4TH AFRICAN CONFERENCE
on Industrial Engineering and Operations Management

Lusaka, Zambia

VENUE
Hilton Garden Inn

April 4–6, 2023

ORGANIZER
IEOM Society International

HOST
The University of Zambia
Sponsors and Partners

Organizer

IEOM Society
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 4th African International Conference on Industrial Engineering and Operations Management, Lusaka, Zambia

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 4th African International Conference on Industrial Engineering and Operations Management, April 4-6, 2023, hosted by University of Zambia. The Venue is Hilton Garden Inn Lusaka. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 300 papers/abstracts submitted from 34 countries. After a thorough peer-review process, more than 200 have been accepted for presentation and publication. The program includes many cutting-edge topics of industrial engineering and operations management.

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

- Prof. Anne Lungowe Sikwibele, Acting Vice Chancellor, University of Zambia, Lusaka, Zambia
- Dr. Douglas Mboweni, Group Chief Executive Officer, Econet Wireless Zimbabwe Limited, Harare, Zimbabwe
- Dr. Lubinda Haabazoka, Director, Graduate School of Business, University of Zambia, Lusaka, Zambia
- Dr. Manuel Woschank, Deputy Head – Chair of Industrial Logistics, Montanuniversitaet Leoben, Austria
- Dr. Christopher E. Borroni-Bird, Founder of Afreecar LLC, Former Vice President, Strategic Development of Qualcomm, Detroit, Michigan, USA
- Dr. Mcono-Liwani Buyiswa, Corporate Services & Traction Motors Operation Executive, Gibela Rail Transport Consortium, Johannesburg
- Dr. Charles Mungule, Director, Citizen Economic Empowerment Commission, Lusaka, Zambia
- Dr. Michael N. Mulenga, School of Engineering, University of Zambia, Lusaka, Zambia
- Dr. Piera Centobelli, Professor of Business Economics and Organization, Università degli Studi di Napoli Federico II, Naples, Italy
- Dr. James A. Tompkins, Chairman and Founder, Tompkins Ventures. Chairman and Co-Founder, Tompkins Leadership, USA
- Dr. Grace Mukondeleli Kanakana-Katumba, Executive Dean, Faculty of Engineering and the Built environment, Tshwane Univ. of Technology,
- Dr. Vassiliis C. Gerogiannis, Professor and Head, Department of Digital Systems, University of Thessaly, Larissa, Greece
- Dr. Clinton AlGBAVBOA, Professor, Dept. of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg
- Mr. Lukonga Lindunda, Co-Founder/Executive Director, Bonghive Group, Lusaka, Zambia
- Mr. Steven Dihwa, Coordination Centre Executive Director, Southern African Power Pool (SAPP), Harare, Zimbabwe
- Lerato Nyama, Quality Management & Internal Governance Director, Siemens Digital Industries, Johannesburg, Gauteng, South Africa

The 38th IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 37th IEOM Industry Solutions will showcase major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing, MSV, and industry best practices. The 17th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. 8th Global Business Management addresses operations excellence. First IEOM Data Analytics and IEOM Lean Six Sigma Plenary Series are introduced at the 2023 IEOM Zambia Conference. Eight-panel sessions have been planned: Industry 4.0, Industry Solutions, Global Engineering Education, Supply Chain, Women in Industry and Academia, Global Engineering Education, and Diversity & Inclusion sponsored by Ford Motor Company.

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

University of Zambia, the conference host, welcomes all participants. The IEOM Society Conference Planning Committee hopes you will enjoy the Zambia conference. We wish all of you for a successful and memorable event.

Enjoy the conference!
IEOM Zambia Conference  
April 4-6, 2023

Conference Overall Program

All times are Zambia Time

Day 1 – April 4 (Tuesday)

08:00 – 09:45 Parallel Sessions
09:45 – 10:00 Opening and Welcome Address - Prof. Anne Lungwe Sikwibele, Acting Vice Chancellor, University of Zambia, Lusaka, Zambia
10:00 – 10:40 Keynote I: Dr. Douglas Mboweni, Group Chief Executive Officer, Econet Wireless Zimbabwe Limited, Harare, Zimbabwe
10:40 – 11:20 Keynote II: Dr. Lubinda Haabazoka, Director, Graduate School of Business, University of Zambia, Lusaka, Zambia
11:20 – 12:00 Keynote III: Dr. Manuel Woschank, Deputy Head – Chair of Industrial Logistics, Montanuniversitaet Leoben, Austria
12:00 – 12:40 Keynote IV: Dr. Christopher E. Borroni-Bird, Founder of Afreecar LLC, Former Vice President, Strategic Development of Qualcomm, Detroit, Michigan, USA
12:40 – 01:20 Keynote V: Dr. Mncono-Liwani Buyiswa, Corporate Services & Traction Motors Operation Executive, Gibela Rail Transport Consortium, Johannesburg
01:20 – 02:00 Break
02:00 – 03:45 Parallel Sessions
04:00 – 05:45 Parallel Sessions

Day 2 – April 5 (Wednesday)

08:00 – 09:45 Parallel Sessions
10:00 – 10:40 Keynote VI: Dr. Charles Mungule, Director, Citizen Economic Empowerment Commission, Lusaka, Zambia
10:40 – 11:20 Keynote VII: Dr. Michael N. Mulenga, School of Engineering, University of Zambia, Lusaka, Zambia
11:20 – 12:00 Keynote VIII: Dr. Piera Centobelli, Professor of Business Economics and Organization, Università degli Studi di Napoli Federico II, Naples, Italy
12:00 – 12:40 Keynote IX: Dr. James A. Tompkins, Chairman and Founder, Tompkins Ventures. Chairman and Co-Founder, Tompkins Leadership, USA
12:40 – 01:20 Keynote X: Dr. Grace Mukondeleli Kanakana-Katumba, Executive Dean, Faculty of Engineering and the Built environment, Tshwane Univ. of Technology
01:20 – 02:00 Break
02:00 – 03:45 Parallel Sessions
04:00 – 05:45 Parallel Sessions

Day 3 – April 6 (Thursday)

08:00 – 09:45 Parallel Sessions
10:00 – 10:40 Keynote XI: Dr. Vassilis C. Gerogiannis, Professor and Head, Department of Digital Systems, University of Thessaly, Larissa, Greece
10:40 – 11:20 Keynote XII: Dr. Clinton AIGBAVBOA, Professor, Dept. of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa
11:20 – 12:00 Keynote XIII: Mr. Lukonga Lindunda, Co-Founder/Executive Director, Bonghive Group, Lusaka, Zambia
12:00 – 12:40 Keynote XIV: Mr. Steven Dihwa, Coordination Centre Executive Director, Southern African Power Pool (SAPP), Harare, Zimbabwe
12:40 – 01:20 Keynote XV: Lerato Nyama, Quality Management & Internal Governance Director, Siemens Digital Industries, Johannesburg, Gauteng, South Africa
01:20 – 02:00 Break
02:00 – 03:45 Parallel Sessions
04:00 – 05:45 Awards Ceremony
Keynote Speakers
Tuesday, April 4, 2023

Conference Welcome and Opening: Tuesday, April 4, 2023, 9:45 – 10:00 am

Prof. Anne Lungowe Sikwibele
Acting Vice Chancellor
University of Zambia
Lusaka, Zambia

+40 years’ experience in higher education sector including +10 years in education management and leadership in Zambia and Botswana. Hold the distinction of being one of the first 6 women Professors in Zambia.

Board and committee experience:
My service in chairperson, board and committee member roles, focusses on HR, governance, audit & risk and finance committees in academic, international development and non-governmental organizations that address diversity, inclusion, and specifically, gender policy.

Organizational leadership:
I’ve contributed academic and administrative leadership to the tertiary education sector (Zambia, Nigeria, South Africa, Botswana, India, and Swaziland) and served on university and academic committees and global forums relating to education, education policy, education technology & gender.

Policy, advisory and consulting:
Through +40 commissioned consultancy reports and research studies I’ve guided educational policy, management and administration and mainstreaming gender and poverty on the educational policy agenda.

Partnerships and stakeholder engagement:
I invest in and nurture stakeholder relationships and create partnerships to achieve synergistic goals. Through alumni events, SADC, African Union and Commonwealth partnerships, and relationships with corporates, I’ve helped reduce fiscal burden to students and university, facilitated knowledge and skills transfer, gained access to resources and supplementary funding.

Thought leadership:
My thought leadership focusses on education policy, gender and poverty, human rights and social development in education, online and distance learning and higher education in developing countries. I’ve authored and edited numerous books, textbooks and booklets, chapters on education, conference books and monographs for the World Bank and UNESCO, refereed and non-refereed journal articles, and research reports.

Opening Keynote I: Tuesday, April 4, 2023, 10:00 – 10:40 am

Douglas Mboweni, Ph.D.
Group Chief Executive Officer
Econet Wireless Zimbabwe Limited
Harare, Zimbabwe

Dr Douglas Mboweni is the CEO of Econet Wireless Zimbabwe, the country’s leading provider of telecoms services and has over 20 years of executive management experience in the Information Technology and Telecommunications industry. Under his stewardship, Econet Wireless Zimbabwe has leveraged innovation in the face of difficult economic conditions to grow its subscriber base from two hundred thousand in 2002 to over twelve million today, commanding market share of above 65%.

Dr. Mboweni was instrumental in the promotion of local mobile financial services through EcoCash, up to the unbundling and listing of its parent company, Cassava Smartech on the Zimbabwe Stock Exchange. He was also part of the team that set up and launched Mascom (Botswana) and Econet Wireless Nigeria amongst various roles assumed in the Econet Wireless Global group. In recognition of his leadership and success, Dr. Mboweni has won several national and international accolades including the coveted Institute of Directors Zimbabwe, Director of the Year in 2005 and 2013 as well as the Zimbabwe Institute of Management, Manager of the Year in 2004.

Dr. Mboweni graduated with a Doctor of Philosophy (PhD) Degree in Business Leadership from the Zimbabwe Open University (ZOU) in 2019. In his doctorate thesis, he proposed the Leadership-Driven Resilience Model (LDRM), which theoretically proffered possibilities for business leaders to develop sustainable coping strategies in response to extreme business operating environments. He is also and is a holder of a Master’s in Business Leadership (UNISA), and a BSc Mathematics & Computer Science degree from the University of Zimbabwe (UZ).

Besides his many career accomplishments, Dr Mboweni is a published author of A Dusty Road To Success: Principles of an extraordinary life, an inspirational piece intended to motivate people to discover their purpose and unleash their God-given greatness. He is a visiting Professor of Practice at the University of Johannesburg since 2018 and has been a panelist at the African Executive Coaching Council as well as the Industrial Engineering and Operations Management Society (IEOM) conferences. In his spare time, Douglas facilitates a number of youth mentorship programmes in the community. Dr Mboweni is married to Sarudzayi and they are blessed with 3 children.
Keynote II: Tuesday, April 4, 2023, 10:40 – 11:20 am

Dr. Lubinda Haabazoka  
Director, Graduate School of Business  
University of Zambia  
Lusaka, Zambia

Dr. Lubinda Haabazoka is a Director at the University of Zambia’s Graduate School of Business. He is the immediate past President of the Economics Association of Zambia. He has also worked as Head of Department and Senior Lecturer in Economics, Banking and Finance. He has a Doctor of Philosophy Degree in Economics, with a focus on Banking, from Rostov State Economics University, Russia. He is non-executive director for several companies in Zambia. He is author of several academic books and over 30 research papers in international peer reviewed journals. He has also facilitated and presented papers at high level conferences including high level side meetings at the United Nations General Assembly, Atom Expos and International Atomic Agency events in Europe and Africa. He is the founder of the National Economic Summit in Zambia. He is a regular commentator on national and international economic issues with CNN, Bloomberg, Financial Times, DW, SABC, Russia 24, CCTV, ZNBC, among others.

Keynote III: Tuesday, April 4, 2023, 11:20 am – 12:00 pm

Dr. Manuel Woschank  
Deputy Head – Chair of Industrial Logistics  
Montanuniversitaet Leoben  
Austria

Manuel Woschank received a Ph.D. in Management Sciences with summa cum laude from the University of Latvia (Latvia) and the Habilitation in Industrial Engineering and Management from the Montanuniversitaet Leoben (Austria). He is currently Deputy Head of the Chair of Industrial Logistics at the Montanuniversitaet Leoben and an Adjunct Associate Professor at the Faculty of Business, Management, and Economics at the University of Latvia. He was a visiting scholar at the Technical University of Kosice and the Chiang Mai University. His research interests include the areas of production planning and control, logistics 4.0 concepts and technologies, behavioral decision making, and engineering education.

Keynote IV: Tuesday, April 4, 2023, 12:00 – 12:40 pm

Dr. Christopher E. Borroni-Bird  
Founder of Afreecar LLC  
Former Vice President, Strategic Development of Qualcomm  
Detroit, Michigan, USA

Dr. Christopher Borroni-Bird is Founder of Afreecar LLC and an expert on sustainable and affordable mobility for ALL the world’s people. This builds on his 25-year career leading advanced mobility initiatives at several major organizations as well as volunteering in sub-Saharan Africa.

At Afreecar he is a senior advisor on future mobility to McKinsey and is also sought out to provide independent technical due diligence on future mobility solutions and companies in vehicle autonomy, connectivity and electrification. Separately, Afreecar is also developing an e-kit that power assists non-motorized vehicles while also transforming them into mobile power sources, which has many applications in both the developing and developed worlds.

He served as Waymo’s Chief Engineer for Future Vehicle Programs and has been a Research Scientist at MIT Media Lab. From 2012 to 2017, he was Qualcomm’s VP of Strategic Development, responsible for wireless automotive solutions. Prior to this, he led GM’s Electric Networked Vehicle (EN-V), the world’s first drivable vehicles to demonstrate today’s accepted vision of future mobility (and extensively deployed at the 2010 Shanghai World Expo). He led GM’s Autonomy, Hy-wire and Sequel “skateboard” electric vehicle concepts, now widely adopted by the Auto Industry, and has 50 patents. He is co-author of “Reinventing the Automobile: Personal Urban Mobility for the 21st Century”, with Larry Burns and the late Bill Mitchell (MIT Press, 2010). Before joining GM in 2000, he led Chrysler’s gasoline fuel cell vehicle development. He was inducted into the Automotive Hall of Fame as a Young Leader in 2000 and was one of Automotive News’ inaugural “Electrifying 100” in 2011.

Keynote V: Tuesday, April 4, 2023, 12:40 – 1:20 pm

Dr. Mncono-Liwani Buyiswa  
Corporate Services & Traction Motors Operation Executive  
Gibela Rail Transport Consortium  
Johannesburg, Gauteng, South Africa
**Wedneday, April 5, 2023**

**Keynote VI: Wednesday, April 5, 2023, 10:00 – 10:40 am**

**Dr. Charles Mungule**  
**Director, Citizen Economic Empowerment Commission**  
Lusaka, Zambia

Dr. Charles Muwe Mungule has extensive experience of more than 30 years in entrepreneurship and business development, organizational and private sector development, strategic management, project design and implementation, fisheries/aquaculture sector, research, lecturing, and is highly qualified in Finance and Investment Management.

He has a PhD in Entrepreneurship with a bias in Corporate Entrepreneurship from University of Pretoria, Masters of Arts in Economics from University of Zambia, Bachelor of Arts in Economics from University of Zambia. He is currently pursuing Master of Science in Finance and Investment Management from University of Salford (UK) scheduled to graduate before end of 2022. His key competences include entrepreneurship skills development and new venture creation; cooperative enterprise and SME business development, capacity building; value chain analysis; gender integration; women and youth entrepreneurship; public-private partnerships, privatization and commercialization, market and economic assessments.

Dr. Mungule began his career as an Economist with Lusaka City Council where he worked for three (3) years and was responsible for undertaking business feasibility studies, project management, monitoring and evaluation, as well as assessing and instigating profitability of commercial enterprises of the Council. He then worked for Zambia Privatization Agency as Senior Technical Officer, European Development Fund (Wildlife Project) – Zambia as Commercial Manager, Premier Consult CC – Namibia as Managing Director, German Federal Enterprise for International Cooperation (GIZ) Lusaka as National Expert – Water Sector, Citizens Economic Empowerment Comission (CEEC) as Director for Empowerment Programmes, Muwe Consultants Limited – Zambia as Managing Director, Graduate School of Business, University of Zambia as Adjunct Lecturer.

Until now he has for the past three (3) years been serving as Principal Lecturer & Portfolio Manager for Master's degree programs of Botswana Accountancy College (The Botswana Business School).

**Keynote VII: Wednesday, April 5, 2023, 10:40 – 11:20 am**

**Dr. Michael N. Mulenga, PhD, MSc, BEng, MASCE, FEIZ, REng**  
**Dean, School of Engineering**  
University of Zambia  
Lusaka, Zambia

Dr. Mulenga is a holder of a PhD in Civil Engineering from University of Alberta (Canada), an MSc. from Rutgers University (USA) and a BEng from University of Zambia. He has taught several courses in Geotechnical, Structural Engineering and Construction Management at University of Zambia since 1984, at both Undergraduate and postgraduate levels. Dr Mulenga has supervised several undergraduate and graduate research works in, and outside Zambia. He also offered short training courses and has delivered papers at several workshops and seminars in and outside Zambia. He has published several papers in Structural, Geotechnical and Construction Management journals.

He has conducted several consultancy assignments in Geotechnical, Structural and Construction Management and had also served on various technical committees looking standards and the Engineering practice in Zambia. He has served at a number of Boards in Zambia (National Housing Authority (NHA), National Council for Construction (NCC), Road Development Agency (RDA), National Road Fund Agency (NRFA), Road Transport and Safety Agency (RTSA) and Kafue Regional Training Centre (KGTRC)). He served as Technical Advisor (Bridges) at RDA and later as Director and Chief Executive Officer (CEO) for the Road Development Agency (RDA). He was the Infrastructure Platform Chair for the Pilot Project for Climate Resilience (PPCR), funded by the World Bank. Dr. Mulenga continues to contribute through teaching and research at UNZA, and as a Consultant and resource person at various fora and Technical Committees, dealing with Design, Materials and Construction, Quality Assurance, Sustainability and Innovation, and Entrepreneurship in the Construction Sector. He has held several positions at the University of Zambia, from Assistant Dean to Dean of School of Engineering, and acted as Deputy Vice Chancellor at University of Zambia on several occasions. He is member of the American Society for Civil Engineers, Fellow of the Engineering Institution of Zambia (EIZ) and is a Registered Engineer (REng) in Zambia.

**Keynote VIII: Wednesday, April 5, 2023, 11:20 am – 12:00 pm**

**Dr. Piera Centobelli**  
**Professor of Business Economics and Organization**  
Università degli Studi di Napoli Federico II  
Naples, Italy

Piera Centobelli is Asst. Professor at the Department of Industrial Engineering of the University of Naples Federico II, Italy. Piera is currently Professor of Business Economics and Organization at the same university. In 2013, Piera received with honors the MSc Degree in Engineering Management at the University of Naples Federico II, Italy. In 2016, she held a Ph.D. in Technology and Production Systems at the Department of Chemicals, Materials and Industrial Production Engineering (DICMAPI) of the same university. From 2013 until 2016 she joined the Fraunhofer Joint Laboratory of Excellence on Advanced Production Technology (J-LEAP) in partnership with Fh-IWU of Chemnitz. Her research interests focus on knowledge and technology management, operations management, logistics and supply chain management, corporate social responsibility, circular economy, triple bottom line, environmental, economic and social sustainability, decision support systems, Industry 4.0, digital transformation, digital factory.
Keynote IX: Wednesday, April 5, 2023, 12:00 – 12:40 pm

**James A. Tompkins, Ph.D.**
Chairman and Founder, Tompkins Ventures  
Chairman and Co-Founder, Tompkins Leadership  
Raleigh, North Carolina, USA

Jim Tompkins is an international authority on designing and implementing end-to-end supply chains. He has started 15 businesses that have done over $2 billion in worldwide revenue during his 50-year career while enhancing the profitable growth of numerous companies, giving him an insider’s view into what makes great companies even better.

In April 2020, he founded Tompkins Ventures, a global hands-on solutions network that helps executive teams turn Capital, Facilities, Leadership, Logistics, and Technology problems and opportunities into competitive advantage. He founded Tompkins Leadership in 2022, focusing on Executive & Board Search, Human Capital Development, Leadership Development, Organizational Transformation, and Strategy & Innovation. He previously built Tompkins International from a backyard startup into an international consulting and implementation firm.

Jim received his Bachelor of Science, Master of Science, and Ph.D. in Industrial Engineering, all from Purdue University. Jim is a Distinguished Engineering Alum from Purdue University and has been awarded the prestigious Frank and Lillian Gilbreath Award from the Institute of Industrial and Systems Engineers. He has written 31 books, including the soon-to-be-released Insightful Leadership: Surfing the Waves to Organizational Excellence, and has made over 2,000 presentations globally.

Keynote X: Wednesday, April 5, 2023, 12:40 – 1:20 pm

**Dr. Grace Mukondeleli Kanakana-Katumba**
Executive Dean  
Faculty of Engineering and the Built environment  
Tshwane University of Technology  
Montana, Pretoria, South Africa

Dr. Kanakana-Katumba is the Executive Dean of the Faculty of Engineering and the Built environment at the Tshwane University of Technology. She served as a Deputy Executive Dean of the College of Science, Engineering and Technology at the University of South Africa. Dr. Kanakana-Katumba served as a Lecturer, Head of Department and Assistant Dean for Teaching and Learning at the Tshwane University of Technology, Faculty of Engineering and the Built Environment for more than ten years. Academically, She has supervised many Master’s and Doctoral students in the field of optimisation and process improvements. Her research focus areas are system dynamics modelling and smart manufacturing. She has published many journal papers and international conference papers. She has been invited as a guest speaker at many engineering conferences locally and internationally. She is a reviewer for the South African Journal of Industrial Engineering. She also hosted the first Africa IEOM conference held in South Africa, which was a success.

Thursday, April 6, 2023

Keynote XI: Thursday, April 6, 2023, 10:00 – 10:40 am

**Vassilis C. Gerogiannis, Ph.D.**
Professor and Head  
Department of Digital Systems  
University of Thessaly  
Larissa, Greece

Vassilis C. Gerogiannis is Professor and Head of the Department of Digital Systems, University of Thessaly, Greece with academic subject: Analysis & Design of Systems & Projects with Emphasis on Decision Making. Adjunct Professor, Hellenic Open University. Visiting Professor, IPAG Business School (France), Siauliai State University of Applied Sciences (Lithuania), Al-Hussein Bin Talal University (Jordan). He holds a Diploma in Computer Engineering and a PhD in Software Engineering from the University of Patras, Greece. From 1992 until present, he has participated and managed several R&D projects. Author/co-author of more than 130 papers published in international journals/conference proceedings and cited in a plethora of citations. Co-author/editor of three scientific books. Member of the editorial board, guest editor and reviewer in international journals. Conference general chair, program chair and invited speaker in many international conferences. He has received the “best paper award” in three international conferences. He serves as Member of the Management Board of the Hellenic National Academic Recognition Information Centre (NARIC), Member of the Council for Research & Innovation in Thessaly Region of Greece, Member of the Management Committee of the Entrepreneurship & Innovation Research Institute of the Research Center IASON at the University of Thessaly in Greece, Member of the Management Committee of the Technical Chamber Central and Western Greece, Member of the Central Assembly of the Technical Chamber of Greece, Member of the Scientific Committee of Electronics Engineers in the Technical Chamber of Greece.
Keynote XII: Thursday, April 6, 2023, 10:40 – 11:20 am

Dr. Clinton AGBAVBOA
Professor
Department of Construction Management and Quantity Surveying
University of Johannesburg
Johannesburg, South Africa

Dr. Clinton AGBAVBOA is a Professor at the Department of Construction Management and Quantity Surveying, University of Johannesburg, South Africa. Prof. Aigbavboa is the immediate past Vice Dean of the Faculty of Engineering and Built Environment, University of Johannesburg, South Africa. He has extensive knowledge in practice, research, training, and teaching. He is currently the Director, DST/NRF Research Chair in sustainable construction management and leadership in the built environment; Director of the Construction Industry Development Board Centre of Excellence; and Director of the Sustainable Human Settlement and Construction Research Centre at the University of Johannesburg. Prof. Aigbavboa has authored and co-authored more than 600 accredited journal articles, conference papers, and book chapters. He is also the author of sixteen research books that were published by Springer Nature and CRC Press. He has successfully graduated over one hundred and twenty (120) master’s students and fifty-three (53) PhD students. Likewise, he has supervised/ hosted over ten (10) postdoctoral researchers to completion and is currently hosting five (5) postdoctoral researchers. Prof. Aigbavboa has self-generated in excess of R25 million in research funding. Prof. Aigbavboa has collaborated with experts in the construction industry, both locally and internationally, to create new knowledge and provide practical solutions in the built environment.

Prof. Aigbavboa is currently a visiting professor in the School of Civil Engineering of the Shandong University, China, visiting professor, in the Department of Civil Engineering of the University of Nigeria, Nsukka, and an International Visiting Scholar in the Department of Architecture of the Covenant University, Nigeria. He is also the editor of the Journal of Construction Project Management and Innovation (accredited by the DoHET) and has received national and international recognition in his field of research. He is rated by the South African National Research Foundation.

Keynote XIII: Thursday, April 6, 2023, 11:20 am – 12:00 pm

Mr. Lukonga Lindunda
Co-Founder/Executive Director
Bonghive Group
Lusaka, Zambia

Lukonga Lindunda is a Startup Ecosystem Builder, Executive Director and Co-founder of BongoHive Group of Companies, in Zambia, which includes BongoHive Innovations, an award-winning innovation and technology hub changing the landscape of innovation and entrepreneurship in the region, BongoHive Consult, a digital transformation and innovation consulting firm, and Hive Co-working, a shared workspace facility.

Lukonga is a Mandela Washington Fellow and has 15 years of experience working with entrepreneurs and development partners. He began his career providing technology assistance in educational projects and programmes by building sustainable and affordable ICT infrastructure and support systems across Zambia with Education Development Center Inc. and VVOB vzw. In 2011, he founded BongoHive with three colleagues after noting a gap in the support young entrepreneurs needed to bring their innovative business ideas to life outside the usual corridors of innovation in South, West, and East Africa.

Since then, Lukonga has steered BongoHive in supporting over 2000 enterprises and has personally spearheaded public and private partnerships with local and global firms to leverage the ecosystem work that BongoHive does. Lukonga’s vision goes beyond the private sector and Zambia, having realised the interconnected path of the regions development and the complexity of creating a viable support network for entrepreneurship and innovation development.

BongoHive have been featured on global and regional media outlets such as CNN, BBC, Al Jazeera, and many others. One high point of recognition was when BongoHive was chosen as the only non-development organization to be visited by the Duke of Sussex, Prince Harry on his royal visit to Zambia in 2018.

