

# Past Events

## **One Day Workshop on Hands-on-Microcontroller on November 6, 2016**

In the present world of rapid technological changes, there is an urgent demand for the very best quality products and services. This scenario has broken the walls of engineering disciplines, and today's world is curiously looking for the innovative and creative products through the synergistic integration of various engineering disciplines. The present workshop is an attempt towards interdisciplinary learning. This microcontroller workshop focuses on the basics of Arduino Microcontroller that will create the understanding of the programming and control and enable to explore further. The prime learning objectives includes interfacing of various actuators and sensors, with timer and counter applications.

## **3-Day Workshop on Computational Fluid Dynamics on August 11 - 13, 2016**

The main objective of this workshop is to create awareness among young researchers about the challenging and growing field CFD; to introduce CFD, fundamental principles and wide range of its industrial applications. The honorable speakers we have during the workshop: Prof. Suman Chokarborty, IIT KGP, Prof. S. Vengadesan, IIT Madras; Prof. Arnab Roy, IIT Kharagpur; Mr. Balaji Parthasarathy, Head, India Engineering, GE Industrial, Dr. Afroz Javed, DRDO, Mr. Trilok, GE Industrial . About 42 participants representing various research organizations, academic institutions and Industries have attended this workshop.

## **2nd National Conference on Design and Manufacturing Technologies for Product Life Cycle on March 19-20, 2016**

The DPLC-2016 conference is on the emerging philosophy of incorporating the constraints of various other stages in the product life cycle at design stage itself. What was a discrete and completely disconnected scenario of product life cycle with inherent inefficiency has now completely metamorphosed into an integrated set of activities. Developments in many technical areas of design and manufacturing have been responsible for successful integration. These state-of-the-art technologies in both systems and technological frameworks form the topics of this conference. The DPLC-2016 is the 2nd conference in the series organized by the Department of Mechanical Engineering, BITS Pilani. The first conference, DPLC-2006, was organized at BITS Pilani, Pilani campus, Vidya Vihar, Pilani, Rajasthan in Feb 2006, to which there was enormous response. In this second version, DPLC-2016, we have included in the scope the innovative manufacturing technologies that can influence the decision making in design stage and efficiency of the downstream stages of the product life cycle.

## **One Day Workshop on Material Characterization using Electron Back-Scatter Diffraction (EBSD) Technique on March 14, 2016**

Electron Back-Scatter Diffraction (EBSD) using a Scanning Electron Microscope (SEM) is effectively used texture determination. Using this technique individual grain orientation can be determined by evaluating Kikuchi patterns. EBSD has become highly automated and provides quantitative crystallographic analysis at a resolution as small as a few tens of nanometers. The purpose of the workshop is to illuminate the basics of crystallography and crystal texture, the EBSD system, effects of measurement and processing parameters on EBSD mapping results as well as to give handy tips for sample preparation.

## **International Symposium on Wind Engineering and Wind Energy on January 28, 2016**

The International symposium brought together experts in both the fields and provides a platform for exchange of ideas, and bring out novel solutions and thoughts towards reducing the impact of wind on structures at the same time harnessing it for energy needs. This symposium had the following keynote speakers:

- (1) **Prof. Yukio Tamura** (Tokyo Polytechnic University, Japan, Former President, IAWE)
- (2) **Prof. Shuyang Cao** (Professor, Tongji University, Shanghai, China, Secretary General, IAWE)
- (3) **Prof. Prem Krishna** (Chairman Research Council, CSIR-CBRI Former Professor and Head of Civil Engineering Department, IIT Roorkee)
- (4) **Dr. Gomathinayagam**, Director General (DG), National Institute of Wind Energy (NIWE), Formerly C-WET
- (5) **Prof. K.K. Sasi**, (Project Director, Ahalia Alternate Energy Pvt Ltd, Palakkad PG Program Co-Chair, Amrita School of Engineering, Coimbatore Professor - Electrical & Electronics Engineering, Amrita Vishwa Vidyapeetham University Coimbatore, India)

## **5th International conference on Product Modeling, Simulation and Synthesis on December 15-17, 2015**

5th International conference on Product Modeling, Simulation and Synthesis was jointly organised by Advanced Systems Laboratory, DRDO and Birla Institute of Technology-Pilani Hyderabad campus under the aegis of PLMSS Trust. The conference was held at BITS-Pilani Hyderabad from 15th - 17th December 2015. A one-day pre-conference workshop on 'Digital Manufacturing using PLM' was held on 15th December 2015 by eminent professors from IIT Kharagpur and IIT Mumbai and around 80 participants benefitted from the workshop. On the evening of 15th December the conference was inaugurated by Dr G. Sathesh Reddy, Scientific Advisor to Raksha Mantri. The Guest of Honour Sh. Jayesh Ranjan, Secretary IT, Telangana state also graced the occasion. The technical sessions were conducted for two days in 7 parallel sessions wherein 56 papers & 7 posters were presented. The Panel discussion was held on the topic 'PLM for Make in India'. Around 300 delegates participated in this three day event.

**Workshop on Innovations in Waste, Water and Energy Technologies for Rural  
Development on July 13-14, 2015**

BITS Pilani, Hyderabad Campus and National Institute of Rural Development & Panchayati Raj, Ministry of Rural Development, Government of India invite faculty members/researchers to the two day workshop on Innovations in Waste, Water and Energy Technologies for Rural Development. The workshop aims to bring together academicians, researchers and industry experts working in fields of rural development to discuss the innovations that happen in the areas of waste, water and energy technologies. Participants will benefit by listening to the invited speakers from renowned institutions having vast expertise in related fields, participating in discussions, hands-on training and field visit.

**International Conference on Wind Energy: Materials, Engineering and Policies on  
November 22-23, 2012**

Renewable energy sources have become a necessity rather than a choice and there is a huge potential for wind energy but there is a lot to be perfected in all aspects. Particularly most regions of many countries including India are classified as low wind energy regimes necessitating identification of appropriate models for estimation and realization of potentials, site selection, new materials such as composites, new techniques of manufacturing, and policy making. This conference is aimed at providing a platform for discussion and dissemination of knowledge through the participation of all stake holders also leading to certain recommendations on future course of action. For more details see the Conference website: [www.wemep2012.com](http://www.wemep2012.com).