International Conclave
on
Innovations in Engineering & Management
(Oman Vision 2020: Opportunities & Challenges)
Feb. 24-25, 2016

Supported by

CHIEF PATRON
Prof. (Dr.) Manoj Kumar Mishra
Vice-Chancellor, BIT, Ranchi, India

PATRON
Dr. Zuhoor Abdullah Salim Al-Khanjari
Chairperson, Trustee Council, WCAS, Oman

WALJAT COLLEGE OF APPLIED SCIENCES
In Academic Partnership with
BIRLA INSTITUTE OF TECHNOLOGY, RANCHI, INDIA
P.O. BOX-197, PC-124, KOM, RUSAYL, MUSCAT,
SULTANATE OF OMAN
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FAX: +968-24449196, +968-24449197
E-MAIL: iciem-2016@waljat.net, www.waljatcollege.edu.om/iciem-2016.php
ABOUT THE CONCLAVE:

Waljat College of Applied Sciences (WCAS) in academic partnership with Birla Institute of Technology, Ranchi, India had been the facilitator for sharing the knowledge and wisdom among the young scholars, professionals, scientists, engineers, academicians and students through various seminars and workshops. In continuation for the pursuit of excellence, WCAS with the support of The Research Council (TRC) of Oman, is pleased to organize the International Conclave on Innovation in Engineering & Management, ICIEM-2016 (Oman Vision 2020: Opportunities & Challenges) focusing on the recent developments in all fields of applied sciences and Management. This conclave will serve as a forum to get Corporate Professionals, Academicians, Research Scholars and Students together on to a single platform for an in-depth discussion on opportunities and challenges, especially in the fields of Computer Science, Information Technology and Electronics & Communication, in the context of Sultanate of Oman and the rest of the world.

During the ICIEM-16, Business Plan competition, Case study competition, Doctoral Research Paper Competition and student paper competition shall be adding to the rigor of the knowledge sharing and celebration of the young minds.

WHO CAN PARTICIPATE IN THE CONCLAVE?

- Academicians
- Information Scientists /Information Officers / Information Managers
- IT Professionals / LIS Professionals
- Engineers
- Policy Makers/HRM/Administrator / Strategic Managers
- Research Scholars
- Students
- Any other professional concerned

AUTHOR GUIDELINES

Participants are invited to submit original, unpublished papers on themes mentioned in the ICIEM-2016 brochure attached. A soft copy of the abstract covering the title, author’s name, co-author’s name, affiliation (Maximum 300 words) with 5 keywords as per guidelines mentioned below:

Font Size:  
  i) Times New Roman = 12  
  ii) Spacing = 1.5

References:  
  ii) Papers related to Engineering = IEEE

NOTE: Authors are requested to submit their papers through email: iciem-2016@waljat.net  
All papers will be screened for plagiarism to a limit of 24% similarity index followed by peer review evaluation.
THEME: ENGINEERING AND MANAGEMENT

SUB THEMES:

I. CONTEMPORARY ISSUES (OMAN)
- Automobile Market in G.C.C.
- FDI in Oman
- Financial Institutions / Markets & its Status in Oman
- G.C.C. Railways / Oman Railway Project
- Islamic Banking System
- Multicultural Work Force in Oman
- Oman Economic Policies
- Tourism in Oman
- Port Management
- Public Distribution System
- Role of Academic Institutions in Development of Oman
- Quality Management in HEI’s in Oman
- Supply Chain & Logistic Management
- Taxation in Oman

II. ELECTRONICS AND COMMUNICATION ENGINEERING
- ASIC and Embedded Systems
- Optoelectronic Devices
- Audio and Video Processing
- Circuits Modeling
- MEMS
- Microwave Devices
- MIMO, Biomedical Signal Processing
- MOSFET/ CMOS Design
- Nano-Scale Devices Metamaterials
- Optical Code –Division
- Nanotubes
- Optimization Sensors & Actuators
- Photonics
- RF, Analog and Digital Systems Synthesis
- Robotics
- Signal Filtering, Detection and Estimation
- Smart Antennas
- System on Chips (SoC)
- Wideband, Multiband Antennas
- Wireless, Mobile and Sensor Networks