Keynote XIV: Thursday, April 6, 2023, 12:00 – 12:40 pm

Mr. Steven Dihwa
Coordination Centre Executive Director
Southern African Power Pool (SAPP)
Harare, Zimbabwe

© IEOM Society International 4th African IEOM Conference
Lerato Nyama
Quality Management & Internal Governance Director
Siemens Digital Industries
Johannesburg, Gauteng, South Africa

Title: Quality Management and Internal Governance Director at Siemens Digital Industries Software

Lerato Nyama is the Quality Management and Internal Governance Director at Siemens Digital Industries Software South Africa. She holds an Industrial Engineering degree as well as a honours degree in Management Practice. She is currently enrolled in a masters in Business Administration degree with Henley Business School/University of Reading. Her career started off as a Digital Manufacturing Engineer and then moved on to become a Business Analyst for one of the biggest Engineering Consultancy companies in Africa. Currently her role focusses on fostering diversity and inclusion within the organisation as well as promoting digital technology within the basic and higher education space. She is passionate about the development and empowerment of African children and has made it her personal mission to find ways in which business can support government in building and shaping a society that is inclusive, innovative, and sustainable for future generations.
Conference Committee

Honorary Chair
VC of University of Zambia

Conference Chairs
Dr. Bupe Getrude Mwanza
Associate Director and Senior Lecturer
Graduate School of Business
University of Zambia
Lusaka, Zambia

Prof. Charles Mbohwa
Faculty of Engineering and the Build Environment
University of Johannesburg
South Africa

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

Program Chair
Professor Don Reimer, Director of Membership and Chapter Development,
IEOM Society
Global Engineering Education Chair

Dr. Paul A. Ozor, Head, Department of Mechanical Engineering, University of Nigeria Nsukka
Global Business Management Education Chair

Dr. Lemma Lessa, Assistant Professor of Information Systems, School of Information Science, Addis Ababa University (AAU), Ethiopia
Global Supply Chain and Logistics Chair

Ms. Sebonkile Thaba, Lecturer in Transport and Supply Chain Management,
University of Johannesburg, Johannesburg, Gauteng, South Africa

Industry Solutions Chair

Women in Industry and Academia (WIIA) Chair

Dr. Eng. Loice K Gudukeya, Senior Lecturer and Head, Mechanical Engineering Department, University of Zimbabwe
Organizing Committee
Miriyam Ali, JKUAT, Kenya
Wilson Nyemba, UZ
Michael Mutungi, NUST, Namibia
Oludolapo, DUT
Lawrence, UJ

Conference Secretariat

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

African Academic Committee (AAC)

African Industry Committee (AIC)

Track Chairs

Agricultural Engineering Systems
Udomkun, International Institute of Tropical Agriculture (IITA), Bujumbura, Burundi
Nsabimana, Department of Geography, University of Burundi, Bujumbura, Burundi
Minteh, Department of Agriculture (DoA), Ministry of Agriculture, Gambia

Artificial Intelligence
Dr. L. Razanakolona, LIMAD, University Fianarantsoa, Madagascar

Automation and Control
Dr. Rajab Abdullah Hokoma, University of Tripoli, Libya
Dr. G.M. Boubia, LTI Laboratory, ESP/UCAD, Dakar, Senegal

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

Case Studies

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

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

Cyber Security
Dr. Sam Takavarasha Jr. Women’s University in Africa
Dr. Lemma Lessa, Assistant Professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia
Dr. Alfred Musanrunwa, CIO Nedbank, Zimbabwe

Computers and Computing
Joseph Shitote, Strathmore University, Kenya

Construction Management
Hossam Hassaan, University of Alexandria, Alexandria, Egypt

Data Analytics
Rym Nassiih, École Mohammadia d’ingénieurs (EMI) Rabat, Morocco

Decision Sciences
Dr. Bupe Mwanza, University of Zambia

Design
Dr. Marni Lafleur, University of Madagascar

E-Business and E-Commerce
Dr. N. Armando, Universidade Kimpa Vita, Kondo Benze Uíge, Angola

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

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

Engineering Education
Dr. J. Kamaghe, Nelson Mandela African Institution of Science and Technology, Tanzania
Dr. Tagwa Musa, Sudan University of Science and Technology, Khartoum, Sudan

Engineering Management
Dr. Ignatio Madanhire, University of Zimbabwe

Entrepreneurship and Innovation
Dr. Khedidja Allia, Department of Process Engineering, FGMP – USTHB – Algiers, Algeria

Environmental Engineering Systems
Dr. Widad FETHALLAH, Industrial Engineering and Sustainability, National School of Applied Sciences at Tangier, Morocco
Ronald Ragoasha, Council of Geoscience, Pretoria, South Africa
Rui Sitoe, Universidade Eduardo Mondlane, Mozambique

Facilities Planning
Dr. Abderrezzak Hocine, University Badjı Mokhtar, Sidi Amar, Algeria

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

Healthcare Systems
Tshibasu, Cliniques Universitaires de Kinshasa, Democratic Republic Congo
C.O. Bagayoko, DigiSanté-Mali, USTTB, Bamako, Mali
Human Factors and Ergonomics
Dr. Osatohanmwen Enehizena, University of Benin

iCloud

Industry 4.0 in African Context
Emmanuel Lule, University of Rwanda, Kigali, Rwanda
M. T. Dandjinou, Nazi BONI University/LAMDI, Bobo-Dioulasso, Burkina Faso

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

Inventory Control and Management
Abbaye Eutes Abdela, School of Mechanical and Industrial Engineering, Manufacturing Engineering Chair, EITM – Ethiopian Institute of Technology Mekelle, Mek’ele, Ethiopia

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

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

Logistics
Noreen Al-Sadki, Industrial Engineering Science, Faculty of Sciences and Technology Tangier, Morocco and Abdelmalek Essaadi University, Morocco

Manufacturing
Dr. AMM Nazmul Ahsan, Western Carolina University, Cullowhee, North Carolina, USA
Dr. Nicholas Taysepi, National University of Science and Technology, Zimbabwe
Dr. Khobatha Setetemela, National University of Lesotho, Roma, Lesotho

Material Flow Cost Accounting (MFCA)

Modeling and Simulation

Occupational Safety and Health (OSH)
Dr. A.M. Idriss, Al Aassriya Nouakchott University, Nouakchott, Mauritania
Dr. F. N. Osman, University of Medical Sciences and Technology, South Sudan

Operations Management
Lawrence Seseni, University of Johannesburg, South Africa

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

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

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

Product Lifecycle Management

Production Planning and Management
Jerekas Gandure, Lecturer at University of Botswana

Quality Control and Management
Edison Lubua, Institute of Accountancy Arusha, Arusha, Tanzania
International Committee

Eldon Caldwell, University of Costa Rica
Mohammad Abdullah Shaikh, Deakin University, Australia
Bhaskar Bhandarkar, Indian Institution of Industrial Engineering (IIIE), Mumbai, India
Mohd Khairil Anuar bin Mohd Ariffin, Co-ordinator Master of Manufacturing System Engineering, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, University Putra Malaysia (UPM), Selangor, Malaysia
Shekar Babu, AMRITA School of Business, AMRITA University, Bangalore, India
Khurshid Khan, Vice Chancellor, Abdul Wali Khan University Mardan (AWKUM), Mardan, Khyber Pakhtunkhwa, Pakistan
Mahdi Bashiri, Professor of Industrial Engineering, Shahed University, Tehran, Iran

Elail Delgoshaei, Industrial Engineering Department, Kharazmi University, Tehran, Iran
Christine DI MARTINELLY, IESEG School of Management, France
Jose Arturo Garza-Reyes, The University of Derby, UK
Hamed Shakouri Ganjavi, University of Tehran, Iran
Laurent ENESTE, Institut National Polytechnique de Toulouse – Ecole Nationale d’Ingénieurs de TARBES, France
Ali GHARB, ETS Montreal, Canada
Bernard GRABOT, Institut National Polytechnique de Toulouse – Ecole Nationale d’Ingénieurs de TARBES, France
Elise GRUHRER, University of Bordeaux France, France
Bhaskar GARDAS, Veermata Jijabai Technological Institute, India
Vashtag GYULA, Széchenyi István University, Hungary
Marc Haddad, Lebanese American University, Lebanon
Khaled HADJ HAMMOU, Institut National des Sciences Appliquées de Lyon, France
Ramzi HAMMAMI, ESC Rennes School of Business, France
Aala HASSAN, University of Lorraine, France
Petit HELO, University of Vaasa, Finland
Lazhar HOMRI, Arts et Métiers ParisTech, France
Lars HvAM, Technical University of Denmark, Denmark
Emmanuel HYON, Sorbonne Université – LIP6, France
Peter JACOBSEN, Technical University of Denmark, Denmark
Daouda KAMISSOKO, IMT Mines Albi, France
Özge Karanfil, Koc Universitesi, Turkey
Laoucine KERBACHE, HEC Paris, France
Javad KHAMISABADI, Islamic Azad University, Iran
Nathalie KLEMENT, Arts et Métiers ParisTech, France
Anil Kumar, University of Derby, UK
Arun KUMAR, RMIT University, Australia
Vikas KUMAR, University of the West England, UK
Elmar KUTSCH, Cranfield University, UK
Samir LAMOURI, ENSAM Arts et Métiers ParisTech, France
Camran LEE, Hong Kong Polytechnic University, Hong Kong
Danping LIN, Shanghai Maritime University, China
Charly Yaqiong LI, Wuhan University of Technology, China
Lahoent MIFDAL, Universiapolis Agadir, Morocco
Mehrdad MOHAMMADI, IMT Atlantique, France
Seyed Meysam MOUSAVI, Shahed University, Iran
Simon Peter Nadeem, University of Derby, UK
Balkrishna NARKHEDE, National Institute of Industrial Engineering, India
Banu OZKESER, KOLUMAN Industry Automotive, Turkey
Maurice PILLET, Université de Savoie Mont Blanc, France
Rakesh RAUT, National Institute of Industrial Engineering, India
Nidhal REGZ, University of Lorraine, France
Luís Rocha-Lona, Instituto Politecnico Nacional, Mexico
Turki SADOK, University of Lorraine, France
Jérémie SCHUtz, University of Lorraine, France
Sara SHAfIEE, University of Technology of Denmark, Denmark
Shakouri G. Hamed, University of Tehran, Iran
Delliagi SOFIERE, University of Lorraine, France
Reza TAVAKKOLI-MOGHADDAM, University of Tehran, Iran
Ayelye TCHANGANI, Institut National Polytechnique de Toulouse – Ecole Nationale d’Ingénieurs de TARBES, France
Norbert TRAUTMANN, University of Bern, Switzerland
Jiri TUPA, University of West Bohemia, Czech Republic
Yazgi TUTUCU, İzmir University of Economics, Turkey
Eric VILLENEUVE, Ecole Supérieure des Technologies Industrielles Avancées, France
Junqiang WANG, Northwestern Polytechnic University, China
Yue WANG, Hang Seng Management College, Hong Kong
Yong WU, Griffith University, Australia
Christoph WUNCK, Jade University of Applied Sciences, Germany
Esma YAHIA, Arts et Métiers ParisTech, France
Bingwen YAN, Cape Peninsula University of Technology, South Africa
Marc ZOLGHADRI, Ecole des Ingénieurs en Mécanique de Paris, France
Fumlade Sunmola, University of Hertfordshire, Hatfield, UK
Ali MOSTAFAEIPOUR, Industrial Engineering Department, Yazd University, Iran

IEOM Zambia Conference  COMMIITTEE  April 4-6, 2023

© IEOM Society International  4th IEOM African Conference
Plenary Speakers
38th IEOM Global Engineering Education

April 4, Tuesday
Global Engineering Education I
8:00 – 9:30 pm – Meeting Room 1 (Virtual)

8:00 am - 8:20 am (Tuesday, April 4)

Prof. Amevi Acakpovi
Pro Vice-Chancellor
Professor in the Electrical/Electronic Engineering
Accra Technical University
Ghana

Engr. Prof. Amevi Acakpovi is a Professor in the Electrical/Electronic Engineering, the Pro Vice-Chancellor of Accra Technical University and a Fellow Professional Engineer from the Institution of Engineering and Technology-Ghana. He received a Bachelor of Science Degree in Computer and Electrical Engineering from the Lokossa Institute of Technology (Republic of Benin) in 2006 and a Certificate of Designer Engineer (Eq. MSc.) in Electrical Engineering Option Control of Industrial Process from the Abomey-Calavi University (Republic of Benin) in 2009. Dr. Acakpovi further pursued a PhD degree in Energy Systems Engineering from a joint collaboration between the Open University Malaysia and the Accra Institute of Technology at Accra, Ghana from 2011 to 2017. During his PhD studies, Dr. Acakpovi developed and implemented techniques like particle swarm optimization and metaheuristic optimization systems, prominent solutions to cost optimization problem of Hybrid Energy Systems (HES) using metaheuristic optimization techniques like particle swarm optimization and additionally developed and tested a general framework for optimizing HES.

Prof. Acakpovi is the author of more than 120 publications in International Journals including IEEE conferences, and transactions as well as other SCI-Indexed and EI-Indexed journals. Prof. Acakpovi has spoken in many international conferences as Guest Speaker and is the reviewer of many journals including IEEE transaction in Sustainable Energy, International Journal of Renewable Energy Researcher (IJRER), the Journal of Energy (Elsevier/Science Direct) and many others. His additional research interests include: Hybrid Energy Systems, Mini and Microgrid Optimization, Smart Grid Modelling and Optimization, Solar and Wind Energy Modelling and Optimization, Artificial Intelligence in Energy Systems and Recommender Systems. He, also organized and co-chaired a number of international conference and has experienced as book editor.

Prof. Acakpovi was a recipient of the SILVER AWARD – Engineering, Science, Technology & Innovation in October 2014 at the International Research Initiative Conference (IRIC) in Accra, Ghana. He also received in 2012 an Award of Innovation in Engineering at the 1st Applied Research Conference in Africa (ARCA), in August 2012 at Cape-Coast, Ghana. In addition, Prof. Acakpovi received in 2018, the Best Paper Award at the 7th IEEE International Conference on Adaptive Science and Technology and subsequently the best track paper award in project management at the IEOM conference in South Africa in 2018. He also received the award of the decade researcher at the Applied Research Conference in Africa (ARCA) in August 2022 and the Stairs Award of Distinguished Professor in Electrical Engineering, Pune, India in December, 2021. He has won a number of grants and academic laurels in his areas of study. He is a winner of COTVET grant for skill development project windows 2, year 2018 and has also won a number of grants and awards to attend short trainings abroad. He also won the MIDA grant for the establishment of a Sustainable Service Centre that run energy related programmes.

He serves a number of national and international committees including chairing of the Electromagnetic Compatibility (EMC) committee, at the African level. Prof Acakpovi is also the Elected Vice President of the International Electrotechnical Commission (IEC) Ghana Chapter and a Consultant to the Ghana Standard Authority for the review of Electrotechnical Standards. Prof Acakpovi is a married Christian with children, councillor, mentor and career guider. His leadership abilities led many to succeed in their career, to undertake further studies, to take up new challenges in their job leading to promotion etc. Inspired by John C. Maxwell leadership teaching, Prof Acakpovi is truly a great leader who has what it takes to make people achieve greater heights in their endeavor. His drives for excellence, integrity and innovation are unprecedented and great assets to his community and the world at large.

8:20 am – 8:40 am (Tuesday, April 4)

Dr. Mohd Helmy Abd Wahab
Principal Research Fellow
Advanced Telecommunication Research Center
Universiti Tun Hussein Onn Malaysia

Mohd Helmy Abd Wahab is a senior lecturer and former Head of Intelligent System Lab at the Department of Computer Engineering, Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia (UTHM). He has actively involved in many academic activities such as being invited speaker at ICRITO 2015 (India), IPIARTI 2015 (UTP), IPIARTI2014 (UNIMAP) and IPIARTI 2012 (UiTM). He hold several research grants, won several medals in research and innovation showcases and awarded several publication award and teaching awards. He has authored and co-authored 2 books in database system (2013) and this book received consolation prize by Society of Science and Mathematics Malaysia (PESAMA) in 2014 and WAP application (2009), published several both local and international book chapters (11), technical papers in conferences and peer-reviewed journals (>100) papers. He also involve in publishing articles in periodicals such as newspaper (Utusan Malaysia) and national magazine (Dewan Kosmik). He also served as guest editor for Special Issue in Wireless and Mobile Networks in International Journal of Advanced Computer Science and Applications (2011) and as Deputy Editor in Chief for Int. Journal of Software Engineering and Computing since 2009 and scholarly contributed as committee for conferences, editorial team and manuscript reviewers and also invited to be session chair in conferences. Latest, he also
invited to be Advisory Committee for ICACM 2016 at Pune, India, and Track Chair for IEOM 2016 in Kuala Lumpur. His research interests are in data mining, artificial intelligence and computer vision, mobile and wireless computing, web-based applications. He is currently an active member of IEEE, IEEE Computer Society, IAEng, IACSIT and PECAMP (Society of Info. Retrieval and Knowledge Management Malaysia) and as Associate Member for Embedded Computing Research Group (UTHM), BigData Center (UTM), MySigBigData (UM), E-Community Research Center (UKM).

8:40 am – 9:00 am (Tuesday, April 4)

Dr. Suraj Kumar Mukti
Associate Professor
Department of Mechanical Engineering
National Institute of Technology Raipur
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 Conferences 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.

9:00 am – 9:20 am (Tuesday, April 4)

Dr. Ghada Kholief
Part time Assessor at Arab Academy for science and Technology and Maritime Transport
Head Engineer in Egyptian Radio and Television Union
Cairo, Egypt

Ghada Kholief, is a Part time Assessor at Arab Academy for science and Technology and Maritime Transport, and a head engineer in Egyptian Radio and Television union Cairo, Egypt. Ghada Kholief previously worked as Lecturer of Industrial Engineering, Alexandria Higher Institute of Engineering and Technology, Alexandria Egypt, as Lecturer of satellite and communications and modern electronic devices, Pharos University, Alexandria Egypt. She earned her bachelors degree in electronics and communication at the Arab Academy for science, technology and maritime transport. She earned her master degree in industrial and engineering management at the Arab Academy for science, technology and maritime transport. She earned her doctoral degree in industrial engineer at Zagazig University.

9:20 am – 9:40 am (Tuesday, April 4)

Dr Natalie Skeepers (Ph.D.)
Governance, Risk and Compliance Specialist
Global Safety Resources
Johannesburg, Gauteng, South Africa

An independent consultant and has a wide range of industry experience that stretches across the public and private sector, over the last 25 years. She holds a PhD in Engineering Management, from the University of Johannesburg,. Natalie has held various senior and executive positions over the last decade. She also chairs and serves on several boards and board committees as a Non-Executive Director. A seasoned motivational and key note speaker that boasts influence and authority—keeping the audience focused throughout her presentation.

As a Consultant, she leads and collaborates with a variety of experts to deliver sustainable business and personal results and is a seasoned motivational speaker. Natalie’s specialist subjects include leadership and management, coaching, change, emotional intelligence and strategic planning and a range of soft skills courses.

She has delivered several peer reviewed papers nationally and internationally. She has acted as a technical author, consultant editor and peer reviewer of a wide range of publications for safety journals and conference papers.

Amongst all her activities and achievements, as a seasoned governance, risk and compliance specialist she is also very passionate about health and safety and loves to share her knowledge and experience to help improve workplace safety. One of the fruits of her knowledge sharing is her self-published, co-authored “Guideline for Health and Safety representatives”.

© IEOM Society International

4th African IEOM Conference
Dr. Erastus Mwanaumo  
Senior Lecturer  
University of Zambia (UNZA)

Misheng’u is a Post-doctoral fellowship recipient, Rated Researcher (NRF) with a PhD(Eng) and several Certificates in M&E; Dispute Boards in PPP, Dispute Resolution Administration and Practice (DR-AP); Mini grid Solar; Solar Roof Tops; HIRA; OH&S; and in Managing Research Project; Supervision and Ethics. Has to date raised and Managed over US$ 18 Million of research funds from EU, Royal British Academy, Royal Academy of Engineering, AIDB, and WB. He has successfully supervised 13 PhD Candidates and examined 19 PhD Thesis. Further raised in excess of US$16 Million of research funds from EU, Royal British Academy, World Bank and the AIDB. He is an Examiner and Patent Reviewer for ARIPo, consults for the World Bank, European Union-funded Programmes, the NTU Strategic Development Consultants of Denmark, AECOM, the DFID inter alias. Among key strategic outputs Misheng’u has formulated include the National Policy for Nuclear and Radiation Protection, and Amendment bill on Nuclear and Radiation Protection, Developed a National Transport Policy for Road Construction Health and Safety for Kenya and another for Zambia funded by EU, developed Technical documents for Rural Roads Climate Change Resilience and Mitigation Measures for the World Bank funded projects, evaluated loans performance acquired from World Bank by Eswatini among others and was a member of the team involved in the merging of the City of Tshwane Metropolitan Municipality (CTMM) including planning for all infrastructure, facilities, housing, and budgeting up to 2070. Misheng’u was a Team Leader-for technical negotiations on behalf of the Zambian government and the Russian Government for the construction of a Centre for Nuclear Science and Research with a 10MW Thermal Nuclear Reactor, laboratory complex, a Multi-purpose irradiation and cyclotron-based nuclear medicine centres. He serves as a Development Team Member for Zambia Qualifications Authority (ZQAQ) to develop Construction National Occupational Standards. He was a Member of the National Stakeholder Forum (Advisers) to the Construction Industry Development Board of South Africa, and reported to the Minister of Public Works. From 2012 to 2017, served as Vice President for the African region of the Chartered Institute of Building. In 2018 and 2019, he served as the first Chairperson for Lusaka Water Security Initiative Stakeholder Steering Committee. The organisation protects recharge points to aquifers and protects ground water from contaminations and over abstraction. He served as a programme Manager with Aghanang Consulting Engineers managing ZAR 780 Million (US$156 Million), Municipal Infrastructure grant (ZAR3.6 Billion (US$620 Million) and ZAR3.17 Billion (US$534 Million)) in Gauteng Province among other projects.

Dr William Goriwondo  
Pro Vice Chancellor: Innovation and Business Development  
National University of Science and Technology, Zimbabwe

Dr William Goriwondo is an engineer, researcher, academic and an entrepreneurship-minded professional. Resolute in contributing to strategies towards attainment of sustainability through innovation and utilisation of advanced and dynamic technologies as guided by the Fourth Industrial Revolution (4IR). He is a registered Professional Engineer with a Master of Science degree in Manufacturing Systems & Operations Management as well as a Doctor of Philosophy (PhD) in Business Administration. Proven track record of technical, engineering, operational and strategic leadership, spanning over 25 years in industry and academia. He has worked in the manufacturing and other industries as engineer and production manager. Currently the Pro-Vice Chancellor for Innovation and Business Development at the National University of Science and Technology (NUST). Dr Goriwondo is an Engineering & Management Consultant. Member of the Institute of Directors Zimbabwe (IoDZ), Fellow and Board member of the Zimbabwe Institution of Engineers (ZIE). He has won prestigious national and International awards such as the K.G Stevens Awards and the Global Engineering Education Award for his work on Project Management and Engineering Education respectively. He is currently the Senior Vice President of the Zimbabwe Institution of Engineers (ZIE) and also appointed to sit on the Advisory Committee on technical issues for ZISCOSTEEL. He is the Zimbabwe Country Focal Point person in the programme on Strengthening Research and Innovation Management (SRIM II) in the Southern Africa Development Community (SADC).

Dr. Eng. Wilson R. Nyemba  
Department of Mechanical Engineering  
Faculty of Engineering  
University of Zimbabwe  
Mount Pleasant, Harare, Zimbabwe

Modelling the Framework for Doctoral Training in Southern Africa

Dr. Wilson R. Nyemba is a professional mechanical engineer with over 30 years of experience both in industry and academia. He holds a BSc Honours degree in Mechanical Engineering from the University of Zimbabwe, an MSc degree (distinction) in Advanced Mechanical Engineering from the University of Warwick in England and a Doctor of Engineering degree in Mechanical Engineering from the University of Johannesburg in South Africa. He is a recipient of several awards for excellence and outstanding research, with an impeccable and demonstrable record of securing grants and successfully executing projects of national and regional interest. He designed and developed a wide range of engineering products in different capacities in industry from product development to engineering management. He also formulated and led a number of successful ventures at the University of Zimbabwe where he served as Dean of Engineering for 10 years, Chairman of WaterNet and Project Manager for the Royal Academy of Engineering Projects in Southern Africa, from the Enriching Engineering Education Program (LEEP) in 2013 to the Higher Education Partnerships for Sub-Saharan Africa (HEP SSA), 2019 – 2021 and the current one 2022- 2024. These projects gave rise to the establishment of the Southern Africa Engineering Education Network (SAE2Net) of which he is the current Project Manager, driving various initiatives to improve the quality of engineering education and practice. Dr. Nyemba is an accomplished consultant and researcher with interests in...
Falade Funso Alphonsus is a Nigerian and a Professor of civil engineering at University of Lagos, Nigeria. He earned Diploma in Quantity Surveying at Yaba College of Technology, Nigeria, in 1978. He completed his M.Sc (Civil Engineering) at the Moscow Institute of Civil Engineering in the USSR in 1984 and obtained PhD in Civil Engineering, from University of Lagos in 1998. Prof. Falade has authored over 70 articles on innovative construction materials and engineering education published in locally and internationally reputable journals as well as in proceedings of learned conferences. He has also made contributions to two (2) textbooks. In February, 2014, he made public presentation of a book titled ‘Strengthening of Distressed Buildings’. He has researched into the structural properties of bamboo and developed the technology for its successful incorporation as replacement of steel reinforcement in some structural elements. He has also researched extensively on Foamed Aerated Concrete. Prof. Falade has presented over 45 papers at workshops and seminars on such topics as Project Management, Quality Control, Maintenance of Facilities, and Contract Procurement Processes etc. Prof. Falade is a member of some professional bodies both locally and internationally, including Fellow, The Nigerian Academy of Engineering, Fellow, Nigerian Society of Engineers, Fellow, African Engineering Education Association, Registered Engineers, Council for the Regulation of Engineering in Nigeria etc. He is a promoter of engineering education. He was the initiator of African Regional Conference on Engineering Education and the Chairman, Organizing Committee and the Editor of the Proceedings of the 1st, 2nd and 5th conference publications.

Prof Amr Eltawil is the dean of the School of Innovative Design Engineering (E-JUST), Alexandria, Egypt. He is a professor of Industrial Engineering. He was the chairperson of the department of Industrial Engineering and Systems Management from 2011 to 2018. The research interests of Prof Eltawil are in the fields of applied operations research and discrete event simulation. Areas of interest include among others supply chain design and management, production planning and scheduling, service systems planning and management especially container terminal operations and management decisions, energy systems optimization, healthcare applications and call centres, as well as transportation and logistics. Prof Eltawil authored more than 80 papers published in international impacted journals and conferences.

Dr. Shahrukh A. Irani is the President of Lean and Flexible, llc, a consulting company founded in 2014 that delivers advisory, training and implementation services focused on Lean for high-mix, low-volume (HMLV) small and medium enterprises (SME). Also, his team developed the PFAST (Production Flow Analysis and Simplification Toolkit) software that facilitates the implementation of JobshopLean. During his sixteen years at OSU, he received the Outstanding Faculty Award for excellence in teaching from the ISE department’s graduating classes of 2002, 2003, 2004, 2005, 2006 and 2009 and the 2002 Charles E. MacQuigg Outstanding Teaching Award from the College of Engineering. He served as the Director of the Facilities Planning and Design (FAPAD) division of the Institute of Industrial Engineers for 1999-2001 and 2001-2003. He is the editor of the Handbook of Cellular Manufacturing Systems (1999, John Wiley). In 1996, he was voted Young Engineer of the Year by the Minnesota Federation of Engineering Societies and the Minneapolis Chapter of the Institute of Industrial Engineers.
Plenary Speakers
First IEOM Global Lean Six Sigma

Lean Six Sigma I – Plenary
Tuesday, April 4, 2023 – 2:00 – 3:45 pm - Room 2 (Virtual)

2:00 – 2:20 pm, Tuesday, April 4, 2023

Dr. Sushanta Tripathy, PhD (Industrial Engineering, IIT, Kharagpur)
Professor, School of Mechanical Engineering
Program Chair, Supply Chain Management
Program Head, Industrial Engineering
KIIT Deemed to be University
Bhubaneswar, Odisha, 751024, India

Dr. Sushanta Tripathy is a techno-commercial professional with a good administration experience, exposed in the field of teaching/research on supply chain, operations management for more than three decades, including a foreign assignment as assistant professor in Industrial engineering department at Mekelle University, Ethiopia for two years. Currently, he is a Professor, School of Mechanical Engineering in KIIT University, Bhubaneswar, Orissa, India, where in addition to teaching, research and administrative jobs he is also actively involved in organizing seminars, conferences and other academic and non-academic events. He has written one book titled Production and Operations Management published by Scitech Publications, Chennai which is a reference book for the management students under Biju Patnaik University of Technology (BPUT) curriculum. He has published more than hundred papers in Scopus indexed high repute international journals, i.e International Journal of Production Research, Research in Transportation Economics, IEEE Journal of Industrial Engineering, Sustainable Production and Consumption, Journal of Modelling in Management, Management Decision, Sustainability, International journal of Procurement Management, International Journal of Business Excellence and many more. He is also the reviewer of many repute International journals. He has received best researcher award in COSMIC-2018, AETM-2017, AETM-2015, IRTD-2014. He is the chief editor of International Journal of Research in Mechanical Engineering & Technology (URMET) and editorial board member of various international journals, i.e International Journal of Research in Aeronautical and Mechanical Engineering, International Journal of Research in Computer Science and Electronic Engineering, American Journal of Industrial Engineering, International Journal of Education and Applied Research. Presently, he is working in the various areas of Industrial Engineering areas (Supply Chain Management, Quality Management, Sustainability, Re-manufacturing, multivariate analysis & data modeling, service operations management, and productivity management). Five PhD students have already awarded under his guidance and Four PhD students are currently working under his supervision. He is a fellow of Institution of Engineers (India) and life member of IET.

2:20 – 2:40 pm, Tuesday, April 4, 2023

Dr. Suraj Kumar Mukti
Associate Professor
Department of Mechanical Engineering
National Institute of Technology
Raipur, India

Dr. Suraj Kumar Mukti is working as an Associate Professor in the Department of Mechanical Engineering, National Institute of Technology Raipur. He has completed his Ph.D. research work in Management at his own institute i.e., NIT Raipur under the supervision of Dr. A. M. Rawani, Ex-Director and Professor at NIT Raipur. His fields of interest are Industrial Engineering & Management, Enterprise Resource Planning, Management Information System, Knowledge Management, e-Waste Management and Technology Management.

In institutional level Dr. Suraj Kumar Mukti is taking care of various vital Committees, 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. In Departmental level Dr. Suraj Kumar Mukti is handling the responsibility of Faculty In-Charge, Departmental library, Faculty In-charge and faculty advisor of B. Tech second year.

Dr. Suraj Kumar Mukti is supervising various Ph.D., M. Tech. and B. Tech. Scholars and known as renowned Ph.D. thesis evaluator and research paper reviver in his field. He has teaching and research experience of more than 22 years and also served as an Engineer at Chhattisgarh Electricity Board, in State Government. He has published, more than 40 papers in reputed journals and attended & presented research papers in many important International Conference within the country and abroad as well.

Dr. Suraj Kumar Mukti is handling the sponsored project by Science and Engineering Research board (SERB), DST, Govt. of India and got published 2 patents recently from government of India. He has organized many short-term training programs, delivered expert talks, taken technical sessions and handled other important events at his own and other institutes as well. Dr. Suraj Kumar Mukti has authored 4 books viz. Customer Relationship Management: A Management Perspective, Execution of ERP system: A Case Study Approach, Knowledge Management: Implementation Methods and Strategies and Industry 4.0: Advances and Applications.
Daniel Hodges
CEO and Founder
Meknology LLC
Detroit, Michigan, USA

Daniel Hodges is a Mechatronics Engineer. He is the Founder and CEO of Meknology LLC, a two-year-old tech startup focused on creating technical solutions centered around issues of sustainability and social justice. Currently, Meknology is ambitiously approaching issues of wastewater treatment and water scarcity with its new and innovative approach to vacuum distillation. It involves the use of a proprietary architecture and smart energy management with hybrid and full renewable energy power sources. He received his Bachelor of Science in Mechanical Engineering from MSU and his Master of Science in Mechatronic and Robotic Engineering from Lawrence Technological University. Daniel’s professional and technical experiences include product design, project management, process development, test planning, marketing studies, customer engagement, and equipment design and build in the automotive, appliance, plumbing, nuclear and aerospace industries. His innovative and entrepreneurial nature has led to many commercialized new patent protected products for many clients and Meknology’s own water purification technology.

Prenisha Govender
Process Engineer – Toyota Boshoku South Africa
BTECH: Industrial Engineering (Cum Laude & Deans Merit 2020)
Masters student: Durban University of technology
Durban, South Africa

Prenisha Govender is a process engineer at the worldwide automotive company, TOYOTA BOSHOKU SOUTH AFRICA, an automotive manufacturer situated in Durban. She has completed her Diploma and her Bachelor of technology in Industrial Engineering from the Durban University of Technology. She is also currently completing her Masters in Industrial Engineering with the thesis based on her years of experience with the Toyota Production Systems. Upon graduating with her BTECH in Industrial Engineering, she has also obtained Cum Laude and Deans Merits award of her year of completion. She has also written a paper on the use of Kaizen principle and line balancing technique that was presented at the 33rd South African Institute of Industrial Engineering conference that took place in October 2022. This Journal paper was then also published in the South African Journal of Industrial Engineering special edition where it was published in the world of industrial engineering. Her research interests are Toyota Production Systems, Lean manufacturing, optimization and Kaizen. She has also represented the Durban University of Technology at the 13th International Conference in industrial engineering and operations management in Manila, Philippines.

Dr. Qipeng Phil Zheng
Associate Professor, Department of Industrial Engineering and Management Systems
College of Engineering and Computer Science
University of Central Florida
Orlando, FL 32816, USA

Dr. Qipeng Phil Zheng is an Associate Professor and the graduate coordinator in the Department of Industrial Engineering and Management Systems, and the director of Applied Operations Research Lab at University of Central Florida. He is also the Editor-In-Chief of Energy Systems, a Spring Nature journal. He received his Ph.D. in Industrial & Systems Engineering at University of Florida. He has worked in the fields of stochastic programming, network optimization, integer programming, applied game theory, and applications in a variety of areas, such as energy systems, transportation planning, production planning, sustainability, supply chain management, water-food-energy nexus, Artificial Intelligence and applications (e.g., social media, predictive maintenance), among many others. He has published more than 40 articles in various high-quality journals, including flagship journals in Industrial & Systems Engineering (IISE Transactions), Power Systems (IEEE Trans on Power Systems), European Journal of Operational Research, Journal of Optimization Theory and Applications, etc. His research has been supported by various federal funding agencies, such as National Science Foundation, Air Force Research Labs, Department of Energy, NASA, NAWCAD, etc.

