
Thrust area of Research: Industrial Engineering and Supply Chain Management

Parveen Farooque, presently a Professor in Industrial and Production Engineering, has joined the Department in 1994. She did her doctorate in Supply Chain Management. Earlier she had graduated in Mechanical Engineering followed by masters in Industrial & Production Engineering from AMU, Aligarh. Her areas of interest for teaching include Industrial Engineering, Quality Engineering, and Engineering Economy and Management. She has contributed to conferences and journals on the subjects related to Industrial Engineering and Management.

Panel Speaker IV

ID 111 Intention to Study STEM Among Youth: A Bibliometric Analysis

Manisha Kumari and Seema Singh, Economics, Humanities Department, Delhi Technological University, New Delhi, India

Panel Speaker V

ID 169 An Assessment of Factors Affecting Innovation Capability in Technology-based Startups: A Study in Context of Delhi-NCR

Diksha Arora, Research Scholar, Department of Humanities, Delhi Technological University, Delhi, India

Seema Singh, Professor of Economics, Department of Humanities, Delhi Technological University, Delhi, India

AI + ML Panel**Thursday, November 2, 2023****3:15 – 4:30 pm - Meeting Room 1 (Onsite)****Panel Chair****Dr. Qasim Murtaza, PhD-Ireland, PDF-Manchester**

Professor (Production Engg.)
Delhi Technological University
(Formerly Delhi College of Engg.)
Main Bawana Road, Delhi-110042, India

Panel Speaker I**Faisal Hasan**

Ph.D. (Mechanical & Industrial Engineering Department, IIT Roorkee)
Professor
Mechanical Engineering Department
A.M.U., Aligarh, India
Thrust Area of Research: Manufacturing Systems, Operations Management, Human Factors

Hasan obtained his Ph.D. in the area of Reconfigurable Manufacturing System from Indian Institute of Technology Roorkee. Joined as Faculty in the Department of Mechanical Engineering, AMU in 2003. Teaching and research interests includes Manufacturing Systems, Human Factors and Operations Management. He has published papers in various International journals like Operation Research, Occupational Ergonomics, Work, International Journal of Industrial and Systems Engineering, and International Journal of Operations Management. Also attended and presented papers at various international and national conferences

Panel Speaker II**Dr. Manoj Kumar Sinha**

Assistant Professor
National Institute of Technology
Kurukshetra, Haryana, India

Panel Speaker III**Dr. Rekha Gupta**

Professor
Lal Bahadur Shastri Institute of Management
Delhi, India

Panel Speaker IV



Dr. Vinay Panwar
Assistant Professor
Mechanical Engineering Department
Netaji Subhas University of Technology
Dwarka, New Delhi – 110078, India

Dr. Vinay Panwar is presently working as Assistant Professor in the Mechanical Engineering Department at Netaji Subhas University of Technology, Dwarka, New Delhi – 110078, India. Dr. Panwar has completed the Doctorate (Ph.D.) from Indian Institute of Technology Roorkee, India in December 2017 and Master's from Indian Institute of Technology Kanpur, India in 2013. He has done his Bachelor's in Mechanical Engineering, in 2010. He has guided 02 Ph.D scholars and 02 M.Tech students. His research interests turn around the 'Development of Advanced Materials' and specifically related to the synthesis and modifications of nanomaterials; polymer composites; energy applications; modeling and simulation; physical characterizations and experimental analysis for micro-/nano-materials. He has published more than 30 research articles in journals of well repute (SCI/SCI-E/Scopus), 5 book chapters and 1 book, till date.

Applications of Engineering Management Techniques Panel

Friday, November 3, 2023

8:00 am – 9:45 am – Meeting Room 1 (Onsite)

Panel Chair and Organizer



M. Affan Badar, PhD, CPEM, IEOM Fellow
Professor & PhD Technology Management Director
Former Chair, Applied Engineering and Technology Management Department
Bailey College of Engineering and Technology
Indiana State University, Indiana, USA

Topic: An overview of Application Engineering Management Techniques

Affan Badar, Ph.D., CPEM, IEOM Fellow is a Professor in the Applied Engineering and Technology Mgt Department and Director of the PhD Technology Management in Bailey College of Eng. & Tech at Indiana State University (ISU), USA. He was a Professor & Chair of, the Industrial Eng. & Eng. Mgt Department at the University of Sharjah (UAE) from 2016 till 2018 on leave of absence from ISU. Prior to 2016 at ISU, he served as interim associate dean, Aug 2014 – May 2015; department chair, 2010-2014; and program coordinator, 2007-10. He has also served on the University Faculty Senate and College Faculty Council. He is an ABET/ETAC commissioner; started as a program evaluator (EAC and ETAC) in 2010. He has published over 90 articles in the areas of reliability, quality, lean manufacturing, coordinated manufacturing, design, and supply chain. He has secured over \$1M in funding from NSF, other agencies, and industries. He is Editor-in-Chief, Associate Editor, and editorial board member for several journals.

Panel CO-Chair



Mr. Wasiul Hasan Rizvi
Business Head of automotive company
SAIPA (India) Corp: A subsidiary of SAIPA Corp, Iran
New Delhi, India

Topic: The Metamorphosis of the Automotive Industry: The Symphony of Circular Economy and the Enchantment of Industry 4.0

Panel Speaker



Mr. Syed Javed Mohsin
Managing Director
Patikari Power Pvt Ltd
Gurgaon, Haryana, India

Topic: Managing Pumped Storage Hydro Projects

Panel Speaker



Mr. Navaz Cheriya Malikakkal
COO
Interarch Building Products Pvt Ltd
Noida, Uttar Pradesh, India

Topic: Digital Transformation in Engineering: Revolutionizing Steel Building Construction

Panel Speaker



Mr. Partha Pratim Dutta
Chief General Manager
Oil India Limited (OIL)
NOIDA, UP, India

Topic: Supporting Exploration & Development @ OIL: The Engineering Perspective

Global Engineering Education Panel

Friday, November 3, 2023, 2:00 – 3:15 pm - Meeting Room 1 (Onsite)

Panel Chair



Nitin Seth
Director, Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA)
Department of Science & Technology
Govt. of India and Ministry for Europe & Foreign Affairs
Govt. of France, New Delhi

Prof. Nitin Seth is affiliated with the Indian Institute of Foreign Trade (IIFT) as Head of The Centre for Trade Facilitation and Logistics (CTFL). He has over 25 years of professional experience. He has Post-doctoral research experience from GIZ/DIE Germany and Ecole Des Mines, Saint Etienne, France. He obtained his Ph.D. degree in the area of 'Supply Chain' from the Indian Institute of Technology (IIT) Delhi after Post-Graduation in Industrial Engineering & Management and Production Engineering. He did his graduation in Mechanical Engineering from DAVV, Indore. He has accomplished numerous international projects and visited over 40 countries. Prof. Seth has authored large number of publications in international journals of repute. His publications have yielded over 3000+ citations.

Prof. Seth has guided a large number of Ph.D. scholars, 250+ post-graduate and 100+ undergraduate students. He has conducted more than 100 programs/sessions on various topics/issues of National/International business. He has trained more than 3000 professionals/exporters. He is on the Executive Board of various Universities, Institutes, and Colleges.

Panel Speaker I



Er. Satya Narayan Shah
Former Chairperson: Nepal Engineering Council
Former President: Society of Mechanical Engineers, Nepal

Panel Speaker II**Abid Ali Khan**

Professor, Department of Mechanical Engineering
ZH College of Engineering & Technology, AMU, Aligarh, India

Abid is Professor in the department and is also associated with the Centre for Interdisciplinary Biomedical and Human Factors Engineering in the Faculty of Engineering & Technology. He has B.Sc. Engineering (Mechanical) and M.Sc. Engineering (Industrial and Production Engineering) from AMU, Aligarh. He got his PhD from the University of Limerick, Ireland, funded by the European Union as a Research Assistant. He teaches Ergonomics, Experimental Methods & Analysis, Design of Experiments, and Research Methodology. His research interest is Occupational Ergonomics, Human response to vibration, Work-Related Musculoskeletal Disorder (WMSD), EMG etc. He has published papers in various International and National journals and conferences. His work has been published in Ergonomics, International Journal of Industrial Ergonomics, Applied Ergonomics, Theoretical Issues in Ergonomics Science, Occupational Ergonomics, Journal of Occupational Safety and Ergonomics, Work: A Journal of Prevention, Assessment and Rehabilitation etc. He is involved in the R&D activities related to the following areas: > Whole-body vibration

exposure > Hand-arm vibration exposure > Ergonomic evaluation of new designs > EMG based prosthetics. He has active collaborative research with ZA Dental College, AMU, which resulted in combined supervision of several MDS theses. He has supervised Six PhDs, Seven Mater of Dental Surgery thesis and Eighteen M.Tech. Dissertations. He is founder member of Centre of Biomedical Engineering, AMU. His research collaborations are with NIT Manipur, JMI, AMITY, Univ of Limerick, KAA Univ. KSA etc.

Panel Speaker III**Dr. Qutubuddin S.M.**

Associate Professor
P.D.A. College of Engineering
Kalaburagi, India

Dr. Qutubuddin S.M. is presently working as Associate Professor, Industrial and Production Engineering Department, P.D.A. College of Engineering, Gulbarga. He has more than 30 years' experience in teaching and research and has published more than 35 papers in International and National journals and Conferences. He has introduced the course Human Factors and Ergonomics in the curriculum in under graduate engineering and has developed laboratories such as Industrial Engineering Laboratory and Ergonomics Laboratory. He is a life member of professional societies such as ISTE, IIPPE, IAENG, and ISE. He is a regular member of various committees of IEOM Society conferences and continuously involved in promoting the activities of IEOM Society. He has

established a IEOM Society student Chapter at PDA College of Engineering. Research interest include Industrial Ergonomics; Human Factors; Occupational Health and Safety; Productivity Improvement Studies; Production/Operations Management; Environmental Ergonomics. Currently he is Director, IEOM Operations in India.

Panel Speaker IV**Dr. Bhaskar Bhandarkar**

Director 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 BSc from Nagpur University, BTech from JNU New Delhi, MTech from Pune University, MBA (Operation & Marketing) and PhD: BIT, Mesra, Gold Medalist from NCDG, 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 IIIIE 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 V**Dr. Seema Singh**

Professor of Economics
Department of Humanities
Delhi Technological University
Delhi, India

ID 173 Is Engineering Education Losing Charm among Students? An investigative study for India
Seema Singh, Delhi Technological University, New Delhi, India

Industry 4.0 and SCM Panel

Saturday, November 4, 2023, 2:00 – 3:15 pm - Meeting Room 1 (Onsite)

Panel Chair



Dr. V. Vasu
Professor
Department of Mechanical Engineering
National Institute of Technology (NIT), Warangal, India

Dr. V Vasu is serving as Professor, Mechanical Engineering & Associate Dean (R&C) at National Institute of Technology, Warangal, India. Prof. Vasu Graduated in Mechanical Engineering from Nagarjuna University, PG in Advanced Manufacturing from BITS Pilani, PhD from JNT University Hyderabad and Post-DoC under Erasmus Mundus Fellowship from Politecnico di Milano, Italy. His area of research are Mechatronics, Industrial Automation, Robotics, IIoT and Smart Manufacturing. He has published 75 research papers in International Journals and Conferences. He developed online pedagogy course for "Mechatronics" and "Systems & Controls" under ICT MHRD, India. He has executed sponsored research projects worth 1.45 Cr funded from different funding agencies. He was awarded Young Engineer 2010 by IE India & Govt. of AP and Outstanding Engineer 2021 from IE India on 75th Independence Day.

