



# 8th Global Conference on Sustainable Manufacturing

Architecture for Sustainable Engineering  
- The UAE Case -



جامعة أبوظبي  
ABU DHABI UNIVERSITY

November 22 – 24, 2010  
at Abu Dhabi University Khalifa City Campus

## Chairman

**Prof. Dr.-Ing. G. Seliger**

Berlin Univ. of Technology, Germany

## Co-Chairman

**Prof. Dr. N. Ibrahim**

Abu Dhabi University, UAE

**Prof. Dr. M. K. Khraisheh**

Masdar Institute of Science and  
Technology, UAE

## Objective

United Arab Emirates (UAE) have become a venue for presenting innovations to competent partners in the global village. Sustainability engineering has evolved as a means to meet mankind's challenge of getting along with limited resources, of increasing wealth in all global regions and of applying the forces of market competition to promote value adding by innovative technology. New technologies have to be developed and applied for a sustainable product and process development thus protecting environment, health and increasing welfare.

The conference is expected to attract representatives from science and industry from several regions of the world to the UAE. It serves as a forum for research institutes and industrial partners related to the area of sustainable manufacturing. It enables them to get an overview on today's challenges and the national and international research and development activities to meet those in the region. Discussions and the sharing of experiences are highly welcomed. The conference offers keynote speeches, panel discussions, parallel sessions, a poster forum and a journal for awarded papers.

This eighth global conference on sustainable manufacturing supported by the International Academy for Production Engineering (CIRP) shall be a follow-up to previous conferences held at the Indian Institute of Technology Madras, India in December 2009, Pusan National University, Korea in October 2008, at Rochester Institute of Technology in Rochester, NY, USA in September 2007, at University of Sao Paulo, Brazil in October 2006, at Jiao Tong University, Shanghai, China in October 2005, at Technical University, Berlin, Germany in September 2004, as well as the Environmentally Benign Manufacturing workshop held in Birmingham, Alabama, USA, in January 2003.

## Conference Fees

### Regular Registration

Before October 1<sup>st</sup>, 2010 - Foreign:

600 USD; UAE: 2200 AED

After October 1<sup>st</sup>, 2010 - Foreign: 700

USD; UAE: 2570 AED

### Student Registration

Before October 1<sup>st</sup>, 2010 - Foreign:

250 USD; UAE: 920 AED

After October 1<sup>st</sup>, 2010 - Foreign: 350

USD; UAE: 1285 AED

## Topics

- Value adding by sustainable manufacturing in the UAE
- Potentials of renewables
- Education for sustainability engineering
- Green supply chain and transportation
- Microelectronics and resource efficiency
- Technology driven startups
- Sustainable products and manufacturing processes

## Registration Details

Regular and student registration fee covers meals for all three days as indicated in the agenda, as well as the first day's banquet, second day's get together and conference proceedings.



## Local Steering Committee

**Prof. Dr. J. Ahmad**  
The Petroleum Institute, UAE  
**Dr. B. Darras**  
American University of Sharjah, UAE  
**Prof. R. Hamade**  
American University of Beirut, Lebanon  
**Dr. K. Harib**  
UAE University, UAE  
**M.Sc. H. Al Hashemi**  
Dubai Institute of Technology, Technopark, UAE  
**Dr. M. A. Imam**  
Khalifa University of Science and Technology, UAE  
**Dr. Aly Nazmy**  
Abu Dhabi University, UAE  
**Prof. Dr. Y. Shatilla**  
Masdar Institute of Science and Technology, UAE

## International Steering Committee

**Prof. Dr. G. Byrne**  
University College Dublin, Ireland  
**Prof. Dr. D. Djurdjanovic**  
University of Texas, USA  
**Prof. Dr. D. Dornfeld**  
University of California, USA  
**Prof. Dr. J. Dufflou**  
Katholieke University Leuven, Belgium  
**Prof. Dr. D. Guanghong**  
Tsinghua University, China  
**Prof. Dr.-Eng. W. El Maraghy**  
University of Windsor, Canada  
**Prof. Dr. I. S. Jawahir**  
University of Kentucky, USA  
**Prof. Dr. J. Jeswiet**  
Queen's University, Canada  
**Prof. Dr. R. Jochem**  
University Kassel, Germany  
**Prof. Dr. K. Fumihiko**  
University of Tokyo, Japan  
**Prof. Dr. F. Klocke**  
RWTH Aachen, Germany  
**Prof. Dr. F. Kimura**  
University of Tokyo, Japan  
**Dr.-Ing. K.-D. Lang**  
Fraunhofer Institut, Germany  
**Prof. Dr. T. K. Lien**  
Norwegian Univ. of Science and Technology, Norway  
**Dr. J. Mackin**  
Abu Dhabi University, UAE  
**Prof. Dr. N. Nasr**  
Rochester Inst. of Technology, USA  
**Prof. Dr. J. Ni**  
University of Michigan, USA  
**Prof. Dr.-Eng. J. Oliveira**  
University of Sao Paulo, Brazil  
**Prof. Dr. A. Ometto**  
University of Sao Paulo, Brazil  
**Prof. Dr. H. Rozenfeld**  
University of Sao Paulo, Brazil  
**Prof. Dr.-Ing. F. Straube**  
Berlin Institute of Technology, Germany  
**Prof. Dr. A. A. Weckenmann**  
University Erlangen-Nürnberg, Germany

## Company Visits

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Emirates Aluminium Company



Emirates Steel Industries

## Submission Information

Interested authors should submit full papers (maximum 6 pages) in English, as a PDF or MS Word file. Guidelines to prepare the full papers is available in MS Word format in the conference website. These papers should be uploaded into the website for review and comments by the International Committee. English is the official conference language.

## Peer Evaluation

The submitted papers will be evaluated by scientists of the local and international steering committee.

## Publication

All accepted papers will be published in the conference proceedings, which will be available at the conference. At least one author must be registered and pay the registration fee in order for the papers to be published in the conference proceedings. Selected papers in their expanded versions will be fully reviewed and considered for possible publication in the International Journal of Sustainable Manufacturing.

## Conference Venue

The Conference will be held on the campuses of Abu Dhabi University and Masdar Institute of Science and Technology in Abu Dhabi, UAE.

The conference will be organised and funded by Aim Events the Conference and Event Organising division of Abu Dhabi University.

Abu Dhabi University and Masdar Institute regards this event as an excellent opportunity for Abu Dhabi to begin establishing itself as a location where serious academic and scientific conferences can be successfully hosted. In order to achieve the best possible result for Abu Dhabi and the UAE, Abu Dhabi University and Masdar Institute recognize the need to collaborate with other educational institutions and government bodies to deliver this event.

Masdar, is a multi-faceted initiative of the Abu Dhabi Government, focusing on driving a low carbon economy and delivering sustainable technology solutions. Masdar Institute of Science and Technology represents an excellent example of the development of Scientific Research and Education in the UAE.



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