

Who can Attend

Academician/Research scholar/ PG Scholar with Automobile / Manufacturing / Metallurgy / Aerospace / Mechanical / Civil Engineering background and interested in obtaining improved knowledge for the conceptual of advanced composite structures and its mechanics and detailed modeling, buckling, vibration & shear lag analysis of advanced composite structures.

Practicing Engineers /employees of the industries who are interested in advanced composite structures can also participate .

Number of participants for the course will be limited to 50

Last Date for Registration 10.03.2017

Fees

The participation fees for taking the course is as follows:

Participants from abroad:	USD 200
Industry/ Research Organizations	MYR 500
Academic Institutions:	MYR 300

The above fees include all instructional materials, computer use for tutorials and assignments. The participants will be provided with accommodation on payment basis.

Course Coordinators

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NOTE

- ◆ Late comers will not be entertained.
- ◆ The seats are filled on "FIRST COME FIRST SERVE" BASIS.

INTERNATIONAL WORKSHOP ON ADVANCED COMPOSITES AND ITS MANUFACTURING

April 10 – 13, 2017



Venue

**Aerospace Manufacturing Research Center (AMRC)
Level 7, Tower Block, Faculty of Engineering,
Universiti Putra Malaysia**

Organized by

**Universiti Putra Malaysia - UPM, &
Kalasalingam University - KLU India**



About UPM

Universiti Putra Malaysia - UPM, a leading research university in Malaysia is located in Serdang near Putrajaya. The journey from 1931 to 2012 has seen UPM being transformed from what was once a small agricultural school into what is today a leading learning and Research University which is well respected both nationally and internationally. University today combines impressive modern facilities and a dynamic approach to teaching and research with its proud heritage of quality services and achievements. As a world renowned centre of learning and research, UPM has attracted students and staff from all around the world making it a well- respected global entity. UPM is recognized by the independent government assessments as one of Malaysia's leading research Universities.

About KLU

Arulmigu Kalasalingam college of engineering (AKCE), the parent institute to the university, was started in a humble way by Kalasalingam and Anandam Ammal charities (KAAC) in the year 1894. "kalvivalal" Thiru T. Kalasalingam, veteran freedom fighter, is the founder chairman of this institution. The university is located at the foothills of the western gates in rural setting of Virudhunagar District, Tamilnadu. It offers 13 U.G courses, 29 P.G courses and Ph.D programs in various disciplines such as civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and communication Engineering, Electronics and instrumentation Engineering, Computer science and Engineering, Information Technology, Biotechnology, Chemical Engineering, Computer Application, Mathematics, Physics, Chemistry, Humanities and Business Administration. It is the first institution in India to offer six years Integrated Bachelor Degree Program in Engineering for the speech and hearing Impaired students. The University has signed MoU with foreign universities, research organizations and industries with an objective of promoting research and development. The university is accredited by National Assessment and Accreditation Council (NAAC), Bengaluru.



Overview

Composites within the scope of this workshop are referred to as engineered materials composed of two or more constituents – typically a matrix and a reinforcement being in the form of a fiber or a filler- to meet the requirements which cannot be otherwise fulfilled by one component alone. Composite materials have been extensively utilized mainly in aerospace and marine due to the fact that they allow for significant weight and cost savings. The development of a durable and damage tolerant structural composites having outstanding mechanical performance with high strength or stiffness to weight ratio, and functional composites for above mentioned applications necessitates advancements in several fronts. Towards this end, the content of the workshop is organized such as to cover recent progress on a wide breadth of subjects because the composites industry and research is generally characterized by having a widespread scope, namely; Manufacturing process of composites, product and processes of constituents, multifunctional composites, interface; rubber and clay composites, nano-composites, materials and characterization and mechanics and micro-mechanics of composites.

There were more than Six sessions by scientist and engineers of both countries, which focused on the above mentioned aspects of composite materials and their interrelationships. The event created a platform to initiate synergy and fruitful collaborations among the participants of both countries.

- ◆ Need of Composite Materials
- ◆ Mechanical Characterization of Materials
- ◆ Composite Manufacturing Methods
- ◆ Micro structural Characterization of Materials
- ◆ Nano Composites
- ◆ Applications of Composite Materials