Lean Six Sigma II – Plenary
Tuesday, April 4, 2023 – 4:00 – 5:45 pm - Room 2 (Virtual)

Dr. Milad Talebzadehosseini
Visiting Assistant Professor, Department of Data Science and Business Analytics
Florida Polytechnic University, Lakeland, Florida, USA

Dr. Milad Talebzadehosseini joined Florida Polytechnic University as a visiting assistant professor in the Department of Data Science and Business Analytics in August 2022. Before joining Florida Poly, he was a post-doctoral scholar at the University of Central Florida. Talebzadehosseini received his Ph.D. in industrial engineering from the University of Central Florida in December 2021. His research mainly focuses on the applications of network science and data science techniques in the areas of sustainability, supply chain management, economic complexity, economic development, and green economic development.
James J. Cochran, Ph.D.
Associate Dean for Research, Professor of Statistics, and Rogers-Spivey Fellow
University of Alabama, Tuscaloosa, AL, USA

James J. Cochran has been a Visiting Scholar with Stanford University, the University of South Africa, the Universidad de Talca, and Pôle Universitaire Léonard De Vinci. He has published over forty articles in peer-reviewed academic journals and seven textbooks, and he has served as a consultant for many companies, government agencies, and NPOs. Professor Cochran was a founding co-chair of Statistics Without Borders, and he established the annual INFORMS/IFORS International Education Workshop series and has co-chaired workshops through this initiative in Uruguay, South Africa, Colombia, India, Argentina, Kenya, Cameroon, Croatia, Cuba, Mongolia, and Moldova. In 2006 Professor Cochran was elected to the International Statistics Institute, in 2008 he received the INFORMS Prize for the Teaching of OR/MS Practice, and in 2010 he received the Mu Sigma Rho Statistical Education Award. In 2011 Professor Cochran was named a Fellow of the American Statistical Association, in 2014 he received the Founders Award from the American Statistical Association, and in 2015 he received the Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society. In 2017 he received the Waller Distinguished Teaching Career Award and was named a Fellow of INFORMS, and in 2018 he received INFORMS President’s Award.

Donald Kuk
President & CTO
Enterprise Transformation Excellence
New York, United States

Donald Kuk is an innovative, multiple industry award winning Global Enterprise Transformation, Intelligent Automation, and Operational Excellence Senior Executive with 20 plus years of delivering record setting top line growth, customer and employee satisfaction, and margin improvement leading rapid Enterprise Transformation, Intelligent Automation, and Turnaround and Recovery for the world’s most highly regarded manufacturing, retail and central banking, insurance, technology, health care and health sciences industry leaders. Mr. Kuk is highly regarded for his use of advanced Lean Six Sigma Based Analytics and compassionate Leadership to deliver dramatic global improvement for Fortune 10 companies and nations alike.
37th IEOM Industry Solutions and Industry 4.0 - Plenary

8:00 am – 8:20 am (Wednesday, April 5)

Dr. Norman Gwangwava
Senior Lecturer, Concurrent Engineering, Manufacturing Engineering Design, Manufacturing Information and Database Systems
Botswana International University of Science and Technology (BIUST)
Palapye, Botswana

A professional Engineer with experience from industry and academia. He is currently a Senior lecturer at the Botswana International University of Science and Technology (BIUST), department of Mechanical, Energy and Industrial Engineering. Has key engineering competences in Modeling and Simulation with Arena and Simio; Business process modeling and analysis, and Lean Principles. Is an influencer and author in digital transformation and future tech trends: Big Data, IoT, Industry 4.0, and Blockchain. Research interests are in; Advanced Manufacturing, Cyber-Physical Production Systems (CPS), Collaborative Product Design, and Big Data. He holds a D.Tech in Industrial Engineering from Tshwane University of Technology, South Africa and a Master of Engineering in Manufacturing Systems and Operations Management from the National University of Science and Technology, Zimbabwe. He is a member of the SAIIE-Za and ZIE-Zw.

Teaching interests
Manufacturing Systems
Operations Management
Supply Chain Engineering
Advanced Manufacturing Processes
Industrial Automation and Control

8:20 am – 8:40 am (Wednesday, April 5)

Prof Jackson Phiri
Senior Lecturer
Department of Computer Science
School of Natural Sciences,
University of Zambia
Lusaka, Zambia

Jackson Phiri is a senior lecturer in the Department of Computer Science, School of Natural Sciences and Graduate School of Business at The University of Zambia. He graduated with a Bachelor of Computer Science at the University of Zambia, a Masters of Science (Computer Science) from the University of the Western Cape, South Africa and a PhD in Computer Science, Harbin Institute of Technology, China. His research interest include Applied Artificial Intelligence, Business Informatics, Information Security and ICT for Development. He currently supervises a more than 10 postgraduate students at masters and PhD levels and has graduated more than 50 postgraduate students. He has more than 15 years of lecturing and research at the higher institutions of learning and has more than 50 published peer reviewed articles.

8:40 am – 9:00 am (Wednesday, April 5)

Dr. Iftekhar Abubakar Karimi
Chemical and Biomolecular Engineering
College of Design and Engineering
National University of Singapore
4 Engineering Drive 4, E5 #02-09
Singapore 117585

Iftekhar A Karimi is a Professor of Chemical & Biomolecular Engineering at the National University of Singapore. He is a leading expert in the area of process systems engineering and optimization with a unique blend of experience from academia and industry. His current research interests include process modeling, simulation, and optimization, energy systems, energy integration, systems biology, carbon capture and utilization, decarbonization, hydrogen, and natural gas. He has worked on several practical issues related to the optimization of chemical, biological, and environmental systems, and led many industry-collaborative research projects. He led Singapore's first roadmap on CCSU, is leading activities on natural gas at NUS, and is also working on a roadmap for hydrogen in the ASEAN region.
Dr. Jayakrishna Kandasamy  
Professor  
School of Mechanical Engineering  
Vellore Institute of Technology University  
Vellore, Tamil Nadu, India

Dr. Jayakrishna is a Professor in the School of Mechanical Engineering at the Vellore Institute of Technology University, India. Dr. Jayakrishna’s research is focused on the design and management of manufacturing systems and supply chains to enhance efficiency, productivity and sustainability performance. More recent research is in the area of developing tools and techniques to enable value creation through sustainable manufacturing, including methods to facilitate more sustainable product design for closed-loop material flow in industrial symbiotic setup, and developing sustainable products using hybrid bio composites. He has mentored doctoral students, graduate and undergraduate students (3 Ph.D, 2 M.Tech Thesis and 34 B.Tech Thesis) which have so far led to 83 journal publications in leading SCI/SCOPUS Indexed journals, 38 book chapters, and 96 refereed conference proceedings, 4 authored books, 11 edited books in CRC/Springer Series. Dr. Jayakrishna’s team has received numerous awards in recognition for the quality of the work that has been produced. He teaches undergraduate and graduate courses in the manufacturing and industrial systems area and his initiatives to improve teaching effectiveness have been recognized through national awards. He has also been awarded Global Engineering Education Award from Industrial Engineering and Operations Management (IEOM) Society International, U.S.A. in 2021, Institution of Engineers (India)-Young Engineer Award in 2019 and Distinguished Researcher Award in the field of Sustainable Systems Engineering in 2019 by International Institute of Organized Research, Best Faculty Researcher Award for the year(s) 2016-2021 consecutively. Coordinator -Circular Economy Club, VIT University, Academic Editor – Mathematical Problems in Engineering, Wiley-Hindawi Publications and Editorial Board Member – Journal of Operational Research for Engineering Management Studies (JOREMS), Green and Low-Carbon Economy, Area Editor – Operations Management Research, Associate Editor – Circular Economy, Frontiers in Sustainability, Book Series Editor – Industrial Engineering, Systems, and Management, CRC Press.

SPECIALIZATION(S)

Industrial symbiosis, Circular Economy, Industry 4.0, Sustainable Circular Supply Chain Management, Application of Machine learning and Blockchain in Supply Chain, Bio composites, Sustainable product design and development, Lean manufacturing, Industrial Engineering applications in Manufacturing process.

Dr. Umar Muhammad Modibbo Fior  
Department of Statistics and Operations Research  
Faculty of Physical Sciences  
Modibbo Adama University, PMB 2076, Yola  
Adamawa State, Nigeria

Dr. Umar Muhammad Modibbo is a Lecturer at the Modibbo Adama University, Yola, Nigeria. He obtained his PhD degree in Operations Research with a specialization in Applied Mathematical Programming and Computing, at the Aligarh Muslim University, Aligarh, India. He has 9 years experienced in teaching, research and community services. He obtained his Master of Technology (M.Tech) and Bachelor of Technology (B.Tech) degrees in Operations Research at the Federal University of Technology, Yola, Nigeria (Now The Modibbo Adama University, Yola) in 2016 and 2010 respectively. Dr. Modibbo is a recipient of university grant to study MSc. Operations Research in 2014, a Nigerian Tertiary Education Trust Fund (TETFund) to study Ph.D. Operations Research in 2018. A recipient of a Young Researcher Award and Research Excellence Award from Institute of Scholars (InSc), India, 2020. A best Paper Presentation Award in an international Virtual Conference Jammu & Kasmir, India 2021, and Excellence Review Award from the Resources Conservation and Recycling Advances Journal by Elsevier. His research areas include Mathematical Programming and its Applications, Reliability Optimization, Fuzzy Programming, Multi-objective Optimization, Inventory & Supply Chain Management, and Sustainable Development Goals.

He is a Fellow, and the President of the Institute for Operations Research of Nigerian [INFORM], a lifetime Member, African Federation of Operations Research Societies [AFROS], and International Federation of Operational Research Societies [IFORS]. He has published more than 30 research articles in journals of national and international repute, and attended many conferences and workshops in his domain area. He is a reviewer of many journals, served as advisory/program committee member in many international conferences, and editorial member of many journals.
Francis Masawi is an Electrical Power Systems and Markets Operations Expert specializing in Project / Program Management (PM) activities, developmental interventions / business operations and good governance whose short-term Outputs are high performance standards of energy accessibility, reliability, security, and affordability. The outputs of the PM activities are inputs into a Results-based Management (RBM) system whose medium-term Outputs are high performance standards of energy accessibility, reliability, security, and affordability. The New Way of thinking, which focuses on self-interests, is the root cause of the acute and induced Energy Poverty on the African continent characterised by poor governance, low standards of operational and financial performance, high indebtedness, and insolvency of state-owned national utilities in the energy sector. He intends to implement the Sustainable Energy Supply Initiative (SESII) which he developed based on a New Way of thinking that promotes critical thinking, nurtures leadership, and embraces the flow of energy and information, the most critical ingredients for social and economic development and growth, from points of origin to the points of utilisation to meet the requirements of users, also known as Energy and Information Logistics (EiL). The New Way of thinking clarifies the roles of the key processes of market operations and administration, power generation, transmission, distribution, and utilisation to support the sustainable production of goods and services society demand and can afford as the source of revenues for the markets and a measure of economic development and growth. The New Way view of EPSs is based on results of feasibility studies carried out in Uganda, Mozambique, Zambia, and Zimbabwe, funded by the German government and that utilised an energy losses and associated CO2 reduction methodology approved by the United Nations Framework Convention on Climate Change (UNFCCC). Francis Masawi is a holder of an Honours Degree in Electrical Engineering from the University of Rhodesia, now Zimbabwe with particular focus in Electronics and Power Systems. He holds MBA certificates from Heriot Watt University in Economics and Organisational Behaviour.
Dr. Moagabo Ragoasha
Lecturer
University of Cape Town
Cape Town, Western Cape, South Africa

Dr. Hossam A. Gabbar, P.Eng.
Distinguished Lecturer IEEE NPSS
Director of Smart Energy Systems Lab
Ontario Tech University, Canada

Title: Resilient Energy and Transportation Infrastructures

Bio

Dr. Gabbar is a full Professor in the Faculty of Energy Systems and Nuclear Science, and cross appointed in the Faculty of Engineering and Applied Science, at Ontario Tech University (UOIT), where he has established the Energy Safety and Control Lab (ESCL), Smart Energy Systems Lab, and Advanced Plasma Engineering Lab. He is the recipient of the Senior Research Excellence Aware for 2016, UOIT. He is recognized among the top 2% of worldwide scientists with high citation in the area of energy. He is a Distinguished Lecturer of IEEE NPSS. He is leading national and international research in the areas of smart energy grids, energy safety and control systems, and waste to energy using advanced plasma technologies. Dr. Gabbar obtained his B.Sc. degree in 1988 with first class of honor from the Faculty of Engineering, Alexandria University (Egypt). In 2001, he obtained his Ph.D. degree from Okayama University (Japan). From 2001 till 2004, he joined Tokyo Institute of Technology (Japan), as a research associate. From 2004 till 2008, he joined Okayama University (Japan) as an Associate Professor, in the Division of Industrial Innovation Sciences. From 2007 till 2008, he was a Visiting Professor at the University of Toronto. He also worked as process control, safety, and automation specialist in energy and oil & gas industries. Dr. Gabbar has more than 230 publications, including patents, books / chapters, journal, and conference papers.

Abstract:

This talk will present design and operation scenarios of resilient energy and transportation infrastructures. The talk will discuss development strategies of hybrid charging stations and their integration within energy and transportation infrastructures. The design and control strategies of fast charging stations will be presented with hybrid energy storage. Hardware-in-the-loop and real time simulation are used to evaluate the proposed design and implementation scenarios. Integrated nuclear-renewable hybrid energy systems using Small Modular Reactor (SMR) or Micro Modular Reactor (MMR) within micro energy grids are used to achieve resilient energy supply within charging stations. Intergation between hyrdogen and fuel cell systems are demonstrated to achieve hybrid charging stations and support the transition to clean transportation. Transactive mobility will be discussed to support the deployment of charging stations within energy and transportation infrastructures, as integrated with community applications in city, urban, and remote communities. Performance measures are modeled and evaluated for different design and operation strategies. Resiliency and performance measures will be discussed in view of number of operation and control strategies to meet user requirements.

Dr. Can Li
Assistant Professor
School of Chemical Engineering
Purdue University
West Lafayette, IN 47907, USA
Building Information Modeling: A Game Changer for Transportation

Dr. Sofia M. Vidalis is currently an Associate Professor in the Civil Engineering and Structural Design and Construction Engineering Technology Programs at Penn State Harrisburg (PSH). She received her B.S., M.S., and Ph.D. in Civil Engineering from the University of Florida in Gainesville, FL. Dr. Vidalis joined Penn State Harrisburg in 2006. Before joining Penn State, Dr. Vidalis worked at Florida Design Consultants as a Transportation Engineer. Vidalis' current research interests include quality assurance in pavement construction and materials, specifications and construction variability of pavement materials, transportation planning and operations, construction management, and building information modeling.

Artificial Intelligence and Decision Making

Presentation Title: AI in Health Care: Promise Meets Reality

Margaret L. Brandeau is Coleman F. Fung Professor of Engineering and Professor of Health Policy (by Courtesy) at Stanford University. Her research focuses on the development of applied mathematical and economic models to support health policy decisions. Her recent work has examined HIV and drug abuse prevention and treatment programs, programs to control the opioid epidemic, and COVID-19 response strategies. She is a Fellow of INFORMS (The Institute for Operations Research and Management Science) and a member of the Omega Rho Honor Society for Operations Research and Management Science. From INFORMS, she has received the Philip McCord Morse Lectureship Award, the President’s Award (for contributions to the welfare of society), the Pierskalla Prize (for research excellence in healthcare management science, in two separate years), and the Award for the Advancement of Women in Operations Research and the Management Sciences. She has also received the Award for Excellence in Application of Pharmacoeconomics and Health Outcomes Research from the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) and a Presidential Young Investigator Award from the National Science Foundation, among other awards. At Stanford she has received the Eugene L. Grant Faculty Teaching Award from the School of Engineering and the Graduate Teaching Award from the Department of Management Science and Engineering. Professor Brandeau earned a BS in Mathematics and an MS in Operations Research from MIT, and a PhD in Engineering-Economic Systems from Stanford.

Abstract

Artificial intelligence (AI) has great potential to transform many aspects of health care – but despite this promise has only been implemented in a limited number of settings and in a limited way. This talk begins by discussing the potential of AI to transform health care in areas such as diagnosis and treatment, disease monitoring, patient monitoring and clinical outcome prediction, health care operations, and health care administration. We then outline the many reasons why this potential has not been realized. As a microcosm illustrating the state of AI applications, we describe a number of projects carried out at Lucile Packard Hospital Stanford. We conclude with thoughts about what is needed in order for AI to be successfully integrated into health care systems and the next steps that can be taken to advance implementation.
Plenary Speakers

8th IEOM Global Business Management

Global Business Management I
April 5, Wednesday, 8:00 – 9:40 am – Room 2 (Virtual)
Session Chair: Dr. Aftab Alam

8:00 – 8:20 am, Wednesday, April 5

Dr. Aftab Alam
Professor of Marketing
Centre of Management Studies
Jamia Millia Islamia, New Delhi, India

Prof Aftab Alam is a Visiting Professor at CMS Jamia Millia Islamia for Executive MBA Program and Member Advisory Council of Harvard Business Review, USA. He has also served as Dean Faculty of Commerce and Management at Rama University Kanpur recently, its before he was also Dean FCM at Integral University, Lucknow and MIMT Greater Noida (2006-2007). He has obtained his Masters, M. Com and M.Phil. from Aligarh Muslim University and has his MBA from Alagappa University, Tamilnadu. In addition, he has his PG Diploma in Travel & Tourism Management from FCI (Aligarh) Ministry of Tourism, Govt. Of India. For his higher education, he has completed his Ph.D. in Business Administration from Atlantic University Honolulu, USA. He has been Conferred 21st Century Educational Leadership Awards 2018 and recognized as Acclaimed Educator. In addition he has also been conferred as the Distinguished Teacher in Management at MTC Management Excellence Award-2018 ceremony at Bangalore. He is also a recipient of Best Professor in Services Marketing at ICBM Conference Hyderabad on 24 Nov.2018 Further to seeing his credence in Dec 15, 2018 He was accorded ‘Acclaimed Educator’ and has been awarded by American Leadership Award, 2018.

He has substantial experience of Teaching in the Department of Business Management with specialization of Marketing at leading Business Schools of different Institutes and Universities India in ( MDI, Gurgaon, IAMT Ghaziabad, Mangalmay Institute of Management, Asia Pacific Institute of Management, Delhi, BIMTECH, Greater Noida, Bangalore University, Madras University, and King Abdul Aziz University Jeddah.) His overall performance has been well praised thoroughly and have been awarded continuously 5 years “Distinguished Faculty” during his stay in abroad. He is having his credits of several articles /Research papers published in national and international Journals, world-renowned International conferences proceedings etc.

8:20 – 8:40 am, Wednesday, April 5

Samwell Irungu
Managing Director
Pathcare Kenya Limited
Nairobi, Kenya

An astute business leader currently leading the expansion and transformation agenda as Managing Director of PathCare Kenya Limited. This is an exciting mandate as PathCare seeks to execute its growth strategy to give access to quality medical diagnosis to all Kenyans; particularly the underserved populations in peripheral counties. I have 10 years of broad experience and commercial acumen acquired through various leadership positions in multiple sectors of the economy.

8:40 – 9:00 am, Wednesday, April 5

Ing. Dr. Anouar Hallioui
Researcher
Department of Industrial Engineering
Center for Doctoral Studies in Sciences and Techniques and Medical Sciences
Faculty of Sciences and Techniques of Fez
Sidi Mohamed Ben Abdellah University (Fez, Morocco).

Anouar Hallioui is a Ph.D. candidate-researcher in the Department of Industrial Engineering – Center for Doctoral Studies in Sciences and Techniques and Medical Sciences of the Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University (Fez, Morocco). He earned a State Engineer's Degree (Dipl.-Ing) in Mechatronics Engineering from the Faculty of Sciences and Techniques of Fez in 2017. He has industrial experience as a Production Manager, Industrial Cleaning Project Manager, and Site Process works & EHS Manager for industrial corporations. He has had a varied and exciting early career, moving from the construction, energy, and chemical industries to academia. His areas of interest include but are not limited to Engineering Management, Contemporary Business Management (Re-engineered 4th Generation Management), Systems Thinking, Systems Approach, System Analysis, Systems Theory, Manufacturing Systems, Production Systems Dependability, Optimization of Systems Maintenance and Productivity in different industries, Systemic Decision Making, Sustainability, Circular Economy, Industry 4.0, Risk Assessment, Safety Management, etc. Some of his research related to these fields are published in International Conferences' Proceedings, and International Journals indexed in the highest quality research databases (e.g., Scopus-Elsevier, WoS, etc.). On the 8th of February 2023, he won the “International Best Researcher Award” on New Science Inventions. He is a Professional Member of the world’s largest international scientific societies, IEOM Society International and IEEE. Furthermore, he is a reviewer board member for many international journals, such as the Journal of Cleaner Production, Expert Systems with Applications, Discrete Dynamics in Nature and Society, Management and Production Engineering
Shijith is currently working as an assistant professor at SolBridge International Business School, Woosong University, South Korea. He is also associated with Amrita School of Business, Bangalore as a visiting faculty teaching in the graduate and executive programs. His primary teaching and research interests lie in the area of operations management and decision making. He has been teaching operations management related courses for under-grad, masters and executive level programs. He also engages in corporate training and leadership development programs. His research interests lie in behavioral decision making and wisdom of crowd in various operations management application areas. Some of his current research questions revolve around studying crowd decision making applications (such as new product development, judgmental forecasting). Shijith is passionate about teaching and experiential learning. He has won the prestigious Babson Scholarship on Entrepreneurial Education for teaching innovation. Shijith has published his research in a leading journal, Production & Operations Management (POM) and has also presented his research and views at different academic (such as INFORMS, USA; Behavioral Decision Research & Management, Boston; Society of Operations Management, India, IEOM, etc.) and practitioner forums (such as, APICS, NASSCOM, IIIE, etc.). He also serves as the column editor of the INFORMS DA Newsletter.

Shijith has worked as a production engineer in a manufacturing SME for 1.5 years and as a business analyst/operations & supply chain management consultant for over six years in a leading IT & consulting organization.

Shijith did his bachelors in engineering (Industrial Engineering & Management) from Dr. AIT, Bangalore; MBA (Operations), Amrita School of Business, Coimbatore, MS in Research (Management Science) and PhD in Business Studies & Management from IE Business School, Madrid. He is also APICS,USA certified CPIM. Shijith has successfully completed pedagogy seminars and courses from Babson College and Stanford D-School.

Dr. Raj is an accomplished professor of Management/Marketing with thirty years of industry/teaching experience at undergraduate and graduate levels in various universities. He has taught marketing and management courses in Ph.D., EMBA, MBA, MS (Management), and BBA programs, where he has utilized his industry and consultancy experience to enrich classroom dynamics. Dr. Raj earned his Ph.D. in Management/Marketing from Shivaji University in India and held four Master's degrees in Business Administration (Marketing), Commerce (Banking), and Philosophy (Human Resources), as well as an MBA in Islamic Marketing from the International Islamic Marketing Association in the U.K. He has published and presented around a hundred research articles, book chapters, case studies, and talks in internationally ranked peer-reviewed journals indexed in Scopus, ABDC, SSCI, and KCI and International Conferences. Dr. Raj has won eleven Best Research Paper Awards and ten Academic Service Excellence Awards in different International Conference presentations in Egypt, South Korea, Malaysia, and UAE. He won the Best Professor and Researcher of the Year Award in 2015 and the Best Visiting Professor Award in 2013 from India’s Jawaharlal Nehru Technological University-Kakinada (JNTUK); Kazakh-British Technical University (KBTU) in Kazakhstan, respectively. He has extensive teaching and research experience in multicultural and multi-ethnic environments in India, Ethiopia, Kazakhstan, South Korea, Nigeria, and the United Arab Emirates. His research interests are Marketing, Islamic Marketing, CSR, HRM, Organizational Behavior, and Entrepreneurship.
Prof. Shekar Babu, Ph.D.
Founding Head, AMRITA School of Business, Bengaluru
Head, ARISE Lab
AMRITA Vishwa Vidyapeetham University
Bengaluru, Karnataka, India
Adjunct Faculty, SUNY, Buffalo, USA

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 $1 Billion 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 is 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.

---

**Global Business Management III**
April 5, Wednesday, 4:00 – 5:40 pm – Room 2 (Virtual)

Session Chair: Dr. Gaurav Kumar Badhotiya

4:00 – 4:20 pm, Wednesday, April 5

Je-Taime (Langeveld) van den Heever
General Manager
Eaucon Water South Africa (PTY) Ltd
Welkom, Free State, South Africa

The African Excellence Model and its impact on Organisational Productivity

4:20 – 5:00 pm, Wednesday, April 5

Dan Cockerell
26-Year Disney Veteran – Former Vice President of Magic Kingdom
Leadership Coaching Disney Keynote Speaker
Cockerell Consulting Group
Orlando, Florida, United States

5:00 – 5:20 pm, Wednesday, April 5
Dr. Norman Kachamba
Senior Lecturer
Lusangu University
Zambia

Dr. Norman Kachamba is a lecturer for business and management at Unicaf University- Zambia, an accomplished graduate research examiner and supervisor. He is an all-rounder researcher but with particular interest in the areas of Marketing, Management, Education, Sustainable Development, Finance, Accounting and Edupreneurship. His scholarly works include the numerous papers presented at international conferences and contribution to the world encyclopedia of the Seventh-day Adventist church. He has participated in several global conferences both as facilitator and panelist. Dr. Norman is motivational speaker on matters of philosophy of education, Edupreneurship and careers management. He is the concept generator and propagator of Edupreneurship – a television program dabbed, Re-education Agenda for Africa.

5:20 – 5:40 pm, Wednesday, April 5

Dr. Gaurav Kumar Badhotiya
Assistant Professor
Faculty of Management Studies
Marwadi University Rajkot
Gujarat, India
Editorial Board Member of International Journal of Mathematical, Engineering and Management Sciences
Rajkot, Gujarat, India

Dr. Gaurav Kumar Badhotiya is currently working as an Assistant Professor in the Faculty of Management Studies, Marwadi University, Rajkot, Gujarat, India. He completed his PhD in Industrial Engineering and M.Tech. in Manufacturing System Engineering from Malaviya National Institute of Technology, Jaipur, Rajasthan, India. His B.Tech. is in Production and Industrial Engineering from the University College of Engineering, Kota, Rajasthan, India. Dr. Gaurav’s research interests are inclined toward areas in Operations and Supply chain management, such as Supply chain resilience, Production planning, Circular Economy, and Sustainability. He has published over 30 research articles in various peer-reviewed international journals, book chapters and conferences proceedings. He has been invited to serve as a resource person for research workshops and as a session chair at international conferences. He is an editorial board member of International Journal of Mathematical, Engineering and Management Sciences.
Continuous Innovation

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

www.eaton.com
Plenary Speakers

17th IEOM Global Supply Chain and Logistics

Global Supply Chain and Logistics I
April 6, 8:00 – 9:45 am – Meeting Room 1 (Virtual)
Session Chair:

8:00 am – 8:20 am (Thursday, April 6):

Dr. Jabir Arif
Associate Professor
Sidi Mohamed Ben Abdellah University, Morocco

Jabir Arif received the M.Sc., Engineering, Ph.D., HdR degrees in Industrial Engineering and Logistics from the National School of Applied Sciences Tangier, Faculty of Sciences and Technologies Fez, in 2008, 2010, 2016, and 2020 respectively. He is currently serving as an Associate Professor at Sidi Mohamed Ben Abdellah University, Morocco. Jabir Arif has a significant industrial and consulting experience in Supply Chain Management & Logistics. He began his career as a Production Planner within a multinational company operating in the automotive wiring harness. Afterward, he was appointed Senior Engineer at the Ministry of Public Services and Modernization of Administration where he was in charge of the national major projects. Therefore, he is familiar with the workplace social, ethical, and organizational issues as well as various market dynamics, which all prove assets in his passionate and interactive teaching through the use of contemporary real-world examples. Jabir Arif’s main research area is Supply Chain Management & Logistics, Outsourcing of Logistic Activities, Risk Assessment, IoT, Artificial Intelligence, and Industrial engineering. He discerns the difference between creativity and productivity and he is cognizant of the value of both in academic settings and scientific inquiries. Jabir Arif’s current teaching interests are in the areas of Supply Chain Management, Lean Management, Sourcing, Management Science, etc. at both undergraduate and graduate levels. Apart from teaching and research, he is acting as a reviewer in many ranked journals and conferences. He served as a Technical Committee member of several international conferences.

8:20 am – 8:40 am (Thursday, April 6):

Prof Douglas Boateng
Professor Extraordinarius, Supply and Value Chain Management
Graduate School of Business Leadership-UNISA SBL
South Africa

Elizabeth Kwateng
Rotaract President
Ghana

Ms. Elizabeth Kwateng holds a Degree in Logistics Management at Regional maritime University and Shanghai maritime university. She has expertise in the transport, shipping, NVOCC, warehousing and logistics. She is committed to support the young achievers in the industry by mentorship programs as well as conferences for tertiary students. She worked with Bollore Ghana for her research program and Comexas shipping where she trained as an NVOCC. Elizabeth is a proud member of Chartered Institute of Logistics and Transport, Ghana. She is a researcher and has articles on Cocoa production and export exchange in Ghana and Green supply chain marketing. In her starting career, Ms. Elizabeth served in various capacities and delivered excellence wherever she has been. She wishes to pursue more academic opportunities and further her education. Outside professional commitments. Ms. Elizabeth enjoys spending quality time with her family, reading, cooking and singing. She is, in fact, the club president of Rotaract club of RMU.