III. BIOTECHNOLOGY
- Biomaterials
- Biological Waste Management
- Bioprocess Engineering
- Biosensors
- Environment
- Food Processing Technology
- Stem Cell Technology
- Molecular and Genetic Engineering
- Nanotechnology
- Petroleum Biotechnology
- Pharmaceutical Biotechnology
- Protein Engineering
- Bio Statistics

IV. ELECTRICAL& ELECTRONICS ENGINEERING
- Materials in Engineering
- Power System Engineering
- Rural Energy Planning
- Smart Grids and Micro Grids
- Solar Thermal and Photovoltaic System
- Hybrid Systems

V. MECHANICAL ENGINEERING
- Advanced Manufacturing Processes
- Design of Machine Elements
- Design Energy Conservation & Management
- Fluid Mechanics and Machinery
- Heat and Mass Transfer
- Industrial Engineering & Management
- Manufacturing Systems
- Material Sciences
- Refrigeration and air conditioning
- Simulation & Modeling in Mechanical Engineering
- Thermal Science and Engineering
- Interdisciplinary Topics in M.E.
VI. COMPUTER SCIENCE AND ENGINEERING
- Android & Mobile Applications
- Artificial Intelligence
- Cloud Computing
- Compiler & Interpreters
- Computer Gaming
- Cryptography
- Cyber Crime and Cyber security
- Data Mining
- Data Structures & Algorithm
- Development of Social Apps
- Decision Support System
- Distributed Computing
- Digital Forensic
- Fuzzy Logic
- Genetic Algorithm
- IT Governance
- Image Processing
- Information Security Audit
- Mobile & Wireless Computing
- Network Security
- Neural Networks
- Operating Systems
- Parallel Computing
- Security of B2C Commerce
- Semantic Web
- Software Engineering
- Web and Internet computing
- Web Mining

VII. LIBRARY & INFORMATION SCIENCE
- Change Management & Leadership
- Collaborative Content Creation
- Copyright Issues for E-Resources
- Emerging Library Technologies
- HRM :Significance and Challenges
- Impact of MOOCs on Libraries
- Innovative Strategy
- Integrated Library Management Systems
- Learning Management System
- Research and the New Publishing Paradigm
- Trends and Challenges in Research on LIS
- Total Quality Management

VIII. MANAGEMENT

Human Resource
- Competency Mapping
- Cross Cultural H R Perspectives
- Ethics in Management
- Leadership
- Managing Human Capital
- Motivation Strategies
- Organizational Development & Change
- Strategic Human Resource Management
- Training & Development
- Total Quality Management

Entrepreneurship
- Culture and Entrepreneurship
- E-Entrepreneurship
- Entrepreneurship & Innovation
- Gender and Entrepreneurship
- Global Entrepreneurship
- Networking & Entrepreneurship

Economics
- Agriculture Economics
- Cooperatives
- Economic Development
- Financial Economics
- International Economics
- Labor Economics
- Managerial Economics
- Monetary Policy
- Planned & Mixed Economics
- Public Finance
- Sports Economics
- Tax Policy
- Welfare Economics
The themes for the Research Papers / Case Studies / Conceptual Papers and the articles can be from any of the inter-disciplinary fields of study in addition to the above mentioned themes.

NOTE:

i) Best Paper Award will be given in each disciplines for the papers presented at the conference.

ii) Papers presented in absentia are also eligible to be included in the conclave proceedings provided the registration fee RO 30.000 for faculty members and RO 20.000 for research scholars is paid.