Panel Speakers

Dr. Muhammed Muaz
Ph.D., M.Tech., B.Tech.
Assistant Professor
Department of Mechanical Engineering
Aligarh Muslim University
Aligarh, India

Thrust Area: Manufacturing Automation, Adaptive control of manufacturing processes, Metal Cutting Operations, CNC Milling, Robotics and Automation, Minimum Quantity Lubrication, FEM of machining process



Prof (Dr.) Rajesh Kumar Singh
Professor (Operations and Supply Chain Management)
Management Development Institute
Gurgaon, India

Prof (Dr.) Rajesh Kumar Singh is working as Professor (Operations and Supply Chain Management) at Management Development Institute, Gurgaon, India. Prof Singh is figured among the top 2% of researchers in the Business Management area by a study conducted by Stanford scholars and others and handling editorship and guest editorship of a few reputed leading international journals such as International Journal of Consumers Studies (Wiley) ("A" Category journal by ABDC), International Journal of Global Business and Competitiveness (Springer), Sustainable Production and consumption (2021) on Strategies for Resilient and Sustainable Supply Chains in an Uncertain Business Environment, Operations Management Research Journal (Springer), Competitiveness Review (Emerald), Journal of Modelling in Management, and Journal of Global Operations and Strategic Sourcing (2020) on Application of Blockchain Technologies for Global Operations. He also serves as an active member of the

Editorial Board of Journal of Supply Chain Management Systems, Vision (Sage) and Resources, Conservation and Recycling (Elsevier) on Supply Chain Management, Industry 4.0, and the Circular Economy. He earned his BTech in Mechanical Engineering from Dayalbagh Educational Institute (Deemed University Agra), MTech from IIT Roorkee, and a Ph.D. degree from Delhi University Delhi, India.



Rajendra Baraiya
Research Scholar in Operations Management
Indian Institute of Management, Indore
Indore, Madhya Pradesh, India

Rajendra Baraiya is a lecturer in Operations Management & Supply Chain at Jindal Global Business School, OP Jindal Global University, Sonapat. He is pursuing an FPM in Operations Management and Quantitative Techniques at the Indian Institute of Management Indore. He has been awarded an M.E. in Production Engineering from Thapar Institute of Engineering and Technology, Patiala, and a B.E. in Production Engineering from Government Engineering College, Bhavnagar. He has published papers in prestigious journals like Transportation Research Part E, Computers & Industrial Engineering, among others. His research has been presented at renowned national/international conferences, including POMS 2021, NEDSI 2021, WCTRS 2019, IEOM 2021, and others.

He has received several accolades, including the Outstanding Young Research Scholar Award at IEOM India 2021 and best paper awards at DC 2019 – MNIT Jaipur, ICORDS 2019 – IIM Visakhapatnam, DOCMA 2020 – IRMA Anand, and IEOM Singapore 2021 conferences. He is an associate editor for the International Journal of Mathematical, Engineering, and Management Sciences and is a reviewer for many reputed journals. His research interests are supply chain coordination, omnichannel retailing, inventory management, and logistics. Additionally, he has organized multiple conferences and workshops, including CERE 2018, WCTRS-Y Virtual Meet 2022, ATAL-sponsored FDP 2022, AIB-SA conference 2022, ATAL-sponsored FDP under PM Gati Shakti Yojana 2023, and WCTRS-Y Conference 2023. Moreover, he plays a vital role as an assistant dean in the Office of Academic Affairs, a member of the Office of External Research Grants, and the Research Center on the Digital Circular Economy for Sustainable Development Goals at JGBS.



Dr. Vivek Soni F.I.E.
Assistant Professor
Faculty of Management Studies
University of Delhi
New Delhi, Delhi, India

Dr. Vivek Soni is a faculty in Operations, Supply Chain Management, and IT Analytics at one of the well-reputed educational systems at the Faculty of Management Studies University of Delhi. He acts as a critical-thinking academic enabler to the management students, and researchers of both full-time and part-time executive batches of MBA, MBA (Ex.) & MBA (Healthcare Exe). Working as an Assistant Professor, his teaching interest is in the Operations area, and research on wide dimensions of subject matters in the holistic development of India.

Previously, he served at Jaipuria School of Business (Delhi / NCR) as Area Chairperson (Operations) and Head (Research and Development). Dr. Soni holds a Ph.D. in Operations Management area from the Department of Management Studies, Indian Institute of Technology Delhi (IIT Delhi), M. Tech. (IIT Delhi), B. Tech. (Motilal Nehru NIT Allahabad) and also holds a MBA degree in the Operations Area. His Ph.D. dissertation is on systems modeling for security and sustainability in the Indian energy sector and his MBA dissertation is on higher education policy framework in an industry 4.0 context. He has been contributing to teaching at premier academic institutions such as FMS University of Delhi, BULMIM, BIMTECH Greater Noida, Great Lakes Gurgaon, LBSIM, and TERI SAS Delhi. Dr. Soni has also contributed several papers in international journals such as Resources Policy, Journal of Business Research, Indian Journal of Public Administration, Sustainable Production and Consumption, Transforming Government: People, Process, and Policy, Int. Journal of Energy Sector Management, Information and Computer Security, and Advances in Management Research and many more on decision-making on energy, sustainability, digital society, public services, academic governance arrangement, project management and business in the Indian context, etc. He is also an editorial advisory board member of Int. Journal of Energy Sector Management. His research work is also appeared at international conferences at the Industrial Engineering & Operations Management Society Singapore (2021), the International Academy of Business, and Economics (IABE), USA (2012), The Institute of Energy Economics (IEEJ) Japan (2009), and Canadian University of Dubai, (2014). Dr. Soni also works as a consultant to Indian Corporate, is also a fellow of the Institution of Engineers India, and is a certified independent director by the Ministry of Corporate Affairs, Govt. of India. He is an active life member of several professional associations/ research, & training forums including the Indian Institute of Public Administration New Delhi. As a unique management proposition towards society, he supports the academic legacy of India's chapter of IEOM Society USA in New Delhi.

Diversity and Inclusion Panel sponsored by Ford Motor Company

Saturday, November 4, 2023, 4:30 – 6:00 pm – Meeting Room 1 (Onsite)

Panel Speaker I



Er. Kamini Gupta
Senior Technical Officer
Transportation Engineer
CSIR- Central Road Research Institute
New Delhi, India

Myself work in CSIR-Central Road Research Institute in Traffic Engineering & Safety Division as Sr. Technical Officer. She is having experience of more than 25 years in Research & Development. Presented and published papers in Journals / International Conferences/Conferences. Involved in study of Driver Behavior, Driver distractions and evaluation using Simulator & Field test, VTS, Eye Tracker. She is involved in Road Safety works and Mobility Plans of the city. At present involved in prestigious projects like Intelligent Solutions of Roads through

Engineering & Technology (**IRASTE**) and Bloomberg Initiative of Global Road Safety (**BIGRS**) funded by Johns Hopkins University, Baltimore, USA. She has done R & D and Consultancy Projects in Planning and Management of road network and socio-economic aspects of rural roads, transport economics including application of HDM-4, GIS applications in database management, contract management and other aspects related to Highway Engineering. She is a Life member of Indian road Congress, Institute of Urban Transport, Institution of Engineers & Women in Science & Engineering (India Chapter) and working as member in other committees in the institute and outside. Awardees of best paper in many National and International conferences.

Panel Speaker II



Dr. Seema Singh
Prof., Professor of Economics
Department of Humanities
Delhi Technological University
Delhi, India

Seema Singh is a Professor of Economics at the Delhi Technological University, India. Largely interested in the area of technology and its impact on the labour market, gender, education and training etc., she has published extensively in referred journals and successfully completed many projects funded by national and international organisations. At present, she is part of the research team on "Women and science, gender inequalities in higher education and scientific careers: Examples of engineering and medicine in India" sponsored by Women and

Science Chair at Paris Dauphine-PSL University, Paris. She is supervising many PhD and Post- Doctoral students and paper reviewer of many SCOPUS indexed journals. She was Vice President (Education and Research) in International Network of Women Engineers and Scientists (INWES) Board 2018-20 and has Chaired the Nomination Committee in the INWES Board 2021-23. She is Joint Secretary of the Indian Society of Labour Economics and was President of University Women Association of Delhi during 2019-21.

ID 176 The Economics of Digital Marketing: A New Gateway of Independence for the Women of Today?

Pallavi Arora, Research Scholar, Department of Humanities, Delhi Technological University, Delhi, India

Seema Singh, Professor of Economics, Department of Humanities, Delhi Technological University, Delhi, India

Resume Writing and Career Planning Workshop

Thursday, November 2, 4:00 – 6:00 pm – Onsite Room 2

Speaker: Dr. Chris Harris



Dr. Christopher Harris

Associate Professor of Computer Science
University of Northern Colorado
Greeley, Colorado, United States

Dr. Christopher Harris is an Associate Professor of Computer Science in the School of Mathematical Science at the University of Northern Colorado. Previously, he taught at the State University of New York in Oswego and has nearly 20 years of work experience as a technical strategist at companies including the World Bank, Northrop Grumman, Rathenon, E! Entertainment Television, and AT Kearney. He served as the General Manager at Advisa Group, a technology consultancy based in Beijing, China. Professor Harris received his PhD in Information Science at the University of Iowa, an MBA from the Anderson Graduate School of Management at UCLA, his Masters in Computer Science from Virginia Tech, and his Bachelor's in Computer Engineering from the University of South Florida. Professor Harris' research areas include applying machine learning and artificial

intelligence to business, agriculture, human resources, and manufacturing, ensuring fairness in machine learning algorithms, and applications involving blockchain and smart contracts.

Six Sigma Certification Green Belt Workshop

Friday, November 3, 2023, 2:00 – 6:00 pm – Onsite Room 3



Dr. Ahad Ali

Associate Professor
Director, Bachelor of Science in Industrial Engineering
Director, Master of Science in Industrial Engineering
Director, Graduate Certificate in Lean Six Sigma
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
Executive Director, IEOM Society International

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, Robotics and Industrial 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.

