



2018 IEOM Awards – Pretoria, South Africa

October 30 – November 1, 2018

Distinguished Leadership Award

- Arthur Mutambara, Former Deputy Prime Minister of Zimbabwe, Visiting Full Professor at the University of Johannesburg
- AAA. Atayero, Ph.D., Vice Chancellor, Covenant University, Ota, Ogun State, Nigeria
- Livhuwani Tommy Makhode, Deputy Director-General: Institutional Planning and Support, Department of Science and Technology, Republic of South Africa

IEOM Distinguished Academic Award

- Professor Angina Parekh, Deputy Vice Chancellor: Academic, University of Johannesburg, South Africa and Former Special Advisor on Higher Education to the Minister of Education

IEOM Distinguished Educator Awards

- Prof. J Walters, College of Business and Economics, Department of Transport and Supply Chain Management, HOD and Director of the Institute for Transport and Logistics Studies (ITLS) (Africa)
- Dr. Sundaravalli Narayanaswami, Indian Institute of Management, Ahmedabad, India

IEOM Distinguished Industry Awards

- Khaya Madiba, Bogie - Subsystem & Maintenance Engineer, Gibela-Rail, South Africa
- Dr. Eugén Ranft, Operations Manager, Eaton Electric (South Africa) (Pty) Ltd, Johannesburg, RSA
- Cobus Oosthuizen, Chief Executive Officer, ESTEQ, Pretoria, Gauteng, South Africa
- Mr. Aluwani Percy Ramabulana, Chairman / Project Leader / Board Member, Dataqwp and Mudzi Energy and Logistics T/A Mudzi Transport Solutions, Johannesburg, South Africa

IEOM Industry Solutions Awards

- Natasha Ramkirpal, Production and Process Improvement Specialist, Coca-Cola Beverages South Africa (CCBSA)
- Dudley Jura, Operations Manager: Coke & Chemicals, ArcelorMittal South Africa, Vanderbijlpark, Gauteng, South Africa
- Dimakatso Lesabe, Head: Quality Assurance at City of Cape Town

IEOM Distinguished Service Awards

- Prof. Mukondeleli Grace Kanakana, Univ. of South Africa (UNISA)
- Dr. Bolanle Tolulope Abe, Tshwane Univ. of Technology (TUT)
- Prof Charles Mbohwa, Univ. of Johannesburg (UJ)
- Prof. Khumbulani Mpofo, Gibela Research Chair in Manufacturing and Skills Development, Tshwane Univ. of Technology (TUT)
- Prof. John Alfred Trimble, Tshwane Univ. of Technology (TUT)

- Prof. Thomas Tengen, Vaal University of Technology (VUT)
- Prof. Sarma Yadavalli, University of Pretoria (UP)

IEOM Global Engineering Education Awards

- Dr. William Msekiwa Goriwondo, Executive Dean, Faculty of Industrial Technology, National University of Science and Technology (NUST), Zimbabwe

IEOM Woman in Industry and Academia Award

- Dr. Nita Sukdeo, Full Time Senior Lecturer in Quality and Operations Management, Department of Quality and Operations Management, University of Johannesburg, South Africa

IEOM Outstanding Teaching Awards

- John Ikome, Department of Industrial Engineering and Operations Management, Vaal University of Technology (VUT)
- Mosia Ngaka, Department of Mechanical and Industrial Engineering, University of South Africa
- Bontle Tladi, Lecturer of Industrial Engineering Design, University of Witwatersrand

IEOM Ambassador Awards

- Prof. Pule Kholopane, Head of Department: Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg
- Prof. Clinton Aigbavboa., Vice Dean-Postgraduate Studies, Research and Innovation and Head of Sustainable Human Settlement and Construction Research Centre, University of Johannesburg (UJ)

IEOM Outstanding Service Awards

- Tsholofelo Queen Mokolopo, Tshwane University of Technology (TUT)
- Dr. Olufemi Adetunji, Senior Lecturer, Department of Industrial and Systems Engineering, University of Pretoria, Pretoria, South Africa
- Ms. Sebonkile Thaba, Lecturer and Community Engagement Coordinator, Department of Transport and Supply, University of Johannesburg (UJ)
- John Ikome, , Department of Industrial Engineering and Operations Management Vaal University of Technology (VUT)