IMPORTANT DATES TO REMEMBER

ABSTRACT SUBMISSION : 30/08/2015 (Extended Date)
SUBMISSION OF FULL PAPER : 30/09/2015 (Extended Date)
FINAL ACCEPTANCE OF PAPER : 15/10/2015 ((Extended Date)
SUBMISSION OF PAPERS : iciem-2016@waljat.net

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Delegates</th>
<th>Early Bird by November 30, 2015</th>
<th>After November 30, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With Accommodation</td>
<td>Without Accommodation</td>
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<tr>
<td>International Participant</td>
<td>OMR 130 Including Visa Fee</td>
<td>OMR 70 Including Visa Fee</td>
</tr>
<tr>
<td>International Participant One Accompanying Person</td>
<td>OMR 195 Including Visa Fee</td>
<td>OMR 135 Including Visa Fee</td>
</tr>
<tr>
<td>International Ph.D. Student</td>
<td>OMR 90 Including Visa Fee</td>
<td>OMR 60 Including Visa Fee</td>
</tr>
<tr>
<td>International Student</td>
<td>OMR 70 Including Visa Fee</td>
<td>OMR 40 Including Visa Fee</td>
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<tr>
<td>G.C.C. Single Participant</td>
<td>OMR 95</td>
<td>OMR 65</td>
</tr>
<tr>
<td>G.C.C. Participant One Accompanying Person</td>
<td>OMR 145</td>
<td>OMR 85</td>
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<tr>
<td>Local Participants</td>
<td>OMR 40 (Without Accommodation)</td>
<td>OMR 40 (Without Accommodation)</td>
</tr>
<tr>
<td>Local Research Scholars &amp; Students</td>
<td>OMR 20 (Without Accommodation)</td>
<td>OMR 35 (Without Accommodation)</td>
</tr>
</tbody>
</table>

*Single Room ** Hotel Apartment Sharing Basis

NOTE: Registration fees includes

i) Conference Kit
ii) Lunch for two days
iii) Day one Dinner
iv) Accommodation for Two Nights only
v) Sightseeing

Hotel Links
Safeef Hotel : http://www.booking.com/hotel/om/safeer
Muscat International : http://www.booking.com/hotel/om/muscat-international
City Season : http://www.booking.com/hotel/om/city-seasons
Ibis : http://www.booking.com/hotel/om/ibis
ABOUT WCAS

Waljat College of Applied Sciences (WCAS) is founded in academic Partnership with Birla Institute of Technology (BIT), India by H.E. Dr. Omar Bin Abdul Muniem Al Zawawi in Muscat in the year 2001, with a mission to promote international quality education in Oman for the national and international students in and around Oman. It is located at Knowledge Oasis Muscat (KOM), Rusayl, about 10 km from Muscat International Airport. For its services in education sector, this institution was recognized as a unique institution imparting quality education and training in Engineering, Computer Applications and Business Administration in Oman with a distinct mission to develop knowledgeable and socially responsible citizens to serve in different sectors of the national economy.

ACADEMIC PROGRAMS

The following programs are offered by the College in Academic Partnership with Birla Institute of Technology (BIT), Ranchi, India.

Bachelor Degree Programs

Engineering

i) Bachelor of Engineering in Biotechnology
ii) *Bachelor of Engineering in Electrical & Electronics
iii) Bachelor of Engineering in Computer science
iv) *Bachelor of Engineering in Chemical
v) Bachelor of Engineering in Electronics & Communication Engineering

* * Proposal submitted to MOHE for approval

Computer Applications

Bachelor of Computer Applications (BCA)

Management

Bachelor of Business Administration (BBA)

Master Degree Programs

i) Master of Business Administration (MBA)
ii) Executive Master of Business Administration (EMBA)

The General Foundation Program

The aim of the General Foundation Program is to prepare students to gain the necessary skills in English Language and communication to enable them to enter into further studies. It also has introductory courses in Science, Information Technology, Statistics and Management. On successful completion of General Foundation Program Students are eligible for progression to related Bachelor Degree Program.
ABOUT BIT

Birla Institute of Technology (BIT) Ranchi, is a “Deemed University” under Sec. 3 of the U.G.C. Act 1956. The Board of Governors is responsible for the main functions and overall supervision of activities. It comprises representatives of the Ministry of Education, Government of India, the U.G.C., the State Government, the Chancellor, the AICTE, the Hindustan Charity Trust and the Institute Faculty. Shri C. K. Birla is the Chairman of the Board of Governors while the Governor of the State of Jharkhand officiates as the Institute’s Chancellor. There’s a Technical Council that decides the academic policy of the Institute.