Six Sigma Certification Topics	Measure	Improve
<ul style="list-style-type: none"> Six Sigma Fundamentals 3.4 PPM Business case Implementation challenges GD&T 	<ul style="list-style-type: none"> Process analysis Probability, Statistics and Distribution Data collection and analysis Gage Repeatability and Reproducibility (R&R) Process Capability X-Bar Charts, Run Charts, Moving Average Charts, EWMA Charts, Attribute Charts, Takt Time Standardization, Spaghetti Diagrams, and Setup Reductions 	<ul style="list-style-type: none"> Lean Tools to reduce NVA 5S, Kaizen and Seven Zeros TPS Principles FMEA Simulation Design of Experiments (DOE) Statistical Process Control (SPC) Analysis of Variance (ANOVA) Solutions Validation Hypothesis Tests
Define	Analyze	Control
<ul style="list-style-type: none"> Project Charter Process Maps SIPOC Matrix Diagrams Critical to Quality (CTQ) Metrics DPMO Pareto Chart Voice of Customers Stakeholder Analysis Focus Group Cpk 	<ul style="list-style-type: none"> Value Stream Map Hypothesis Testing Goodness of fit test Regression Analysis Cause & Effect Diagrams ANOVA Confidence Interval 	<ul style="list-style-type: none"> Control Plan SPC Monitoring and Tracking DFSS PDCA
		Case Study

Parallel Sessions

All Times are in India Time

Thursday, November 2, 2023

	Onsite Room 1	Onsite Room 2	Virtual Room 3
8:00	Global Engineering Education Plenary	Artificial Intelligence and Machine Learning (AI-ML) Plenary	Virtual Presentations Competitions
9:40	Opening Ceremony and Welcome Address		
10:20	Keynote I (Opening Keynote): Mr. Tarun Aggarwal, Vice President, Maruti Suzuki India Limited, Gurugram, Haryana, India		
11:00	Keynote II: Dr. Christopher Harris, Associate Professor of Computer Science, University of Northern Colorado, Greeley, Colorado, USA		
11:40	Keynote III: Prabir Kanti Basu, Senior Vice President, Reliance New Solar Energy Ltd (RNSEL), Reliance Industries Limited, Faridabad, Haryana, India		
12:20	Keynote IV: Harjinder Singh Cheema, Managing Director, Cheema Boilers Limited, Chandigarh, India		
1:00	Buffet Lunch		
2:00	Women in Industry and Academia (WIIA) Panel	Engineering Management	2:00 – 4:00 pm Virtual Presentations Operations Management
3:15	Artificial Intelligence and Machine Learning (AI + ML) Panel	Undergraduate Student Paper Competition sponsored by Siemens	4:00 – 6:00 pm Virtual Presentations Waste, Sustainability and OM
4:30	Resume Writing and Career Planning Workshop Dr. Christopher Harris Associate Professor of Computer Science University of Northern Colorado, USA	High School STEM Competition Human Factors and Ergonomics Competition sponsored by CINTAS	

Friday, November 3, 2023

	Onsite Room 1	Onsite Room 2	Virtual Room 3
8:00	Applications of Engineering Management Techniques Panel	Competitions and Smart Technologies	Virtual Presentations Technical Papers and Competitions
9:40	Keynote V: Mr. Sunil Kant Munjal, Chairman, Hero Corporate Service Private Limited, 264, Okhla Industrial Estate, Phase III, New Delhi 110020, India		
10:20	Keynote VI: Dr. Kamal Kishore Singh, IPS, ADG of Civil Defence in the Disaster Management Department, Government of Bihar, India		
11:00	Keynote VII: Prof. Angelika Peer, Full Professor, Faculty of Engineering, Free University of Bozen-Bolzano, Italy		
11:40	Keynote VIII: Prof. Dr. LEONG Wai Yie, Immediate Past Chairperson of The Institution of Engineering and Technology, Council Member, the Vice President of the Institution of Engineers Malaysia (IEM), Vice President of International Network of Women Engineers and Scientists (INWES), Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)		
12:20	Keynote IX: Vijay Sharma, Vice President, Pavana Industries Limited, Aligarh, UP, India		
1:00	Buffet Lunch		
2:00	Global Engineering Education Panel	Manufacturing and AI	2:00 – 4:00 pm Virtual Presentations Machine Learning and Manufacturing
3:15	Business Management and Project Management Plenary	Six Sigma Workshop Dr. Ahad Ali	4:00 – 6:00 pm Virtual Presentations AI, OM and Waste
4:30	Industry Solutions Plenary	Lawrence Technological University, USA	

Saturday, November 4, 2023

	Onsite Room 1	Onsite Room 2	Virtual Room 3
8:00	Global Supply Chain Management Plenary	Machining and Smart Manufacturing Plenary	Virtual Presentations Technical Papers
9:40	Keynote X: Mr. Rakesh Vasishth, Vice President, Hero Motocorp, Delhi, India		
10:20	Keynote XI: Mr. Sanjay Ranawade, Senior Vice President (CMO), Jewellery Division, Titan Company Limited, India		
11:00	Keynote XII: Ajay Sambrani, Managing Director Asia Pacific, Member of Group Executive Management, TUBACEX, Mumbai, Maharashtra, India		
11:40	Keynote XIII: Dr. Sushil Kumar, Professor in Operations Management, Indian Institute of Management, Lucknow, Prabhathi Nagar, IIM Road, Lucknow, Uttar Pradesh, India		
12:20	Keynote XIV: Dr. Abhijit Majumdar, R. Jaikumar Chair Professor for Operations Management, Indian Institute of Technology, Delhi, India		
1:00	Buffet Lunch		
2:00	Industry 4.0 and SCM Panel	Operations Management	2:00 – 4:00 pm Virtual Presentations Energy and Sustainability
3:15	Global Lean Six Sigma and Operations Excellence Plenary	Sustainability and Green Systems	4:00 – 6:00 pm Virtual Presentations Technical Papers
4:30	Diversity and Inclusion Panel sponsored by Ford Motor Company	Supply Chain Management	
7:00 – 10:00 pm, Nov. 4, Conference Awards Ceremony			

November 2, 2023 (Thursday) - Session: 8:00 – 9:40 am

8:00 – 9:40 am, Thursday**Global Engineering Education****Onsite Room 1**

Session Chair: Dr. Md Shahadat Hossain Khan

8:00 am - 8:20 am (November 2)

Dr. Md Shahadat Hossain Khan
 Professor
 Head, Department of Technical and Vocational Education (TVE)
 Islamic University of Technology (IUT)
 Board Bazar, Gazipur-1704, Bangladesh

8:20 am – 8:40 am (November 2)

Professor Arshad Noor Siddiquee, PhD
 Professor, Department of mechanical Engineering
 Jamia Millia Islamia (a Central University), New Delhi
 South Delhi, Delhi, India

8:40 am – 9:00 am (November 2)

Dr. Devinder Kumar Banwet FIE
 Vice Chancellor Founding Retd
 University of Engineering & Management
 Kolkata India

9:00 am – 9:20 am (November 2)

Dr. Ashok G. Matani
 Professor [Retired] in Mechanical Engineering Department
 Govt. College of Engineering
 Jalgaon, M.S., India

9:20 am – 9:40 am (November 2)

Dr. Mohammad Muzammil
 Professor and Chairperson, Department of Mechanical Engineering
 Aligarh Muslim University
 Aligarh, Uttar Pradesh, India

8:00 – 9:40 am, Thursday**AI-ML Plenary****Onsite Room 2**

Artificial Intelligence and Machine Learning (AI-ML) Plenary

Session Chair: Dr Suraj Kumar Mukti

8:00 am – 8:20 am (November 2)

Dr Suraj Kumar Mukti
 Associate Professor, Department of Mechanical Engineering
 NIT Raipur
 Raipur, Chhattisgarh, India

8:20 am – 8:40 am (November 2)

Rituparna Datta
 Manager, Data Science
 Capgemini Technology Services India Limited
 Capgemini, Bangalore, India

8:40 am – 9:00 am (November 2)

Dr Patanjali Kumar
 Assistant Professor
 Jindal Global Business School
 O. P. Jindal Global University
 Haryana, India

9:00 am – 9:20 am (November 2)

Prof. Shekar Babu, Ph.D.
 Founding Head, AMRITA School of Business, Bengaluru and
 Head, ARISE Lab

AMRITA Vishwa Vidyapeetham University
Bengaluru, Karnataka, India

9:20 am – 9:40 am (November 2)

Dr Saurabh Agrawal
Associate Professor
Delhi Technological University
India

8:00 – 9:40 am, Thursday

Competitions

Virtual Room 3

Session Chair: Dr. Don Reimer, IEOM Society

Undergraduate Student Paper Competition

ID 227 Characterizing Internal and External Factors Affecting the Success of Health Food Industry in Peru

Valeria Midori Medina-Shimabukuro and Francesca Tricerri-Migone, Bachelor of Science in Industrial Engineering, Faculty of Engineering, Industrial Engineering Career, Universidad de Lima, Peru

Juan Carlos Quiroz Flores and Marcos Fernando Ruiz-Ruiz, Professor Researcher, Faculty of Engineering, Industrial Engineering Career, Universidad de Lima, Peru

Undergraduate Research Competition

ID 210 Exploiting Raspberry Pi Clusters and Campus Lab Computers for Distributed Computing

Jai Bhorkate, VJTI, India

Human Factors and Ergonomics Competition

ID 219 Ergonomics Risk Assessment of Postures and Design of Workstation in Fastener Industry

Veeresh S.Patil, Student, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, India

Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India

Sagar, Student, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, India

Phani R. Katuru, Director, Chainsys Corporation, USA

Musa Adekunle Ibrahim, Department of Mechanical Engineering, Olabisi Onabanjo University, Ogun State, Nigeria

S.M. Hasanuddin, Student, Methodist College of Engineering & Technology, Hyderabad, India

Supply Chain and Logistic Competition

ID 32 Application of genetic algorithms to optimize distribution in food transport companies: A systematic literature review

Ayre Rosales Dylan Anndrei and Garcia-Lopez Yvan Jesus, Facultad de Ingeniería- Carrera de Ingeniería Industrial, Universidad de Lima Lima, Perú

ID 226 Driver Factors in Bus Accident: A Systematic Review

César Corrales, Departamento de Ingeniería, Pontificia Universidad Católica del Perú, San Miguel, Lima, Perú

María del Carmen Pardo-Ferreira and Juan Carlos Rubio-Romero, School of Industrial Engineering, Universidad de Málaga, Teatinos, Málaga, España

Lean Six Sigma Competition

ID 213 Optimization of delivery for an e-commerce industry using Six Sigma methodology

Sumit Shandilya, Quality Growth Services Private Limited, New Delhi, India and School of Management, BML Munjal University, Gurugram, India

Suryabhan Singh Jamwal and Garima Arora, School of Management, BML Munjal University, Gurugram, India

Jaskiran Arora, CLTD & Education Quality, School of Management, BML Munjal University, Gurugram, India

November 2, 2023 (Thursday) - Session: 9:40 am – 1:00 pm

Keynotes

9:40 Opening Ceremony and Welcome Address

10:20 Keynote I (Opening Keynote):

Mr. Tarun Aggarwal

Vice President, Maruti Suzuki India Limited, Gurugram, Haryana, India

11:00 Keynote II:

Dr. Christopher Harris

Associate Professor of Computer Science
University of Northern Colorado, Greeley, Colorado, USA

11:40 Keynote III:

Prabir Kanti Basu

Senior Vice President, Reliance New Solar Energy Ltd (RNSEL)
Reliance Industries Limited, Faridabad, Haryana, India

12:20 Keynote IV:

Harjinder Singh Cheema

Managing Director, Cheema Boilers Limited, Chandigarh, India

1:00 – 2:00 Buffet Lunch

November 2, 2023 (Thursday) - Session: 2:00 – 3:15 pm

2:00 – 3:15 pm, Thursday

Onsite Room 1

Women in Industry and Academia (WIIA) Panel

Session Chair: Prof. Seema Singh, Professor of Economics at Delhi Technological University, Delhi, India

