



**Call for
Papers**

The Institute of Materials (East Asia)
Proudly Presents

M³_P

2008



The 7th International **C**onference on **M**aterials **P**rocessing for **P**roperties and **P**erformance (MP³)

Featuring the following Symposia:

+ 4th Symposium on Materials in Devices and Systems (MIDAS), Chair: R.V. Ramanujan

+ Biomaterials for the 21st Century , Chair: C.P. Ooi

+ Advanced Moulding and Forming Technologies, Chair: J. Zhao

Conference Chair: Prof. K.A. Khor

Important Deadlines

- Abstract submission to Ng Siu Din ASSDNG@ntu.edu.sg: **July 15, 2008**
- Notice of Acceptance: **August 31, 2008**
- Full manuscript: **September 30, 2008**

5 – 7 November 2008, [Nanyang Executive Center](#)

SINGAPORE

ORGANISED & SPONSORED BY: INSTITUTE OF MATERIALS (EAST ASIA)  Institute of Materials (East Asia)

CO-ORGANISED BY: Singapore Institute of Manufacturing Technology  Singapore Institute of Manufacturing Technology

SUPPORTED BY: Nanyang Technological University, Singapore






SCOPE:

The 7th International Conference on Materials Processing for Properties and Performance (MP³) will be held from **November 4-7, 2008**. It is sponsored by the Institute of Materials (East Asia) and co-organized by Nanyang Technological University (MSE, MAE, and SCBE) and Singapore Institute of Manufacturing Technology.

MP³ - The purpose of this annual inter-disciplinary conference is to bring together developments on aspects related to the processing, properties and performance of advanced materials. The conference will provide an attractive forum for researchers and engineers from industry, research laboratories, and academia. Both INVITED and CONTRIBUTED papers will be included. The topics of interest include, but are not restricted to:

Special Highlights:

-  *4th Symposium on Materials in Devices and Systems (MIDAS), Chair: R.V. Ramanujan*
-  *Biomaterials for the 21st Century, Chair: C.P. Ooi*
-  *Advanced Moulding and Forming Technologies. Chairs: J. Zhao and Y.W. Gu*

For updated information on each symposium please visit <http://www.materials.org.sg>

4th MIDAS – Materials In Devices And Systems Symposium

The 4th MIDAS symposium invites papers in materials in devices and systems. Currently there is an urgent need for novel materials in devices and systems for

- Data Storage and Retrieval
- Computing and Communication
- Energy Conversion
- Portable High Performance Multifunctional Devices
- Home, National and International Security

The development of these devices and systems will require novel materials and innovative ways of using these materials in the following interest areas:

- ◆ Magnetic Materials
- ◆ Microelectronic Materials
- ◆ Materials for Homeland Security
- ◆ Photonic Materials
- ◆ Rare Earth Materials

Biomaterials for the 21st Century



The Biomaterials Symposium will comprise of various presentation formats including plenary lectures, invited lectures, and contributed oral and poster presentations. The aim of the symposium is to bring together researchers from academia and industry to discuss the latest advances, current research directions and themes in biomedical materials research and application. Areas to be covered include:

- Biopolymers
- Bio-ceramics
- Bio-metals
- Bio-composites
- Coatings
- Surface Characteristics and Modification
- Protein and Cell Adhesion at Surface/Interface
- Tissue Engineering
- Drug Delivery Systems
- Nano-biomaterials

Advanced Manufacturing Methodology

-Novel Test Methods

Synthesis of Biomaterials

Advanced Moulding and Forming Technologies

The objective of this symposium is to provide an international forum for experts in modern material processing fields from around the world to exchange information, research ideas and present the latest advances and future perspectives of material processing technologies. The scope of the symposium will cover materials development, processing/fabrication technologies, modeling, simulation, characterization and applications of advanced materials and processes. Topics of interest include but are not restricted to:

Materials development

- Metal-matrix, ceramic -matrix and polymer matrix composites
- Nano-composites, nano-powders, and nanosized materials
- Advanced metal, ceramic and polymer materials
- Smart materials, bio-materials and packaging materials

Processing Technologies

- Precision machining and laser material processing
- Precision metal forming
- Polymer material processing
- Micro processing technologies
- Surface technologies
- ECO-friendly processes

Modeling and Simulation

- Moulding and forming process simulation
- Process control and monitoring
- Structural analysis
- Advanced 3D simulations

SUBMISSION OF ABSTRACTS

You are invited to submit electronically abstracts of 150-200 words before the deadline to Ng Siu Din (ASSDNG@ntu.edu.sg), indicating in your email the title of the relevant symposium. The abstract should start with TITLE of PAPER (in CAPITALS, center justified and bold) followed by full names of participating authors, their affiliation, and correspondence for mailing and e-mail address. If the topic of your abstract falls outside the scope of the Symposia, please submit your abstract to the following:

Prof. K.A KHOR, Conference Chair

School of Mechanical & Aerospace Engineering

Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798

Fax: 65 6 791 1859 | Tel: 65 6 790 5526 | Email: mkakhor@ntu.edu.sg

Sample Abstract:

**Paper Title in both upper and lower case, alignment: centred
Maximum 2 lines, Font: Times New Roman 12 bold.**

Z. AUTHOR₁, Y. AUTHOR₂ and X. AUTHOR₃
Affiliation₁, 12 points, Your University, Name of Your Country
W. AUTHOR₄
Affiliation₂, 12 points, Your University, Name of Your Country
E-mail: name@corresponding.author.edu

Text begins here. Times New Roman, font size 10 points. Maximum length 200 words.

Conference Chair

Prof. K.A. Khor Institute of Materials (East Asia); NTU

Symposium Chairmen

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MIDAS Organizing Committee (Chaired by Prof R.V. Ramanujan)

Prof. Chen Zhong School of Materials Science and Engineering, NTU
Prof. A. Tok School of Materials Science and Engineering, NTU
Prof. C.C. Wong School of Materials Science and Engineering, NTU

Biomaterials for the 21st Century Organizing Committee (Chaired by Prof. C.P. OOI)

Prof. K. L. Goh School of Chemical and Biomedical Engineering, NTU
Prof. S. Lim School of Chemical and Biomedical Engineering, NTU
Prof. L. P. Tan School of Materials Science and Engineering, NTU
Prof. D. A. Wang School of Chemical and Biomedical Engineering, NTU
Dr. Y. H. Zhu Institute of Chemical and Engineering Sciences, Ltd., A*STAR

Advanced Moulding & Forming Technologies Organizing Committee (Chaired by Dr J. ZHAO and Dr. Y.W. Gu)

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Prof. X. Hu School of Materials Science and Engineering, NTU
Dr. Q. Li Singapore Institute of Manufacturing Technology, A*STAR
Prof. X. Lu School of Materials Science and Engineering, NTU
Mr. S. Tong Singapore Institute of Manufacturing Tech, A*STAR
Dr. John Yong Singapore Institute of Manufacturing Tech, A*STAR

Registration Fees

S\$375.00 Student: S\$150

Mark your calendar today...Looking forward to seeing you in Singapore!