

Committee

Scientific committee

Dibakar Bandopadhyay, *Indian Institute of Technology - Guwahati, India*

Aravid Dasari - *Nanyang Technological University, Singapore*

Rob Dorey - *Cranfield University, UK*

Andrzej Gałęski - *Polish Academy of Science, Poland*

Susheel Kalia - *Shoolini University of Biotechnology & Management Sciences, India*

Dirk Lehmkus - *University of Bremen, Germany*

James Njuguna - *Cranfield University, UK*

Sergio Pezzin - *State University of Santa Catarina, Brazil*

Krzysztof Pielichowski - *Cracow University of Technology, Poland*

Davide Roncato - *Centro Ricerche FIAT (CRF), Italy*

Yong Sheng - *Leeds University, UK*

Huijuan Su - *Northampton University, UK*

Nikos Tsourveloudis - *Technical University of Crete, Greece*

Raquel Verdejo - *Consejo Superior de Investigaciones Científicas (CSIC), Spain*

Paul Wambua - *Moi University, Kenya*

Jianqiao Ye - *Lancaster University, UK*

Shaik Zainuddin - *Tuskegee University, USA*

Huijun Zhu - *Cranfield University, UK*

Organizing committee

James Njuguna (Organising Secretary) - *Cranfield University, UK*

Sophia Sachse - *Cranfield University, UK*

Francesco Silva - *Cranfield University, UK*

Elias Nassiopoulou - *Cranfield University, UK*

Huijun Zhu - *Cranfield University, UK*

Jenny Kay - *Cranfield University, UK*

About Cranfield University

Cranfield University is a wholly postgraduate science, technology and management institution, known over the world for high-quality teaching, research and exceptional facilities. We offer a wealth of master's and research degrees in the specialist areas of aerospace, automotive, energy, environment, healthcare, manufacturing, management, and security and defence. We are closely aligned to the needs of industry and work with many global corporate partners such as Boeing, Rolls-Royce, Nissan and BAE Systems, Unilever and GlaxoSmithKline.

The campus lies about 10 minutes from the M1 motorway, the UK's main north/south artery, and has rail and road access to most major airports.

Situated mid-way between Oxford and Cambridge, it is close to thriving Milton Keynes, a new town with one of the largest covered shopping centres in Europe, and the historic riverside town of Bedford. Both have coach and train.

Contact:

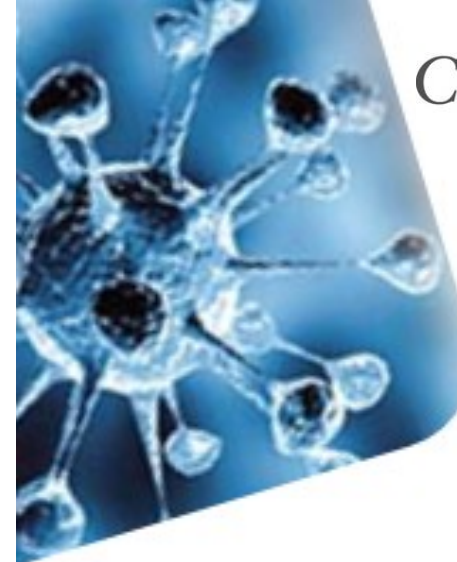
For further information please contact:

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NanoStruc

International Conference on Structural Nano Composites

July 2-4, 2012

Cranfield University

Bedfordshire, UK

www.nanostruc.info

EATON



Cranfield
UNIVERSITY

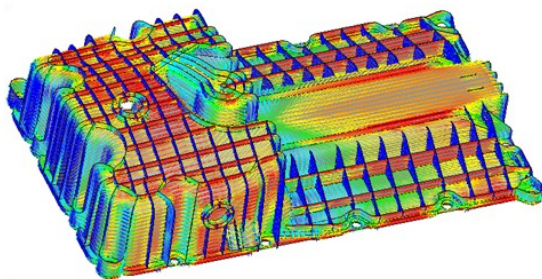


ECOSHELL



The conference

The purpose of the 2012 International Conference on Structural Nano Composites (NanoStruc 2012) is to promote activities in various areas of materials and structures by providing a forum for exchange of ideas, presentation of technical achievements and discussion of future directions. NanoStruc brings together an international community of experts to discuss the state-of-the-art, new research results, perspectives of future developments, and innovative applications relevant to structural materials, engineering structures, nanocomposites, modeling and simulations, and their related application areas.



