



# University of Dar es Salaam

## Department of Mechanical and Industrial Engineering

### 3<sup>rd</sup> Call for Papers

***4th International Conference on Mechanical and Industrial Engineering (MIE'2016)***  
**ON**  
***“HARNESSING NATURAL RESOURCES FOR SUSTAINABLE INDUSTRIAL DEVELOPMENT”***

***September 1 – 2, 2016***

***NAURA SPRINGS HOTEL***  
***ARUSHA, TANZANIA***

#### **PURPOSE**

This conference is an international forum organized to bring together researchers and practitioners to share ideas and observe the latest research, problems and solutions relating to the multifaceted aspects of Mechanical, Industrial, Materials, Textile and Manufacturing Engineering as well as Gas and Oil Technology and Management. We are pleased to invite authors to submit their abstracts to MIE'2016 International Conference, addressing issues that serve present and future developments of the field. All papers submitted to this conference will be peer evaluated by reviewers and will appear in the conference proceedings. Acceptance will be based primarily on originality and contribution to science and engineering.

#### **LOCATION**

Arusha city, capital of Arusha region is located in the northern highlands of Tanzania, beneath the twin peaks of Mount Meru and Mount Kilimanjaro. Direct flights from Europe to Kilimanjaro International airport by KLM, Qatar, Ethiopian Airlines are available. The Kilimanjaro International airport is situated 50 kilometres from Arusha city. Precision Air and FastJet are vibrant national carriers provide flight services between Dar es Salaam, Arusha and Kilimanjaro, Nairobi and Entebbe.

The City built by the Germans as a centre of colonial administration is the site for the United Nations Criminal Tribunal on the Rwandan genocide, and the headquarters of the newly formed East African Community. Visitors embarking on the popular northern safari circuit all stop in the 'Geneva of Africa' to prepare for their journeys to Ngorongoro crater, Serengeti, Manyara, Tarangire and Arusha national parks.

#### **CONFERENCE VENUE**

The conference will be held at Naura Springs Hotel. The Hotel is located on East Africa Community Road, just off the Nairobi Road and close to Arusha International Conference Centre.

#### **HOTEL DETAILS**

Most of hotels in Arusha are situated in tranquil green areas. They offer a wide variety of business and leisure facilities including Wireless Internet connections in conference rooms and lobby. Some of the hotels are Mount Meru Hotel, The Arusha Hotel, Kibo Palace Hotel, Snow Crest Hotel, Impala Hotel, SG Resort, Silver Palm Hotel and Naura Springs Hotel. Nearby places of interest include the Arusha International Conference Centre, Museum of National History, Arusha National Park, Manyara National Park, and Maasai Market.

## SCOPE

Relevant topics include but not restricted to:

### Gas and Oil Technology and Management

- Oil and gas in transportation and power plants
- Gas conversion and retrofitting technologies
- Gas and oil supply, market, demand forecast
- Risk analysis for gas and oil industry
- Gas industry downstream, midstream and upstream
- Gas policy and legal framework
- Gas data acquisition and management
- Safety, health and environment in gas industry
- Gas exploitation, utilization and sustainability

### Textile Technology and Product Design

- Fibres
- Textile Processes
- Nonwoven
- Colouration and Finishing Technologies
- Leather Technology
- Garment and Apparel Technology
- Technical Textiles
- Textile Trading and Supply Chain
- Textile Design and Technology
- Textile for Interior Design

### Industrial Engineering and Management

- Modeling, Simulation and Optimization
- Logistics and Supply Chain Management
- Engineering Management
- Production Planning and Scheduling
- Analysis of Manufacturing Systems
- Reliability and Maintenance
- Ergonomics
- ICT
- Safety and Health
- Environmental Management

### Design, Manufacturing and Materials Engineering

- Mechanical Design
- Design for Product Life Cycle
- Reverse Engineering
- Metal Cutting and Metal Forming
- Welding and Casting
- CAD/CAM
- Micro-Machining
- Non-Traditional Manufacturing
- Automation and Robotics
- Noise and Vibration Analysis
- Condition Monitoring
- Control Systems Modeling
- Industrial Tribology
- Agro-processing
- Structured and Non-structured Materials
- Nano-technology
- Smart materials
- Fuel Cells

### Energy Engineering

- Renewable Energies (Solar, Wind, Geothermal, Biomass) and Non Conventional Energy Sources
- Energy Systems and Management
- Alternative fuels
- Computational Fluid Dynamics
- Thermodynamics
- Mechanics of Fluids
- Computational Heat and Mass Transfer
- Internal Combustion Engines
- Air Conditioning and Refrigeration
- Turbo Machinery
- Aeronautical and Aerospace Engineering
- Automotive Engineering

## IMPORTANT DEADLINES

- May 15, 2016 Submission of abstract
- May 30, 2016 Abstract acceptance notification
- June 30, 2016 Full paper submission
- July 31, 2016 Camera-ready revised manuscript

## REGISTRATION FEES

Participants	US\$ 200
Students	US\$ 100
Exhibition and Posters	US\$ 400
Advertisements	US\$ 50 and US\$ 150 for half and full page respectively

## SUBMISSION OF ABSTRACT

Send your abstract (up to 250 words) either in PDF or MS Word format via e-mail to: [udmieconference@gmail.com](mailto:udmieconference@gmail.com) and copy to: [dpe@udsm.ac.tz](mailto:dpe@udsm.ac.tz)

## CONFERENCE CONTACT ADDRESS

Mussa I. Mgwatu (PhD)

Conference Secretary

*4<sup>th</sup> International Conference on Mechanical and Industrial Engineering (MIE'2016)*

Department of Mechanical and Industrial Engineering

University of Dar es Salaam

P.O. Box 35131, Dar es Salaam

TANZANIA

Emails: [udmieconference@gmail.com](mailto:udmieconference@gmail.com) and [dpe@udsm.ac.tz](mailto:dpe@udsm.ac.tz)

Tel: +255-(0)22-2410754 (Direct) or Mob: +255-(0)78-4318836

Websites: <http://www.mie.udsm.ac.tz> and <http://www.udsm.ac.tz>