Panel Speaker I

Prof. Dr. LEONG Wai Yie

Immediate Past Chairperson of The Institution of Engineering and Technology
Council Member, the Vice President of the Institution of Engineers Malaysia (IEM)
Vice President of International Network of Women Engineers and Scientists (INWES)
Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)

ID 49 Advancing Diversity and Inclusion for Women in Engineering

Wai Yie Leong, INTI International University, Malaysia

Panel Speaker II

Dr. Seema Singh
Professor of Economics
Department of Humanities
Delhi Technological University
Delhi, India

ID 170 Work-Life Balance of Women HOD's in STEM Academia

Japji Kaur, Research Scholar, Department of Humanities, Delhi Technological University, Delhi, India
Seema Singh, Prof., Professor of Economics, Department of Humanities, Delhi Technological University, Delhi, India

Panel Speaker III

Parveen Farooque, M.Sc. Engineering, Ph.D.
Professor, Mechanical Engineering Department
A.M.U., Aligarh, India

Panel Speaker IV

ID 111 Intention to Study STEM Among Youth: A Bibliometric Analysis

Manisha Kumari and Seema Singh, Economics, Humanities Department, Delhi Technological University, New Delhi, India

Panel Speaker V

ID 169 An Assessment of Factors Affecting Innovation Capability in Technology-based Startups: A Study in Context of Delhi-NCR

Diksha Arora, Research Scholar, Department of Humanities, Delhi Technological University, Delhi, India
Seema Singh, Professor of Economics, Department of Humanities, Delhi Technological University, Delhi, India

2:00 – 3:15 pm, Thursday**Engineering Management****Onsite Room 2**

Session Chair: Dr. V Vasu, Ass. Professor, Mechanical Engineering, NIT Warangal

ID 36 Model for Industrial Resin Floor Rating – Hoysalas Rating Factor

Kishore Hoysal S, Saint Gobain Pvt Ltd - Weber Division, India

ID 47 The in and out of Indian Handicrafts Industry: A Review of Literature

Tanu Singh, Research Scholar, Department of Humanities, School of Humanities and Social Sciences, HBTU, Kanpur, India
Vinod Kumar Yadav, Professor, Department of Humanities, School of Humanities and Social Sciences, HBTU, Kanpur, India

ID 82 Creating Shared Value (CSV) in Tourism: A Framework for its Implementation and Future Research Agenda

Shekhar, Research Scholar, Faculty of Management Studies, University of Delhi, Delhi, India
Debadityu Das, Professor, Faculty of Management Studies, University of Delhi, Delhi, India

ID 87 Operational Strategy for Platform Business: A Circular Economy Perspective

Abhijeet Tewary and Vaishali Jadon, Institute of Management Technology, Ghaziabad, India
Parijat Upadhyay, Indian Institute of Management, Shillong, India

ID 38 Agriculture for Sustainability with Socio-Climatic Protection with Quality Livelihood

Mahasweta Guha, A.P. Nagar, Sonarpur, Kolkata-700150, West Bengal, India
Amalek Misra, Raipur Road East, Jadavpur, Kolkata-700032, West Bengal, India

2:00 – 3:45 pm, Thursday**Operations Management****Virtual Room 3**

Session Chairs: M.B Kiran, Pandit Deendayal Energy University-PDEU, Gandhinagar, Gujarat, India and Dr. Mizanur Rahman, IEOM Society

ID 215 Optimizing The Operation of Manufacturing: Case Study at Manufacturing Glass Company

Khathutshelo Mushavhanamadi and Mpho Mulaudzi, Department of Quality and Operation Management, University of Johannesburg, South Africa

ID 216 The Impacts that the Cost of Quality has On South African's Defence Industry

Khathutshelo Mushavhanamadi and Ambani Ethen Mofamade, Department of Quality and Operation Management, University of Johannesburg, South Africa

ID 217 Carbon Offsetting: The Benefits and Drawbacks for Businesses

Monu Bhardwaj, Research Scholar, School of Management, Graphic Hill University, Dehradun, India
Namrata Prakash, Associate Professor, School of Management, Graphic Era Hill University, Dehradun, India

ID 212 Automated Inspection of 3d Printed Components Using Deep Learning-A Review

Patel Jay and M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, INDIA

ID 222 Non-Contact Surface Texture Inspection Using Vision System – A Review

Yash P. Rajguru and M.B Kiran, Pandit Deendayal Energy University-PDEU, Department of Mechanical Engineering, School of Technology, Gandhinagar, Gujarat, India

ID 109 Enhancing Arecanut Plant Wellness: Innovative Disease Detection using deep learning algorithms

Qutubuddin Syed Mohammed, P.D.A. College of Engineering, India
Namra Mahveen, PDA College of Engineering, India
Umaira Shahneen, PDA College of Engineering, India
Hasanuddin S M, Student, Methodist College of Engineering and Technology, Hyderabad, India
Ayesha Fatima, Student, Stanley College of Engineering and Technology for Women, India
Saheba Aijaz, Student, Stanley College of Engineering and Technology Hyderabad, India

Undergraduate Research Competition sponsored by Daikin Applied

ID 91 Analysis on the Correlation of Food Insecurity Indicators and Academic Performance Affecting the City of Manila's University-Belt Students Staying in Dormitories During the Academic Year 2022 – 2023

Miguel Joachim L. Yang, Jamiel C. Cabuang, Joshua James S. Cefidoza, Nerick P. Fidelino and Ira Jane T. Tancio, Department of Industrial Faculty of Engineering, University of Santo Tomas, Manila Philippines

ID 107 Risk Factors Associated with Musculoskeletal Pain in Undergraduate Students: A Systematic Literature Review

Jimena Saori Barrenachea-Arakaki and Yomara Aurora Eusebio-Huerta, Industrial Engineering Bachelors, Faculty of Engineering, Industrial Engineering Career, University of Lima, Peru

Juan Carlos Quiroz-Flores, Research Professor, Faculty of Engineering, Industrial Engineering Career, University of Lima, Peru

November 2, 2023 (Thursday) - Session: 3:15 – 4:30 pm

3:15 – 4:30 pm, Thursday

Onsite Room 1

Artificial Intelligence and Machine Learning (AI + ML) Panel

Session Chair

Dr. Qasim Murtaza, PhD-Ireland, PDF-Manchester
Professor (Production Engg.)
Delhi Technological University
(Formerly Delhi College of Engg.)
Main Bawana Road, Delhi-110042, India

Panel Speaker I

Faisal Hasan
Ph.D. (Mechanical & Industrial Engineering Department, IIT Roorkee)
Professor
Mechanical Engineering Department
A.M.U., Aligarh, India

Panel Speaker II

Dr. Manoj Kumar Sinha
Assistant Professor
National Institute of Technology
Kurukshetra, Haryana, India

Panel Speaker III

Dr. Rekha Gupta
Professor
Lal Bahadur Shastri Institute of Management
Delhi, India

Panel Speaker IV

Dr. Vinay Panwar
Assistant Professor
Mechanical Engineering Department
Netaji Subhas University of Technology
Dwarka, New Delhi – 110078, India

3:15 – 4:30 pm, Thursday

Onsite Room 2

Undergraduate Student Paper Competition sponsored by Siemens

Session Chair: Prof Sunil Sharma, Professor, Faculty of Management Studies, University of Delhi, India

ID 8 Machine Learning-Enhanced Solar Vacuum Cleaner Robot

N Bhoopal, Professor, Department of Electrical and Electrical Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India
P V Naga Sai Asritha, J Rohith Kumar, M Rohith Sagar and N Varshini, UG Student, Department of Electrical and Electrical Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India

ID 13 Design and Development of a Cellular Layout and Production Schedule for an Automotive Parts Manufacturing Company

Shivaani N, Brinda Sai, Shachika Thanigaivelu and Shyamala Babu C S, Student, Department of Industrial Engineering and Management, R V College of Engineering, Bengaluru, Karnataka, India
Dr. Ramaa A, Associate Professor, Department of Industrial Engineering and Management, R V College of Engineering, Bengaluru, Karnataka, India

ID 20 Measurement of Software Quality Using the ISO 9126 Model on the Academic System of Jenderal Achmad Yani University

Fajar Ramadhan, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
 Puspita Nurul Sabrina, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
 Herdi Ashaury, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

ID 21 Nanobubble Technology and Biopolymer Composites: A Review

Aryaveer Pradeepkumar Nair, Navrachana International School Vadodara, India

ID 50 Fire security system

Dhruv Gupta, Sacred Hearts Senior Secondary Public School, India

ID 167 Exploiting Raspberry Pi Clusters and Campus Lab Computers for Distributed Computing

Jai Bhortake, Veermata Jijabai Technological Institute (VJTI), India

Undergraduate Research Competition sponsored by Daikin Applied

ID 230 Cooling Comfort with Less Cost: A Experimental Analysis on Ceiling Fan Energy Efficiency

Jai Bhortake, Veermata Jijabai Technological Institute, Mumbai, India
 Rupesh Bhortake, Mr. Marathwada Mitramandal's Institute of Technology, Pune, India

November 2, 2023 (Thursday) - Session: 4:30 – 6:00 pm

4:30 – 6:00 pm, Thursday

Onsite Room 1

Resume Writing and Career Planning Workshop

Dr. Christopher Harris
 Associate Professor of Computer Science
 University of Northern Colorado
 Greeley, Colorado, United States

4:30 – 6:00 pm, Thursday

Onsite Room 2

High School STEM Competition

ID 10 Documentation of Mycorrhiza and its benefits associated with Paddy Field

Meghna Mondal, Paribesh Unnayan Parishad, Sagar Block, India
 Rima Gayen, Paribesh Unnayan Parishad, Sagar Block, India
 Spandan Roy, Paribesh Unnayan Parishad, Sagar Block, India
 Suman Sardar, Paribesh Unnayan Parishad, Sagar Block, India

ID 58 Electricity Generation through Vibrations

Archit Goyal, Student, India

ID 60 AI in Power Plants - Energy Generation

Archit Goyal, Student, India

Human Factors and Ergonomics Competition sponsored by CINTAS

ID 35 Home Office Physical and Psychosocial Ergonomic Effects on the Job Satisfaction of Service Sector Employees in Peru

Nicolle Guerinoni Lahoud and Lucienne Valerie Gyax Iglesias, Facultad de Ingeniería, Universidad de Lima, Lima, Peru
 Ezilda Maria Cabrera Gil Grados, Associate Professor, Facultad de Ingeniería, Universidad de Lima, Lima, Peru

ID 48 From Traffic Control to Self-care: A Study on Mental and Physical Well-being of Traffic Police Personnel in Identified Areas of North Bengaluru

Dr. Chandra Sen Mazumdar, PHD, Associate Professor, Department of Management Studies, Faculty of Management and Commerce, M.S. Ramaiah University of Applied Sciences, India
 Brijesh Yadav, Harshitha T M, Jyothi R G, Khyati Misra, Manvith C S, Sheikh Nida Afreen A, Smitha K S, Shahnawaz Ahmad Wani, Sufiyan Ahmed Khan and Sunidhi, M.S. Ramaiah University of Applied Sciences, Bengaluru, India