Registration Fees

Delegate

Single Day Delegate: £100 GBP

Full Conference: £275 GBP

Students

Single Day Student: £80 GBP

Full Conference: £200 GBP

Authors/Presenters

Presenting Day : Free

Full Conference: £200 GBP

1 Gala Dinner and Wine Reception Per Delegate: £100

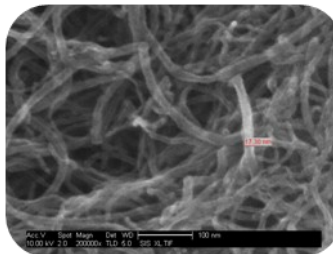
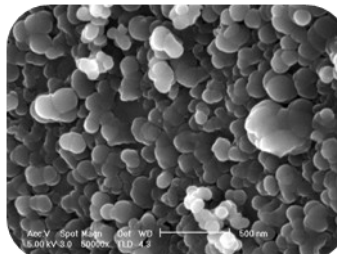
Exhibitions

Please contact Organising Seceretary at:

j.njuguna@cranfield.ac.uk

Conference scope

- Engineering Materials
- Biomaterials
- Self-healing materials
- Structural-Property relationship
- Mechanical performance of nanocomposites
- Damage and failure analysis of nanocomposite structures and composites
- Fracture mechanics of nanocomposites
- Impact, ballistic and energy absorption of polymer nanocomposites
- Structural health monitoring using nanotechnologies
- Passive and active control of structures using nanotechnology
- Manufacturing techniques including scale up/down concepts
- Nano-enhanced products design – embracing life cycle analysis (LCA) and life cycle costs analysis (LCC) driven approaches
- Safety of engineering polymer nanocomposites
- Modelling of composite materials and structures
- Multiscale (nano-micro-meso-macro) modelling



General Information

Important Dates

Abstracts Submission - [March 1, 2012](#)

Submission of Full Paper - [April 15, 2012](#)

Submission of Final Paper [May 15 2012](#)

Submit your abstract (for paper or poster) to:
j.njuguna@cranfield.ac.uk

Abstracts of up to 300 words should be submitted by 1 March 2011 and are subjected to double-blinded peer review; a response will be sent by 20 March 2012. If an abstract is accepted for the conference, a full draft paper should be submitted by 15 April 2012. Full paper submissions and authors will have reviewers' comments by 2 May 2012. Camera-ready papers should be returned to the conference committee by 15 May 2012 for inclusion in the proceedings.

Accepted Papers will be published in the IOP Conference Series: Materials Science and Engineering (MSE), and included in the NanoStruc® online digital library. The abstracts will be indexed in Scopus, Compedex, Inspec, INIS (International Nuclear Information System), Chemical Abstracts, NASA Astrophysics Data System and Polymer Library.

Preparing your proceedings paper

Authors are asked to prepare their papers using Microsoft Word or LaTeX, according to the journal guidelines and templates, and then convert these files to PDF.

You need to provide the PDF file of your paper, plus any accompanying material (multimedia etc). When preparing your paper please ensure that you:

- Use European A4 sized paper with 25mm margin
- 6 pages maximum
- Ensure that the paper includes an abstract



DSPACE

<https://dspace.org/>

Assessment of nanoparticle release and associated health effect of polymer-silicon composites

Zhu, Huijun; Irfan, Adeel; Sachse, Sophia; Njuguna, James

2014-04-15

<http://dx.doi.org/10.1088/1757-899X/40/1/012015>

Huijun Zhu, Adeel Irfan, Sophia Sachse and James Njuguna. Assessment of nanoparticle release and associated health effect of polymer-silicon composites. NanoStruc 2012 : Proceedings of the International Conference on Structural Nano Composites, 2-4 July, 2012, Cranfield, UK