IEOM Outstanding Achievement Awards

- Dr. Anthea Amadi-Echendu, Senior Lecturer, Acting Chair of the Department of Operations Management, University of South Africa
- Paul Agachi, Botswana International University of Science & Technology, Palapye, Botswana
- Bruno Emwanu, School of Mechanical, Industrial and Aeronautical Engineering, University of the Witwatersrand, Johannesburg, South Africa

IEOM Outstanding Doctoral Dissertation Award

- Dr. Olasumbo Ayodeji Makinde, Tshwane University of Technology (TUT)

IEOM Outstanding Student Awards

- Gabisile Gamede, Department of Industrial Engineering - Tshwane Univ. of Technology (TUT)
- Miss Slindile Mbuyane, Department of Quality and Operations Management, University of Johannesburg, South Africa
- Euodia Vermeulen, Dept. of Industrial and Systems Engineering, University of Pretoria (UP)
- Tshegofatso Gabara, Department of Industrial Engineering and Operations Management - Vaal University of Technology (VUT)

Undergraduate Student Paper Competition Awards Sponsored by SIEMENS

1st Place

ID 209 Time-Dependent Traffic Route Selection for Unsignalized Junctions in Tandem Queueing network
Anand Jaiswal, Chirag Chandan Mishra and Cherian Samuel, Dept. of Mechanical Engineering, Indian Institute of Technology (IIT), Varanasi, India

2nd Place

ID 088 Gas Chromatography Calibration Curve for Siloxanes Analysis

Justin K. Mbwebwe, Douw G. Faurie and Molelekoa J. Mosesane, Department of Chemical, Metallurgical and Material Engineering, Tshwane University of Technology, Pretoria, Republic of South Africa

3rd Place

ID 465 Integrated Energy Conversion (IEC) System for Fitness Centres

Emanuel Zeferino and Boitumelo Ramatsetse, Tshwane University of Technology, South Africa

Graduate Student Paper Competition Awards sponsored by EATON Corporation

1st Place

ID 086 The Study of the Sewerage Disinfection Properties of Moringa Oleifera Leaf Powder

Douw G. Faurie, Sthen-Karl Boussougou and Molelekoa J. Mosesane, Department of Chemical, Metallurgical and Material Engineering, Tshwane University of Technology, Pretoria, Republic of South Africa

2nd Place

ID 095 Evaluation of Chemical Oxygen Demand (COD) Reduction in Distillery Wastewater Treatment Using the Photocatalysis

Daphney Hlotse, Thabo Brooms, Molelekoa Mosesane, Department of Chemical, Metallurgical and Materials Engineering, Tshwane University of Technology, Pretoria, South Africa

3rd Place

ID 134 Application of Auxiliary Equipment in Productivity Improvement

Ngaka Mosia, Mechanical and Industrial Engineering, University of South Africa (Unisa), Florida, Science Campus, Gauteng, South Africa

Jan Harm Christiaan Pretorius, University of Johannesburg, South Africa

LEAN SIX SIGMA COMPETITION

ID 204 Implementation of 5S in a Mechanical Workshop at University of Johannesburg: A Case Study

Valentine Khumalo, Kapil Gupta and Zanele Mpanza, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, RSA

Master Thesis Competition Awards

1st Place

ID 253 Characterization of an Auger-Type Pyrolysis Reactor using Induction Heating as an Energy Source

Daniel Erich Botha, Pyro Carbon Energy (Pty) Ltd, Gaborone, Botswana

Mmoloki Makoba, Department of Chemical, Materials and Metallurgical Engineering, Faculty of Engineering and Technology, Botswana

International University of Science and Technology, Palapye, Botswana

László-Zsolt Szabó, Dept. of Chemical Engineering, Faculty of Chemistry and Chemical Engineering, University of Babeş-Bolyai, Cluj-Napoca, Romania

Thapelo Shomana, Baboloki Thatayaone Chiwara, Şerban Paul Agachi and Edison Muzenda Department of Chemical, Materials and Metallurgical Engineering, Faculty of Engineering and Technology, Botswana International University of Science and Technology, Palapye, Botswana

2nd Place

ID 128 Application of Auxiliary Equipment in Productivity Improvement

Ngaka Mosia, Unisa, South Africa

Jan Harm Christiaan Pretorius, University of Johannesburg, South Africa

Best Poster Awards

1st Place

ID 191 A Capacitated Clustering Heuristic for Large Datasets

Jacoba H. Bührmann and Ian Campbell, School of Mechanical, Industrial and Aeronautical Engineering, University of the Witwatersrand, Johannesburg, RSA