ID 63 Design of Hand Tools (Raghawal and Raghawal Patti) and Improvement of Workstation Design in Dal Mill using CATIA

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
 Pooja Aloorkar, Trainee Engineer, Epiroc, India

4:00 – 5:45 pm, Thursday**Waste, Sustainability and OM****Virtual Room 3**

Session Chairs: Aqib Islam and Tipu Sultan, IEOM Society

ID 61 Potential for Producing Liquid Fuels from Co-Processing of Coal Fines and Municipal Solid Waste Plastics Using Red Mud as Catalyst

T. Hondo, Department of Chemical and Process Systems Engineering, Harare Institute of Technology, Zimbabwe

I. Mutadza, Department of Chemical and Process Systems Engineering, Harare Institute of Technology, Zimbabwe

M. M. Manyuchi, Department of Chemical and Process Systems Engineering, Harare Institute of Technology, Zimbabwe

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

ID 97 Management of e-Waste in the South African Construction Industry – A literature Review

Thalente Lungile Nkosi, Jacob Adedeji and Nkosinathi Jele, Department of Civil Engineering and Construction Studies, Durban University of Technology, Pietermaritzburg, RSA, South Africa

Phumzile Hadebe, Department of Environmental Sciences, University of South Africa, Johannesburg, RSA, South Africa

ID 98 Recovery of Phosphate from Municipal Sewage Sludge

M. M. Manyuchi and N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 209 Energy-emission-related Index Decomposition Analyses for the Period 2016-2020: A Systematic Review and Empirical Study

Jude James, Industrial Engineering Department, Durban University of Technology, South Africa and Institute of Systems Science, Durban University of Technology, South Africa

Oludolapo Olanrewaju, Industrial Engineering Department, Durban University of Technology, South Africa

Kevin J. Duffy and Obiora C. Collins, Industrial Engineering Department, Durban University of Technology, South Africa and Institute of Systems Science, Durban University of Technology, South Africa

ID 214 Implementation of Green Supply Chain Management Practices in South African Manufacturing Industry

Boitumelo Masokoameng and Khathutshelo Mushavhanamadi, Department of Quality and Operation Management, University of Johannesburg, South Africa

ID 224 Risk Assessment in Thermal Power Plant - A Review

Bhavaya Kotak and M B Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University-PDEU, Gandhinagar, Gujarat

November 3, 2023 (Friday) - Session: 8:00 – 9:40 am**8:00 – 9:40 am, Friday****Onsite Room 1****Applications of Engineering Management Techniques Panel**

Panel Chair and Organizer

M. Affan Badar, PhD, CPEM, IEOM Fellow

Professor & PhD Technology Management Director

Former Chair, Applied Engineering and Technology Management Department

Bailey College of Engineering and Technology

Indiana State University, Indiana, USA

Topic: An overview of Application Engineering Management Techniques

Panel CO-Chair

Mr. Wasiul Hasan Rizvi

Business Head of automotive company

SAIPA (India) Corp: A subsidiary of SAIPA Corp, Iran

New Delhi, India

Topic: The Metamorphosis of the Automotive Industry: The Symphony of Circular Economy and the Enchantment of Industry 4.0

Panel Speaker

Mr. Syed Javed Mohsin

Managing Director

Patikari Power Pvt Ltd

Gurgaon, Haryana, India

Topic: Managing Pumped Storage Hydro Projects

Panel Speaker

Mr. Navaz Cheriya Malikakkal

COO

Interarch Building Products Pvt Ltd

Noida, Uttar Pradesh, India

Topic: Digital Transformation in Engineering: Revolutionizing Steel Building Construction

Panel Speaker

Mr. Partha Pratim Dutta
Chief General Manager
Oil India Limited (OIL)
NOIDA, UP, India

Topic: Supporting Exploration & Development @ OIL: The Engineering Perspective

8:00 – 9:40 am, Friday

Competitions and Smart Technologies

Onsite Room 2

Session Chair: Dr. Sunil Sharma, Professor at the Faculty of Management Studies, University of Delhi, India

ID 115 River Bank Side Industry Protected Using Nature-based Infrastructures

Md. Lutfor Rahman, LGED., Bangladesh

ID 57 Energy Efficient River Surface Floating Plastic Trash Cleaning and Oil Soaking Robot

Anika Nawar, Jowad Md Madha, Shahed Rahman and Sad Mubassir Hasan, Department of Mechatronics Engineering, Faculty of Science and Engineering, World University of Bangladesh, Dhaka, Bangladesh

Mst Sumi Akter, Department of Electrical and Electronics Engineering, Faculty of Science and Engineering, World University of Bangladesh Dhaka, Bangladesh

ID 102 The Revolutionizing Alliance: The synergy of AI and Mental Wellness in reinventing healthcare

Mohammad "Sufian" Badar, Senior Teaching Faculty (Former), Department of Bioengineering, University of California, Riverside, CA, USA

Department of Computer Science and Engineering, Jamia Hamdard, New Delhi, Delhi, India

Nushrat Jahan and Barka Basharat, Department of Biotechnology, Jamia Hamdard University, Delhi, India

Md Jawed Ahmed, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Delhi

ID 104 Autonomous Drawing Robot for Industrial Applications

Said Kafumbe, Faculty of Engineering Technology and Science, Higher Colleges of Technology, United Arab Emirates

Master Thesis Competition

ID 62 Automated Power Factor Correction and Energy Monitoring Using IOT

Adarsha Kamble, ZCOER, India

ID 85 Modelling the Intention to Pledge Organs - A study of students aged above 18 years and working community in India

Nidhi Bhat, Ramaiah University of Applied Sciences, India

Doctoral Dissertation Competition

ID 92 A STUDY OF INFRARED SIGNATURE SUPPRESSION TECHNOLOGIES FOR SHIPBOARD APPLICATIONS

AVSN Murty, Indian Navy, India

8:00 – 9:40 am, Friday

Technical Papers and Competitions

Virtual Room 3

Session Chair: Prof. Don Reimer, IEOM Society

ID 200 Ball Bearing Propulsion: Automobile, Aerospace & Marine Engineering

Ryan Nadar, B. tech in Aerospace, Ajeenkya DY Patil University, Pune, India

Vijaya Kumar Varadarajan, Dean of international division, Ajeenkya DY Patil University, Pune, India

ID 201 Plasma Laser Propulsion system

Ryan Nadar, B. tech in Aerospace, Ajeenkya DY Patil University, Pune, India

Vijaya Kumar Varadarajan, Dean of international division, Ajeenkya DY Patil University, Pune, India

ID 202 Plasma Propulsion For Rocket

Ryan Nadar, B. tech in Aerospace, Ajeenkya DY Patil University, Pune, India

Vijaya Kumar Varadarajan, Dean of international division, Ajeenkya DY Patil University, Pune, India

ID 225 Condition Monitoring of Ball Bearing Using Artificial Intelligence (AI) - A review

Huzaifa K. Ravat and M.B Kiran, Department of Mechanical Engineering, School Of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat

Senior Design Project Competition sponsored by Tooling tech Group

ID 19 Design of machine

Rudra Parmar, Parul University, India

ID 223 Implementation of Sustainable Packaging Solutions by Using 5Rs Methodology and Green Supply Chain

Graduate Student Paper Competition sponsored by Eaton

ID 84 The Status Quo of Fourth Industrial Revolution (4IR) in the South African Higher Institutions
Thalente Nkosi, Durban University of Technology, South Africa

November 3, 2023 (Friday) - Session: 9:40 am – 1:00 pm

Keynotes

9:40 Keynote V:

Mr. Sunil Kant Munjal

Chairman, Hero Corporate Service Private Limited, 264, Okhla Industrial Estate, Phase III, New Delhi 110020, India

10:20 Keynote VI:

Dr. Kamal Kishore Singh

IPS, ADG of Civil Defence in the Disaster Management Department, Government of Bihar, India

11:00 Keynote VII:

Prof. Angelika Peer

Full Professor, Faculty of Engineering
Free University of Bozen-Bolzano, Italy

11:40 Keynote VIII:

Prof. Dr. LEONG Wai Yie

Immediate Past Chairperson of The Institution of Engineering and Technology, Council Member, the Vice President of the Institution of Engineers Malaysia (IEM), Vice President of International Network of Women Engineers and Scientists (INWES), Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)

12:20 Keynote IX:

Vijay Sharma

Vice President, Parna Industries Limited, Aligarh, UP, India

1:00 – 2:00 Lunch Buffet

November 3, 2023 (Friday) - Session: 2:00 – 3:45 pm

2:00 – 3:15 pm, Friday

Onsite Room 1

Global Engineering Education Panel

Panel Chair

Nitin Seth
Director, Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA)
Department of Science & Technology
Govt. of India and Ministry for Europe & Foreign Affairs

Govt. of France, New Delhi

Panel Speaker I

Er. Satya Narayan Shah
Former Chairperson: Nepal Engineering Council
Former President: Society of Mechanical Engineers, Nepal

Panel Speaker II

Dr. Abid Ali Khan
Professor, Department of Mechanical Engineering
ZH College of Engineering & Technology
AMU, Aligarh, India

Panel Speaker III

Dr. Qutubuddin S.M.
Associate Professor
P.D.A. College of Engineering
Kalaburagi, India

Panel Speaker IV

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

Panel Speaker V

Dr. Seema Singh
Professor of Economics
Department of Humanities
Delhi Technological University
Delhi, India

ID 173 Is Engineering Education Losing Charm among Students? An investigative study for India
Seema Singh, Delhi Technological University, New Delhi, India

2:00 – 3:15 pm, Friday

Manufacturing and AI

Onsite Room 2

Session Chair: Prof. Shekar Babu, AMRITA School of Business, AMRITA Vishwa Vidyapeetham University, Bengaluru, Karnataka, India

ID 95 Sharing Economy: Developing New Values in Carpooling Business Model
Morena Paulišić, Associate professor, Faculty of Economics and Tourism *Dr. Mijo Miroković*, Pula, Croatia
Maja Vizjak, Scientific associate, Institute for Migration and Nationalities, Zagreb Croatia

ID 93 A new Model for Prioritizing Medical Equipment Maintenance in Healthcare Settings
Khaoula khlie, Iiwa college, United Arab Emirates

ID 168 Innovations & Inventions of Harjinder Singh Cheema
Harjinder Cheema, Cheemaboilers LTD., India

ID 7 An exploratory study on lean and green manufacturing approaches implementation in manufacturing industries
Rajesh Kumar, Research Scholar, Department of Mechanical Engineering, FET, MRIIRS, India
Rajender Kumar, Associate Professor, Department of Mechanical Engineering, FET, MRIIRS, India

ID 105 Real-time embedded IoT based industrial and indoor gas detection and monitoring system
Said Kafumbe, Faculty of Engineering Technology and Science, HCT, United Arab Emirates

ID 199 Metamorphosis of the Automotive Industry; The Symphony of Circular Economy and the Enchantment of the Industry 4.0
Syed Wasiul Hasan Rizvi, Research Scholar, Department of Mechanical Engineering (DME), Delhi Technological University (DTU), Delhi, India
Saurabh Agrawal, Associate Professor, Delhi School of Management, DTU, Delhi, India
Qasim Murtaza, Professor, DME, DTU, Delhi, India