BIT Ranchi, had been conceived with a vision to be recognized as a world-class learning institution for engineering and technology. But it has moved beyond the fulfillment of a scholastic promise to re-defining education in the new age through creation of aptitude and comprehensive intelligence. Targets are achieved every day, only to make space for newer dreams. From the introduction of new academic programmes to restructuring current ones, from improving infrastructure to upgrading the teaching learning environment, overall development of the students has always been the focal point at Birla Institute of Technology. As a result, the institute enjoys an unsurpassed reputation in corporate circles, being the preferred manpower source for organizations across industrial sectors not only in India but overseas as well. URL: https://www.bitmesra.ac.in

ABOUT MUSCAT

Muscat is the capital of Oman. It is also the seat of government and largest city in the Governorate of Muscat. Muscat is popularly known as the financial capital of Oman. The capital has a pride and grandeur of its own and has successfully blended the best of the ancient and the modern. The city has in the offering picturesque beaches, beautiful mosques, forts that are reminiscent of Muscat's glorious past and scenic gardens and natural parks. The climate of Muscat features a hot, arid climate with long and very hot summers and mild winters. Annual rainfall in Muscat is about 100 mm (4 in), falling mostly from December to April. In general, precipitation is scarce in Muscat with several months, on an average, seeing only a trace of rainfall. The climate is very hot, with temperatures reaching as high as 49°C (120F) in the summer. For sightseeing, the best time to visit Muscat is from December to March as the temperatures are moderate and pleasant, making it easy to move around. Between mid-March and October, travel is very exhausting with the average temperature between 31C to 38C and sunburn and dehydration are possible. (Source: http://en.wikipedia.org/wiki/Climate_of_Muscat)

POPULAR MUSCAT ATTRACTIONS

- Sultan Qaboos Grand Mosque
- Royal Opera House
- Amouage Perfumery
- Qurum Beach
- Qurum Natural Park
- Bait Al-Baranda
- Mohammed Al Ameen Mosque
- Bait Al Zubair
- Oman Oil and Gas Exhibition Centre
- Wadi Al Arbeieen
- Centre for Omani Dress
- Qantab Beach
ABOUT SULTANATE OF OMAN

Sultanate of Oman is a country in Southwest Asia, on the southeast cost of the Arabian Peninsula. It borders the United Arab Emirates in the northwest, Saudi Arabia in the west, and Yemen in the southwest. The coast is formed by the Arabian Sea in the South and East, and the Gulf of Oman in the Northeast. The country also contains Madha, an enclave enclosed by the United Arab Emirates, and Musandam and an exclave also separated by Emirati Territory.

Oman is rich in heritage and traditions with a blend of various features of modern lifestyle. Oman is a land of stunning landscapes, from plains to mountains and deserts to unspoiled beaches which stretch to 1700 km of pristine coastline. The breath-taking and splendid tourist attractions in Oman include various castles and forts, natural wonders, deserts, wadis, mountains, caves and a lot more.