8:40 am – 9:00 am (Thursday, April 6)

Emanuel Zeferino
Project Manager at Sunstone Logistics Systems / Researcher at Tshwane University of Technology, South Africa

Emanuel Zeferino is an Industrial Engineer currently working as a Project Manager and Data Scientist at Sunstone Logistics Systems where he manages projects for digitalising and optimising end-to-end logistics operations for companies such as CCBA Africa (Cocacola Africa) across the African continent. Mr. Zeferino has experience in the plastic manufacturing industry, where he served as the continuous improvement coordinator at Gundle Plastics (Pty) Ltd in South Africa. This was between 2018 – 2019, before returning to academia, and work in various industrial projects within the Research Chair in Intelligent Manufacturing, Skills Development and Business Incubation where he led the section in aircraft components localisation project. He holds a National Diploma, Baccalaureus Technologiae (B-Tech) and a Masters of Engineering (MEng) which he obtained Cumlaud, all in Industrial Engineering. In his MEng dissertation, entitled Development of a Framework for Implementation of a Wisdom Manufacturing System for Transport Sector, he deployed a machine learning concept used for Smart City management to the emerging manufacturing system. Mr. Zeferino is a candidate associate member of Engineering Council of South Africa (ECSA), the Southern Africa Institute for Industrial Engineering (SAIIE), the Industrial Engineering and Operations Management (IEOM) society where he served as the communication...
Mr. Zeferino has received 10 awards with the most recent ones being amongst master’s category top publisher at the Faculty of Engineering and the Built Environment (FEBE) at Tshwane University of Technology 2020/2021 and amongst three best ICT technologies by the Gauteng Accelerator Program (GAP) 2020, of which he won representing REDEMA Engineering Pty Ltd. He has authored 4 scientific manuscripts focusing on strategic selection using decision techniques and a manuscript focused on systems modeling and simulation, of which 2 are published in international accredited journals. He has served in the organizing committee of 2 international conferences, namely the 30th College International pour la Recherche en Productique (CIRP) Design Conference 2020 and the 9th International Conference on Appropriate Technology (ICAT) 2020. He is currently facilitating the discussions for a Memorandum of Agreement (MoA) between Universidade Católica de Angola (UCAN) in Angola and Tshwane University of Technology (TUT) in South Africa. Mr. Zeferino’s interests are in decision analysis, data science, machine learning, intelligent, wisdom and sustainable manufacturing, systems modelling and simulation for optimisation, project management as well as policy development.

Mr. Zeferino sees himself as a solution driven, a strong negotiator and entrepreneur. He is the founder of EZ Engineering Group (Pty) Ltd and serves as a director at REDEMA Engineering Pty Ltd. Amongst his various community social initiatives, he is a co-founder and champion of the support initiative that groups young people to help with tutorship and other necessary support, a shelter of young girls who have suffered various types of abuse in Pretoria CBD. He also served as the President of the Angolan students association at TUT in South Africa, leading to the winning of one cultural award by Angolan students at the annual international students’ day event.

9:20 am – 9:40 am (Thursday, April 6)

Dr. Bob Nanthakorn
Research Associate
TBS Thammasat Business School
Thammasat University
Bangkok, Thailand
Closed-Loop Supply Chains

Dr. Bob Nanthakorn is a research associate at the Thammasat University in Bangkok / Thailand. He graduated in 2021 from the University of Linköping / Sweden, where he was an industrial Ph.D. student at the Chair of Management and Mechanical Engineering. His dissertation topic was: Closed-loop supply chain concepts and end-of-life strategies in the automotive industry. Focusing on electric vehicles and recycling / remanufacturing concepts for electric vehicle (EV) battery packs. In his today’s research work, he focuses on two fields: Circular production strategies (closed-loop supply chains, end-of-life concepts, remanufacturing) and the usage of IT in education (e.g., remote learning, learning during the pandemic, digital divide, efficiency of online learning applications).

Global Supply Chain and Logistics II
April 6, 2:00 – 3:45 pm – Meeting Room 1 (Virtual)

2:00 pm – 2:20 pm (Thursday, April 6)

Dr. Nita Sukdeo
Associate Professor and Head
Department of Quality and Operations Management
University of Johannesburg
Gauteng, South Africa

Prof Nita Inderlal Sukdeo is currently an Associate Professor and Head of Department in the Department of Quality and Operations Management within the School of Mechanical and Industrial Engineering at the University of Johannesburg, South Africa. She obtained a Masters in Quality from the Durban University of Technology and a PhD in Engineering Management from the University of Johannesburg. She is an active researcher in the field of total quality management and operations management. Her field of expertise also include advanced manufacturing technologies, smart factory, Quality 4.0, quantitative analysis, quality management systems, quality auditing and risk assessment. She is a qualified Lead Auditor, proficient in ISO standards and certification. She is chairperson and director of the Society for Operations Management in Africa (SOMA), a professional member of the South African Society for Quality (SASQ). She is an active member and participant, session chair of the IEOM Women in Industry and Academia panel session Africa edition.

2:20 pm – 2:40 pm (Thursday, April 6)

Sbai Nouçaiba
Senior Lecturer
SIST British Education
Rabat, Morocco

Sbai Nouçaiba is a Senior Lecturer at SIST British Education Morocco, delivering courses in Business Management, Project management, Operations Management, and Supply chain management. She is pursuing her Doctoral Studies (PhD near completion) in Engineering Sciences and Supply chain management at EMI School of Engineering at Mohamed V University in Rabat. She is a member of the Analyze, Modelling, and Integration of Processes and Systems (AMIPS) research team in EMI. Her doctoral main research investigates multi-echelon inventory management with a special focus on sizing multi-echelon inventories in the pharmaceutical sector. Her research interests are in the areas of supply chain management, simulation in supply chain networks, Project
management, and multi-criteria decision-making. She published Articles and several conference papers and participated in international conferences in Morocco as well as Europe, USA, and Turkey. She holds an engineering degree in Industrial Engineering from the EMI School of Engineering at Mohamed V University in Rabat.

2:40 pm – 3:00 pm (Thursday, April 6)

Syimun Hasan Mehidi, CSCM™
Process Engineer (Refrigerator)
WALTON
Dhaka, Bangladesh

3:00 pm – 3:20 pm (Thursday, April 6)

Dr. Hicham SARIR
Professor HDR of Supply Chain Management
ENSA Tétouan
Tétouan, Morocco

Demand-driven material requirements planning (DDMRP) methodology

3:20 pm – 3:40 pm (Thursday, April 6)

Lee Dunn
Chief Operating Officer
Blink Marketing Logistics
Toledo, Ohio, USA

Global Supply Chain and Logistics III
April 6, 4:00 – 5:45 pm – Meeting Room 1 (Virtual)
Session Chair: Mr. Lawrance Seseni, Lecturer, Operations Management, UJ, South Africa

4:00 pm – 4:20 pm (Thursday, April 6)

Professor David Pooe
Full Professor, Department of Business Management
Heads the Masters & Doctoral portfolio in the department
University of Johannesburg
South Africa

From efficient to resilient supply chains – Implications for enterprise development

Professor David Pooe is a Full Professor in the Department of Business Management at the University of Johannesburg where he currently heads the Masters & Doctoral portfolio in the department. Before joining UJ, he served as the HOD of Logistics department, and Head of Centre for Enterprise Development & Public Management in the Faculty of Management Sciences at Vaal University of Technology where he also taught for many years. Prior to that, he was employed at Standard Bank for five years. His academic and research interests are in the areas of enterprise development and supply chains, in particular on how supply chains and value chains can be used to foster enterprise development. Prof Pooe is a member of the Global Manufacturing Research Group (GMRG) which focuses on the manufacturing supply chains research. He has recently been invited as a member of the newly established Bio Supply Management Alliance (BSMA) Africa. He also reviews for a number of journals. His work has been published through more than 50 peer reviewed journal articles and conference papers and book chapters. He has also supervised to completion 12 doctoral and 18 Masters’ students and currently works with two postdoctoral research fellows, eight doctoral and two Masters’ students. With some 25 years of experience in the academic field, his professional history also includes teaching and curriculum development.

4:20 pm – 4:40 pm (Thursday, April 6)

Dr Shem Sikombe, PhD, M.A, BSc, FZIPS, FCIPS
Lecturer, Researcher and Consultant
School of Business
Copperbelt University
Zambia

Dr Shem Sikombe has over ten (10) years of teaching, administrative and research experience at the University level. He obtained his PhD in Supply Chain Management from the University of KwaZulu-Natal and is a Fellow of both CIPS and ZIPS. Sikombe is currently a Principal Investigator in research to Develop a Framework for Public-Private-Partnerships (PPPs) in Research and Innovation in Zambia.
The National Science and Technology Council funded the research. Sikombe is also a member of the Senate Committee on Research and Publication, the Zambia Institute of Purchasing and Supply Strategy and Risk Committee and several committees. As a Consultant, Sikombe has participated in a consultancy of the Government of the Republic of Zambia (GRZ) through the PEMFA Programme for Zambia Institute of Purchase and Supply and the University of Lusaka. Finally, Sikombe has also facilitated several pieces of training such as Leadership Development and Project Management (SOS) volunteers, Fast track project management for middle and senior management staff. Sikombe has published several refereed articles in Public Procurement Policy, Knowledge Management and innovation, Supplier Development and Knowledge Transfer, Supply Chain Management and Sustainable Procurement.

4:40 pm – 5:00 pm (Thursday, April 6)

Jeffrey Ehikioya Itepu, BSc
Co-Founder of Abode
Lagos, Nigeria

Jeffrey Ehikioya Itepu is currently the Co-Founder Abode; with a mission to create prosperity for Africans using simplified assets ownership. Before starting Abode, Jeffrey was CEO of Pertinence Properties Limited where he led 2 branches as branch manager and facilitated the creation of 4 others. He has worked on multiple StartUps like Realvest, Pettsyave, Agbeloba, Homify, DataFirst, Landshares, Maplandi, amongst others. He has a Masters degree in Marketing from Pan-Atlantic University, a Diploma in Professional Marketing from CIM, and he’s currently running a Postgraduate Diploma in Marketing at Chartered Institute of Marketing, United Kingdom. Jeffrey is a devout Christian with integrity, humility, excellence, loyalty and partnership as his core values.

5:00 pm – 5:20 pm (Thursday, April 6)

Dr. Matthew Quayson
Lecturer, Department of Logistics and Supply Chain Management
Ho Technical University, Ho, Ghana

Title of Talk: Technology for Social Good Foundations: A Perspective from the Smallholder Farmer in Sustainable Supply Chains

Matthew Quayson holds a Bachelor’s degree in Social Sciences (Economics and Geography) from the University of Education, Winneba, Ghana and a Master’s degree in Logistics and Supply Chain Management from the Kwame Nkrumah University of Science and Technology, Ghana. He also holds a PhD in Management Science and Engineering (Supply Chain option) from the University of Electronic Science and Technology of China, Chengdu, PR China. He worked as an Area Account Developer for Scancom Ghana Limited, operator of MTN. He also worked as the Cluster Head in Charge of Operations for MTN Western North distributor, Sametrolinks Company Limited. Currently, he is a lecturer in the Department of Logistics and Supply Chain Management at Ho Technical University, Ghana. He is interested in digital technologies (Blockchain, industry 4.0, Big data) applications for Social good in sustainable supply chain management in emerging economies. His research addresses issues relating to supply chain governance in the context of emerging technologies. Some of his papers have appeared in journals such as IEEE Transactions on Engineering Management, Sustainable Production and Consumption, Journal of Cleaner Production, IEEE Engineering Management Review and Emerging Markets Finance and Trade. He contributed a chapter, “Sustainable Performance of African Firms in Global Value Chain” to the book “African and Sustainable Global Value Chain” published by Springer Nature. He has attended and presented papers at many workshops and summits. Recently, he presented a paper entitled “Blockchain for Social Good: Evidence from Individual and Corporate Perspectives in Africa” at the first Global Supply Chain Summit in Africa organized by the Center for Applied Research on Innovation in Supply Chain- Africa (CARISCA) of Arizona State University, USA and Kwame Nkrumah University of Science and Technology, Ghana. He has served as a reviewer for many top journals and projects. He was a referee for the Best Student Paper Competition during the 2022 Production and Operations Management (POMS) International Conference in China. He also served as a reviewer for Foundation for Food & Agriculture Research’s Grant, 2022 (Washington DC, USA). He is a member of the Chartered Institute of Purchasing and Supply (CIPS-UK) and the Chartered Institute of Supply Chain Management- Ghana (CISCIM).

5:20 pm – 5:40 pm (Thursday, April 6)

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

Mr. Lawrence Seseni is a PhD Operations Management candidate in the Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, at the University of Johannesburg. He is a Lecturer in the Department of Business Management and at the Centre for Entrepreneurship in the College of Business and Economics at the University of Johannesburg. He is currently lecturing Entrepreneurship Studies to undergraduate students. He is also a co-supervisor for honours and master’s students from the College of Business and Economics. He is a board secretary at IBASA YC (Institute of Business Advisors Southern Africa under the Youth Chapter); he is a Director at Translife; he is a Primary Faculty Advisor for Enactus University of Johannesburg; he is a Peer Mentorship Coordinator for first-year students from the Department of Business Management; he is one of the two staff members who formed the Business Clinic at the University of Johannesburg; he is the editor of the departmental newsletter (Department of Business Management, University of Johannesburg); he is a house warden/house parent; and he is a lab manager for Digital Story Telling, a Common Good First project, which is an initiative by the European Union and Erasmus+. This project comprises universities from Iceland, Norway, Denmark, Scotland, Spain and South Africa as well as the global network, the Social Innovation Exchange. He formerly served as the Director of...
Human Resources and a founding member of Africa Cooperatives Institute of South Africa. He runs a business consulting company and he is also a wellness coach.

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

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

Data Analytics I
Thursday, April 6, 2023 – 8:00 – 9:45 am – Room 2 (Virtual)
Session Chair: Dr. Oludolapo Akanni Olanrewaju

8:00 – 8:20 am, Thursday, April 6, 2023

Commander (Dr.) Pallav Prakash
Indian Navy (Retired)
India

Dr. Pallav brings expertise in scaling innovation and technology, risk mitigation, and program management. Pallav has over two decades of global experience in working extensively with governments, MNCs, social enterprises and startups. He has served in the Indian Navy and has been on the panel of various expert groups in NATO. He has also been guest lecturer at IIT, Delhi and a mentor at the University of California at Berkeley. A submariner at heart, Dr. Pallav is based out of innovation hub, i.e. in the Silicon Valley, California. He is currently engaged in deploying electric vehicles, setup large scale charging infrastructure, including working on the latest V2G (vehicle to grid) technology across the school system in the United States. Pallav is also deeply involved in developing scaling and go-to-market strategies for futuristic technologies that change humanity for the better. He has been invited as a subject matter expert at the Stanford University to judge innovations that impact real economy. Pallav is an alumnus of IIM, Lucknow and The Johns Hopkins University.

8:20 – 8:40 am, Thursday, April 6, 2023

Dr Michael Ajayi
Faculty Head: Information Technology
CTU Training Solutions
Johannesburg, Gauteng, South Africa

Dr. Michael O. Ajayi is a seasoned IT professional with extensive experience in various industries, including IT, Facility, Oil & Gas, and Telecommunications. He currently holds the position of Faculty Head of IT at CTU Training Solutions in Pretoria, South Africa, and previously served as the National Programme Manager: IT Faculty/Interim Head of Research at Eduvos (formerly Pearson Institute of Higher Education), where he was also the Pretoria Campus Programme Convenor: IT Faculty. Dr. Ajayi’s academic career began as an electrical/clinical engineering lecturer at Tshwane University of Technology, and he later became an IT lecturer at Pearson Institute of Higher Education. With over 18 years of experience in academia and various industries, Dr. Ajayi has a wealth of knowledge and experience to draw upon. He has earned multiple degrees, including an MSc degree in electronic and electrical systems from Ecole Supérieure d’Ingénieurs en Electrotechnique et Electronique in Paris, France, an MTech degree in electrical engineering with specialties in control engineering from F’SATI at TUT Pretoria South-Africa, and a Doctoral Technologiae degree in Electrical Engineering, as well as a Doctorate (Ph.D.) in Signal, Image, and Automatique at the University of Paris Est ED MSTIC, France. Dr. Ajayi has published over 12 peer-reviewed articles and journal publications on topics such as attitude control of Cube Satellites, human locomotion, nonlinear control systems, and rehabilitation robotics. In the past 5 years, his responsibilities have been focused on the development and implementation of strategic policies and programs across IT qualifications in Higher Institutes of Learning, with his expertise lying in the management and implementation of programs related to the fourth industrial revolution such as Big Data Analytics, Data Science, Robotics Automation, Computer Networking, Cybersecurity, and Artificial Intelligence. Dr. Ajayi is also a lecturer, researcher, professional curriculum and content developer in the IT field, and academic structure strategist, and continues to contribute to the field of IT through his research and teaching.

8:40 – 9:00 am, Thursday, April 6, 2023

Pratibha M.
Senior Manager, Hybrid Cloud Platform & AI
IBM
Bengaluru, Karnataka, India

Dr. Pratibha Moogi is a Senior Manager/Research Scientist managing Hybrid Cloud & AI Department within IRL/IBM Lab, located in Bangalore. In her role she is responsible for driving and creating key differentiations for Hybrid Cloud platform. Prior to IBM, she led Data Science and ML Engineering teams in 247.ai to deliver Conversational AI solutions. In past, she has also served Nokia, Samsung, and Texas Instruments R&D units where she worked on wide variety of Multimedia Machine Learning and Media Analytics solutions. On academic front, she holds PhD from OGI School Of Engineering, OHSU, Portland, USA and Masters from IIT Kanpur in the area of DSP. She holds 15+ Patents & International Publications in the area of Voice coding, ASR, Affective Computing, and more recently in Hybrid Cloud Observability stack. She has driven many International University Collaboration programs and Mentorship initiatives (WiS, YFRS, WiN) in the past. Her current work interests and passion continue to be in the world of Cloud Computing, Role of Data Science and Data Modeling towards bringing cloud automation and managing SW products life-cycle.
Dr. Sailesh Iyer
Professor of CSE/IT, RSE
Rai University
Ahmedabad, India

Dr. Sailesh Iyer has a Ph.D. (Computer Science) and currently serving as a Professor with Rai University, Ahmedabad. He has more than 22 years of experience in Academics, Industry and Corporate Training out of which 18 years are in core Academics. A hardcore Academician and Administrator, he has excelled in Corporate Training, Delivered Expert Talk in various AiICTE sponsored STTP’s, FDP, Reputed Universities, Government organized Workshops, Orientation and Refresher Courses organized by HRDC, Gujarat University. Research Contribution include reputed Publications, Track Chair at ICDL AIR 2020 (Springer Italy), icSoftComp 2020, IEMIS 2020 (Springer), ICRITO 2020 (IEEE) and TPC Member of various reputed International and National Conferences, Reviewer of International Journals like Multimedia Tools and Applications (Springer), International Journal of Big Data Analytics in Healthcare (IGI Global), Journal of Renewable Energy and Environment etc., Expert Talk on Research based topics in various Universities and Conferences in addition to guiding Research Scholars as Supervisor. He has also been invited as a Judge for various events, Examiner for Reputed Universities, is a Computer Society of India Lifetime Member and also serving as Managing Committee (MC) Member, CSI Ahmedabad Chapter since last 2 years. Research interest areas include Computer Vision and Image Processing, Cyber Security, Data Mining and Analytics, Artificial Intelligence, Machine Learning.

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

Oludolapo Akanni Olanrewaju is currently a Senior Lecturer and Head of Industrial Engineering Department, Durban University of Technology, South Africa. He earned his BSc in Electrical and Electronics Engineering and MSc in Industrial Engineering from the University of Ibadan, Nigeria. He earned his Doctorate in Industrial Engineering from the Tshwane University of Technology, South Africa. He has authored and co-authored articles in journals, conference proceedings and book chapters. His research interests are not limited to energy/greenhouse gas analysis/management, life cycle assessment and application of artificial intelligence techniques. He is an associate member of the Southern African Institute of Industrial Engineering (SAIIE), National Research Foundation (NRF) rated researcher in South Africa and a Guest Editor to Atmosphere.

Data Analytics II
Wednesday, April 6, 2023 – 2:00 – 3:45 pm - Room 2 (Virtual)

Session Chair:

2:00 – 2:20 pm, Thursday, April 6, 2023

Benjamin P. Taylor
Managing Partner
RedQuadrant
&
Chief Executive
Public Service Transformation Academy
London, England, United Kingdom

2:20 – 2:40 pm, Thursday, April 6, 2023

Aamir Hussain
Master Student
Industrial and Systems Engineering Department
College of Computing and Mathematics
King Fahad University of Petroleum and Minerals
Saudi Arabia

Aamir Hussain is currently enrolled in the pursuit of a Master's degree in Industrial and Systems Engineering at King Fahad University of Petroleum and Minerals in Saudi Arabia. Prior to this, he held the position of Manager in the Financial Management Department at a Mobile Manufacturing Company, where he served as a Manufacturing Cost Controller. He also gained valuable work experience in the Quality Assurance Department. Aamir completed his Bachelor's degree in Industrial and Manufacturing Engineering from the esteemed University of Engineering and Technology in Lahore, Pakistan. He was recognized for his outstanding academic achievements with two Gold Medals and one Bronze Medal during his Associate Degree program.

2:40 – 3:00 pm, Thursday, April 6, 2023
Dr. Rafiuddin Ahmed  
Associate Professor of Marketing  
University of Dhaka  
Founder of Innokids  
Dhaka, Bangladesh

Dr. Rafiuddin Ahmed is a seasoned scholar, trainer, academic, pracademic, multipotentialite with ample experience in home and Australia on soft skills, life skills, tech skills and start up entrepreneurship. He has pursued his MBA from Dhaka University and Masters in MIB from the University of Melbourne and PhD from La Trobe University on futuristic Intra/Entrepreneurship (Kidspreneurship), Melbourne, Australia. He is one of the pioneers in the e-learning movement in Bangladesh and working as a strategist/trainer, pracademic, edupreneur, healthcare entrepreneur besides being an Associate Professor at the Department of Marketing, University of Dhaka, Bangladesh for the last 16 years. His areas of interest in research and consulting are: Digital marketing, data analytics, digital entrepreneurship, digital transformation (DX), Blockchain for Business) and employability for humans, Innovation and disruption, exploring new professions and opportunities in augmented reality, virtual reality, artificial intelligence, robotics, IoT etc. Dr. Ahmed is also the founder of Innokids (a doctoral outcome-based kidspreneurship program). He is open to entrepreneurial and start-up accelerator mentorship (paid/pro-bono).

3:00 – 3:20 pm, Thursday, April 6, 2023

Suman Roy  
Consulting Member of Technical Staff, Health and AI Group, OCI  
Oracle  
Bengaluru, Karnataka, India

Suman is a Multifaceted Research Professional with 22+ years of profound experience in Research & Development, AI & Machine Learning, Data Science, Data Analytics, Text Mining, Knowledge Harvesting, Services Computing, Software Engineering, Technology. He is an Experienced and detail-oriented Ph.D. professional specialized in IP activities, Semantic Technologies, Wireless Security, Data Science, business process modeling, formal verification of software, and security. He takes pride in the fact that he is a Technology-driven professional and an applied researcher having immense ability to think deep, and adept in creating a deeper understanding of latest tools and technologies. He has worked in industrial research labs of companies like Mercedes Benz, Honeywell, Infosys and Optum (UnitedHealth Group). Currently he works as consultant with a product development group in AI healthcare in Oracle India Pvt Ltd. He has also spent 2 years in academia working in different roles like a visiting fellow, post doctoral researcher and visiting instructor. He is a Prolific IP generator having 50+ publications in top International conferences/workshops (dblp-indexed, some of them CORE A ranked), 10 Journal publications, 10 granted patents by USPTO having H-index 13 with citations close to 500 on Google Scholar page. In the recent past he has been elevated to IEEE Senior Member in Dec 2021 by IEEE for showing professional accomplishments and maturity.

3:20 – 3:40 pm, Thursday, April 6, 2023

Tajul Islam  
Sr. Manager – Digital Marketing  
Concord Group  
Dhaka, Bangladesh

3:40 – 4:00 pm, Thursday, April 6, 2023

Dr. Rajan Gupta, PhD  
VP, Head – Research & Analytics  
Analyttica Datalab Inc.  
Bengaluru, Karnataka, India

Dr. Rajan Gupta is a Research and Analytics Professional with 13+ years of combined experience in Research, Analytical Consulting, Training and Teaching in the field of Data Science. He has authored one patent, five books and more than seventy five research papers in the area of Public Information Systems, Data Science, Technology and Management. He has received prestigious “AI Changemaker Leader” under 3AI ACME Awards at BEYOND 2023 and “40 Under 40 Data Scientists” award for 2022 by Analytics India Magazine at MLDS 2022.

He is currently heading Research & Analytics (R&A) Division of Analyttica Datalab Inc (as Vice President – Research & Analytics), which is a contextual Data Science & Machine Learning platform company in experiential AI/ML & Analytics EdTech space at global level. He is responsible for converting client request into skilling path for working professionals through unique methodology of ‘Learn, Apply and Solve’ available through ATH LEAPS platform. The R&A division is the ‘Think Tank’ of Analyttica, driven by customer delight, client requirements, market needs and innovation, managing following aspects of the firm:

- Identification of business problems and relevant datasets for simulating real-time work environment for the learners
- Implement analytical algorithms on platform for helping business leaders and managers to work on point-n-click functionality for function execution
- Develop analytics-oriented course structure for quick learning of concepts by professionals across various industries and domains
- Create user experience through applied content & use-cases
- Deliver knowledge sessions, hands-on workshops and technical talks for upskilling of data science professionals
- Innovate through intellectual property development by filing patents, writing research papers, white papers, reports and business cases

He has done his Ph.D. in Information Systems & Analytics from the Department of Computer Science, University of Delhi and Postdoc in Data Science and Data Modelling from Center of Information Technologies and Applied Mathematics, University of Nova Gorica, Slovenia, Europe. He is triple post-graduate and completed his Master in Computer Application (MCA) from the University of Delhi; Post Graduate Program in Management (PGPM) from IMT Ghaziabad (CDL); and Executive Program in Business Intelligence and Analytics (EPBABI) from IIM-Ranchi. He is UGC NET-JRF qualified and holds a certificate in Consulting from Consultancy Development Centre (CDC), DSIR, Ministry of Science and Technology, Government of India. He is one of the few Certified Analytics Professional (CAP-INFORMS) around the world and is serving as CAP Ambassador in Asia Region. He is the first non-US member of the prestigious Analytics Certification Board (ACB) of INFORMS, USA. He has also been accredited with ‘Graduate Statistician’ from the American Statistical Association (ASA).

He has worked on various analytical consulting assignments at national and international level on problems related to the areas of Digital Government, Healthcare, Education, Retail and Insurance. He has delivered lectures at the University of Delhi and IMT – Ghaziabad in Computer Science, Data Science, Information Security and Management. He has also conducted several 1:1 live mentoring and training sessions related to upskilling of analytical career, preparations for analytical certifications and technical knowledge on Analytics Project Lifecycle for various data science professionals from reputed organizations like Verizon, Nokia, Cyient, Tech Mahindra, TCS, Ericsson and Anthem.

His area of interest includes Data Science, E-Governance, Algorithmic Government, Public Information Systems, and Information Security. He has contributed to the E-Governance Development Index report by the United Nations (EGDI-2020). He is a member of the reviewer panel of multiple international journals & conferences. He has also delivered a talk as a panelist on Data Science Application for E-Governance on an international forum sponsored by International Data Engineering and Science Association (IDEAS), USA, and conducted a Global Workshop on “Inclusion of Marginalized Communities” through Electronic Governance and Analytics at ICEGOV-2020 hosted by United Nations University.

**Data Analytics III**

Thursday, April 6, 2023 – 4:00 – 5:45 pm – Room 2 (Virtual)

4:00 – 4:20 pm, Thursday, April 6, 2023

Dr. Elif Kongar
Professor, Economics & Business Analytics Department
University of New Haven
West Haven, Connecticut, USA

Dr. Elif Kongar is a Professor of Economics & Business Analytics at the Pompea College of Business, University of New Haven. Before joining UNH, she served as Associate Dean for Graduate Studies and Research in the School of Engineering at Fairfield University between September 2021 and December 2022. Prior to this appointment, Dr. Kongar was Professor of Technology Management and Mechanical Engineering and Chair of the Technology Management Department at the School of Engineering at the University of Bridgeport (UB), and held a Lecturer position at Yale School of Management. During her tenure at UB, she established several research programs, graduate concentrations and coursework in interdisciplinary areas including predictive analytics, data visualization, statistical analysis, supply chain management and logistics, simulation and modeling, economic and environmental sustainability, and service management and engineering. Dr. Kongar was Founding Director of the Ph.D. Program in Technology Management at UB—the only Ph.D. program of its kind in the Northeast; and one out of a handful of such programs in the U.S.; and has served in this role since the inauguration of the program in September 2014. Dr. Kongar utilizes quantitative and qualitative methods in her interdisciplinary and technology-driven research. She has published over one hundred well-cited papers in scholarly journals and conference proceedings. Her research areas include economically and environmentally sustainable waste recovery systems and operations, disassembly sequencing and planning, electronic waste, performance evaluation, big data and data analytics, quality improvement, engineering education programs, female participation and efficiency in engineering disciplines and in K-12 STEM education. Dr. Kongar is the Department Editor of the IEEE Transactions on Engineering Management and an active member of various national and international technical committees, advisory boards, program committees and editorial boards. She is an elected member of the IEEE Technology and Engineering Management Society (TEMS) Board of Governors, and has served as Chair of the IEEE TEMS Professional Training and Education Adhoc Committee. Dr. Kongar earned her Ph.D. in industrial engineering from Northeastern University and her BS and MS in industrial engineering from Yildiz Technical University, Turkey. Dr. Elif Kongar is a Professor of Economics & Business Analytics at the Pompea College of Business, University of New Haven. Before joining UNH, she served as Associate Dean for Graduate Studies and Research in the School of Engineering at Fairfield University between September 2021 and December 2022. Prior to this appointment, Dr. Kongar was Professor of Technology Management and Mechanical Engineering and Chair of the Technology Management Department at the School of Engineering at the University of Bridgeport (UB), and held a Lecturer position at Yale School of Management. During her tenure at UB, she established several research programs, graduate concentrations and coursework in interdisciplinary areas including predictive analytics, data visualization, statistical analysis, supply chain management and logistics, simulation and modeling, economic and environmental sustainability, and service management and engineering. Dr. Kongar was Founding Director of the Ph.D. Program in Technology Management at UB—the only Ph.D. program of its kind in the Northeast; and one out of a handful of such programs in the U.S.; and has served in this role since the inauguration of the program in September 2014. Dr. Kongar utilizes quantitative and qualitative methods in her interdisciplinary and technology-driven research. She has published over one hundred well-cited papers in scholarly journals and conference proceedings. Her research areas include economically and environmentally sustainable waste recovery systems and operations, disassembly sequencing and planning, electronic waste, performance evaluation, big data and data analytics, quality improvement, engineering education programs, female participation and efficiency in engineering disciplines and in K-12 STEM education. Dr. Kongar is the Department Editor of the IEEE Transactions on Engineering Management and an active member of various national and international technical committees, advisory boards, program committees and editorial boards. She is an elected member of the IEEE Technology and...
Dr. Veena Bansal
Associate Professor
Department of Industrial & Management Engineering
Indian Institute of Technology Kanpur
Kalyanpur, Kanpur -208016, India

5:00 – 5:20 pm, Thursday, April 6, 2023

Dr. Hayder Zghair
Assistant Professor of Industrial Engineering
Director of Industrial Engineering Development
College of Science and Engineering
Southern Arkansas University
Magnolia, Arkansas 71753

Dr. Hayder Zghair is an assistant professor of industrial engineering and the director of Industrial Engineering development in the College of Science and Engineering at Southern Arkansas University. He completed a B.S. and an M.S. from the University of Technology, where he majored in Industrial and Production Engineering. Dr. Zghair earned his second master’s degree in Manufacturing Systems Engineering and Doctor’s Degree in Manufacturing Systems Engineering from Lawrence Technological University, Michigan, USA. He has published journal and conference papers. His research interests include Flexible-Automated Manufacturing, Robotics, Human Factors and Ergonomics, Sustainability Engineering, Analytical Modeling & Simulation, and Optimization. Dr. Zghair continues to explore new and cutting edges areas for research and education in engineering disciplines and got recently had an extensive interest in industry 4.0 tech such as IIoT, smart sensors, and cloud computation and control. Dr. Zghair chairing and member of several committees at the department, college, and university levels. Dr. Zghir is the faculty advisor of SAE students chapter at SAU and IEOM. He is a professional member of ASEE, SAE, and IEOM.
Panel Sessions

Women in Industry and Academia (WIIA) Panel

Tuesday, April 4, 2023, 2:00 – 5:00 pm – Room 3 (Virtual)

Panel Chair

Dr. Bupe Getrude Mwanza
Associate Director
Graduate School of Business
University of Zambia
Zambia

Dr. Bupe Getrude Mwanza has over 9 years of experience in the Higher Education Sector. She has practical experience in teaching and learning, academic administration and research, and quality assurance in the Higher Education Sector. Bupe has teaching and learning experience in Zambia, Zimbabwe and South Africa. She has experience in Quality Assurance in the Manufacturing Sector. She worked for Best Oil Products and Konkola Copper Mines were she was designated in the Quality Assurance Departments. Bupe has a Bachelor of Science in Production Management, Master of Engineering in Manufacturing Systems and Operations Management and PhD in Engineering Management. Bupe has published and presented a number of papers on Waste Management, Operations Management, Manufacturing Systems and Engineering Management. She has presented in countries such as Zambia, Zimbabwe, South Africa, Ghana, Colombia, Singapore, Malaysia, Indonesia, Macao, Thailand and India. She has contributed to the Research Output of the University of Johannesburg, University of Zambia, Copperbelt University, Cavendish University Zambia and Harare Institute of Technology. Because of her passion in research, Bupe has won best paper awards in Zambia, Zimbabwe, South Africa and Malaysia. Bupe is a mentor to a number of young ladies. Her profile has been used to mentor young ladies pursing their careers in Science, Technology, Engineering and Mathematics (STEM) programmes. Bupe is the Chairperson of the Industrial Engineering and Operations Management Chapter in Zambia. She is also a Visiting Senior Research Associate at the University of Johannesburg. She is permanently employed by the University of Zambia, where she serves as the Associate Director and Senior Lecturer in the Graduate School of Business.