2:00 – 3:45 pm, Friday

Machine Learning and Manufacturing

Virtual Room 3

Session Chairs: Jowad Md Madha, World University of Bangladesh, Dhaka, Bangladesh and Dr. Mizanur Rahman, IEOM Society

ID 162 A Systematic Literature Review of Enablers and Technologies for Development of Digital Construction Management Capabilities Framework
Piyush and Sonu Rajak, Department of Mechanical Engineering, National Institute of Technology Patna, Bihar 800005, India
Vimal K E K, Department of Production Engineering, National Institute of Technology Tiruchirappalli, Tamil Nadu 620015, India

ID 88 Techniques of Machine learning applied to reduce employee turnover in a company cleaning and disinfection

Erika Noemi Romero Rojas, Facultad de Ingeniería, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

Yvan Jesús García López, Facultad de Ingeniería, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

ID 99 Machine Learning model for Healing analysis of Human Injury

Shubhangi D C, Professor, Department of Computer Science, Visvesvaraya Technological University CPGS Kalaburagi, Karnataka, India

Baswaraj Gadgay, Department of Electronics and Communication, Visvesvaraya Technological University CPGS Kalaburagi, Karnataka, India

Bhagyashree, Department of Computer Science, Visvesvaraya Technological University CPGS Kalaburagi, Karnataka, India

ID 14 Automotive Aerodynamic Drag and Lift Analysis using Computational Fluid Dynamics Software: A Review

Jowad Md Madha, Anika Nawar and Md Mizanur Rahman, Department of Mechatronics Engineering, Faculty of Science and Engineering

World University of Bangladesh, Dhaka, Bangladesh

ID 106 Assessment of foundry characteristics of clay deposits in the Cape (South Africa) for their foundry suitability

Londiwe M. Mthabela, Farai C. Banganayi and Kolela J Nyembwe, University of Johannesburg Department of Engineering Metallurgy 37 Nind Street

Doornfontein Johannesburg 2028, South Africa

ID 53 Additive Manufacturing Process Control Using Machine Learning

Vishvesh Khanzode, BE. (Mechanical Engineering), Datta Meghe College of Engineering, Navi Mumbai, India

Dr. Koilakuntla Maddulety, Professor cum Deputy Director (Research), SP Jain School of Global Management, Mumbai, India

November 3, 2023 (Friday) - Session: 3:15 – 4:30 pm

3:15 – 4:30 pm, Friday**Onsite Room 1**

Business Management and Project Management Plenary

Session Chair: Dr. Vivek Soni F.I.E.

Speaker I

Saurabh Parmar

CMO, Fractional

Delhi, India

Speaker II

Dr Sulagna Chattopadhyay

Founder, SaGHAA

Delhi, India

Speaker III

Amit Kumar Rawat

Incubation Head, HOD, MBA, IIC, Convenor

Assistant Professor

Roorkee Institute of Technology

Roorkee, Uttarakhand, India

Speaker IV

Dr. Anchal Patil

Assistant Professor

International Management Institute

New Delhi, Delhi, India

Speaker V

Dr. Vivek Soni F.I.E.

Assistant Professor

Faculty of Management Studies

University of Delhi, New Delhi, Delhi, India

Speaker VI

Dr. Anita Yadav

Assistant Professor

Maharishi Markandeshwar (Deemed to be University)

Gurugram, Haryana, India

3:15 – 4:30 pm, Friday**Onsite Room 2**

Six Sigma Workshop

Dr. Ahad Ali
 Associate Professor
 Director, Bachelor of Science in Industrial Engineering
 Director, Master of Science in Industrial Engineering
 Director, Graduate Certificate in Lean Six Sigma
 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
 Executive Director, IEOM Society International

November 3, 2023 (Friday) - Session: 4:30 – 6:00 pm

4:30 – 6:00 pm, Friday

Onsite Room 1

Industry Solutions Plenary

Session Chair: Ekta Rohra Jafri

Speakers

Ekta Rohra Jafri
 Consultant
 Formerly cloud architect, IBM
 Delhi, India

Kanishk Gaur
 Founder
 India Future Foundation
 New Delhi, India

Prof. Timira Shukla
 Director
 I.T.S School of Management
 ITS: The Education Group
 An ISO 9001:2015 Certified Institute
 Mohan Nagar, Ghaziabad

Rajeev Johari
 Associate Professor
 I.T.S School of Management
 ITS: The Education Group
 An ISO 9001:2015 Certified Institute
 Mohan Nagar, Ghaziabad

Susheel Baloji
 Deputy General Manager
 Purchase Ferrous Castings
 Tata Motors Limited
 Pune, Maharashtra, India

Dr. Ashok Mittal
 Retired Professor IIT Kanpur
 Director on Board, IIITD Innovation and Incubation Center
 New Delhi Area, India

4:30 – 6:00 pm, Friday

Onsite Room 3

Six Sigma Workshop

Dr. Ahad Ali
 Associate Professor
 Director, Bachelor of Science in Industrial Engineering
 Director, Master of Science in Industrial Engineering
 Director, Graduate Certificate in Lean Six Sigma
 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
 Executive Director, IEOM Society International

4:00 – 5:45 pm, Friday**Technical Presentations****Virtual Room 3**

Session Chair: Aqib Islam and Tipu Sultan, IEOM Society

ID 17 Pothole Detection and Reporting System Using Deep Learning

Wellington T. Mpofu, Belinda Ndlovu and Sibusisiwe Dube, Department of Informatics and Analytics, National University of Science and Technology Bulawayo, Zimbabwe

ID 18 Customer Churn Analytics using Classical Machine Learning algorithms and Deep Neural Networks: A Case of Zimbabwe Bank

Zwinodaishe Revesai, Mary Dzinomwa, Philip Nyoni, Belinda Ndlovu and Sibusisiwe Dube, Department of Informatics and Analytics, National University of Science and Technology, Bulawayo, Zimbabwe

ID 94 Lean Manufacturing Tools for Operations Management based on PDCA cycle

Alvarez-Mosquera Pedro José and Arce-Ureña Daniela Estefanía, Business Administration School, Universidad del Azuay, Cuenca, Ecuador
Juan Manuel Maldonado-Matute, Maria Jose Gonzalez Calle, Ana Carolina Armijos-Orellana, María Isabel Arteaga Ortiz and Pedro Fernando Guerrero Maxi, UDA Business Observatory, Business Administration School, Universidad del Azuay, Cuenca, Ecuador

ID 90 Techno-Economic Assessment for valorisation of waste sawdust biomass to biochar based capsules

S. D. Maramba and I. Mutadza, Department of Chemical and Process Systems Engineering, School of Engineering and Technology, Harare Institute of Technology, Zimbabwe

M. M. Manyuchi and N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 100 Improvement proposal applying SLP and 5S in the confectionery industry: Case of a SME in Peru

Claudia Cervantes, Alberto Kikushima and Alberto Flores-Perez, Facultad de Ingeniería, Universidad de Lima, Lima, Peru

ID 150 Artificial Intelligence in Procurement to Pay Process

Sumit Chawla, Graduate Student, Global Supply Chain Management '17, University of Southern California, Los Angeles, California, 90007, USA

November 4, 2023 (Saturday) - Session: 8:00 – 9:40 am**8:00 – 9:40 am, Saturday****Onsite Room 1****Global Supply Chain Management Plenary**

Session Chair: Dr. Gaurav Kabra

8:00 am – 8:20 am (November 4)

Dr. Gaurav Kabra
Associate Professor, Operations and Supply Chain Management
O.P. Jindal Global University (JGU)
Delhi, India

8:20 am – 8:40 am (November 4)

Vernika Agarwal, PhD
Associate Professor
Apeejay School of Management
Dwarka, New Delhi, India

8:40 am – 9:00 am (November 4)

Dr. Abdul Ahad
Assistant Professor
Department of Civil Engineering
Jahangirabad Institute of Technology
New Delhi, Delhi, India

9:00 am – 9:20 am (November 4)

Prof (Dr.) Rajesh Kumar Singh
Professor (Operations and Supply Chain Management)
Management Development Institute
Gurgaon, India

9:20 am – 9:40 am (November 4)

Imtiaz Ali Khan
M.Sc. Engineering, Ph.D.
Professor
Mechanical Engineering Department, A.M.U., Aligarh, India

8:00 – 9:40 am, Saturday**Onsite Room 2****Machining and Smart Manufacturing Plenary**

Session Chair: Dr Lalit Kumar Sharma

8:00 – 8:20 am, Saturday, November 4, 2023

Dr. Andriya Narasimhulu
Assistant Professor
Netaji Subhas University of Technology
Delhi, India

8:20 – 8:40 am, Saturday, November 4, 2023

Akhter Husain Ansari
Ph.D., M.ScEngg, B.Sc. Engg
Professor
Mechanical Engineering Department
A.M.U., Aligarh, India

8:40 – 9:00 am, Saturday, November 4, 2023

Dr. Qasim Murtaza
Professor
Department of Mechanical Engineering
Delhi Technological University
India

9:00 – 9:20 am, Saturday, November 4, 2023

Dr Lalit Kumar Sharma
Dean & Professor
Mangalmay Institute of Management & Technology
Ghaziabad, Uttar Pradesh, India

9:20 – 9:40 am, Saturday, November 4, 2023

Prof. Ravi Prakash
Professor & Dean
Management at Univ.
Delhi, India

9:40 – 10:00 am, Saturday, November 4, 2023

Dr Hima Gupta
Director Placement & Professor
IILM University, Gurugram
Gurugram, Haryana, India

8:00 – 9:40 am, Saturday

Technical Presentations

Virtual Room 3

Session Chairs: Lila Margarita Bada-Carbajal, Instituto Tecnológico Superior de Álamo Temapache, Tecnológico Nacional de México and Professor Don Reimer, IEOM Society

ID 11 Circular economy as an environmental strategy post COVID-19 in a bus manufacturing industry in the State of Mexico

Lila Margarita Bada-Carbajal, Senior Lecturer of Management, Instituto Tecnológico Superior de Álamo Temapache, Tecnológico Nacional de México

Gabriela Guadalupe Escobedo- Guerrero and María de los Ángeles Hernández-García, Escuela Superior de Comercio y Administración, Unidad Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

Héctor Alejandro Jiménez-Avalos, Instituto Tecnológico Superior de Álamo Temapache, Tecnológico Nacional de México, Veracruz, Mexico

Oscar Eduardo Rivas-Aguilar, Instituto Tecnológico Superior de Álamo Temapache, Tecnológico Nacional de México, Veracruz, Mexico

ID 39 Safety model based on 5S, TPM and work standardization to reduce the accident rate in an SME in the construction sector

Lizbeth Yahaira Ostos-Sánchez and Renzo Omar Livia-Chuzón, Facultad de Ingeniería, Universidad de Lima, Lima, Perú

Martin Fidel Collao-Díaz, Research Professor, Facultad de Ingeniería, Universidad de Lima, Lima, Perú

ID 40 Service Model Based on Standardized Work and Supplier Management to Increase the NPS In A SME In the Restaurant Sector

