



INTERNATIONAL CONFERENCE ON ENGINEERING TRIBOLOGY, ADVANCED MATERIALS AND METROLOGY FOR TRIBOLOGICAL APPLICATIONS – ICETAM'2011

25 – 27 October 2011

Cairo, EGYPT

JOINTLY ORGANISED BY:

EGYPTIAN SOCIETY OF TRIBOLOGY
CAIRO UNIVERSITY [EGTRIP]
CENTER OF ADVANCED MATERIALS
BRITISH UNIVERSITY IN EGYPT [CAM] &
ARAB FEDERATION FOR METROLOGY [AFM]

ABOUT THE CONFERENCE

The ICETAM'2011, is the 8th international conference on Engineering Tribology, 2nd on Advanced Materials, and 5th on Metrology for Tribological Applications. The conference is jointly organized by the Egyptian Society of Tribology (EGTRIP), Cairo University (CU) and center of Advanced Materials (CAM), British University in Egypt (BUE), and Arab Federation for Metrology (AFM). The ICETAM'2011 will feature technical sessions, short courses/forums, and exhibitions activities. It focuses on the recent and futuristic development in Tribology, cutting edge of Advanced Materials, and related areas. It is a major forum for the exchange of knowledge and provides excellent opportunities to network and meet leading experts and researchers from different countries in the fields of Tribology and Materials. With this conference, the organizing committee optimistically wishes to establish a strong linkage and concrete collaborations among scientists and researchers from Western and Eastern countries.

CONFERENCE THEMES

Tribology nowadays recognized strongly in Agriculture, Architecture, Astronomy, Marine & Transportation, dentistry, Engineering, and all related sciences. Authors are invited to submit an extended abstract not less than 300 words, presenting new recent and futuristic developments in the following categories:

1. Friction and Wear Processes (FWP)
2. Surface Engineering & Coatings (SEC)
3. Lubrication & Lubricants (LL)
4. Industrial Tribology & Manufacturing Processes (ITMP)
5. Bio Tribology and Relevant Issues (BTRI)
6. Tribological Assessments & Condition Monitoring (TACM)
7. Computational Techniques and Soft Ware Applications (CTSWA)
8. Tribology & Environmental Related Topics (CTRT)
9. Functional & Multifunctional Material Processing (FMMP)
10. Novel Materials (NM)
11. Natural & Synthetic Fibres Polymeric Composite Materials (NSFCM)
12. Other Related Topics of Tribology and Materials (ORTTM)

13. Metrology of Engineering Surfaces for Tribological Applications (MESTA)
14. Metrology of Reference Material for Lubricants(MRML)
15. Metrology and Material Testing for Tribological Applications (MMTTA)
Friction and Wear Processes (FWP) : (1). Wear and friction processes of metals, (2).Ceramic, (3).Polymeric, and Hybrid composite materials, (4).Transfer and back transfer film, Applications and study cases in (5).Sliding and rolling interfaces, (6).Erosion and Corrosion, (7).automotive, (8).agriculture
Surface Engineering & Coatings (SEC): (1).Wear and surface deterioration of Tribosystems, hard metals, polymers and coatings; (2).Surface Coatings for better performance, (3).Treatment of conventional and nonconventional surfaces
Lubricants & Lubrication (LL): (1).Fluid film lubrication, (2).Boundary Lubrication, (2).Hydrostatic Lubrication, (3).Bearings and Gears, (4).Properties of Natural, Mineral, and Synthetic Oil and Grease, (5).Solid Lubricant
Industrial Tribology & Manufacturing Processes (ITMP) : (1). Cutting tool wear process, (2).Cryogenic-Tribology, (3).Macro, Micro, and Nano Tribology-Applications and case studies in: (4).agricultural, (5).Automotive, (6).Textiles, (7).Architecture, (8).Mining and desert equipments
Bio Tribology and Relevant Issues (BTRI) : (2).Artificial Prostheses, (3).Human Joints, (4). Friction and wear in Synthetic joints, (5).Modeling, (6).Biotech and Medical Applications
Tribological Assessments & Condition Monitoring (TACM):(1).Novel Techniques and Instrumentations, (2).Preventative maintenance, (3).Early detection of surface damage, (4).Analysis and mitigation of surface damage, (5).Wear control, Surface deterioration of Tribo-system, (6).Modeling and simulation of Tribo systems, (7).Maintenance of Tribo systems, (8).oil analysis, (9).fluid cleanliness and filtration technology, (10).Applications and case studies
Computational Techniques and Soft Ware Applications (CTSWA) : (1). Modeling, Simulation and Software Applications in Tribology, (2).Statistic approaches, (3).Artificial Intelligent Neural Network, (4).computer aided design of Tribo elements, (5).Applications and case studies
Tribology & Environmental Related Topics (CTRT): (1).Tribological waste materials, (2).Recycling, (3).Disposal, (4).Health, (5).Safety and environment issues, (6).Applications and case studies
Functional & Multifunctional Material Processing (FMMP): (1).
Natural & Synthetic Fibres Polymeric Composite Materials (NSFCM): (1).Fibre Polymeric Composite Materials
Novel Materials (NM): (1). Ceramic & (2).Composite Materials, (3).Bio-Nano Materials, (4).Carbon Nanotube materials, (1).Nano Composite Materials, (5).Polymer nanotech
Other Related Topics of Tribology and Materials (ORTTM) -
Metrology of Engineering Surfaces for Tribological Applications (MESTA)
Metrology of Reference Material for Lubricants(MRML)
Metrology and Material Testing for Tribological Applications (MMTTA)

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