Panel Speakers

Michelle Baker
Director of Professional Services /PMO
EW Consulting LLC
West Bloomfield, USA

Michelle is currently the Director of Professional Services /PMO at EW Consulting LLC. She has managed projects and programs in the IT management consulting industry that supported Fortune 500 clients in the automotive, healthcare, technology business management, utility, regulatory, and advertising marketplaces. She is passionate about managing timelines and deliverables for IT and Business programs, also driving team cohesion amidst high stakes, high-level stakeholders, and executing project team members. In addition, she champions professional development and sits on the executive boards of 3 volunteer organizations in her area: Project Management Institute – Great Lakes Chapter, National Black MBA Association–Detroit Chapter, and Lawrence Technological University Alumni Association. She also owns That Project Management Polish LLC, an image consulting company and is a member of Zeta Phi Beta Sorority Incorporated. What's next for her? Continuing the project management profession through the mentoring of younger practitioners who are coming behind her as well as sitting at the feet of those executive mentors who have come before her. Always lifting as she climbs and in awe of those, she is striving towards!

Speaker Experience

2020 PMO Impact Speaker Series
2020 Project Management Institute—Great Lakes Chapter PMI Symposium
2021 PMI-GLC Dinner Meeting (September)
2022 Project Management Institute—Great Lakes Chapter PMI Symposium
Toastmasters Clubs, University Audiences.

Roxan Ara Cadir
Eduardo Mondlane University
Maputo, Mozambique

Vali Issufo
Head of Department at ICT Center
ICTs for Education, Research & Development Unit
Eduardo Mondlane University
Maputo, Mozambique

Talk title: “Breaking the Glass Ceiling: Women in Industry and Academia. The experience of Mozambique at Eduardo Mondlane University"
Dr. Noha Mostafa
Associate Professor of Industrial Engineering and Management
Mechanical Engineering Department, The British University in Egyot
Cairo, Egypt

Title of Talk: Circular economy for sustainable manufacturing

Dr. Noha Mostafa is an Associate Professor of Industrial Engineering and Management in The British University in Egypt. She got B.Sc. and M.Sc. in Industrial Engineering from Zagazig University. In 2016, she was a visiting PhD student in Tokyo Institute of Technology, Japan and she finished her PhD degree in Industrial Engineering and Management in 2017 from Egypt-Japan University; the topic was the integration between different functions of the supply chain. Dr. Noha has broad expertise including supply chain management, logistics, operations management, lean manufacturing, sustainability, plant layout, design thinking, energy management, and innovation management. She has published about 50 papers in international journals and conferences, and she has been working in training and consultation for 15 years. Dr. Noha is currently serving as Global ambassador of sustainability.
Panel Speaker I

Dr. Nick Tucker
Associate Professor
School of Engineering
University of Lincoln
Lincoln, UK

Title of Talk: Reducing Single Use Plastics with Alternative Retail Packaging for Mushrooms

Dr. Nick Tucker is an Associate Professor in the School of Engineering, where he specialises in materials and manufacturing. He has particular research interests in electrospun fibre production, the practical applications for electrospun fibres and in sustainable packaging materials. He was previously a research leader at the New Zealand Institute for Plant and Food Research, and Faraday Research Fellow at the Warwick Manufacturing Group. His industrial experience includes line management in fire-retardant foam manufacture, and production of high-added value ceramics. He also worked as a process technologist manufacturing ceramic cores for investment casting. His research portfolio includes the development of electro-spinning plant and materials (www.revolutionfibres.com), and a number of projects with industrial partners on topics including functional nanofibres, and the manufacture of sustainable packaging materials.

Panel Speaker II

Dr. Khulood A. Rambo, PhD, PMP
Global Ambassadors of Sustainability
Program Manager
Jeddah, Saudi Arabia

Title of Talk: Opportunities and Challenges in Water-Energy-Food Nexus

Dr Rambo earned her PhD, MSc, and BSc in Applied Informatics, Information Systems Management, and Computer Science from the University of Reading (UK), University of Greenwich (UK), and King Abdul-Aziz University (KSA) respectively. Her research interests have an interdisciplinary nature. While she was a postdoctoral research fellow at the center of clean water and clean energy at MIT (USA), she was engaged in research related to sustainable development of natural resources and exploring the challenges and opportunities of water, energy, and food nexus. On the other hand, her PhD research focused on online human behavior and customized human computer interaction technologies development. She is a researcher, consultant, and an academic in the fields of environment sustainable development, water-energy-food nexus, informatics, and education.

Industry 4.0 Panel

Wednesday, April 5, 2023, 2:00 – 3:45 pm – Room 3 (Virtual)

Panel Chair

Panel Speaker I

Ts. Dr. Mehran Doulat, Ph.D.
Adjunct Professor & Associate Researcher
Best Practice Improvement Resource (BPIR.com)
The Centre for Organizational Excellence Research (COER), Massy University, New Zealand
Editorial Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Title of Talk: Digital Transformation and Operational Excellence In the Era Of Industry 5.0: Best Practices and lessons learned

Mehran is currently an Adjunct Professor and Associate Researcher at the Centre for Organizational Excellence Research (COER), Massy University, New Zealand. He holds a Bachelor of Science in Industrial Engineering, a Master of Science in Engineering Management (specializing in quality management & productivity) from the University of Wollongong, Australia, and a PhD degree in Operations Management. Mehran has also completed a 2-year Post-Doctoral Fellowship in the area of innovation and performance measurement. He has worked as a Visiting Professor, Adjunct Professor and Research Fellow in several research institutions in Asia, Europe, and North America. Mehran has been actively involved in many global collaborative academic research as well as industrial and consultancy projects across a range of industries from manufacturing, service, construction, healthcare, higher education to government entities, and public enterprises. He serves as a member of the Editorial Board, Editorial Advisory and Review Board, and Guest Editor for several high-ranking peer-reviewed international scientific journals as well as scientific and technical committee chairs in many referred conferences. Mehran is an active senior member and contributor of the Industrial Engineering and Operations Management Society International, a certified EFQM Excellence Assessor, and ‘T.R.A.D.E.’ Best Practice method. Mehran’s research focuses on Industry 4.0 & 5.0, Quality 4.0, Operations Excellence, Lean Operations, Digital Transformation, Digital Logistics/Supply Chain, Benchmarking Business Excellence, Sustainable Green Supply Chain, and Lean Six Sigma. Prior to beginning his academic career, Mehran worked more than 10 years in different UAE (Dubai) industries holding various positions and duties. He also served as a Senior Assessor for the Dubai Quality Award (DQA) program for 5 years.
Panel Speaker II

Dr Kanak Madrecha, Ph.D.
Managing Director & Principal Consultant
Kanak Madrecha & Associates, FZE LLC
Jury (DQA, SKEA and DHDA), Assessor (MRMBA & EFQM)
Dubai, United Arab Emirates

Title of Talk: Operational Excellence to Delight all 7 Stakeholders in Globally Competitive Business Environment

Dr Kanak Madrecha, Ph.D. (Quality) & PG (Industrial Engg) from National Institute of Industrial Engineering (NITIE) Mumbai (NITIE Distinguished Alumni Award Winner 2013) & BE (Mechanical Engg) from BITS Pilani, Past Jury (Excellence Awards in UAE) & Principal Consultant/ Managing Director (Dr Kanak Madrecha & Assoc)) is a world class leader & professional in business excellence in over 25 different industries. He is also Global Ambassador (STRATandGO). Dr Kanak Madrecha has been honoured by H.H. Sheikh Mohammed Bin Rashid Al Maktoum, Vice President & Prime Minister of UAE and Ruler of Dubai & other His Highnesses from Dubai & Abu Dhabi several times for his notable leadership contributions to business excellence/ human development movement in the emirate of Dubai/Abu Dhabi/UAE. He has been also awarded by several organizations for his leadership contributions to the business excellence field in UAE/GCC. He is the only Excellence Advisor in UAE who has supported 45 large & reputed organizations from 25 different industry sectors in UAE to win 104 prestigious excellence awards in UAE during the last 23 years. Received 100+ formal client appreciations. He led the assessment of 100+ external and 5 internal excellence awards. He is also Lead Auditor/ Assessor/ Implementer for 9 latest ISO Standards (Quality, Environmental, Occupational Health & Safety, Information Security, Innovation, Risk, Anti-Bribery, Energy & Business Continuity Management).

Panel Speaker III

Mr. Ahmad Sharainon Md Shaarani
Managing Director, MICROCORP SDN BHD
President, ARCHIBUS Solution Center
Kuala Lumpur, Selangor, Malaysia

Title of Talk: Digital Facility Management in Relationship with Operational Management

Mr. Ahmad Sha’rainon Bin Hj. Md. Shaarani is a highly skilled professional with over 27 years of experience in the field of ICT development in Malaysia. He is certified as a Train-the-Trainer by the Malaysian Human Resource Development Fund and was awarded a Professional Certificate in Business Digitization and Transformation by Lincoln College University in 2020. With his vast experience and expertise, Ahmad has successfully implemented and advised on various ICT development initiatives in Malaysia, making him a highly sought-after professional in the field. In recognition of his outstanding contributions to innovation and talent in driving the industry and taking Malaysia abroad, Ahmad Sha’rainon was named one of the SME Icons 2021 by the Malaysian Service Providers Confederation (MSPC). He has also received several important ARCHIBUS awards in the United States for his efforts to market the Digital Facilities Management Solution. Additionally, CIDB acknowledged his BIM experience and understanding as part of National BIM Day 2015 in Kuala Lumpur. He holds a diploma in land surveying from the University of Technology Malaysia (UTM) and has been accredited by the Malaysian Qualifications Agency (MQA) with the Accreditation of Prior Experiential Learning- APEL T7 (Degree) in Information Management. Ahmad is currently pursuing a double master's degree in Engineering Business Management from UTM and an MBA from Meiji University in Japan.

Panel Speaker IV

Ts. Nur Azrin Ahmad Pakrudin
Head of Department
Healthcare Engineering Services
KPJ Specialist Hospital
Johor Bahru, Malaysia

Title of Talk: Facilities Management in the Private Healthcare Industry; Challenges, Opportunities and Best Practices

Ms. Nur Azrin is currently a Head of Department Healthcare Engineering Services at KPJ Johor Specialist Hospital, holding Masters of Philosophy Facilities Management. Besides that, she is a Professional Technologist (Ts.) and a Certified Healthcare Manager. Ms Nur Azrin has been in facilities management (FM) industry since 2005. She is experience in managing FM for commercial buildings, shopping complex and has been in FM in private healthcare industry for 10 years. She involves in day-to-day operation and various healthcare projects. Ms Nur Azrin has been part of hospital planning team developing new KPJ hospital and renovation of many clinical and non-clinical departments. This includes renovation of Medical Wards, Paediatric Wards, IVF Center, Woman and Baby Center, New Wards Tower (7 floors), Radiotherapy and Oncology, ICU, A&E, Daycare, Endoscopy Diagnostic Services and various of interior design works for the hospital. Her input is crucial to ensure future maintenance and operation concern is taken care at the beginning of the design stage. Recently Ms Nur Azrin has peer reviewed international healthcare journal paper while bustling with her own PhD paper. She is currently a PhD candidate at Universiti Teknologi Malaysia, with a proposed title: Critical Success Factors for Facilities Management Implementation in the Private Healthcare Industry.
Global Engineering Education Panel
Wednesday, April 5, 2023, 4:00 – 5:45 pm – Room 3 (Virtual)

Panel Chair

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

Engr Dr Paul Amaechi Ozor is the West African Sub-Regional Coordinator of Industrial Engineering and Operations Management Society International. He holds a bachelor's degree in Mechanical/Production Engineering from the Enugu State University of Science and Technology as well as Masters and PhD in Industrial Engineering and Management from the University of Nigeria, Nsukka. Dr Ozor has served as a Senior Research Associate of the University. As a speaker and participant in international conferences, seminars and workshops, he has visited several countries on research grounds. Dr Ozor has published research articles in many peer reviewed local and international Journals and conference proceedings. He has supervised significant local and international postgraduate students to successful study completion. He is an external examiner to University of the Witwatersrand, South Africa. He is a member of the Nigeria Society of Engineers (NSE) and registered with the Council for the Regulation of Engineering in Nigeria (COREN). His research interest is not limited to Asset Management, Quality, Operations Management, Reliability Engineering, Environmental Influence, Sustainable materials, lean six sigma, smart manufacturing.

Panel Speaker I

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

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker II

Professor Charles Mbohwa, Ph.D.
Visiting Professor, University of Johannesburg, South Africa
Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe, Harare, Zimbabwe

Professor Charles Mbohwa is a Pro-Vice Chancellor Strategic Partnerships and Industrialisation at University of Zimbabwe and an affiliated Professor in the Faculty of Engineering and the Built Environment. He is an established researcher and professor in the field of sustainability engineering and energy. He was the Chairman and Head of Department of Mechanical Engineering at the University of Zimbabwe from 1994 to 1997 and was Vice-Dean of Postgraduate Studies Research and Innovation in the Faculty of Engineering and the Built Environment at the University of Johannesburg from 2014 to 2017. He has published more than 350 papers in peer-reviewed journals and conferences, 10 book chapters and three books. He has a Scopus h-index of 11 and Google Scholar h-index of 14. Upon graduating with his BSc Honours in Mechanical Engineering from the University of Zimbabwe in 1986, he was employed as a mechanical engineer by the National Railways of Zimbabwe. He holds a Masters in Operations Management and Manufacturing Systems from University of Nottingham and completed his doctoral studies at Tokyo Metropolitan Institute of Technology in Japan. He was a Fulbright Scholar visiting the Supply Chain and Logistics Institute at the School of Industrial and Systems Engineering, Georgia Institute of Technology, a Japan Foundation Fellow, is a Fellow of the Zimbabwean Institution of Engineers and is a registered mechanical engineer with the Engineering Council of Zimbabwe. He has been a collaborator in projects of the United Nations Environment Programme. He has also visited many countries on research and training engagements including the United Kingdom, Japan, German, France, the USA, Brazil, Sweden, Ghana, Nigeria, Kenya, Tanzania, Malawi, Mauritius, Austria, the Netherlands, Uganda, Namibia and Australia. He has had several awards including British Council Scholarship, Japanese Foundation Fellowship, Kubota Foundation Fellowship; Fulbright Fellowship.
Panel Speaker III

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

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

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

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

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

Panel Speaker IV

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

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

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair

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

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty
Panel Chair

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 the area of Operations and Supply Chain Management at one of the well reputed educational systems at Faculty of Management Studies, University of Delhi. Dr. Soni acts as critical thinking academic enabler to the management students, researchers of both fulltime and part-time executive batches. Dr. Soni holds a Ph.D. in Operations management area from Department of Management Studies, Indian Institute of Technology Delhi (IIT Delhi), M. Tech. (IIT Delhi), B. Tech. (Motilal Nehru NIT Allahabad) and also MBA degree in Operations Area. His Ph.D. dissertation is on systems modeling for security and sustainability in Indian energy sector and MBA dissertation on higher education policy framework in industry 4.0 context. He has been contributing teaching and research at premier academic institutions such as Jaipuria School of Business (Delhi / NCR) where he served as area chairperson (operations and supply chain) and head (R&D), School of International Studies, Jawaharlal Nehru University, BULMIM, BIMTECH, Greater Noida, Great Lakes Gurgaon, LBSIM, and TERI School of Advance Studies Delhi.

Dr. Soni has also contributed several papers in international journals such as 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 etc. He is also at editorial advisory board member of Int. Journal of Energy Sector Management. His research work is also appeared in international conferences at Industrial Engineering & Operations Management Society Singapore (2021), 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 Institution of Engineers India, and a certified independent director by Ministry of Corporate Affairs, Govt. of India. He is active life member of several professional associations/ research, & training forums including the Indian Institute of Public Administration New Delhi. He is contributing to India’s chapter of IEOM Society USA at New Delhi as a unique management proposition towards the operation area.

Panel Speaker I

Dr. Mohammad Ichsan, PMP, PMI-SP
Assistant Professor
Faculty Member of Binus Business School (AACSB Accredited)
Undergraduate Program
Bina Nusantara University
Jakarta, Indonesia

Mohammad Ichsan is an Assistant Professor of Binus Business School. He has published some books and papers in the area of project management. He has over 20 years of experience in managing projects in multiple industries such as Information Technology, construction, telecommunication, and financial services. His current research domain is Project Management Office, Sustainable Project Management, Agile Project Management, and Strategic Project Management. His teaching area is project management, operations management, and supply chain as well as research methodology in the both undergraduate and graduate programs. Dr. Ichsan received his electrical engineering degree from Hochschule Darmstadt in Germany (Diplom Ingenieur) and his master’s degree from the University of Indonesia in Project Management (Magister Teknik – Cum Laude), meanwhile, his Ph.D. is pursued from Bina Nusantara University majoring Strategic Management. Dr. Ichsan has also professional project management credentials such as Project Management Professional (PMP) and Project Management Institute - Scheduling Professional (PMI-SP) from Project Management Institute and Project Management Office – Certified Practitioner from PMO Global Alliance. He was appointed as Regional 15 Mentor PMI and a member of Project Management Institute Global and Indonesia Chapter.

Panel Speaker II

Uzair Ahmed Qazi
Assistant Manager Operational Excellence
Indus Pharma (Pvt.) Ltd.
Karachi, Sindh, Pakistan
Engr. AKM Mizanur Rahman
Assistant General Manager
Head of Development
RFL Electronics Ltd sister concern of RFL Group
Dhaka, Bangladesh

Mr. AKM Mizanur Rahman presently leads the washing machine, blender motor, Electric Kettle, Induction & Infrared cooker coil manufacturing project. Also, his roll Products/Project feasibility study, Sourcing & Development, import planning, Production Planning, Indirect Sales monitoring, Prepare SOP for production & Quality Control.

He was in Walton Group before coming RFL & here responsibility was In Coming quality control, according to Acceptance Quality Level (AQL). In process quality control, according to Standard Operating Procedure (SOP). Various circuit check in the aging test. Semi finish parts checking and qc passed according to standard parameter, drawing and master sample. Final QC passed after testing. Develop training manual and arrange training for QC team & KPI. Technical data analysis for sourcing of machine & erection. Sourcing, testing & After-sales service of generator. Pre-shipment Inspection for raw materials, parts and finished goods. Pre-production Inspection of each model of motorcycle. All parts checking of CKD engine, control quality for assembly & testing. Control quality when assemble a motorcycle according to BOM (Bill of materials) Checking all adjusting, dimension, smoke test, horn test, light intensity test etc. Submit all kind of rejection/ repair report to commercial department

Before Walton he was in Otobi Ltd & here responsibility was Prepare schedule for production (MPS). To prepare Bill of Materials according to drawing & design, Routing (Time Scheduling) for production. Calculate MRP-I (Materials Planning), MRP-II (Capacity Planning), Wastage materials calculation & wastage minimization. Prepare confirm pipeline/production status. Maintain relation between Production planning & Procurement. To ensure the maintenance work of machineries regularly. Maintain 5s Kaisen rules. Maintain health & Safety.

Yasar Ajlouni
Project Management Advisor
Kasih Food Production Co.
Amman, Jordan

Dr. Olufemi Adetunji
Associate Professor, Department of Industrial Engineering
University of Pretoria/Universiteit van Pretoria
Pretoria, Gauteng, South Africa

Dr. Olufemi Adetunji is an associate professor in the department of Industrial and Systems Engineering at the University of Pretoria, Pretoria, South Africa. He earned his Bachelors in Agricultural Engineering and his Masters in Industrial and Production Engineering from the University of Ibadan Nigeria. He also had a Post Graduate Diploma in Computer Science from the University of the Witwatersrand, Johannesburg, and his doctorate in Industrial and Systems Engineering from the University of Pretoria, Pretoria, both in South Africa. He is professionally certified in SCOR-P by the Supply Chain Council, certified in CPIM and CSCP by APICS, certified in SAP ERP systems by SAP, and has a green belt in lean six sigma. He has published several journal and conference papers. Dr. Adetunji has also conducted research and process improvement projects in diverse industries including Finance, Education, Manufacturing and Information Systems. His teaching and research interest is in the application of models to the design and operation of Manufacturing Planning Systems and Supply Chain Engineering.

Dr. Devinder Banwet
Vice Chancellor Founding
University of Engineering & Management
Kolkata India
Professor Emeritus, IIT Delhi

Prof. Devinder Kumar Banwet is Vice Chancellor at University of Engineering & Management Kolkata India. He is an Emeritus Professor of DMS IIT Delhi in the area of Operations & Supply Chain Management and a Fellow of the Institution of Engineers (India). He is a Graduate Mechanical Engineer, with Master of Industrial Engineering and PhD 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 Management, Project Management, IT-enabled DSS, Industrial Systems Engineering, Total Quality Management, Manufacturing Strategy, Technology Management, Materials Management, Facilities Planning, Operations Research Modelling, Telecom Systems and Entrepreneurship Management.
Sadique Salim
Vice President, Bangladesh
Six Sigma Management Institute
Lean Six Sigma Master Black Belt
Dhaka, Bangladesh

Sadique Salim is one of the well-known resources in the field of Lean Six Sigma, Design Thinking, Innovation, Start UP acceleration and Business Excellence in the South Asia. He is known for transforming organization with little or limited resources. Sadique is one of the first Design Thinking, Six Sigma experts in his home country. He has been practicing Six Sigma in his work and as a consultant for last 16 years and helped set it up for many organizations. He is featured frequently as a guest speaker is ACCA Asia programs, universities, seminars where he talks about Design Thinking, Six Sigma, Operational Excellence, Business Transformation and Data Science. Sadique is a Certified Lean Six Sigma Master Black from Six Sigma Management Institute. He is also a Certified Project Management Professional for last 10 years from Project Management International, USA. He also received certification on Design Thinking from AHO (The Oslo School of Architecture and Design, Norway) and Designing Better Services from Telenor Academy- Pebble Road (Thailand). Since 2014, Sadique has guided over 50+ organizations, both manufacturing and services across ten countries in their Organizational Excellence journey, Design Thinking implementation, TQM and Six Sigma implementation and known for his avid skills in successful Business Transformation and Change Management. He is also a frequent pro bono consultant for local start-ups and plays an active role in raising funds and investments for them. He also represents some global venture capitalist organizations in Bangladesh. He received Bachelor of Business Administration (BBA) from IBA, Dhaka University and MBA from North South University, Bangladesh. Salim is a Certified Lean Six Sigma Master Black Belt from Dr. Mikel J Harry Six Sigma Management Institute and Certified Project Management Professional from PMI.

Panel Speaker II

Dumidu Ranaweera
Global Director APAC, Middle East, Africa & Oceania – Dr Mikel J Harry Six Sigma Management Institute Inc.
Chief Executive Officer – Lean Six Sigma Asia LLC.
Sri Lanka

One of the well-known resources in the field of “Lean Six Sigma” (referred to as the ‘Lean Six Sigma Guru of Sri Lanka’ by print media) and “Organizational Excellence” in the region and has been personally endorsed by the principal architect of Six Sigma Dr Mikel J. Harry as one of the best resources available on “Six Sigma”. He is featured frequently as a Keynote Speaker/ Chief Guest/Award Judge in many international and local conferences/forums (i.e., Japan, USA, Singapore, Australia, India, Bangladesh, Vietnam, Malaysia, Maldives, Netherlands etc.) and carries extensive expertise relating to Organizational Excellence & Lean Six Sigma.

During his illustrative career, Dumidu has been recognized by many industry forums and associations. These include Lean Six Sigma Coaching Excellence Medal by SSMI USA, Karma veer Chakra Silver Award by REX in association with the United Nations, ‘Business Leader of the Year 2017 & 2019’ Awards during Sri Lanka Quality Leadership Awards, ‘Hall of Fame Award’ during Asia Training & Leadership Awards 2019 and in Sri Lanka in 2017, IT-BPO Young Outstanding Professional Sri Lanka Award from ICTA, Distinguished Industry Achievement Award from IEOM in 2021 etc. He is also the first individual outside the USA to be awarded the ‘Executive Master Black Belt’ status by the late Prof. Mikel J. Harry was recently listed under the “101 Most Fabulous Global Training & Development Leaders” at the World Training and Development Congress 2020. He currently works as an Advisor/ Consultant for three main universities in Sri Lanka and was responsible in re-designing the curriculum of the Quality Management Degree and the Business Process Management degree offered by SLIIT and the University of Moratuwa respectively. In 2017, Dumidu also introduced Lean Six Sigma methodology to Maldives with HR Maldives.

Dumidu has guided over 300+ organizations, both manufacturing and services across 10 countries in their Organizational Excellence journey and known for his avid skills in Lean Six Sigma deployment and credentials in multiple business disciplines. During his illustrative career, he has mentored over 1000+ process excellence projects across various domains and trained over 30,000+ resources including over 800 Black Belts /Master Black Belts. He has also been responsible for award-winning Organizational Excellence & Lean Six Sigma deployment programmes and implementation of management systems in novel domains.
Apart from EMBB certification from SSMI, he also holds three Lean Six Sigma Master Black Belt certifications from BMG University, Indian Statistical Institute & Dialog Axiata, Black Belt certifications from ASQ & Motorola University and Lean Practitioner certification from BMGI. His other credentials include, MBA with Merit (USJ-PIM), BBA (Colombo), Diploma in Quality Management with Distinction (SLSI), ASQ CQE, ASQ CMQ/OE, ASQ CQA, Sri Lanka’s 1st IASSC Accredited Training Associate, Lean Bronze, Lead Auditor ISO 9001 QMS, ISO 14001 EMS & ISO 27001 ISMS, Certified TPM Facilitator (CII, JIPM, TPM Club), PMP, PGDM (CIM-UK), ACMA (CIMA-UK), FCMA (CMA-SL), Senior member ASQ, Council member SLAAQP, HMM (Harvard) & NDHRM (IPM) etc. Dumidu is also currently reading for his Doctorate in Business Administration.

Panel Speaker III

**Michael Connell**  
CEO  
MICOMA Enterprises  
Baltimore, Maryland, USA

Michael has a B.Sc. in Mechanical Engineering and an MBA from the University of Maryland system. He is a Lean Expert, a certified Lean Six Sigma Black Belt, and a registered Project Management Professional (PMP). After 30 years in a variety of roles within Manufacturing and Service organizations as an engineer, Lean Expert/Six Sigma Black Belt, and Quality/Safety & Continuous Improvement Managers, Michael took what he learned about making processes better, along with his observations of how people approach problem solving, and decided to become his own boss just prior to the Covid Pandemic. By building on the shoulders of Quality Giants – Deming, Juran, Ohno, Harry and others, Michael follows the lead of these minds that have shaped the 20th century “quality of business” landscape, particularly where it pertains to improving digital processes. He gets most of his satisfaction leading people to the realization that they are the true worth of any organization.

Panel Speaker IV

**Rizwan Elias**  
General Manager, Manufacturing  
RegenOrganics  
Nairobi, Kenya  
Experienced Six Sigma Practitioner

Rizwan Elias is currently the Head of Operations at RegenOrganics, a Kenyan based circular economy company that converts organic waste into regenerative products. He has worked in the manufacturing sector for the past 7 years – managing and building teams in various departments; Maintenance, Continuous Improvement, Quality Engineering, Health & Safety, Production and Operational Excellence. Rizwan has a Bachelor of Engineering in Mechatronic Engineering and a Master of Science in Advanced Manufacturing Technology. Rizwan is currently pursuing a Six Sigma Black Belt certification from Dr. Mikel J Harry Six Sigma Management Institute.

Panel Speaker V

**Daniel Santillanes Loredo, MBB. MBA**  
Regional Partner Six Sigma Management Institute México  
Independent Consultant and Lean Six Sigma Master Black Belt  
Mexico City  
Mexico

Daniel Santillanes has over 20 years of leadership and management experience with global Fortune 100 companies. With working relationships across the Americas in industrial, consumer products, pharmaceutical, logistics, steel, agriindustry, energy & consulting sectors.

He has implemented Lean Six Sigma and trained over 500 belts over the last 17 years, while implementing multifunctional and multicultural teams, building capabilities & achieving millions of dollars of savings and financial benefit through the application of LSS philosophy, methodology and tools.