Luis Ernesto Morales-Quevedo and Mario Mauricio Delgado-Leon, Facultad de Ingeniería, Universidad de Lima, Perú

Martin Fidel Collao-Díaz, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú

ID 41 Inventory model based on Lean Healthcare, EOQ and ABC-VED to reduce stockouts in a SME in the pharmaceutical Sector

César Alejandro Daga-Castro and Diego Alonso Gomez-Quea, Faculty of Engineering, University of Lima, Peru

Martin Fidel Collao-Díaz, Research Professor, Faculty of Engineering, University of Lima, Peru

ID 42 Service Model Based on Lean Service and TQM to Reduce Returns in SME from the Mass Consumption Sector

Karina María Benavides-Flores and Erika Alexandra Melgar-Tomas, Facultad de Ingeniería, Universidad de Lima, Perú

Martin Collao-Díaz, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú

ID 43 Production Model based on SMED and Work Standardization to Increase Efficiency in the Cutting Area of a Textile Company

Joseph Richard Huerta-Palacios, Facultad de Ingeniería, Universidad Lima, Perú

Marco Antonio Padilla-Fernández, Facultad de Ingeniería, Universidad de Lima, Perú

Martín Fidel Collao-Díaz, Professor of Research, Facultad de Ingeniería, Universidad de Lima, Peru

ID 101 Product development of a high chrome white cast iron to yield consistent physical and mechanical properties

Steven Mavhungua, Daniel Sekotlong and Kulani Magezaa, Metal Casting Technology Station, School of Mining, Metallurgy and Chemical Engineering, Faculty of Engineering and the Built Environment, University of Johannesburg, Gauteng, South Africa

ID 103 Three-Dimensional Manufactured Replacement Robotic Arm for Industrial and Alternative Applications

Said Kafumbe, Faculty of Engineering Technology and Science, Higher Colleges of Technology, United Arab Emirates

ID 56 Reverse Logistics as a Way to a Sustainable Transformation in Organizations: A Literature Review

Marquina Giovanni, Bachelor, Industrial Engineering, University of Lima, Lima, Perú

Vargas Alejandro, Bachelor, Industrial Engineering, University of Lima, Lima, Perú

November 4, 2023 (Saturday) - Session: 9:40 am – 1:00 pm**Keynotes**

9:40 Keynote X:

Mr. Rakesh Vasisht

Vice President, Hero Motocorp, Delhi, India

10:20 Keynote XI:

Mr. Sanjay Ranawade

Senior Vice President (CMO), Jewellery Division, Titan Company Limited, India

11:00 Keynote XII:

Ajay Sambrani

Managing Director Asia Pacific, Member of Group Executive Management, TUBACEX, Mumbai, Maharashtra, India

11:40 Keynote XIII:

Dr. Sushil KumarProfessor in Operations Management
Indian Institute of Management, Lucknow, Uttar Pradesh, India

12:20 Keynote XIV:

Dr. Abhijit MajumdarR. Jaikumar Chair Professor for Operations Management
Indian Institute of Technology, Delhi, India**1:00 – 2:00 Lunch Buffet****November 4, 2023 (Saturday) - Session: 2:00 – 3:45 pm****2:00 – 3:45 pm, Saturday****Onsite Room 1****Industry 4.0 and SCM Panel**

Panel Chair

Dr. V. Vasu
Professor, Department of Mechanical Engineering
National Institute of Technology (NIT)
Warangal, India

Panel Speakers

Dr. Muhammed Muaz
Assistant Professor, Department of Mechanical Engineering
Aligarh Muslim University
Aligarh, India

Prof (Dr.) Rajesh Kumar Singh
Professor (Operations and Supply Chain Management)
Management Development Institute
Gurgaon, India

Rajendra Baraiya
Research Scholar in Operations Management
Indian Institute of Management, Indore
Indore, Madhya Pradesh, India

2:00 – 3:15 pm, Saturday

Operations Management

Onsite Room 2

Session Chair: Dr. Sundaravalli Narayanaswami, Indian Institute of Management, Ahmedabad, India

ID 3 Reducing Capacitated Lot Sizing Problem (CLSP) With No Shortages Into a Pure 0-1 Integer Linear Program OR Into a Linear Program Only In Production Variables: Outline Of A New Heuristic Procedure

Vinay Singh, ABV-IIITM Gwalior, India
R.R.K. Sharma, Dept. of IME, IIT Kanpur 208016, India
KK Lai, President, CYUT, Taiwan

ID 4 Multi Storey Facility Layout Problem with Unequal Sized Machine and Slots

Vinay Singh, ABV-IIITM Gwalior, India
RRK Sharma, Dept of IME, IIT Kanpur 208016, India
Kshitiz Mittal, UG Student, Dept of ChE, IIT Kanpur 208016, India
Didigam Nithin, UG Student, Dept of MSE, IIT Kanpur 208016, India
KK Lai, President, CYUT Taiwan

ID 89 A Study Understanding the Holistic Impact of Lean Six Sigma and Industry 4.0 in Building a Circular Economy

Ashish Shrivastava, BITS Pilani, India

ID 83 Evaluating the Efficiency of Professional Services Firms: A Non-Radial Super Efficiency DEA approach

Chandan Kumar Jha, Asst. Professor, Operations & Analytics, SOIL School of Business Design, Gurugram, India
IIM Ranchi
Amit Sachan, Associate Professor, Operations Management, IIM Ranchi, India

ID 51 Machine Learning-Based Weldability Assessment and Optimization of Resistance Spot Welding Joints: A Data-Driven Framework

Vinayak Gurav and Divya Shrivastava, Department of Mechanical Engineering, Shiv Nadar Institution of Eminence Deemed to be University
NCR-Delhi, India

2:00 – 3:45 pm, Saturday

Energy and Sustainability

Virtual Room 3

Session Chair: Oludolapo Akanni.Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban, South Africa
Dr. Mizanur Rahman, IEOM Society

ID 110 Wicked Moth Ousting Technology - An Analytical Approach for Precision Farming

Arnab Mondal and Ranita Dey, Student, Bachelor of Technology, Department of Computer Science and Engineering, Camellia Institute of Engineering and Technology, Budbud, West Bengal, India
Prof. Sagnik Dutta and Prof. Noor-A-Nabi Khan, Assistant Professor, Department of Computer Science and Engineering, Camellia Institute of Engineering and Technology, Budbud, West Bengal, India

ID 112 Digitisation in the oil and gas industry: Scope and potential

MP Sukumaran Nair, Center for Green Technology & Management, India

ID 118 Assessing the Relationship between the Quality of Steel Scrap and Competitiveness of SG-42 Manufacturers in South Africa

Daniel Sekotlong and Steven Mavhungu, Metal Casting Technology Station, University of Johannesburg, Johannesburg, South Africa

ID 151 Establishing Strategic Regional Value Chains in Africa For Sustainable Industrialisation – Africa Free Trade Agreement & Brics

Thakaramahlaha Lehohla, Wits Mining Institute, South Africa

ID 163 Smart Energy Systems and Use of Energy Plan as an Energy and Power Generation Planning Tool

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban, South Africa
Oludolapo Akanni.Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban, South Africa

ID 164 Dimensions of Energy Sustainability Measurement

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban, South Africa
 Oludolapo Akanni.Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban, South Africa

ID 165 Hydrogen Production and Application in The Energy Transition

Moses Jeremiah. Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban, South Africa
 Oludolapo Akanni.Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban, South Africa

November 4, 2023 (Saturday) - Session: 3:15 – 4:30 pm

3:15 – 4:30 pm, Saturday**Onsite Room 1****Global Lean Six Sigma and Operations Excellence****Session Chair: Faisal Talib**

Speaker I

Dr Naveen BP
 Professor & Director of Quality Assurance & Enhancement (QAE)
 Amity University Lucknow Campus, Chartered Engineer, MIE
 Lucknow, Uttar Pradesh, India

Speaker II

Dr. Sumit Shandilya
 Adjunct Professor – Operations & Supply Chain
 School of Management, BML Munjal University
 Executive Director & Chief Strategy Officer – QGS Group
 Director – CCSL Consulting, Australia
 Board Member – IIPE India

Speaker III

Dr. Vinaytosh Mishra
 Associate Professor, Healthcare Management, Digital Health and Healthcare Analytics
 College of Healthcare Management and Economics
 Gulf Medical University, Ajman, UAE

Speaker IV

Sanya Verma
 Research Analyst, GSMA
 Master of Business Administration
 Amity Business School

A title of your talk: Lean: The Principles, Pitfalls and the Best Practices

Speaker V

Mohd Ali
 Professor, Department of Mechanical Engineering
 A.M.U., Aligarh, INDIA

Speaker VI

Faisal Talib
 Professor, Mechanical Engineering Department
 A.M.U., Aligarh, India

3:15 – 4:30 pm, Saturday**Sustainability and Green Systems****Onsite Room 2**

Session Chair: Dr. Vivek Soni F.I.E., Faculty of Management Studies, University of Delhi, India

ID 37 A Study on Green Innovations: Enhancing India's Economy Through Sustainable Products

Rajeev Prasad P, M S Ramaiah University of Applied Sciences, India

ID 96 Fiscal Sustainability and Macroeconomic Performance: Evidence from selected West African

Abdulsalam Sikiru Ademola, Federal University Dutsinma, Katsina State, Nigeria

ID 113 Evaluating Preparedness of Indian Automobile Firms Towards SDG 14: A Graph Theoretic Approach

Nishtha Agarwal, Research Scholar, Indian Institute of Foreign Trade, New Delhi-110016, India

Mohit Saxena, Research Schola, Indian Institute of Foreign Trade, New Delhi-110016, India

ID 86 Self-Assessment Model for sustainable progress in pharmaceutical sector

Zoubida Benmamoun, Faculty of Engineering, Liwa College of Technology, Abu Dhabi, 41009, United Arab Emirates
Widad Fethallah, National School for Applied Sciences, Abdelmalek Essaadi University, BP 1818 Tangier, Morocco
Youssef Raouf, Systems Engineering Laboratory, Sultan Moulay Slimane University, Beni Mellal, 23000, Morocco

ID 218 Identifying Barriers and Challenges in Adopting Mobility as a Service (MaaS) in Unfamiliar Regions

Ar. Shashi Ranjan Singh, MTech Infrastructure Systems, Center for Transportation Systems, Indian Institute of Technology Roorkee, India
Ramesh Anbanandam, Professor, Department of Management Studies, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India
S.N. Rangnekar, Professor, Department of Management Studies, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India

November 4, 2023 (Saturday) - Session: 4:30 – 6:00 pm

4:30 – 6:00 pm, Saturday

Onsite Room 1

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair: Dr. Seema Singh, DTU

Panel Speaker I

Er. Kamini Gupta
Senior Technical Officer
Transportation Engineer
CSIR- Central Road Research Institute
New Delhi, India

Panel Speaker II

Dr. Seema Singh
Professor of Economics
Department of Humanities
Delhi Technological University
Delhi, India

ID 176 The Economics of Digital Marketing: A New Gateway of Independence for the Women of Today?