M. Montaz Ali, School of Computational and Applied Mathematics (CAM), University of the Witwatersrand, Johannesburg, RSA

2nd Place

ID 470 Performance Assessment of a Reconfigurable Vibrating Screen Using Finite Element Analysis and Experimental Approach

Boitumelo Ramatsetse and Khumbulani Mpofo, Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa

3rd Place

ID 155 A Review on Novel Techniques for Iron Recovery from Chalcopyrite (CuFeS₂)

N. Poloko and G. Dahna Department of Chemicals, Materials & Metallurgical Engineering, Botswana International University of Science and Technology, Private Bag 16, Palapye, Botswana

ID 474 Technological Tools and Application Platform for Successful Development of Reconfigurable Machine Tools

V. Sibanda, Khumbulani i Mporu and J. Trimble, Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa

Best Track Papers Awards

Automation and Agility 136

What has Industry 4.0 got to do with us? A review of the Literature

Dennit Quewan Adams

Department of Industrial Engineering

Masters student at Tshwane University of Technology, Pretoria, South Africa

Prof. Khumbulani M. Mporu

Department of Industrial Engineering

Tshwane University of Technology, Pretoria, South Africa

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Adjudging the Efficacy of Total Productive Maintenance: Case Study

Ignatio Madanhire, Kumbi Mugwindiri and Stephen Ndlovu

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Charles Mbohwa

University of Johannesburg, Department of Quality Management and Operations Management,

P. O. Box 524, Auckland Park 2006, South Africa.

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Time Series forecast of Sea Surface Temperature for Hokkaido fishery ports along coastal line of Japan Sea

Chim Chwee WONG

LKC Faculty of Engineering and Science, Universiti Tunku Abdul Rahman, Kuala Lumpur, Malaysia

Junichi KISHIGAMI

Department of Information and Electronic Engineering, Muroran Institute of Technology, Hokkaido, Japan

Decision Sciences 79

A predictive approach for effective management and planning within the energy sector of South Africa

L.K. Tartibu

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University of Johannesburg, Doornfontein Campus, Johannesburg 2028, South Africa

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Energy Efficiency in Manufacturing in the context of the Fourth Industrial Revolution

Adenuga Olukorede Tijani, Mporu Khumbulani and Gabisile Buyiswa Gamede

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Long-term electricity demand forecasting using a generalised additive mixed quantile averaging (GAMMQV) model

Paul Mokilane and Pravesh Debba

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and School of Statistics and Actuarial Science, University of the Witwatersrand, South Africa

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Nexus between Human Capital Development and Economic Growth in Nigeria

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Afe Babalola University, Ado Ekiti, Nigeria

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Exploring the Impact Project Definition Readiness Index on Capital Projects for Coal-Fired Power Station Projects

Yolisa Andi Motsepe, Bheki Makhanya and Prof. J.H.C Pretorius

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Ratshiedana P.E, Nwobodo-Anyadiegwu Nkeiruka Eveth, and Kidoge Ibrahimu

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University of Johannesburg, Johannesburg, South Africa

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Frederick Robert Peter Edlmann

Department of Industrial Engineering, University of Stellenbosch, South Africa

Sara S. Grobbelaar

Department of Industrial Engineering AND DST-NRF Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP), University of Stellenbosch, South Africa

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Concomitant of Global Warming and Land Reclamation: Designing a new interface between human kind and sea

Islam Hamdi El-Ghonaimy, and Urban Consultant

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College of Engineering - University of Bahrain, Isa Town, Bahrain

Needa Javed

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Implementation of Lean Manufacturing within the South African Textile Industry

Violet Jacobs and Lungile Nyanga

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Anand Jaiswal

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Chirag Chandan Mishra

Department of Mechanical Engineering, National Institute of Technology, Warangal, Warangal, Telangana, India

Cherian Samuel

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Abdool Kamdar, Frank Kienhöfer, and Bruno Emwanu

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Gert Heyns

University of Johannesburg, PO Box 524, Auckland Park, 2006

Paul Nordengen

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Stephen Katlego Letlhake, Goodwell Muyengwa and Yvonie N. Mawane

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University of Johannesburg, Johannesburg, South Africa

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Anastasia Papadouris and George Alex Thopil

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Prof Islam El-Ghonaimy

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University of Bahrain, Bahrain

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Jolanda Becker and Wynand van Dyk

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Yvonie N. Mawane and Goodwell Muyengwa

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Philisa Mangakane, John Trimble and Mukondeleli Grace Kanakana-Katumba

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