Panel Speaker IV

**Bob Scanlon**  
Regional Partner at Six Sigma Management Institute  
Management Consultant, Lean Six Sigma, Operational Excellence, Biz Ops Dashboards and Metrics Expert, Business Transformation, Training, Coaching, Kaizen  
Frederick, Maryland, United States

**Global Supply Chain and Logistics Panel**  
Thursday, April 6, 2023, 4:00 – 5:45 pm – Room 3 (Virtual)

Panel Chair:
Dr. Abdelaziz Berrado
Professor and Academic Coordinator
Department of Industrial Engineering
The Ecole Mohammadia d’Ingénieurs (EMI)
School of Engineering
Mohammed V University
Rabat, Morocco

Abdelaziz BERRADO is Professor and Academic Coordinator of Industrial Engineering in EMI School of Engineering at Mohammed V University in Rabat. He was previously Industrial Engineering Department Chair at the same institution. Prior to his current position, he was a faculty member of Engineering Management at AIAKhawany University in Ifrane. He holds a Ph.D. in Decision Systems and Industrial Engineering from Arizona State University. He researches advanced analytical methods and frameworks for knowledge generation and decision support in organizations. He focuses on data analytics for Operations and Supply Chain Modelling, Planning, Improvement and Control with applications in Healthcare, Education and other Industries. He has led several funded applied research projects with local and international impact and published research papers in renowned journals. In addition to academic work, he interacts closely with the industry through training and consulting projects. He is a fellow of IEOM Society and a member of INFORMS and IEEE. Previously, he was a senior engineer and data analytics lead at Intel.

Panel Speaker I

Prof Zoubida Chorfi
Equipe de recherche AMIPS
Ecole Mohammadia d’Ingénieurs
Mohammed V University, Rabat, Morocco

Zoubida CHORFI, Ph.D. is a Professor of Industrial Engineering in EMI School of Engineering at Mohammed V University in Rabat. She received her Dipl-Ing degree in Industrial Engineering from (EMI), Rabat, Morocco, in 2011. She earned Ph.D in Industrial Engineering from same institution in 2019. She has more than three years of industrial experience in several industrial companies. Her areas of interest include supply chain management, performance measurement, multi-criteria decision analysis, design of experiments, Machine learning etc. She published several papers in research journals and conferences.

Panel Speaker II

Mohamed-Iliasse Mahraz
Département Génie industriel
Ecole Mohammadia d’Ingénieurs
Mohammed V University
Rabat, Morocco

Mohamed-Iliasse MAHRAZ holds an MS degree in Supply chain management, from LORRAINE University in Metz, France. Currently, He is a Ph.D. student at Department of industrial engineering with Research Team in modeling and decisions support for systems at Ecole Mohammadia d’Ingénieurs (EMI), Mohamed V University, Morocco. He is interested in ERP systems. His work is focused, more specifically, on examining a Critical Success Factors for ERP implementation in Moroccan organizations.

Panel Speaker III

Sbai Nouçaiba
Senior Lecturer
SIST British Education
Rabat, Morocco

Sbai Nouçaiba is a Senior Lecturer at SIST British Education Morocco, delivering courses in Business Management, Project management, Operations Management, and Supply chain management. She is pursuing her Doctoral Studies (PhD near completion) in Engineering Sciences and Supply chain management at EMI School of Engineering at Mohamed V University in Rabat. She is a member of the Analyze, Modelling, and Integration of Processes and Systems (AMIPS) research team in EMI. Her doctoral main research investigates multi-echelon inventory management with a special focus on sizing multi-echelon inventories in the pharmaceutical sector. Her research interests are in the areas of supply chain management, simulation in supply chain networks, Project management, and multi-criteria decision-making. She published Articles and several conference papers and participated in international conferences in Morocco as well as Europe, USA, and Turkey. She holds an engineering degree in Industrial Engineering from the EMI School of Engineering at Mohamed V University in Rabat.

Submissions Received from Countries and Territories

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IEOM Zambia Conference</td>
<td>Panel Sessions</td>
<td>April 4-6, 2023</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31. Turkey</td>
<td>33. UAE</td>
<td>35. United States</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32. Uganda</td>
<td>34. UK</td>
<td>36. Zimbabwe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Parallel Sessions

**All Times are in Zambia Time**

#### Tuesday, April 4, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Room 1 - Virtual</th>
<th>Room 2 - Virtual</th>
<th>Room 3 - Virtual</th>
<th>Room 4 - Virtual</th>
<th>Room 5 - Virtual</th>
<th>Room 6 Virtual</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Global Engineering Education I - Plenary</td>
<td>Undergraduate Competitions</td>
<td>Masters Thesis Competition</td>
<td>LSS Competition + Doctoral Competition</td>
<td>Masters Thesis Competition</td>
<td>LSS Competition + Doctoral Competition</td>
</tr>
<tr>
<td>9:45</td>
<td>Welcome Address – Professor Anna Sikwibe, Acting VC of University of Zambia – Virtual Room 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>Keynote I (Day 1 Opening Keynote): Dr. DouglasMbweni, Group Chief Executive Officer, Econet Wireless Zimbabwe Limited, Harare, Zimbabwe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:40</td>
<td>Keynote II: Dr. Lubinda Haabazoka, Director, Graduate School of Business, University of Zambia, Lusaka, Zambia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>Keynote III: Dr. Manuel Woschank, Deputy Head – Chair of Industrial Logistics Montanuniversitaet Leoben, Austria</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Keynote IV: Dr. Christopher E. Borromi-Bird, Founder of Afreecar LLC, Former VP, Strategic Development of Qualcomm, Detroit, MI, USA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:40</td>
<td>Keynote V: Dr. Mncono-Liwani Buyiswa, Corporate Services &amp; Traction Motors Operation Executive, Gibela Rail Transport Consortium, South Africa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Wednesday, April 5, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Room 1 - Virtual</th>
<th>Room 2 - Virtual</th>
<th>Room 3 - Virtual</th>
<th>Room 4 - Virtual</th>
<th>Room 5 Virtual</th>
<th>Room 6 Virtual</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Industry Solutions and Industry 4.0 I - Plenary</td>
<td>Global Business Management I - Plenary</td>
<td>Sustainability Panel</td>
<td>Business Management</td>
<td>Energy</td>
<td>Operations Excellence</td>
</tr>
<tr>
<td>9:45</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>Keynote VI (Day 2 Opening Keynote): Dr. Charles Mungule, Director, Citizen Economic Empowerment Commission, Lusaka, Zambia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:40</td>
<td>Keynote VII: Dr. Michael N. Mulenga, Dean, School of Engineering, University of Zambia, Lusaka, Zambia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>Keynote VIII: Dr. Piera Centobelli, Professor of Business Economics and Organization Università degli Studi di Napoli Federico II, Italy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Keynote IX: Dr. James A. Tompkins, Chairman and Founder, Tompkins Ventures, Chairman and Co-Founder Tompkins Leadership, USA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:40</td>
<td>Keynote X: Dr. Grace Mukondeleli Kanakana-Katumba, Executive Dean, Faculty of Engineering and the Built environment, Tshwane University of Technology, South Africa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Break**

#### Thursday, April 6, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Room 1 - Virtual</th>
<th>Room 2 - Virtual</th>
<th>Room 3 - Virtual</th>
<th>Room 4 - Virtual</th>
<th>Room 5 Virtual</th>
<th>Room 6 Virtual</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Global Supply Chain and Logistics I - Plenary</td>
<td>Global Data Analytics I - Plenary</td>
<td>Project Management Panel</td>
<td>Transportation and Traffic</td>
<td>Lean, Quality and Six Sigma</td>
<td>Operations Excellence</td>
</tr>
<tr>
<td>9:45</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>Keynote XI (Day 3 Opening Keynote): Dr. Vassilis C. Gerogiannis, Ph.D., Professor and Head, Department of Digital Systems, University of Thessaly, Larissa, Greece</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:40</td>
<td>Keynote XII: Dr. Clinton AIBAVBOA, Professor, Dept. of Construction Management and Quantity Surveying University of Johannesburg, RSA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>Keynote XIII: Mr. Lukonga Lindunda, Co-Founder/Executive Director, Bonghive Group, Lusaka, Zambia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Keynote XIV: Mr. Steven Dihwa, Coordination Centre Executive Director Southern African Power Pool (SAPP) Harare, Zimbabwe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:40</td>
<td>Keynote XV: Lerato Nyama, Quality Management &amp; Internal Governance Director, Siemens Digital Industries, Johannesburg, Gauteng, South Africa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Break**

### Virtual Awards Ceremony

6:00 – 7:00 pm, April 6, 2023
April 4, 2023 (Tuesday)

April 4, 2023 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, TUESDAY

Plenary - Global Engineering Education I

Virtual Room 1

Session Chair: Dr. Austin Mwange

8:00 am - 8:20 am (Tuesday, April 4)

Prof. Amevi Acakpovi
Pro Vice-Chancellor
Professor in the Electrical/Electronic Engineering
Accra Technical University
Ghana

8:20 am – 8:40 am (Tuesday, April 4)

Dr. Mohd Helmy Abd Wahab
Principle Research Fellow
Advanced Telecommunication Research Center
Universiti Tun Hussein Onn Malaysia

8:40 am – 9:00 am (Tuesday, April 4)

Dr. Suraj Kumar Mukti
Associate Professor
Department of Mechanical Engineering
National Institute of Technology Raipur
India

9:00 am – 9:20 am (Tuesday, April 4)

Dr. Ghada Kholief
Part time Assessor at Arab Academy for science and Technology and Maritime Transport
Head Engineer in Egyptian Radio and Television Union
Cairo, Egypt

9:20 am – 9:40 am (Tuesday, April 4)

Dr Natalie Skeepers (Ph.D.)
Governance, Risk and Compliance Specialist
Global Safety Resources

8:00 – 9:45 am, TUESDAY

Undergraduate Competitions

Virtual Room 2

Session Chair: Dr Norman Kachamba

UNDERGRADUATE PAPER COMPETITION

ID 4  Perceived Employee Engagement, Collaborative Capability, and Service Tenure as Correlates of Employee Performance: A Multivariate Analysis
America, Girlie; De Palma, Mary Leinel; Demalata, Fiona Mae; Denila, Robert Ryan; Incencio, Bheatrixe and Oblino, Sharlmae Jayne, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

UNDERGRADUATE RESEARCH COMPETITION

ID 63  An Undergraduate Research Study on Comparative Analysis between Light Dependent Resistor (LDR)- Based Light System and a Commercially Available Automatic SolarPowered Light System in The Area of Barangay Payatas (A)
Bautista, Ian Paolo, University of Santo Tomas, Philippines
Saroca, Eduard Joseph, University of Santo Tomas, Philippines
Tambago, Teofilo Jr., University of Santo Tomas, Philippines
Victorio, Alessandro, University of Santo Tomas, Philippines

ID 74  Validation of Neurcom Machine through Dominant Leg Balance Testing
Drew Topoly, Sean Coleman, Kit Allman, Dr. Denise Bauer and Dr. Girish Upreti, Department of Engineering, Industrial Engineering, Director of Engineering and Assistant Professor of Engineering, Methodist University, Fayetteville, North Carolina 28311, USA
Dr. Matthew Foreman and Dr. John Fox, Department of Occupational Therapy, Assistant Professor of Occupational Therapy and Associate Professor of Physical Therapy, Methodist University, Fayetteville, North Carolina 28311, USA

ID 179  Determining Factors influencing Disaster Consciousness in the Philippines: A Multiple Regression Approach
Bianca Danielle C. Bornilla, Ranice Ysabelle B. Ang, John Karol F. Angeles, Justine Lian P. Fabia, and Yoshiki B. Kurata, Department of Industrial Engineering, University of Santo Tomas, España Blvd., 1015, Manila, Philippines
8:00 – 9:45 am, TUESDAY  Masters Thesis Competition  Virtual Room 3

Session Chair: Mr. Gelvazio Sakala

ID 51  An Explanatory Study of Community Use of Solar Energy in Chitandika Village, Eastern Province, Zambia
Elias Michael Lungu, Power Corner (Mysolgrid), Zambia

ID 8  A Review Paper on Biometric Authentication and Geospatial Data
Jeremiah J. Mwilinga and Dr. Jackson Phiri, Department of Computer Science, The University of Zambia, Lusaka, Zambia

ID 152  Exploring the ecological impact of BRT Rea Vaya on Klipspruit Valley Road in Soweto, Johannesburg
Vuthiari Sharon Rikhotso and Trynos Gumbo, Department of Urban and Regional Planning, University of Johannesburg, PO Box 524 Auckland Park, 2006, South Africa
Thembani Moyo, Postdoctoral Fellow: Centre for Applied Research + Innovation in the Built Environment (CARINBE), University of Johannesburg PO Box 524 Auckland Park, 2006, South Africa

Bizeck Obster Daka, Student Graduate School of Business, University of Zambia, Lusaka, Zambia
Bupe Getrude Mwanza, Associate Director and Senior Lecturer, Graduate School of Business, University of Zambia, Lusaka, Zambia

ID 108  The Effect of Reverse Logistics Practices on Economic Performance: A Case Study of Simba Breweries
Alex Lumba, Postgraduate Student, Graduate School of Business, University of Zambia, Lusaka, Zambia
Bupe Getrude Mwanza, Associate Director and Senior Lecturer, Graduate School of Business, University of Zambia, Lusaka, Zambia

ID 160  Factors influencing successful risk management for financial planners
Heloise Strauss, School of Business Leadership, University of South Africa
Sugandren Naidoo, Department of Operations Management, College of Economic and Management Sciences, University of South Africa

ID 190  Assessment of the Effect of the National Health Insurance Scheme Universal Health Coverage on Service Quality in Health Facilities in Lusaka
Elizabeth Mofya, Manager- Health Insurance, ZSIC LIFE, Zambia

8:00 – 9:45 am, TUESDAY  Lean Six Sigma Competition + Doctoral Competition  Online Room 4

Session Chair: Prof. Nita Sudeko

LEAN SIX SIGMA COMPETITION

ID 131  Challenges to Implementing Lean Construction in Nigerian Construction Industry
Victoria Akinola, Lecturer I, Department of Building, School of Environmental Technology, Federal University of Technology, Akure, Nigeria
Joseph Akinola, Associate Professor, Head of Department and Associate Professor, Dept. of Quantity Surveying, School of Environmental Technology, Federal University of Technology Akure, Nigeria

ID 70  Ranking the Critical Failure Factors to Lean Six Sigma Implementation in Dairy Processing Industry: A Bayesian BWM Approach
Ferdous Sarwar, Ph.D., Professor, Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Abhiro Shome Pias and Omer Tahsin, Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

DOCTORAL DISSERTATION COMPETITION

ID 107  A SWOT Analysis of Smart Cities Frameworks
Portia Mupfumira, Namibia University of Science and Technology, Windhoek, Namibia
Professor Michael Mutungi, Ph.D., Namibia University of Science and Technology, Windhoek, Namibia

ID 73  Can Social Media Marketing Adoption Lead to Relative Competitiveness and Improved Sales Performance? A Study of SME Suppliers in The Zambian Mining Sector
Beenzu Siahchini, PhD student, Graduate School of Business, The Copperbelt University, Kitwe, Zambia
Dr. Stella Zulu-Chisanga, Senior Lecturer, The Copperbelt University, School of Business, Kitwe, Zambia
Dr. Bruce Mwiya, Senior Lecturer, The Copperbelt University, School of Business, Kitwe, Zambia
Dr. Yvonne Kabeya Saini, Senior Lecturer, Witwatersrand University, Business School, Johannesburg, South Africa
April 4, 2023 (Tuesday) - Session: 10:00 am – 1:00 pm

Keynote Speakers

09:45 Welcome Address

**Professor Anne Sikwibele**
ctng VC of University of Zambia

10:00 Keynote I (Day 1 Opening Keynote):

**Dr. Douglas Mboweni**
Group Chief Executive Officer, Econet Wireless Zimbabwe Limited, Harare, Zimbabwe

10.40 Keynote II:

**Dr. Lubinda Haabazoka**
Director, Graduate School of Business, University of Zambia, Lusaka, Zambia

11:20 Keynote III:

**Dr. Manuel Woschank**
Deputy Head – Chair of Industrial Logistics Montanuniversitaet Leoben, Austria

12:00 Keynote IV:

**Dr. Christopher E. Borroni-Bird**
Founder of Afreecar LLC, Former VP, Strategic Development of Qualcomm, Detroit, MI, USA

12:40 Keynote V:

**Dr. Mncono-Liwani Buyiswa**
Corporate Services & Traction Motors Operation Executive, Gibela Rail Transport Consortium, South Africa

1:20 Break

April 4, 2023 (Tuesday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, TUESDAY   Plenary - Global Engineering Education II   Virtual Room 1

Session Chair: Dr. Amr Eltawil

2:00 pm – 2:20 pm (Tuesday, April 4)

**Dr. Erastus Mwanaumo**
Senior Lecturer
University of Zambia (UNZA)

2:20 pm – 2:40 pm (Tuesday, April 4)

Dr William Goriwondo
Pro Vice Chancellor: Innovation and Business Development
National University of Science and Technology
Zimbabwe
2:40 pm – 3:00 pm (Tuesday, April 4)

Dr. Eng. Wilson R. Nyemba
Department of Mechanical Engineering
Faculty of Engineering
University of Zimbabwe
Mount Pleasant, Harare, Zimbabwe

Modelling the Framework for Doctoral Training in Southern Africa

3:00 pm – 3:20 pm (Tuesday, April 4)

Dr. Funso Falade
Funso_Falade1Department of Civil & Environmental Engineering
University of Lagos, Akoka, Lagos, Nigeria
and
President, African Engineering Education Association

3:20 pm – 3:40 pm (Tuesday, April 4)

Dr. Amr Eltawil
Dean of the School of Innovative Design Engineering
Professor of Industrial Engineering
Egypt-Japan University of Science and Technology (E-JUST)
New Borg El Arab, Egypt

2:00 – 3:45 pm, TUESDAY  Lean Six Sigma I - Plenary  Virtual Room 2

Session Chair: Dr. Qipeng Phil Zheng

2:00 – 2:20 pm, Tuesday, April 4, 2023

Dr. Sushanta Tripathy, PhD (Industrial Engineering, IIT, Kharagpur)
Professor, School of Mechanical Engineering
Program Chair, Supply Chain Management
Program Head, Industrial Engineering
KIIT Deemed to be University
Bhubaneswar, Odisha, 751024, India

2:20 – 2:40 pm, Tuesday, April 4, 2023

Dr. Suraj Kumar Mukti
Associate Professor
Department of Mechanical Engineering
National Institute of Technology
Raipur, India

2:40 – 3:00 pm, Tuesday, April 4, 2023

Daniel Hodges
CEO and Founder
Meknology LLC
Detroit, Michigan, USA

3:00 – 3:20 pm, Tuesday, April 4, 2023

3:20 – 3:40 pm, Tuesday, April 4, 2023

Dr. Qipeng Phil Zheng
Associate Professor
Department of Industrial Engineering and Management Systems
College of Engineering and Computer Science
University of Central Florida
Orlando, FL 32816, USA
2:00 – 4:00 pm, TUESDAY  
**Women in Industry and Academia (WIIA) Panel**  
Virtual Room 3

**Session Chair:**

**Panel Chair**

Dr. Bupe Getrude Mwanza  
Associate Director  
Graduate School of Business  
University of Zambia  
Zambia

**Panel Speakers**

Michelle Baker  
Director of Professional Services /PMO  
EW Consulting LLC  
West Bloomfield, USA

Roxan Ara Cadir  
Eduardo Mondlane University  
Maputo, Mozambique

Vali Issufo  
Head of Department at ICT Center  
ICTs for Education, Research & Development Unit  
Eduardo Mondlane University  
Maputo, Mozambique

Talk title: “Breaking the Glass Ceiling: Women in Industry and Academia. The experience of Mozambique at Eduardo Mondlane University”

Dr. Nita Sukdeo  
Associate Professor and Head  
Department of Quality and Operations Management  
University of Johannesburg  
Gauteng, South Africa

Dr. Eng. Loice K Gudukeya  
Senior Lecturer  
Mechanical Engineering Department  
University of Zimbabwe

Ms. Sebonkile Thaba  
Lecturer in Transport and Supply Chain Management  
University of Johannesburg  
Johannesburg, Gauteng, South Africa

2:00 – 3:45 pm, TUESDAY  
**Graduate Student Paper Competition**  
Virtual Room 4

**Session Chair:** Dr Norman Kachamba

**ID 32**  
Analysis of Connection Fee Subsidies on Rural Electrification Projects in Zambia: Case of Chibombo District  
Michael Kalumbu Nsefu, Zambia Metrology Agency/ University of Lusaka, Zambia

**ID 86**  
Analysis of Connection Fee Subsidies on Rural Electrification Projects in Zambia-Case of Chibombo District  
Michael Kalumbu Nsefu, School of Postgraduate Studies, University of Lusaka, Plot No. 37413, Off Alick Nkata Road, Mass Media, Lusaka, Zambia

**ID 87**  
Analysis of Light Reflection from Crystalline Silicon Wafers to identify The Optimum Geometry  
Katuve Tie, BEng, Master of Engineering Student, Department of Mechanical, Energy and industrial engineering, Botswana International University of Science and Technology, Palapye, Botswana

**ID 71**  
Effects of Workforce Diversity on Employee Performance in the Textile Industry  
Gouri Priya Jyothi L, Student (II MBA), Operations and Business Analytics, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu, India

**ID 62**  
Suitability of Osara River Sand Deposits for Moulding Operation  
A. Ayuba, Nigerian Army University Biu, Nigeria

---

© IEOM Society International  
4th African IEOM Conference  
Page 58
2:00 – 3:45 pm, TUESDAY  High School STEM Competition  Virtual Room 5

Session Chair: Dr Austin Mwang

**ID 77**  A Study on EMG Signal Classification for Improving Control Methods for Electric Prosthetic Hands
Benny Choi and Shin Dong Ho, Student and Professor, MY PAUL SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea
Jeongwon Kim, Student, Department of Economics, College of Economics, Nihon University, 3-2 Kanda-Misakicho, Chiyoda-ku, Tokyo, Japan

**ID 76**  Improving Knowledge Distillation Using Data Augmentation
Jun Seung Woo and Shin Dong Ho, Student and Professor, MY PAUL SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

**ID 7**  The Spy Machine
Joey Qiao, A.Y. Jackson Secondary School, Ontario, Canada

**ID 78**  Vehicle Driver Interaction using EMG Signal Analysis
Lee Ji Yun and Shin Dong Ho, Student and Professor, MY PAUL SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea
Jeongwon Kim, Student, Department of Economics, College of Economics, Nihon University, 3-2 Kanda-Misakicho, 1-chome, Chiyoda-ku, Tokyo, Japan

April 4, 2023 (Tuesday) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, TUESDAY  Plenary - Global Engineering Education III  Virtual Room 1

**Dr. Shahrukh A. Irani**
President
Lean and Flexible LLC
Houston, Texas, USA

IS THE IE IN 2023 AN IMAGINARY ENGINEER OR AN INDUSTRIAL ENGINEER?

4:00 – 5:45 pm, TUESDAY  Lean Six Sigma II - Plenary  Virtual Room 2

Session Chair:

4:00 – 4:20 pm, Tuesday, April 4, 2023
Dr. Milad Talebzadehoseini
Visiting Assistant Professor
Department of Data Science and Business Analytics
Florida Polytechnic University
Lakeland, Florida, USA

4:20 – 4:40 pm, Tuesday, April 4, 2023
James J. Cochran, Ph.D.
Associate Dean for Research, Professor of Statistics, and Rogers-Spivey Fellow
University of Alabama
Tuscaloosa, AL, USA

**ID 192**  Numeracy as an Integral Component of Literacy: Developing Numeracy Skills by Playing with Toys
James J Cochran, Associate Dean for Faculty and Research and Professor of Statistics, Culverhouse College of Business, The University of Alabama, Tuscaloosa AL, USA

4:40 – 5:20 pm, Tuesday, April 4, 2023
Donald Kuk
President & CTO
Enterprise Transformation Excellence
New York, United States

4:00 – 5:45 pm, TUESDAY  WIIA Panel Continue  Virtual Room 3

Session Chair:
4:00 – 5:45pm, TUESDAY  
**Supply Chain Competition + Senior Design Competition**  
Virtual Room 4

Session Chair: Dr Norman Kachamba

**SUPPLY CHAIN AND LOGISTICS COMPETITION**

**ID 75  **  
A Review of Supply Chain Opportunities and Challenges Experienced in the African Street Food Industry  
Daniel Lagamang, Tatenda Talent Chingono and Charles Mbohwa, Department of Quality and Operations Management, University of Johannesburg, RSA, South Africa

**ID 151  **  
Assessing the Last Mile delivery logistics of the Zambia Medicines and Medical Supplies Agency  
Ethel Tembo Mwanaumo, Graduate School of Business, University of Zambia, Great East Road, Lusaka, Zambia  
Dryton Kabwe, Post Graduate School, University of Lusaka, Zambia  
Bupe Getrude Mutono Mwanza, Graduate School of Business, University of Zambia, Great East Road, Lusaka, Zambia  
Erastus Misheng’u Mwanaumo, Department of Civil and Environmental Engineering, School of Engineering, University of Zambia, Great East Road, Lusaka, Zambia

**SENIOR DESIGN PROJECT COMPETITION**

**ID 72  **  
Evaluating the Student and Faculty MyMU Portal Interface at Methodist University  
Sarah Davis, Kalkidan Gebrehiwot, Dr. Denise H. Bauer and Dr. Girish Upreti, Department of Engineering, Industrial and Systems Engineering, Methodist University, Fayetteville, North Carolina 28311, United States

---

**April 5, 2023 (Wednesday)**

---

**April 5, 2023 (Wednesday) - Session: 8:00 – 9:40 am**

**8:00 – 9:40 am, WEDNESDAY**  
**Plenary - Industry Solutions I**  
Virtual Room 1

Session Chair: Dr Austin Mwang

8:00 am – 8:20 am (Wednesday, April 5)

Dr. Norman Gwangwava  
Senior Lecturer, Concurrent Engineering, Manufacturing Engineering Design, Manufacturing Information and Database Systems  
Botswana International University of Science and Technology (BIUST)  
Palapye, Botswana

8:20 am – 8:40 am (Wednesday, April 5)

Prof Jackson Phiri  
Senior Lecturer  
Department of Computer Science  
School of Natural Sciences,  
University of Zambia  
Lusaka, Zambia

8:40 am – 9:00 am (Wednesday, April 5)

Dr. Iftekhar Abubakar Karimi  
Chemical and Biomolecular Engineering  
College of Design and Engineering  
National University of Singapore  
4 Engineering Drive 4, E5 #02-09  
Singapore 117585

9:00 am – 9:20 am (Wednesday, April 5)

Dr. Jayakrishna Kandasamy  
Professor  
School of Mechanical Engineering  
Vellore Institute of Technology University  
Vellore, Tamil Nadu, India

9:20 am – 9:40 am (Wednesday, April 5)

Dr. Umar Muhammad Modibbo Fior  
Department of Statistics and Operations Research  
Faculty of Physical Sciences  
Modibbo Adama University, PMB 2076, Yola  
Adamawa State, Nigeria
8:00 – 9:20 am, WEDNESDAY  Global Business Management I - Plenary  Virtual Room 2

Session Chair: Dr. Aftab Alam

8:00 – 8:20 am, Wednesday, April 5

Dr. Aftab Alam
Professor of Marketing
Centre of Management Studies
Jamia Millia Islamia, New Delhi, India

8:20 – 8:40 am, Wednesday, April 5

Samwell Irungu
Managing Director
Pathcare Kenya Limited

8:40 – 9:00 am, Wednesday, April 5

Anouar Hallioui
Researcher in the Department of Industrial Engineering
Center for Doctoral Studies in Sciences and Techniques and Medical Sciences
Faculty of Sciences and Techniques of Fez
Sidi Mohamed Ben Abdellah University (Fez, Morocco)

9:00 – 9:20 am, Wednesday, April 5

9:20 – 4:40 am, Wednesday, April 5

8:00 – 9:30 am, WEDNESDAY  Sustainability Panel  Virtual Room 3

Panel Chair:

Dr. Noha Mostafa
Associate Professor of Industrial Engineering and Management
Mechanical Engineering Department, The British University in Egypt
Cairo, Egypt

Title of Talk: Circular economy for sustainable manufacturing

Panel Speaker I

Dr. Nick Tucker
Associate Professor
University of Lincoln, School of Engineering
Lincoln, UK

Title of Talk: Reducing Single Use Plastics with Alternative Retail Packaging for Mushrooms

Panel Speaker II

Dr. Khulood A. Rambo, PhD, PMP
Global Ambassadors of Sustainability Program Manager
Jeddah, Saudi Arabia

Title of Talk: Opportunities and Challenges in Water-Energy-Food Nexus

8:00 – 9:30 am, WEDNESDAY  Business Management  Virtual Room 4

Session Chair: Dr Marthias Silwamba

ID 109  Digital Transformation Capability Maturity Framework for Digital Audit Readiness in Public Sector (Case Study)
Dian Novita Sari and Novandra Rhezza Pratama, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 133  Small and Medium Scale Farming in Zambia: A competitive Analysis
Maureen Lupunga Malesu, PhD Student, Faculty of Business and Management, Mendel University, Brno, Czech Republic
Pavel Syrovátka, Associate Professor, Faculty of Business and Management, Mendel University, Brno, Czech Republic
Benjamin Kaira, Lecturer, Graduate School of Business, University of Zambia, Lusaka, Zambia

ID 85  The Effect of Exchange Rate of United States Dollar against Zambian Kwacha on Stock Market Capitalization in the Zambian Capital Market
### 8:00 – 9:30 am, WEDNESDAY

#### Energy
Virtual Room 5

**Session Chair: Mr Jessie Nkhowani**

**ID 106** Automated load shedding with remote feeder control system using GSM for ZETDC Network
Takawira Cuthbert Ndjenja, Joseph Mudare, Munyaradzi Munochiveyi and Trymore Pawandiwa, Department of Electrical and Electronics Engineering, University of Zimbabwe (UZ), Zimbabwe
Edward Chikuni, Professor Department of Electrical and Electronics Engineering, Botho University, Botswana

**ID 155** Bagasse and Trash as A Transition Fuel
Moses Jeremiah and 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 154** Biogas Treatment and Upgrading Methods and Applications
Oludolapo Akanni and Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

**ID 158** Fuel Cells Design and Applications 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

**ID 105** Hybridization of a Floating Solar PV with Hydro Power Generation for Water Conservation
Michael Sakala, Energy Lead, WWF Zambia Country Office, Plot 4978, Los Angeles Boulevard. P.O. Box 50551 RW, Long acres, Lusaka Zambia
Uli Goltenbott, Ph.D., Chief Technology Officer, Shizen Energy Ltd, 1-1-6 Arato, Chuo Ward, Fukuoka City, Fukuoka Ohori Bldg. 3F/6F, 810-0062, Japan
Christopher Chisense, Director, Zambezi River Authority Head Office Lusaka P.O. Box 30233, Lusaka Zambia