Pallavi Arora, Research Scholar, Department of Humanities, Delhi Technological University, Delhi, India
Seema Singh, Professor of Economics, Department of Humanities, Delhi Technological University, Delhi, India

4:30 – 6:00 pm, Saturday

Onsite Room 2

Supply Chain Management

ID 59 Balancing Cost and Environmental Impacts in Packaging Supply Chain Network: An Indian Perspective

Gulshan Kumar Gaur, Research Scholar, Department of Management Studies, Indian Institute of Technology Delhi (IIT Delhi), India
Jitender Madaan, Professor, Department of Management Studies, Indian Institute of Technology Delhi (IIT Delhi), India

ID 81 Simplified Product Availability Model for Grocery Distribution Chains

Philip M James, Post Graduate Student in Industrial Engineering, Department of Mechanical Engineering, College of Engineering Trivandrum, India
Dr. Regi Kumar V, Professor in Industrial Engineering, Department of Mechanical Engineering, College of Engineering Trivandrum, India

ID 5 Single Stage Plant-Warehouse Location Problem (SSPWL): A State of Art Formulation

Vinay Singh, ABV-IIITM Gwalior, India
RRK Sharma and PushkarAwasthi, Dept of IME IIT Kanpur 208016 India
KK Lai, President, CYUT, Taiwan

ID 221 Comprehensive review of sustainable studies and system dynamics modeling in automobile industries

Payal Singh, Research Scholar, Dayalbagh Educational Institute, Agra, India
Sanjay Bhushan, Professor, Dayalbagh Educational Institute, Agra, India
D.K. Benwet, Professor, Indian Institute of Technology, Delhi, India

4:00 – 5:45 pm, Saturday

Technical Presentations

Virtual Room 3

Session Chairs: Selma Gülyeşil, Department of Industrial Engineering, Gaziantep Islam Science and Technology University, Gaziantep, Turkey
Aqib Islam and Tipu Sultan, IEOM Society

ID 54 Concrete Walls. Public Policies and the search for justice for women

Gabriela Guadalupe Escobedo- Guerrero, Escuela Superior de Comercio y Administración, Unidad Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico
Guadalupe Magdalena Sánchez-Palacios, Escuela Libre de Derecho, Mexico City, Mexico
Magdalena Montserrat Tiempo-Escobedo, Centro Interdisciplinario de Ciencias de la Salud, Unidad Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

ID 64 Valorization of piggery slurry wastewater to bioenergy

G. Maponga, Department of Chemical and Process Systems Engineering, Harare Institute of Technology, Zimbabwe
M. M. Manyuchi, Department of Chemical and Process Systems Engineering, Harare Institute of Technology, Zimbabwe
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

ID 166 Carbon Capture and Sequestration in The Energy Transition

Moses Jeremiah Barasa, Industrial Engineering Department, Durban University of Technology, Durban South Africa
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 114 Plasma Blade Propulsion: Revolutionizing Aircraft, Marine & Spaceplane Travel

Ryan Nadar, B. tech in Aerospace, Ajeenkya DY Patil University, Pune, India
Vijaya Kumar Varadarajan, Dean of international division, Ajeenkya DY Patil University, Pune, India

ID 117 Wind Ionic Propulsion System

Ryan Nadar, B. tech in Aerospace, Ajeenkya DY Patil University, Pune, India
Vijaya Kumar Varadarajan, Dean of international division, Ajeenkya DY Patil University, Pune, India

ID 116 Design of Rehabilitation Device for Increasing Micro Circulation in Diabetic People

Saheefa Khan, Aditya Kumar Singh, Arquam Hashim Siddiquie and Yash Singhal, Department of Mechanical Engineering, Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh, India
Abid Ali Khan, Professor, Department of Mechanical Engineering, Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh, India

ID 33 Solving Order Batching and Assignment Problem with Multiple Pickers and Central Depot

Selma Gülyeşil, Department of Industrial Engineering, Gaziantep Islam Science and Technology University, Gaziantep, 27010, Turkey
Zeynep Didem Unutmaz Durmuşoğlu, Department of Industrial Engineering, Gaziantep University, Gaziantep, 27310, Turkey

November 4, 2023 (Saturday) - Session: 7:00 – 10:00 pm

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3rd INDIAN INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND OPERATIONS MANAGEMENT (IEOM INDIA 2023)

Submission
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DELHI TECHNOLOGICAL UNIVERSITY, NEW DELHI



2-4 November, 2023
New Delhi, India



3rd Indian International Conference on Industrial Engineering and Operations Management

New Delhi, India, November 2-4, 2023

Hosts: Aligarh Muslim University and Delhi
Technological University

Venue: Hotel The Royal Plaza, 19 Ashok Road,
Delhi

Website: <http://ieomsociety.org/india2023/>

About the Conference

IEOM Society International is organizing the 3rd Indian International Conference on Industrial Engineering and Operations Management in New Delhi, India, November 2-4, 2023. Hosts are Aligarh Muslim University, Aligarh and Delhi Technological University, New Delhi. Venue is Hotel The Royal Plaza, 19 Ashok Road, Connaught Place, New Delhi. The Conference is planned with Hybrid mode. The conference aims to provide a forum for academics, researchers and practitioners to exchange ideas and recent developments in the field of Industrial Engineering and Operations Management, and also AI & ML applications in Industrial Engineering and Management. The conference is also expected to foster networking, collaboration and joint effort among the conference participants to advance the theory and practice as well as to identify major trends in Industrial Engineering and Operations Management. Currently has 217 student chapters in 54 countries. There are 151 countries from six continents participating in various IEOM Society activities. The IEOM Global Community has more than 20,000 members.

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The IEOM Society International, a nonprofit professional organization, based in Michigan, USA, is a premier global platform dedicated to the advancement of industrial engineering and operations management discipline for the betterment of humanity. IEOM is a global platform for academics, researchers, scientists, and practitioners to exchange ideas. Most importantly, it provides insights into the latest technologies, tools and advancements in the fields of

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Aligarh Muslim University (AMU) occupies a unique position amongst universities and institutions of higher learning in the country. It was established in 1920 and evolved out of the Mohammedan Anglo-Oriental (MAO) was set up on 7 January 1877 by the great visionary and social reformer, Sir Syed Ahmad Khan. From its very inception, it has kept its door open to the members of all communities and from all corners of the country and the world. Spread over 467.6 hectares in the city of Aligarh, Uttar Pradesh, Aligarh Muslim University offers more than 300 courses in the traditional and modern branches of education. It draws students from all states in India and from different countries, especially Africa, West Asia and Southeast Asia. The University has been maintaining its national and international character as an institution of excellence. It has more than 37327, students, 1686 teachers and some 5,610 non-teaching staff on its rolls. The University now has 13 faculties comprising 117 teaching departments, 3 academies and 21 centers and institutes. It has the Zakir Hussain College of Engineering and Technology, which offers B.Tech, M.Tech and Ph.D. programme in various branches of Engineering & Applied Sciences. In addition, the Faculty also offers a 4 Year B.E.(Evening) Degree Course in Civil, Electrical & Mechanical Engineering to Diploma holders and a 5 Years Degree Course of B.Arch. The college has twelve Departments and four Centers of Advance Research to carry out teaching/research at the Undergraduate, Postgraduate and Research level.

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Abstract/Paper Submission	*September 30, 2023 October 15, 2023
Review/Feedback	*October 10, 2023 October 25, 2023
Registration Deadline	October 15/25, 2023
Final Paper Submission (Camera ready paper)	October 25, 2023 (no revision is allowed after this deadline)
Conference Dates	November 2-4, 2023



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60. P.D.A. College of Engineering, Gulbarga	137. Olabisi Onabanjo University	213. CFVG, Ho Chi Minh City, Vietnam
61. Vellore Institute of Technology	Oman	Zambia
62. Vidya Jyothi Institute of Technology, Hyderabad	138. Sultan Qaboos University	214. University of Zambia
63. Universal College of Eng & Tech (UCET), Guntur	139. Middle East College	215. Copperbelt University
64. National Institute of Technology (NIT), Warangal	Pakistan	216. Evelyn Hone College
65. Jawaharlal Nehru Technological University Hyderabad	140. Dawood University of Eng and Technology, Karachi	Zimbabwe
66. IITS, India	141. Government College University Faisalabad	217. University of Zimbabwe, Harare
67. Birla Institute of Tech & Sciences (BITS Pilani)	142. Mehran University of Eng and Tech, Jamshoro, Sindh	218. National University of Science and Technology
68. Amrita School of Business – Bangalore	143. Riphah International University, Lahore Campus	219. Harare Institute of Technology (HIT)
69. Amrita school of Arts and Sciences, Mysuru	144. University of Engineering and Technology, Lahore	220. Women's University in Africa (WUA)
70. Amrita School of Business, Coimbatore	145. UOT – Nowshera	221. Chinhoyi University of Technology (CUT)
71. Aligarh Muslim University, Aligarh	146. Information Technology Univ. of the Punjab, Lahore	High School Chapters
72. Mahant Bachittar Singh College Eng & Tech, Jammu	Papua New Guinea	222. Bay Area of San Francisco & San Jose, CA
73. Baba Banda Singh Bahadur Eng College	147. Papua New Guinea University of Technology	223. Arongghata, Khulna, Bangladesh
74. Ramaiah University of Applied Sciences	Paraguay	
75. Nawab Shah Alam Khan College Eng & Tech (NSAKCET)	148. National University of Asuncion	
	149. Universidad del Cono Sur de las Américas	
	Peru	

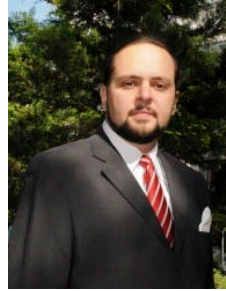
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Upcoming IEOM Conferences



6th Industrial Engineering and Operations Management Bangladesh Conference
Dhaka, Bangladesh, Dec. 26-28, 2023
 Venue: Krishibid Institution, KIB, Farmgate + Virtual



Chittagong University of Engineering & Technology (CUET)



2nd Australian Conference on Industrial Engineering and Operations Management
Nov. 14-16, 2023, Melbourne
 Venue: Batman's Hill Hotel on Collins



14th International Conference on Industrial Engineering and Operations Management
February 12-14, 2024, Dubai, UAE
 Venue: Hyatt Regency Dubai, Host: Khalifa University



جامعة خليفة
Khalifa University



5th African International Conference on Industrial Engineering & Operations Management
Johannesburg/Pretoria, South Africa
 April 23-25, 2024, Venue: CSIR ICC



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5th South American Conference on Industrial Engineering & Operations Management
Bogota, Colombia, May 7-9 2024
 Host: Fundación Universitaria UNIR Colombia



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9th North American Conference on Industrial Engineering and Operations Management
Washington, DC, USA, June 4-6, 2024
 Host: University of the District of Columbia (UDC)
 Venue: UDC Campus, 4200 Connecticut Ave NW



Host University
UNIVERSITY OF THE DISTRICT OF COLUMBIA
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7th European Conference on Industrial Engineering & Operations Management
Augsburg / Munich, Germany
 July 16-18, 2024
 Host: Augsburg Technical University



Hochschule Augsburg
 University of Applied Sciences
Augsburg Technical University of Applied Sciences



5th Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 10-12, 2024, Tokyo, Japan
 Host: Hosei University, Venue: Yokohama



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