The climate is predominantly pleasant from October to March. The Omani people are known for their warm hospitality and generosity in both social and professional context. With diversification strategies and sound policies, the Oman is consistently emerging as a modern nation with sound policies consistent to fast economic growth, sustainable development and global vision. (Source: http://www.omansultanate.com).
<table>
<thead>
<tr>
<th>Advisory Board Member</th>
<th>Affiliation</th>
</tr>
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<tbody>
<tr>
<td>Prof. Abood Al Sawafi</td>
<td>A'Sharqiyah University, Oman</td>
</tr>
<tr>
<td>Prof. Afaq Ahmad</td>
<td>Sultan Qaboos University, Oman</td>
</tr>
<tr>
<td>Prof. Balasubramani</td>
<td>Bharathidasan University, India</td>
</tr>
<tr>
<td>Prof. Christodoulos A Floudas</td>
<td>Princeton University, USA</td>
</tr>
<tr>
<td>Prof. Dinesh Singh</td>
<td>University of Delhi, India</td>
</tr>
<tr>
<td>Prof. Ekram Khan</td>
<td>Aligarh Muslim University, India</td>
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<tr>
<td>Prof. Imad Moosa</td>
<td>RMIT, Australia</td>
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<tr>
<td>Prof. Ing. Axel Sikora</td>
<td>University of Applied Sciences, Germany</td>
</tr>
<tr>
<td>Prof. Izhar Ahmad</td>
<td>King Fahd University of Petroleum and Minerals, KSA</td>
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<tr>
<td>Prof. Jai [Jay] Kang</td>
<td>San Francisco State University, USA</td>
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<tr>
<td>Prof. Kurt Maly</td>
<td>Dominion University, USA</td>
</tr>
<tr>
<td>Prof. Lee Chu Keon</td>
<td>Nanyang Technological University, Singapore</td>
</tr>
<tr>
<td>Prof. Majid Jamil</td>
<td>Jamia Millia Islamia University, India</td>
</tr>
<tr>
<td>Prof. Mohammed Samaka</td>
<td>Qatar University, Qatar</td>
</tr>
<tr>
<td>Prof. Munish Makkar</td>
<td>Birla Institute of Technology (BIT) Centre-Noida, India</td>
</tr>
<tr>
<td>Prof. Nawal Kishor</td>
<td>Indira Gandhi National Open University, India</td>
</tr>
<tr>
<td>Prof. Parameswar Nayak</td>
<td>Birla Institute of Management Technology, India</td>
</tr>
<tr>
<td>Prof. S. M. Shozeb Haider</td>
<td>University College London, UK</td>
</tr>
<tr>
<td>Prof. S. K. Jain</td>
<td>Shri Mata Vaishno Devi University, India</td>
</tr>
<tr>
<td>Prof. Suresh Kumar Garg</td>
<td>Delhi Technological University, India</td>
</tr>
<tr>
<td>Prof. Syed Hamid Hasan</td>
<td>King Abdulaziz University, KSA</td>
</tr>
<tr>
<td>Prof. Yoginder S. Verma</td>
<td>Central University of Himachal Pradesh, India</td>
</tr>
</tbody>
</table>

Coordinator, ICIEM-2016: Dr. S. D. Khan  
Co-Coordinator, ICIEM-2016: Dr. Seema Varshney, Dr. David Mandepudi, Dr. Mohammad Mohatram

ORGANIZING SECRETARY, ICIEM-2016  
Prof. (Dr.) S. L. Gupta  
The Dean, Waljat College of Applied Sciences, Knowledge Oasis Muscat, Rusayl, Sultanate of Oman.  
E-MAIL: iciem-2016@waljat.net  
Phone No. 00968-24449193, FAX No. 00968-24449196  
URL: www.waljatcollege.edu.om/iciem-2016.php

JOINT SECRETARIES, ICIEM-2016  
Dr. Alok K Kushwaha  
Dr. Jyoti Kumar Chandel  
Dr. Niraj Mishra  
Dr. Sadaf Zahara  
Dr. G. P. Mishra  
Dr. A Prakash  
Dr. Srilekha Groveas  
Dr. David Manohar  
Dr. Prabal Datta  
Ms. P. Vijaya  
Mr. Praveen Sanga  
Mr. Akhilesh Roy
International Conclave
on
Innovations in Engineering & Management
(Oman Vision 2020: Opportunities & Challenges)
Feb. 24-25, 2016

REGISTRATION FORM

Name: ____________________________ Designation: ____________________________

Institution: ________________________________________________________________

Department __________________ Address: _______________________________________

E-Mail ___________________ Tele:/Mobile ____________________________

PAYMENT DETAILS: Demand Draft is being enclosed vide DD No. ___________ OMR___________

Bank Name___________ along with duly completed form in favor of Waljat College of Applied Sciences,

payable at_______________ bank in Muscat.

NOTE: Participants can also send their Registration fee through electronic means to the Waljat College of Applied Sciences Account Number: 045 201 720 996 0017 of Bank Muscat under Swift Code No. BMUSOMRXXXX. Any transaction made through this channel shall produce the transaction slip through email communication to iciem-2016@waljat.net

Dr. S. D. Khan
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