**ID 126** Hybridization of a Floating Solar PV with Hydro Power Generation for Water Conservation
Michael Sakala, Energy Lead, WWF Zambia Country Office, Plot 4978, Los Angeles Boulevard. P.O. Box 50551 RW, Long acres, Lusaka Zambia
Uli Goltenbott, Ph.D., Chief Technology Officer, Shizen Energy Ltd, 1-1-6 Arato, Chuo Ward, Fukuoka City, Fukuoka Ohori Bldg. 3F/6F, 810-0062, Japan
Christopher Chisense, Director, Zambezi River Authority Head Office Lusaka P.O. Box 30233, Lusaka Zambia

**ID 157** Micro Grids: Design, Operation and Applications
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

#### Operations Excellence
Virtual Room 6

**Session Chair: Mr Gelvazio Sakala**

**ID 29** Design & Analysis Of “Connecting Rod by Finite Element Analysis Using Composite Materials”
Mr. Ramu Muddam (Team Lead) and Mr. Sai Santhosh, Bachelor of Technology, Department of Mechanical Engineering, Vignana Bharathi Institute of Technology, Hyderabad, India

**ID 136** Application of a proactive workplace risk management strategy
Ngaka Mosia Unisa, South Africa

**ID 149** Identification and Evaluation of the Accident Prevention Practices Utilized in the Zambian Construction Industry
Charity Kamwale, Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia
Penjani Hopkins Nyimbili, Lecturer, Department of Geomatic Engineering, University of Zambia, Lusaka, Zambia
Wellington Didibhuku Thwala, Full Professor, Department of Civil Engineering, College of Science, Engineering and Technology, University of South Africa (UNISA), Pretoria, 0003, South Africa
Erastus Misheng’u Mwanaumo, Head of Department, Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia
University of South Africa (UNISA), Pretoria, South Africa

**ID 34** Diagnosis of Maintenance Maturity in an Indonesia’s Coal Mining Contracting Company
Bhetta Age Saputra, Rahmat Nurcahyo and Novandra Rhezza Pratama, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

**ID 55** Planning Guideline for Failure Handling in OnBoard CBTC Device Using RCM (Reliability Center Maintenance) Analysis
ID 50  Policy and Projection of Solar PV Waste Management: Indonesia Case
Nadya Tamara Genta Maharani, Rahmat Nurcahyo and Djoko Sihono Gabriel, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 95  Harmonizing Design, Risk, Metrology and Standardization in Managing the Development of Drugs using Nanotechnology
Shalini Singh, Associate Professor, Department of Operations and Quality Management, Durban University of Technology, KwaZulu-Natal, South Africa
Krishnan Kanny, Director and Professor, Department of Mechanical Engineering, Durban University of Technology, KwaZulu-Natal, South Africa

8:00 – 9:30 am, WEDNESDAY  Onsite Presentations  Onsite Room 7

April 5, 2023 (Wednesday) - Session: 10:00 am – 1:00 pm

Keynote Speakers

10:00  Keynote VI (Day 2 Opening Keynote):

Dr. Charles Mungule
Director, Citizen Economic Empowerment Commission, Lusaka, Zambia

10.40  Keynote VII:

Dr. Michael N. Mulenga
Dean, School of Engineering, University of Zambia, Lusaka, Zambia

11:20  Keynote VIII:

Dr. Piera Centobelli
Professor of Business Economics and Organization Università degli Studi di Napoli Federico II, Italy

12:00  Keynote IX:

Dr. James A. Tompkins
Chairman and Founder, Tompkins Ventures, Chairman Co-Founder Tompkins Leadership, USA

12:40  Keynote X:

Dr. Grace Mukondeleli Kanakana-Katumba
Executive Dean, Faculty of Engineering and the Built environment Tshwane University of Technology, South Africa

1:20  Break
April 5, 2023 (Wednesday) - Session: 2:00 – 3:45 pm

2:00 – 3:45, WEDNESDAY  Plenary - Industry Solutions II  Virtual Room 1

Session Chair: Dr. Moagabo Ragoasha

2:00 pm – 2:20 pm (Wednesday, April 5)

Dr. Funlade Sunmola
Department of Engineering and Technology
School of Physics, Engineering & Computer Science
Centre for Engineering Research
Centre for Future Societies Research
University of Hertfordshire
UK

2:20 pm – 2:40 pm (Wednesday, April 5)

Prof. Emenike C Ejiohu
Director, Africa Center of Excellence for Sustainable Power and Energy Development
Dean, Faculty of Engineering
University of Nigeria

2:40 pm – 3:00 pm (Wednesday, April 5)

Prof Daniel Mashao
University of Johannesburg
South Africa

3:00 pm – 3:20 pm (Wednesday, April 5)

Francis Masawi
Power Systems and Markets Operations Expert
Managing Director, Energy and Information Logistics Group Limited (EiL)
Harare, Zimbabwe

3:20 pm – 3:40 pm (Wednesday, April 5)

Dr. Moagabo Ragoasha
Lecturer
University of Cape Town
Cape Town, Western Cape, South Africa

2:00 – 3:45, WEDNESDAY  Global Business Management II - Plenary  Virtual Room 2

Session Chair: Dr. Shekar Babu

2:00 – 2:20 pm, Wednesday, April 5

Dr. Shijith Nambiar
Assistant Professor
Woosong University
South Korea

2:20 – 2:40 pm, Wednesday, April 5

Dr. & Prof. Rajasekhara Mouly Potluri
Ex-Professor: College of Business & Communication
Al Ghurair University
Dubai, United Arab Emirates

2:40 – 3:00 pm, Wednesday, April 5

3:00 – 3:20 pm, Wednesday, April 5

3:20 – 3:40 pm, Wednesday, April 5

Prof. Shekar Babu, Ph.D.
Founding Head, AMRITA School of Business, Bengaluru
Head, ARISE Lab
AMRITA Vidyapeetham University
Bengaluru, Karnataka, India
Adjunct Faculty, SUNY, Buffalo, USA
### 2:00 – 3:45, WEDNESDAY  
**Industry 4.0 Panel**  
Virtual Room 3

**Panel Chair**

Ts. Dr. Mehran Doulat  
Associate Researcher & Professor  
Director of Asia Pacific Centre for Operational Excellence (APCOE), Malaysia  
Editorial Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

**Panel Speaker I**

Mr. Ahmad Sharainon Md Shaarani  
Managing Director  
MICROCORP SDN BHD  
Selangor, Malaysia

**Panel Speaker II**

Dr. Naim Abdullah Mohd Asmoni  
Associate Professor  
Universiti Teknologi Malaysia  
Malaysian Association of Facility Management (MAFM)

**Panel Speaker III**

Ts. Nur Azrin Ahmad Pakrudin  
Head of Department Healthcare Engineering Services  
KPJ Specialist Hospital  
Johor Bahru, Malaysia

**Topic:** "Digital Facility Management in Relationship with Operational Management"

**Topic:** Procurement Method for Facilities Management Contract in Malaysia: Issues, Impact, and the Way Forward

**Topic:** "Facilities Management in the Private Healthcare Industry; Challenges, Opportunities and Best Practices".

### 2:00 – 3:45, WEDNESDAY  
**Decision Sciences and PM**  
Virtual Room 4

**Session Chair:** Dr Marthias Silwamba

**ID 67**  
A Systemic Framework Analysis for Designing Financial Model in Replace Water Meter Analog to Smart Meter  
Lina Triastuti and Armand Omar Moeis, Industrial Engineering Department, University of Indonesia, Depok, Indonesia

**ID 124**  
Analytical Factors for the South African Foundry Industry: A Benchmarking Study  
Kulani Mageza, Technical Manager, Metal Casting Technology Station, University of Johannesburg, Johannesburg, South Africa  
Boitshoko Kaelo Sedumedi, Post-doctoral researcher, University of Johannesburg, Johannesburg, South Africa  
Xiaowei Pan, Senior Lecture, Metallurgy Engineering Department, University of Johannesburg, Johannesburg, South Africa

**ID 100**  
Analysis of Production Scheduling and Line Balancing for Polycarbonate Lens Production  
Cansa Julisa Muhammad Yusuf and Andri D. Setiawan, Industrial Engineering Department, Faculty of Engineering, Universitas of Indonesia  
Kampus UI, Depok 16424, Indonesia

**ID 15**  
Application of Lean Manufacturing and SLP tools to increase productivity in an SME in the textile sector  
Rafael Labarta-Garcia and Mauricio Vidal-Aseñios, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Peru  
Martin Fidel Collao-Díaz, Research Professor, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Perú

**ID 14**  
Production Model Based on 5S And SLP to Improve Efficiency in A Food Industry Company  
Rodrigo Kohata-Tirado and Santiago Morales-Arce, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Peru  
Martin Fidel Collao-Díaz, Research Professor, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Perú

**ID 150**  
Good Communication Methods & Stakeholder Engagement Resulting in Effective Project Management  
Prof Pule Kholopane and Dr. Thakaramahla Lehohla, Faculty of Engineering and the Built Environment, University of Witwatersrand  
Department of Industrial Engineering, Johannesburg, South Africa, South Africa

**ID 153**  
Impact of Crowdfunding on Real Estate Development: Acuity of Construction Stakeholders in Lagos State, Nigeria  
Sangowawa Olakitan Olusola, Department of Project Management, Bells University of Technology, Ota, Nigeria  
Akinrata Ebunoluwa Bimbola, Department of Quantity Surveying, Bells University of Technology, Ota, Nigeria  
Oyeyipo Opeyemi O., Department of Quantity Surveying, Bells University of Technology, Ota, Nigeria

### 2:00 – 3:45, WEDNESDAY  
**Operations Management / Research**  
Virtual Room 5

**Session Chair:** Prof Nita Sudeko

**ID 35**  
Barge Capacity Plan Analysis for Coal Transshipment Process with Decomposition Forecasting and Fuzzy Logic  
Yeni Nuraeni and Dendi P Istak, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, Jakarta, Indonesia

© IEOM Society International
ID 129  Carbon Dioxide Emission Reduction Strategies within Cement Manufacturing Industry – A Concise Overview
Asser Letsatsi Tau, Emmanuel Innocents Edoun, Charles Mbhowa and Anup Pradhan, Faculty of Engineering and the Built Environment, School of Mechanical Engineering and Industrial Engineering, Department of Quality and Operations Management, University of Johannesburg, 55 Beit St, Doornfontein, Johannesburg, 2028, South Africa

ID 127  Green Cement Manufacturing in South Africa Through Utilization Of Supplementary Cementitious Materials As Guided By SANS 50197-1 2013 For Reduction Of CO2 Emissions - A Supplier Market Assessment Of Available Cement Types
AsserLetsatsi Tau, Emmanuel Innocents Edoun, Charles Mbhowa and Anup Pradhan, Faculty of Engineering and the Built Environment, School of Mechanical Engineering and Industrial Engineering, Department of Quality and Operations Management, University of Johannesburg, 55 Beit St, Doornfontein, Johannesburg, 2028, South Africa

ID 64  The Implementation of Theory of Constraints (TOC) in a South African Mining Environment: A Case Study of a Continuously-run Concentrator Plant
Hilda Kundai Chikwanda, Ph.D., Associate Professor, Department of Engineering and Technology Management, University of Pretoria, Pretoria, South Africa
Sifiso Innocent Mntambo, Instrumentation Engineer (Process Plant), Royal Bafokeng Platinum, South Africa

ID 97  Core Strength development behaviour of organic and inorganic binders with new and reclaimed foundry sand
Livhuwani Libunyu and Farai Chrisphen Banganayi, University of Johannesburg, Metal Casting technology station, department of Metallurgy, faculty of building and engineering, 37 Nind Street, Doornfontein, Johannesburg 2028, South Africa

ID 81  Productivity Improvement Systems in The South African Mineral Exploration Industry
Lucky Makhubedu, University of Johannesburg, South Africa

ID 88  The Impact of Industry 4.0 on Productivity Growth of the Brick Construction Industry in South Africa
Lucky Makhubedu, University of Johannesburg, South Africa

2:00 – 3:45, WEDNESDAY
Onsite Room 7
Session Chair:

April 5, 2023 (Wednesday) - Session: 4:00 – 5:45 pm

4:00 – 5:45, WEDNESDAY  Plenary - Industry Solutions III  Virtual Room 1
Virtual Room 1
Session Chair: Dr. Ali ElKamel, University of Waterloo, Canada

4:00 pm – 4:20 pm (Wednesday, April 5)
Dr. Hossam A. Gabbar, P.Eng.
Distinguished Lecturer IEEE NPSS
Director of Smart Energy Systems Lab
Ontario Tech University
Canada
Title: Resilient Energy and Transportation Infrastructures

4:20 pm – 4:40 pm (Wednesday, April 5)
Dr. Can Li
Assistant Professor
School of Chemical Engineering
Purdue University
West Lafayette, IN 47907, USA

4:40 pm – 5:00 pm (Wednesday, April 5)
Sofia M. Vidalis, Ph.D.
Associate Professor of Civil Engineering
School of Science, Engineering, and Technology
PENN STATE HBG
MIDDLETOWN, PA 17057, USA
Building Information Modeling: A Game Changer for Transportation

5:00 pm – 5:20 pm (Wednesday, April 5)
Greg Hutchins
Principal Engineer of Quality + Engineering, QualityPlusEngineering.com
Founder of Certified Enterprise Risk Manager® (CERM) Academy, 800Compete.com
Portland, Oregon, United States
Artificial Intelligence and Decision Making

5:20 pm – 5:40 pm (Wednesday, April 5)
Dr. Margaret L. Brandeau  
Coleman F. Fung Professor of Engineering  
Professor of Health Policy (by Courtesy)  
Stanford University  
Stanford, California 94305, USA

Presentation Title: AI in Health Care: Promise Meets Reality

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 – 5:45, WEDNESDAY</td>
<td><strong>Global Business Management III - Plenary</strong></td>
<td>Virtual Room 2</td>
<td></td>
</tr>
</tbody>
</table>
| 4:00 – 4:20 pm, Wednesday, April 5 | Je-Taime (Langeveld) van den Heever | General Manager                | Eaucon Water South Africa (PTY) Ltd  
Welkom, Free State, South Africa |
|                  |                                        |                                  | The African Excellence Model and its impact on Organisational Productivity |
| 4:20 – 5:00 pm, Wednesday, April 5 | Dan Cokerell                        | 26-Year Disney Veteran – Former Vice President of Magic Kingdom  
Leadership Coaching Disney Keynote Speaker  
Cockerell Consulting Group  
Orlando, Florida, United States |
| 5:00 – 5:20 pm, Wednesday, April 5 | Dr Norman Kachamba                   | Senior Lecturer                | Lusangu University  
Zambia |
| 5:20 – 5:40 pm, Wednesday, April 5 | Dr. Gaurav Kumar Badhotiya           | Assistant Professor            | Faculty of Management Studies  
Marwadi University Rajkot  
Gujarat, India  
Editorial Board Member of International Journal of Mathematical, Engineering and Management Sciences  
Rajkot, Gujarat, India |

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 – 5:45, WEDNESDAY</td>
<td><strong>Global Engineering Education Panel</strong></td>
<td>Virtual Room 3</td>
<td></td>
</tr>
</tbody>
</table>
|                  |                                        | Engr Dr Paul Amaechi Ozor        | Head, Department of Mechanical Engineering  
University of Nigeria, Nsukka, Nigeria |
|                  |                                        | Panel Speaker I                 |                    |
|                  |                                        | Professor Donald M. Reimer      | Director of Membership and Chapter Development – IEOM Society  
President, The Small Business Strategy Group, Detroit, Michigan, USA  
Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering  
Lawrence Technological University, Southfield, Michigan, USA |
|                  |                                        | Panel Speaker II                |                    |
|                  |                                        | Professor Charles Mbohwa, Ph.D. | Past Professor and Executive Dean, University of Johannesburg, South Africa  
Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe |
|                  |                                        | Panel Speaker III               |                    |
|                  |                                        | Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed. – IEOM President-Elect  
Professor, Industrial Engineering Department  
Engineering School |
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>Evaluating the Conceptual Model of the Fuel Supply Chain from Terminal to Small Scale Fuel Stations using Soft System Methodology Approach</td>
<td>Anggi Manggiasih and Akhmad Hidayatno, Department of Industrial Engineering, University of Indonesia, Depok, West Java, Indonesia</td>
</tr>
<tr>
<td>156</td>
<td>Decentralized and Distributed Power Generation for Sustainable Energy</td>
<td>Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa</td>
</tr>
<tr>
<td>104</td>
<td>Sustainable Airport Planning: Applications for African Airports</td>
<td>Caroline K. Marete, Ph.D., Visiting Assistant professor, School of Aviation and Transportation Technology, Purdue University, West Lafayette, IN, United States</td>
</tr>
<tr>
<td>89</td>
<td>The Effect of Sustainable Human Resources Practices on Employee Retention, Engagement, and Royalty in the Banking Sector in Zambia</td>
<td>Progress Choongo, Ph.D., Senior Lecturer, School of Business, Copperbelt University, Kitwe, Zambia</td>
</tr>
<tr>
<td>84</td>
<td>An Analysis on the Role of Green Public Procurement in Reducing Greenhouse Gas Emissions and Mitigating the Effects of Climate Change</td>
<td>Ernest Mutenda, City of Johannesburg Metropolitan Municipality, Forum 1, Floor 6, Hoofd Street, Braampark, Braamfontein, South Africa</td>
</tr>
<tr>
<td>53</td>
<td>Green Construction Project Management: A Bibliometric Analysis</td>
<td>Gunanandhini T, Sivakumar S, Aswathy Sreenivasan and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India</td>
</tr>
<tr>
<td>58</td>
<td>An Analysis of AI technology and Integration with Power Systems in Hospitals</td>
<td>Lance Roy, University of Johannesburg, South Africa</td>
</tr>
<tr>
<td>52</td>
<td>Artificial Intelligence in Supply Chain Management: Bibliometric Analysis</td>
<td>Shrivathmica C, Anushree R, Aswathy Sreenivasan and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India</td>
</tr>
<tr>
<td>49</td>
<td>Tracking people with AD: Overview and architecture proposal of an integrated solution</td>
<td>Kawtar Retmi, Institute of Biological Sciences, ISSB-P, Mohamed VI Polytechnic University (UM6P), 43 150 Benguerir, Morocco, Fatima Ouzayd, Smart Systems Laboratory, Rabat IT Center, ENSIAS, University Mohamed V, Rabat, Morocco, Hamid Ech-Cheikh, Naval Engineering department, Higher Institute of Maritime Studies, Casablanca, Morocco</td>
</tr>
<tr>
<td>68</td>
<td>Voltage Event Signature Classification for Power Quality Disturbance Identification</td>
<td>Buchiiza Kumwenda, Lecturer, School of Engineering, Electrical Department, The Copperbelt University, Kitwe, Zambia</td>
</tr>
<tr>
<td>48</td>
<td>Pivotal Relationship between Service Delivery Automation and Job Losses: A Case of the South Africa banking industry</td>
<td>Save Akilimalissiga, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa, Nita Sukdeo, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa</td>
</tr>
<tr>
<td>103</td>
<td>Appraisal of Job Satisfaction of Multiskilled Quantity Surveyors in Nigerian Consultancy Firms</td>
<td></td>
</tr>
</tbody>
</table>
ID 125  Adopting Lean Principles for Cost Saving and Waste Minimization in Manhole Construction and Backfilling Process
Hamad Nabeel, Ahmed Eltagy, Khaled Hussein, Freh Alsalamah and Galal M. Abdella, Mechanical and Industrial Engineering Department College of Engineering, Qatar University, Doha, Qatar

ID 47   Work Simplification in South African Ports to Improve Output
Sonwabo M. Nkosana, Bheki Makhanya and Jan-Harm Pretorius, Postgraduate School of Engineering Management, University of Johannesburg Gauteng, South Africa

ID 102  Engineering Education and The Industrial Operations Management
Ogbuefi Uche C., Department of Electrical Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria
Africa Centre of Excellence for Sustainable Energy and Power Development (ACESPED) UNN, Nigeria

ID 134  The impact of computing technology on the future of Industrial Engineering – [A South African perceptive in the Universities of Technology]
Ngaka Mosia Unisa, South Africa

4:00 – 5:45, WEDNESDAY
Industry 4.0
Onsite Room 7

Session Chair:

Dexter Adamson Njuka, Institute of Distance Education, University of Zambia, Lusaka, Zambia
Jackson Phiri, School of Natural Sciences, Department of Computer Sciences, University of Zambia, Lusaka, Zambia

April 6, 2023 (Thursday)

April 6, 2023 (Thursday) - Session: 8:00 – 9:30 am

8:00 – 9:20, THURSDAY
Global Supply Chain and Logistics I - Plenary
Virtual Room 1

Session Chair:

8:00 am – 8:20 am (Thursday, April 6):
Dr. Jabir Arif
Associate Professor
Sidi Mohamed Ben Abdellah University
Morocco

8:20 am – 8:40 am (Thursday, April 6):
Prof Douglas Boateng
Professor Extraordinarius, Supply and Value Chain Management
Graduate School of Business Leadership-UNISA SBL
South Africa

8:40 am – 9:00 am (Thursday, April 6)
Elizabeth Kwateng
Rotaract President
Ghana

9:00 am – 9:20 am (Thursday, April 6)
Emanuel Zeferino
Project Manager at Sunstone Logistics Systems / Researcher at
Tshwane University of Technology
South Africa

9:20 am – 9:40 am (Thursday, April 6)
Dr. Bob Nanthakorn
Research Associate
TBS Thammasat Business School
8:00 – 9:20, THURSDAY
Global Data Analytics I - Plenary
Virtual Room 2

Session Chair: Dr. Oludolapo Akanni Olanrewaju

8:00 – 8:20 am, Thursday, April 6, 2023
Commander (Dr.) Pallav Prakash
Indian Navy (Retired)
India

8:20 – 8:40 am, Thursday, April 6, 2023
Dr Michael Ajayi
Faculty Head: Information Technology
CTU Training Solutions
Johannesburg, Gauteng, South Africa

8:40 – 9:00 am, Thursday, April 6, 2023
Pratibha M.
Senior Manager, Hybrid Cloud Platform & AI
IBM
Bengaluru, Karnataka, India

9:00 – 9:20 am, Thursday, April 6, 2023
Dr. Sailesh Iyer
Professor of CSE/IT, RSE
Rai University
Ahmedabad, India

9:20 – 9:40 am, Thursday, April 6, 2023
Dr. Oludolapo Akanni Olanrewaju
Department of Industrial Engineering
DUT
South Africa

8:00 – 9:20, THURSDAY
Project Management Panel
Virtual Room 3

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

Panel Speaker I
Dr. Mohammad Ichsan, Dipl.-Ing., MT, PMP, PMI-SP, PMO-CP
Faculty, Binus Business School
PM Scholar and PM Practitioner
Jakarta, Indonesia

Panel Speaker II
Uzair Ahmed Qazi
Assistant Manager Operational Excellence
Indus Pharma (Pvt.) Ltd.
Karachi, Sindh, Pakistan

Panel Speaker III
Engr. AKM Mizanur Rahman
Assistant General Manager
Head of Development
RFL Electronics Ltd sister concern of RFL Group
Dhaka, Bangladesh

Panel Speaker IV

Yasar Ajlouni
Project Management Advisor
Kasih Food Production Co.
Amman, Jordan

Panel Speaker V

Dr. Olufemi Adetunji
Associate Professor
Department of Industrial Engineering
University of Pretoria/Universiteit van Pretoria
Pretoria, Gauteng, South Africa

8:00 – 9:30, THURSDAY   Transportation and Traffic   Virtual Room 4
Session Chair: Dr Natalie Skeepers

ID 66  Shortage and Dead Stock Mitigation in Heavy Equipment Spare Parts Warehouse Using Integration of ABC Analysis Methods, Analytic Hierarchy Process and EOQ
Dikky Putra Rupawan and Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 57  Study of Purchase Intention Factors on Private Battery Electric Vehicles in Greater Jakarta Indonesia
Paulus H. Wijayanto and Andri D. Setiawan, Industrial Engineering Department, University of Indonesia, Depok, Indonesia

ID 130  Dependent and Independent Variables for Exploratory Analysis of Road Traffic Accidents
Hamza Kharya, Professor Aouatif Amine and Bouchra Nassih, National School of Applied Sciences, University of Ibn Tofail, Kenitra, Morocco

ID 56  Evaluating the Current Policies of Transit System-Based Transportation Development in Jakarta: A Systemic Framework
Siti Alfiyah and Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 65  Metaheuristic Optimization for Vehicle Routing Problem with Time Windows (VRPTW)
Triani Aulya Fitri Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering University of Indonesia Depok, West Java, Indonesia

ID 69  Optimization of Crew Boat Routing for Support Routine Operation of Offshore Oil and Gas Production Using Combination of Genetic Algorithm and Ant Colony Optimization
 Firman Santya Budi and Armand Omar Moeis, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

8:00 – 9:30, THURSDAY   Lean, Quality and Six Sigma   Virtual Room 5
Session Chair: Dr Austin Mwang

ID 12  Process Improvement through Single Minute Exchange of Dies for Reduction of Changeover Time
Mendon Dewa, Senior Lecturer, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 16  The implementation of Six Sigma and DMAIC methodology to increase productivity and meet customer requirements
Prenisha Govender, Process Engineer, Toyota Boshoku South Africa, Durban, South Africa
Dr Mendon Dewa, Durban University of Technology, Durban, South Africa

ID 46  The lean manufacturing discipline within the handicraft industry
Nada Nejjari, Faculté des sciences et techniques, Morocco

ID 5  A Production System Analysis to Reduce the Cost of Non-Conformity in a Paper Bag Process using Six Sigma DMAIC Methodology
Hazel A. Caparas, Bulacan State University, Industrial Engineering Department, City of Malolos, Bulacan, Philippines
PUP Open University System, Manila, Philippines

ID 11  An Assessment of The Use of Quality 4.0 Trends in Higher Education Institutions in South Africa
Eric Mikobi Bakama, Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa
Nita Inderlal Sukdeo, Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa
Genevieve Bakam Fotso, Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 94  Quality Management in Apparel Manufacturing Towards an Improvement in Reworks
Walter Chipambwa, School of Art and Design, Chinhoyi University of Technology, Chinhoyi, Zimbabwe
Kelvin Dekesa, School of Art and Design, Chinhoyi University of Technology, Chinhoyi, Zimbabwe
Denford F. Chisosa, School of Art and Design, Chinhoyi University of Technology, Chinhoyi, Zimbabwe
8:00 – 9:30, THURSDAY
Operations Excellence
Virtual Room 6

Session Chair: Dr. Tawanda Mushiri

ID 177  Iot Based Mechanized Robot: An Integrated Process Involving Multipurpose Control, Automation and Surveillance System
Abdullah Ali Mamun Anik, Military Institute of Science and Technology, Dhaka, Bangladesh
Mosammam Sadia Akter Moon, University of Chittagong, Bangladesh
Shuvodip Adhikary, Military Institute of Science & Technology, Dhaka, Bangladesh
Md. Istiak Habib, Department of Industrial and Production Engineering, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh
Abdul Gafur, Pilot Plant and Process Development Centre, BCSIR, Pilot Plant and Process Development Centre, BCSIR, Bangladesh

ID 178  An Assessment of the Effect of Corporate Social Responsibility on the Competitiveness of SMEs in the Retail Sector in Ndola District
Christine Nankamba Lesa Shikaputo, Head of Department – Department of Operations and Supply Chain Management, School of Business, Copperbelt University, Kitwe, Zambia
Grant Sikazwe, MBA Student, School of Graduate Studies, Copperbelt University, Kitwe, Zambia
Progress Choongo, Senior Lecturer, School of Business, Copperbelt University, Kitwe, Zambia

ID 188  Improvement of On-Time Delivery in a Semiconductor Company in the Philippines: A Case Study
Katrina Laurain Gaspar, RChE, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines
Ma. Cecilia C. Carlos, Registrar, IE Certification Board, Philippine Institute of Industrial Engineers (PIIE), Makati, Philippines

ID 189  The effect of Exchange Rate on Stock Market Capitalisation in the Zambian Capital Market
Obed Shiyunga, Student Researcher (PhD), Graduate School of Business, University of Zambia, Lusaka, Zambia

8:00 – 9:30, THURSDAY
Onsite Room 7

Session Chair:

April 6, 2023 (Thursday) - Session: 10:00 am – 1:00 pm

Keynote Speakers

10:00  Keynote XI (Day 3 Opening Keynote):

Dr. Vassilis C. Gerogiannis, Ph.D.
Professor and Head, Department of Digital Systems, University of Thessaly, Larissa, Greece

10.40  Keynote XII:

Dr. Clinton AIGBAVBOA
Professor, Dept. of Construction Management and Quantity Surveying
University of Johannesburg, RSA

11:20  Keynote XIII:

Mr. Lukonga Lindunda
Co-Founder/Executive Director, Bonghive Group, Lusaka, Zambia

12:00  Keynote XIV:

Mr. Steven Dihwa
Coordination Centre Executive Director Southern African Power Pool (SAPP) Harare, Zimbabwe

12:40  Keynote XV:

Lerato Nyama
Quality Management & Internal Governance Director, Siemens Digital Industries, Johannesburg, Gauteng, South Africa
April 6, 2023 (Thursday) - Session: 2:00 – 3:45 pm

### 2:00 – 2:45, THURSDAY  
**Global Supply Chain and Logistics II - Plenary**  
Virtual Room 1

**Session Chair:** Dr. Austin Mwang

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm – 2:20 pm</td>
<td>Dr. Nita Sukdeo</td>
<td>University of Johannesburg</td>
</tr>
<tr>
<td></td>
<td>Associate Professor and Head Department of Quality and Operations Management</td>
<td>Gauteng, South Africa</td>
</tr>
<tr>
<td>2:20 pm – 2:40 pm</td>
<td>Sbai Nouçaiba</td>
<td>SIST British Education</td>
</tr>
<tr>
<td></td>
<td>Senior Lecturer</td>
<td>Rabat, Morocco</td>
</tr>
<tr>
<td>2:40 pm – 3:00 pm</td>
<td>Syimun Hasan Mehidi, CSCM™</td>
<td>WALTON</td>
</tr>
<tr>
<td></td>
<td>Process Engineer (Refrigerator)</td>
<td>Dhaka, Bangladesh</td>
</tr>
<tr>
<td>3:00 pm – 3:20 pm</td>
<td>Dr. Hicham SARIR</td>
<td>ENSA Tétouan</td>
</tr>
<tr>
<td></td>
<td>Professor HDR of Supply Chain Management</td>
<td>Tétouan, Morocco</td>
</tr>
<tr>
<td>3:20 pm – 3:40 pm</td>
<td>Lee Dunn</td>
<td>Blink Marketing Logistics</td>
</tr>
<tr>
<td></td>
<td>Chief Operating Officer</td>
<td>Toledo, Ohio, USA</td>
</tr>
</tbody>
</table>

