

ACUN-6: International Composites Conference

Monash University, Melbourne, Australia, 14 - 16 Nov. 2012

Call for Papers (Preliminary Announcement)

Monash University



ACUN-6



International Composites Conference
**Composites & Nanocomposites
in Civil, Offshore and Mining Infrastructure**

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Themes

The topics of ACUN-6 will cover all aspects of the science and technology of composite materials, from materials fabrication, processing, manufacture, structural and property characterisation, theoretical analysis, modelling and simulation, materials design to a variety of applications, such as aerospace, automotive, civil infrastructure, packaging, ship-building, and recreational products. ACUN-6 will bring together the latest research and developments of the complete range of composite materials, including biocomposites, medical-composites, functional and smart composites, gradient and layered composites, nanocomposites, structural profiles and mimicking natural materials. The reinforcements will range from nano-, micro-, meso- to macro-scale in polymer, metal, ceramic and cementitious matrices. The topics include, but are not limited to:

- Aerospace
- Automotive
- Bio-composites
- Bio-medical composites
- Cement matrix
- Civil infrastructure
- Characterization
- Codes
- Computational mechanics
- Corrosion prevention
- Design
- Deterioration
- Elastomer composites
- Environment friendly
- Failure and fracture
- High t & low temperature
- land and marine Infrastructure
- Interfaces and interphases
- Light-weight transportation
- Low cost composites
- Materials science
- Modelling and simulation
- Nanocomposites
- Nanotubes
- Natural fibre and matrix
- Polymer, metal, and ceramic matrix
- Fabrication and manufacturing
- Properties and performance
- Recycling
- Reinforcements
- Renewable composites
- Repair
- Sensors - for health monitoring
- Standards
- Structure
- Synthesis
- Tailoring
- Testing
- Vibration damping

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The official language of the ACUN-6 Conference will be in English.

Titles/Abstracts: deadline on 15th May 2012

Please submit Title / Abstract (short single spaced 250 words) of your paper for ACUN-6 as a Word file by Email to:

Dr Yu BAI at yu.bai@monash.edu

and cc to **Dr Sri BANDYOPADHYAY** at s.bandyopadhyay@unsw.edu.au

Do you know

ACUN conferences have a historical background: In 1998 at an ICCE Conference in Las Vegas USA, Dr Sri Bandyopadhyay (UNSW, Australia), Prof Sami Rizkalla (then at University of Manitoba, Canada), Dr Piyush Dutta (CRREL, USA), and Prof Debes Bhattacharyya (U Auckland, NZ) discussed the possibility of a totally new class of composites conference. This led to the birth of ACUN conferences: ACUN-1 in 1999, ACUN-2 in 2000, ACUN-3 in 2001, ACUN-4 in 2002, and ACUN-5 in 2006, all held at UNSW Australia.

Google (www.google.com.au) has over 3000 citations on ACUN conference. Also the ACUN-3, ACUN-4 and ACUN-5 conferences held at UNSW were ranked by its delegates from 21 countries as amongst the World's top 5 to 10 conferences they have attended in their career. ACUN-5 proceedings are available in full on <http://www.simpas.unsw.edu.au/pmp/acun-5/home.htm>.

We aim to make ACUN-6 even better.