**Demand-driven material requirements planning (DDMRP) methodology**

### 2:00 – 2:45, THURSDAY  
**Global Data Analytics II - Plenary**  
Virtual Room 2

**Session Chair:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm – 2:20 pm</td>
<td>Benjamin P. Taylor</td>
<td>RedQuadrant</td>
</tr>
<tr>
<td></td>
<td>Managing Partner</td>
<td>London, England, United Kingdom</td>
</tr>
<tr>
<td></td>
<td>&amp; Chief Executive</td>
<td>Public Service Transformation Academy</td>
</tr>
<tr>
<td>2:20 pm – 2:40 pm</td>
<td>Aamir Hussain</td>
<td>king Fahd University of Petroleum &amp; Minerals – KFUPM</td>
</tr>
<tr>
<td></td>
<td>Industrial and system engineering</td>
<td>Dhahran, Saudi Arabia</td>
</tr>
<tr>
<td>2:40 pm – 3:00 pm</td>
<td>Dr. Rafiuddin Ahmed</td>
<td>Associate Professor of Marketing</td>
</tr>
</tbody>
</table>
2:00 – 2:45, THURSDAY
Lean Six Sigma Panel
Virtual Room 3

Panel Chair
Sadique Salim
Vice President, Bangladesh
Six Sigma Management Institute
Lean Six Sigma Master Black Belt
Dhaka, Bangladesh

Panel Speaker I
Johan Deger
Global Category Manager
Alfa Laval
Lund, Skåne, Sverige, Sweden

Panel Speaker II
Dumidu Ranaweera
Global Director APAC, Middle East, Africa & Oceania – Dr Mikel J Harry Six Sigma Management Institute Inc.
Chief Executive Officer – Lean Six Sigma Asia LLC.
Sri Lanka

Panel Speaker III
Michael Connell
CEO
MICOMA Enterprises
Baltimore, Maryland, USA

Panel Speaker IV
Rizwan Elias
General Manager, Manufacturing
RegenOrganics
Nairobi, Kenya
Experienced Six Sigma Practitioner

Panel Speaker V
Daniel Santillanes Loredo, MBB, MBA
Regional Partner Six Sigma Management Institute México
Independent Consultant and Lean Six Sigma Master Black Belt
Mexico City, Mexico

Panel Speaker IV
Bob Scanlon
Regional Partner at Six Sigma Management Institute
ID 13 Industry 4.0 Implementation Challenges in an Unfacilitated Environment: A Case of Manufacturing Industries in Zambia
Tola Toyin Afolabi and Levy Siaminwe, Department of Mechanical Engineering, School of Engineering, University of Zambia, Lusaka, Zambia
Charles Mbohwa, Visiting Professor, Department of Quality and Operations Management, P.O Box APB 524, Bunting Road Campus, University of Johannesburg, South Africa

ID 30 Framework for Implementation of Industry 4.0 Tools and Technologies in Electrical Power Generation Plants Asset Management
Tsitsi Mashupeka, Meng (Research) Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa
Professor Stephen Matope, Associate Professor Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

ID 79 Design of a firefighting drone-based system for quenching structural fires
Nimrod Makhalima, University of Zimbabwe, Faculty of Engineering and the Built Environment, University of Zimbabwe, P.O Box MP167, Mt Pleasant, Harare, Zimbabwe
Tawanda Mushiri, University of Zimbabwe, Department of Biomedical Informatics and Biomedical Engineering, Faculty of Medicine, and Health Sciences, P. O Box MP167, Mt Pleasant, Harare, Zimbabwe
Biomedical Engineering and Healthcare Technology (BEAHT) Research Centre, Faculty of Health Sciences, University of Johannesburg, South Africa
Charles Mbohwa, Visiting Professor, Department of Quality and Operations Management, P.O Box APB 524, Bunting Road Campus, University of Johannesburg, South Africa

ID 82 Design of an Intelligent Robotic Tool for Intracranial Haemorrhage Detection at Road Traffic Accident Scenes
Tinotenda Joramu, Department of Industrial and Mechatronics Engineering, Faculty of Engineering and the Built Environment, University of Zimbabwe, Harare, Mt Pleasant, 630 Churchill Avenue, Zimbabwe
Tawanda Mushiri, University of Zimbabwe, Department of Biomedical Informatics and Biomedical Engineering, Faculty of Medicine, and Health Sciences, P. O Box MP167, Mt Pleasant, Harare, Zimbabwe
Biomedical Engineering and Healthcare Technology (BEAHT) Research Centre, Faculty of Health Sciences, University of Johannesburg, South Africa
Charles Mbohwa, Visiting Professor, Department of Quality and Operations Management, P.O Box APB 524, Bunting Road Campus, University of Johannesburg, South Africa

ID 83 Sanitization and Disinfection robot that kills anti-biotic resistant bacteria
Takudzwa Zireva, University of Zimbabwe, Faculty of Engineering and the Built Environment, University of Zimbabwe, P.O Box MP167, Mt Pleasant, Harare, Zimbabwe
Tawanda Mushiri, University of Zimbabwe, Department of Biomedical Informatics and Biomedical Engineering, Faculty of Medicine, and Health Sciences, P. O Box MP167, Mt Pleasant, Harare, Zimbabwe
Biomedical Engineering and Healthcare Technology (BEAHT) Research Centre, Faculty of Health Sciences, University of Johannesburg, South Africa
Charles Mbohwa, Visiting Professor, Department of Quality and Operations Management, P.O Box APB 524, Bunting Road Campus, University of Johannesburg, South Africa

ID 17 Inventory Policy for the Demand of the Main Products: Case of a Peruvian Grocery Store
Joshep Delfín Mauricio Espinoza and Emilio Huaynate Ricaldi, Thesis writers, Universidad de Lima, Lima, Perú
Marco Fernando Ruiz Ruiz, Professor, Department of Industrial Engineering, Universidad de Lima, Lima, Perú

© IEOM Society International
4th African IEOM Conference
Farai Banganayi, Contract Station Engineer, Faculty of Engineering and Built Environment, Sapienza – University of Johannesburg-South Africa
Station Engineer, Metal Casting Technology Station, South Africa
Livhuwani Libunyu, Contract; Technologist, Faculty of Engineering and Built Environment, Sapienza – University of Johannesburg-South Africa
Technologist, Metal Casting Technology Station, South Africa
Kasongo Nyembwe, Contract Professor, Faculty of Engineering and Built Environment, Sapienza – University of Johannesburg-South Africa
Vice Dean, Faculty of Engineering and Built Environment, South Africa

ID 123  Investigation of Customer Responds to Service Digitalization at Teller Counter in Banking Companies
Joshua and Rahmat Nurcahyo, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 101  Engaging Visual Strategy for Juice Packaging Label Design to Influence Consumers’ Buying Behaviour
Sabandy Nuckcherry Shabnam, University of Technology, Mauritius

2:00 – 3:45, THURSDAY
Logistics
Virtual Room 6
Session Chair: Dr Matthias Silwamba

ID 173  Shortage and Dead Stock Mitigation in Heavy Equipment Spare Parts Warehouse Using Integration of ABC Analysis Methods, Analytic Hierarchy Process and EOQ
Dikky Putra Rupawan, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia
Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 174  E-Governance: Empowering the Homestay Community and Business Sustainability
Majidah Majidah, Bachelor in Accounting Studies, School of Economics and Business, Telkom University, Bandung, Indonesia
Cahyaningsih Cahyaningsih, Bachelor in Accounting Studies, School of Economics and Business, Telkom University, Bandung, Indonesia
Hetti Hidayati, School of Applied Science, Telkom University, Bandung, Indonesia

ID 175  Planning Guideline for Failure Handling in OnBoard CBTC Device Using RCM (Reliability Center Maintenance) Analysis
Widhi Bayu Aji and Maya Arlini Puspasari, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 176  Evaluating the Current Policies of Transit System-Based Transportation Development in Jakarta: A Systemic Framework
Siti Alfiyah and Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

2:00 – 3:45, THURSDAY
Onsite Room 7
Session Chair:

April 6, 2023 (Thursday) - Session: 4:00 – 5:45 pm

4:00 – 5:45, THURSDAY
Global Supply Chain and Logistics III – Plenary
Virtual Room 1
Session Chair: Mr. Lawrance Seseni

4:00 pm – 4:20 pm (Thursday, April 6)

Professor David Pooe
Full Professor, Department of Business Management
Heads the Masters & Doctoral portfolio in the department
University of Johannesburg
South Africa

From efficient to resilient supply chains – Implications for enterprise development

4:20 pm – 4:40 pm (Thursday, April 6)

Dr Shem Sikombe
Lecturer
Copperbelt University
Zambia

4:40 pm – 5:00 pm (Thursday, April 6)

Jeffrey Ehikioya Itepu, BSc
Co-Founder of Abode
Lagos, Nigeria

5:00 pm – 5:20 pm (Thursday, April 6)

Dr. Matthew Quayson
Lecturer, Department of Logistics and Supply Chain Management
Ho Technical University, Ho. Ghana

Title of Talk: Technology for Social Good Foundations: A Perspective from the Smallholder Farmer in Sustainable Supply Chains

5:20 pm – 5:40 pm (Thursday, April 6)
IEOM Zambia Conference  
PARALLEL SESSIONS  
April 4-6, 2023

Mr. Lawrance Seseni  
Lecturer, Operations Management  
UJ, South Africa

4:00 – 5:45, THURSDAY  
Global Data Analytics III - Plenary  
Virtual Room 2

Session Chair: Dr. Hayder Zghair

4:00 – 4:20 pm, Thursday, April 6, 2023

Dr. Elif Kongar  
Professor, Economics & Business Analytics Department  
University of New Haven  
West Haven, Connecticut, USA

4:20 – 4:40 pm, Thursday, April 6, 2023

Kshitija Joshi, PhD  
Vice President (Data Science)  
Group Data Office  
Nomura International  
London, United Kingdom

4:40 – 5:00 pm, Thursday, April 6, 2023

Ghulam Mustafa  
Corporate Trainer  
Datalytics Consultant  
Lahore, Punjab, Pakistan

5:00 – 5:20 pm, Thursday, April 6, 2023

Dr. Veena Bansal  
Associate Professor  
Department of Industrial & Management Engineering  
Indian Institute of Technology Kanpur  
Kalyanpur, Kanpur -208016, India

5:20 – 5:40 pm, Thursday, April 6, 2023

Dr. Hayder Zghair  
Assistant Professor of Industrial Engineering  
Director of Industrial Engineering Development  
College of Science and Engineering  
Southern Arkansas University  
Magnolia, Arkansas 71753

4:00 – 4:45, THURSDAY  
Supply Chain and Logistics Panel  
Virtual Room 3

Session Chair:

Panel Chair:

Dr. Abdelaziz Berrado  
Professor and Academic Coordinator  
Department of Industrial Engineering  
The Ecole Mohammadia d’Ingénieurs (EMI)  
School of Engineering  
Mohammed V University  
Rabat, Morocco

Panel Speaker I

Prof Zoubida Chorfi  
Equipe de recherche AMIPS  
Ecole Mohammadia d’Ingénieurs  
Mohammed V University  
Rabat, Morocco

Panel Speaker II

Mohamed-Iliasse Mahraz  
Département Génie industriel  
Ecole Mohammadia d’Ingénieurs  
Mohammed V University
Panel Speaker III
Sbai Nouçaiba
Senior Lecturer
SIST British Education
Rabat, Morocco

4:00 – 5:45, THURSDAY
Data Analytics
Virtual Room 4

ID 33 Investigation of Significance of Independent Six-individual Characteristic Factors and Workplace Temperature on Safe Weight of Lift Model
Omotunde Muyiwa, Engineer, Industrial & Production Engineering, University of Ibadan, Ibadan, Nigeria

ID 61 Exploring viable funding models and alternatives for sustainable provision of municipal free Wi-Fi in South African cities: some thoughts, policy options and reflections
Tlou Phillemon Mathane, PhD Candidate, University of Johannesburg, South Africa
Prof. Trynos Gumbo, University of Johannesburg, Department of Urban and Regional planning, Office 6062, Sixth Floor, John Orr Building, Beit and Siemert Street, 2028. Johannesburg, South Africa

ID 60 Towards a conceptual framework for sustainable municipal free Wi-Fi interventions in South Africa: A City of Tshwane Case Study
Tlou Phillemon Mathane, PhD Candidate, University of Johannesburg, South Africa
Prof. Trynos Gumbo, University of Johannesburg, Department of Urban and Regional planning, Office 6062, Sixth Floor, John Orr Building, Beit and Siemert Street, 2028. Johannesburg, South Africa

ID 96 Towards a Lightning Detection and Warning System in Zambia
Shadreck Mpanga, Mabvuto Mwanza and Ackim Zulu, School of Engineering, University of Zambia, Lusaka, Zambia

ID 99 Score Card Utility Matrix for Prioritization of Asphalt Paved Road Maintenance Projects
Kelvin Agabu Lungu, Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia
Chabota Kaliba, Ph.D., Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia
Erastus Mwanaumo, Ph.D., Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia
Pumza Mpundu, School of Civil Engineering, University of Leeds, Leeds, UK

4:00 – 5:45, THURSDAY
Manufacturing
Virtual Room 5

ID 135 Application of Innovation in Productivity Improvement
Ngaka Mosia Unisa, South Africa

ID 9 Development of Inventory Model for Perishable Product with Dynamic Pricing
Teodosius Raditya Ananto and Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya 60111, Indonesia

ID 91 Multi-product inventory modeling with demand forecasting
José Antonio Taquia Gutiérrez, Universidad de Lima, Instituto de Investigación Científica, Carrera de Ingeniería Industrial, Lima, Perú
Angie Valencia Olivaress and Axel Mendoza Bojórquez, Universidad de Lima, Carrera de Ingeniería Industrial, Lima, Perú

ID 93 Overall Equipment Effectiveness-driven Process Improvement Through Total Productive Maintenance: Role of Equipment Flexibility
Rio Prayoga Kusumo and Dendi P. Ishak, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia

ID 10 Process Improvement through Built-In-Quality in Automotive Component Manufacturers
Edward Sontaga Makua, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
Mendon Dewa, Lecturer, Durban University of Technology, Durban, South Africa

ID 92 Re-engineering of Gold Precious Metal Production Process in Mining Companies
Achmad Gunawan Wibisono, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

4:00 – 5:45, THURSDAY
Operations Management
Virtual Room 6

ID 159 Score Card Utility Matrix for Prioritization of Asphalt Paved Road Maintenance Projects
Kelvin Agabu Lungu, Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia
Chabota Kaliba, Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia  
Erastus Mwanaumo, Department of Civil and Environmental Engineering, University of Zambia, Lusaka, Zambia  
Pumza Mpundu, School of Civil Engineering, University of Leeds, Leeds, UK

ID 171  The Implementation of Theory of Constraints (TOC) in a South African Mining Environment: A Case Study of a Continuously-run Concentrator Plant  
Hilda Kundai Chikwanda, Department of Engineering and Technology Management, University of Pretoria, Pretoria, South Africa  
Siliso Innocent Mntambo, Instrumentation Engineer (Process Plant), Royal Bafokeng Platinum, South Africa

ID 172  Experimental Modeling and Simulation of Zero-Surface Temperature of Controlled Water Jet Impingement Cooling System for Hot-Rolled Steel Plates  
Thomas Okechukwu, Enugu State University of Science and Technology, Nigeria

ID 194  Small and Medium Scale Farming in Zambia: A Competitive Analysis  
Maureen Lupunga Malesu, PhD Student, Faculty of Business and Management, Mendel University, Brno, Czech  
Pavel Syrovátka, Associate Professor, Faculty of Business and Management, Mendel University, Brno, Czech  
Benjamin Kaira, Lecturer, Graduate School of Business, University of Zambia, Lusaka, Zambia

4:00 – 5:45, THURSDAY  
Onsite Room 7

Session Chair:

April 6, 2023 (Thursday) - Session: 6:00 – 7:00 pm  
Conference Awards Ceremony Virtual

IEOM Submission, Review and Registration System is Supported by:

https://x-cd.com/

X-CD Technologies has been supporting the association and conference industry since 1995. X-CD software modules are proprietary and developed in-house which gives the flexibility to make customized changes to meet all of X-CD’s clients’ unique needs.

14th International Conference on Industrial Engineering and Operations Management  
February 12-14, 2024, Dubai, United Arab Emirates (UAE)  
Venue: Hyatt Regency Dubai  
Host: Khalifa University, Abu Dhabi  
http://ieomsociety.org/dubai2024/

Conference Chair  
Dr. Mohammed Omar  
Professor and Chair  
Department of Industrial and Systems Engineering  
Khalifa University, Abu Dhabi, UAE
IEOM Student Chapter at De La Salle University, Manila City, Philippines

IEOM Student Chapter at Adamson University, Manila, Philippines
<table>
<thead>
<tr>
<th>Country</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algeria</td>
<td>Adrar University</td>
</tr>
<tr>
<td>Australia</td>
<td>Queensland University of Tech., Brisbane, UNSW-Canberra</td>
</tr>
<tr>
<td>Bahrain</td>
<td>University of Bahrain</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>Ahsanullah University of Sci &amp; Tech (AUST), Bangladesh University of Management (BIM)</td>
</tr>
<tr>
<td></td>
<td>Bangladesh University of Textiles (BUTEK), BUET, CUET</td>
</tr>
<tr>
<td></td>
<td>Daffodil International University (DIU), DUET, Gazipur</td>
</tr>
<tr>
<td></td>
<td>European University of Bangladesh</td>
</tr>
<tr>
<td></td>
<td>International Islamic University of Chittagong</td>
</tr>
<tr>
<td></td>
<td>Islamic University of Technology (IUT)</td>
</tr>
<tr>
<td></td>
<td>IUBAT</td>
</tr>
<tr>
<td></td>
<td>Jessore University of Science and Technology</td>
</tr>
<tr>
<td></td>
<td>Khulna University (KU)</td>
</tr>
<tr>
<td></td>
<td>KUET</td>
</tr>
<tr>
<td></td>
<td>Military Institute of Science and Technology</td>
</tr>
<tr>
<td></td>
<td>National Institute of Textile Eng &amp; Res (NITER)</td>
</tr>
<tr>
<td></td>
<td>Northcap University</td>
</tr>
<tr>
<td>Botswana</td>
<td>University of Botswana</td>
</tr>
<tr>
<td>Brazil</td>
<td>Federal University of Sao Carlos (UFSCar)</td>
</tr>
<tr>
<td></td>
<td>Federal University of Santa Catarina (UFSC)</td>
</tr>
<tr>
<td></td>
<td>Kelvin Institute of Technology (KITU), Sao Paulo (USP) – Sao Carlos</td>
</tr>
<tr>
<td></td>
<td>Sao Paulo State University (SPSU), Sorocaba</td>
</tr>
<tr>
<td></td>
<td>FACENS University, Sorocaba</td>
</tr>
<tr>
<td>Canada</td>
<td>Concordia University</td>
</tr>
<tr>
<td></td>
<td>Humber Institute of Tech and Adv Learning</td>
</tr>
<tr>
<td></td>
<td>Polytechnic Montreal</td>
</tr>
<tr>
<td></td>
<td>University of New Brunswick at Fredericton</td>
</tr>
<tr>
<td></td>
<td>University of Waterloo</td>
</tr>
<tr>
<td>Colombia</td>
<td>Fundación Univ. Tecn. Comfenalco, Cartagena, Bolivar</td>
</tr>
<tr>
<td></td>
<td>University of Rosario, Bogota</td>
</tr>
<tr>
<td></td>
<td>University of Quindio</td>
</tr>
<tr>
<td></td>
<td>Universidad de San Buenaventura, Cali, Valle de Yucatan</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>University of Costa Rica</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>University of West Bohemia, Pilsen</td>
</tr>
<tr>
<td>Ecuador</td>
<td>Technical University of Ambato</td>
</tr>
<tr>
<td>Egypt</td>
<td>Zagazig University</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>Bahir Dar Institute of Technology</td>
</tr>
<tr>
<td>Finland</td>
<td>University of Vaasa</td>
</tr>
<tr>
<td>France</td>
<td>IESEG School of Management</td>
</tr>
<tr>
<td>Ghana</td>
<td>Lorraine University, Metz</td>
</tr>
<tr>
<td></td>
<td>Technological Education Institute (TEI), Thessaly, Larissa</td>
</tr>
<tr>
<td>Greece</td>
<td>Accra Technical University</td>
</tr>
<tr>
<td>Haiti</td>
<td>Université Quisquepa</td>
</tr>
<tr>
<td>India</td>
<td>College of Engineering and Technology, Bhubaneswar, Odisha, India</td>
</tr>
<tr>
<td></td>
<td>College of Engineering Guindy, Chennai</td>
</tr>
<tr>
<td></td>
<td>Guru Nanak Dev Engineering College</td>
</tr>
<tr>
<td></td>
<td>Hasanabadi Petroleum Univ. – Gujarat</td>
</tr>
<tr>
<td></td>
<td>P.O.A. College of Engineering, Gujran</td>
</tr>
<tr>
<td></td>
<td>Vellore Institute of Technology</td>
</tr>
<tr>
<td></td>
<td>Vidya Jyothi Institute of Technology, Hyderabad</td>
</tr>
<tr>
<td></td>
<td>Universal College of Engineering &amp; Technology (UCEIT), Dokkapedu, Guntur, Andhra Pradesh</td>
</tr>
<tr>
<td></td>
<td>National Institute of Technology (NIT), Warangal</td>
</tr>
<tr>
<td></td>
<td>Jawaharlal Nehru Technological University Hyderabad (JNTUH)</td>
</tr>
<tr>
<td></td>
<td>BITS, India</td>
</tr>
<tr>
<td></td>
<td>Biria Institute of Tech &amp; Sciences (BITS Pilani)</td>
</tr>
<tr>
<td></td>
<td>Amrita School of Business – Bangalore</td>
</tr>
<tr>
<td></td>
<td>Amrita School of Arts and Sciences, Coimbatore</td>
</tr>
<tr>
<td></td>
<td>Amrita School of Business, Coimbatore</td>
</tr>
<tr>
<td>Greece</td>
<td>Athens University</td>
</tr>
<tr>
<td></td>
<td>Mahant Battachar Singh College of Engineering and Technology, Jammu</td>
</tr>
<tr>
<td></td>
<td>Baba Bandh Singh Bahadur Eng College</td>
</tr>
<tr>
<td></td>
<td>Ramiah University of Applied Sciences</td>
</tr>
<tr>
<td></td>
<td>Naveen Shah Alam Khane College of Engineering and Technology (NSAAGET), Hyderabad</td>
</tr>
<tr>
<td></td>
<td>Global Institute Of Engineering and Technology, Hyderabad</td>
</tr>
<tr>
<td></td>
<td>VNR Vignana Jyothi Institute of Engineering and Technology</td>
</tr>
<tr>
<td></td>
<td>Siddhartha Institute of Engineering &amp; Technology</td>
</tr>
<tr>
<td></td>
<td>Osmania University – The University College of Engineering</td>
</tr>
<tr>
<td></td>
<td>VTU Institute – Veermata Jyothi Technological Institute</td>
</tr>
<tr>
<td></td>
<td>BMU, Mumbai University</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Alama Jaya Catholic University</td>
</tr>
<tr>
<td></td>
<td>Bina Nibrata University (Binaru, Indonesia)</td>
</tr>
<tr>
<td></td>
<td>Institut Teknologi Bandung</td>
</tr>
<tr>
<td></td>
<td>Institut Teknologi Sepuluh Nopember (ITS)</td>
</tr>
<tr>
<td></td>
<td>Sampoerna University, Jakarta</td>
</tr>
<tr>
<td></td>
<td>Shipiboconibo Institute of Polytechnic Surabaya</td>
</tr>
<tr>
<td></td>
<td>Tarunamangara University</td>
</tr>
<tr>
<td></td>
<td>UIU Sultan Syarif Kasim, Riau</td>
</tr>
<tr>
<td></td>
<td>Universitas Diponegoro (Undip)</td>
</tr>
<tr>
<td></td>
<td>Universitas Gadjah Mada (UGM)</td>
</tr>
<tr>
<td></td>
<td>Universitas Iqra Buru</td>
</tr>
<tr>
<td></td>
<td>Universitas Islam Negeri (UII) Sunan Kalijaga, Yogyakarta</td>
</tr>
<tr>
<td></td>
<td>Universitas Islam Negeri Aalmud Makassar</td>
</tr>
<tr>
<td></td>
<td>Universitas Sebelas Maret (UNS), Surakarta</td>
</tr>
<tr>
<td></td>
<td>Universitas Indonesia</td>
</tr>
<tr>
<td></td>
<td>Universitas Sumatera, Utara Medan</td>
</tr>
<tr>
<td>Iran</td>
<td>MehrAstan University, Guilan</td>
</tr>
<tr>
<td></td>
<td>University of Eysaneking</td>
</tr>
<tr>
<td></td>
<td>Technical and Vocational University (TVU)</td>
</tr>
<tr>
<td>Iraq</td>
<td>Babylion University</td>
</tr>
<tr>
<td>Israel</td>
<td>Sapir Academic College</td>
</tr>
<tr>
<td>Kenya</td>
<td>Shamooll College of Engineering (SCE), Ashdod</td>
</tr>
<tr>
<td>Libya</td>
<td>University of Bologna</td>
</tr>
<tr>
<td>Japan</td>
<td>University of Salento</td>
</tr>
<tr>
<td>Jordan</td>
<td>Ashikagawa University</td>
</tr>
<tr>
<td>Kenya</td>
<td>University of Dar es Salaam, Tanzania</td>
</tr>
<tr>
<td>Namibia</td>
<td>Universiti Malaysia Sahara (UMS)</td>
</tr>
<tr>
<td>Morocco</td>
<td>Universiti Malaysia Duta (UMD)</td>
</tr>
<tr>
<td>Mozambique</td>
<td>Universiti Malaysia Techology (UMT)</td>
</tr>
<tr>
<td>Namibia</td>
<td>Universiti Tun Hussein Oman Malaysia (UTHM)</td>
</tr>
<tr>
<td>Mexico</td>
<td>Universiti Utara Malaysia (UUM)</td>
</tr>
<tr>
<td>Nigeria</td>
<td>Instituto Politecnico Nacional (IPN), Mexico</td>
</tr>
<tr>
<td>Niger</td>
<td>Université du Caribe, Cancun</td>
</tr>
<tr>
<td>North Korea</td>
<td>Universiti Malaysia Duta (UMD)</td>
</tr>
<tr>
<td>Oman</td>
<td>Aklawaur University</td>
</tr>
<tr>
<td>Norway</td>
<td>Ecole Mohammadia d’Ingénieurs (EMI)</td>
</tr>
<tr>
<td>Nigeria</td>
<td>Sidi Mohamed Ben Abdellah University of Fez</td>
</tr>
<tr>
<td>Pakistan</td>
<td>N. School of Appl Sci. Kenitra, Ibn Toliy Univ</td>
</tr>
<tr>
<td>Peru</td>
<td>Universidad del Cono Sur de las Américas</td>
</tr>
<tr>
<td>Philippines</td>
<td>Bulacan State University, Malolos City, Bulacan</td>
</tr>
<tr>
<td>Qatar</td>
<td>LPU Laguna</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>Mapa University</td>
</tr>
<tr>
<td></td>
<td>Da Salfe University (DLSU) Manny</td>
</tr>
<tr>
<td></td>
<td>Adamson University</td>
</tr>
<tr>
<td></td>
<td>CEBU Technological University</td>
</tr>
<tr>
<td>South Africa</td>
<td>University of South Africa (UNISA)</td>
</tr>
<tr>
<td>Sudan</td>
<td>University of Technology and Science, Khartoum</td>
</tr>
<tr>
<td>Thailand</td>
<td>Chulalongkorn University, Bangkok</td>
</tr>
<tr>
<td>Turkey</td>
<td>Cheng Mai University</td>
</tr>
<tr>
<td>UAE</td>
<td>University of Science &amp; Technology of Fujairah</td>
</tr>
<tr>
<td>UK</td>
<td>University of Derby</td>
</tr>
<tr>
<td></td>
<td>Universiti Malaysia Sahara (UMS)</td>
</tr>
<tr>
<td>USA</td>
<td>Central Connecticut State University</td>
</tr>
<tr>
<td></td>
<td>Eastern Michigan University</td>
</tr>
<tr>
<td></td>
<td>Lawrence Technological University, Michigan</td>
</tr>
<tr>
<td></td>
<td>University of the District of Columbia</td>
</tr>
<tr>
<td></td>
<td>Indiana State University</td>
</tr>
<tr>
<td></td>
<td>Florida Polytechnic University</td>
</tr>
<tr>
<td></td>
<td>Buffalo State College</td>
</tr>
<tr>
<td></td>
<td>Southern Arkansas University</td>
</tr>
<tr>
<td></td>
<td>Western Michigan University</td>
</tr>
<tr>
<td></td>
<td>Loyola University Chicago</td>
</tr>
<tr>
<td>Venezuela</td>
<td>Catholic University Andres Bello, Barquis</td>
</tr>
<tr>
<td>Vietnam</td>
<td>CFCV, Ho Chi Minh City, Vietnam</td>
</tr>
<tr>
<td></td>
<td>University of Zamfira</td>
</tr>
<tr>
<td></td>
<td>Copperbelt University</td>
</tr>
<tr>
<td></td>
<td>Evelyn Home College</td>
</tr>
<tr>
<td></td>
<td>Universiti of Wittenburg</td>
</tr>
<tr>
<td></td>
<td>HIT – Harare Institute of Technology</td>
</tr>
<tr>
<td></td>
<td>Bay Area of San Francisco &amp; San Jose, CA</td>
</tr>
<tr>
<td></td>
<td>Arongghata, Khulna, Bangladesh</td>
</tr>
</tbody>
</table>
IEOM Global Council

IEOM Society

“Achieving and Sustaining Operational Excellence”

www.ieomsociety.org

Industrial Engineering and Operations Management Society International
Upcoming IEOM Conferences

4th South American Conference on Industrial Engineering & Operations Management
Lima, Peru, May 9-11, 2023
Venue: JW Marriott Hotel Lima

8th North American Conference on Industrial Engineering and Operations Management
Houston, Texas, USA, June 13-15, 2023
Host: Texas A&M Engineering Experiment Station Institute for Manufacturing Systems
Venue: Hilton Hotel at University of Houston

6th European Conference on Industrial Engineering & Operations Management
Lisbon, Portugal, July 18-20, 2023
Venue: Doubletree by Hilton Hotel
Host: NOVA School of Science and Technology – FCT NOVA

4th Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 12-14, 2023, Ho Chi Minh City, Vietnam
Venue: CFVG-HCM and University of Economics Ho Chi Minh City

IEOM International Conference on Smart Mobility and Vehicle Electrification
October 10-12, 2023
Southfield, Michigan, USA

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