

Final Call for Papers

Hosted by



Collocated with



ICM&P 2014

Advanced Materials and Processing Technology for Next Generation

The 5th JSME/ASME International Conference on Materials and Processing 2014

ICM&P 2014 (JSME, The 22th Materials and Processing Conference)

Organized by the Japan Society of Mechanical Engineers (JSME), the American Society of Mechanical Engineers (ASME), and the North American Manufacturing Research Institution of the Society of Manufacturing Engineers (NAMRI/SME)

June 9 - 13, 2014 Cobo Center, Detroit, Michigan USA

KEY SCHEDULE and DEADLINES

The 400-words abstract in English should be submitted to the conference website no later than **December 1, 2013.** Full paper due: **January 1, 2014.**

Acceptance notification: February 15, 2014 Final paper due: April 1, 2014,

Japanese Portal Site: http://www.jsme.or.jp/mpd/ICM&P2014/index_jp.html

Paper Submission and Registration Site: <http://www.asmeconferences.org/ICMP2014/index.cfm>

ABOUT THE CONFERENCE

In 2014, three leading international manufacturing and materials processing conferences – the 5th JSME/ASME International Conference on Materials and Processing (ICM&P) 2014 and the 9th ASME 2014 International Manufacturing Science and Engineering Conference (MSEC) and both co-sponsored by ASME and JSME, as well as the 42th NAMRC – An International Forum, sponsored by NAMRI/SME – will be collocated to better serve the needs of the manufacturing research community. The second-time collocated conference. The first-time was hosted by Oregon State University in 2011. In this time, these co-located conferences will be hosted by University of Michigan, at the Cobo Center, located on Detroit's revitalized riverfront, in conjunction with the SME Big M event and exhibition.

PURPOSE & SCOPE

Collaborated symposium of JSME, ASME, and NAMRI/SME in ICM&P2014 encourages the exploration of collaborative research and technology transfer and promotes professional networking. Papers reporting original and the latest basic and applied research in material and manufacturing processes and systems are sought. Research topics highlighted by ICM&P 2014 include, but are not limited to:

TECHNICAL TRACKS

Track 1: Materials

- 1-1: Advances in Manufacturing and Application of Metal Matrix Composites(A1-2)
- 1-2: Ceramics and Ceramic Matrix Composites
- 1-3: Cutting-Edge Technologies and Innovation Around Soft Matter
- 1-4: Design, Fabrication and Evaluation of Smart and Advanced Materials
- 1-5: Dynamic Behavior of Materials and Structures
- 1-6: Novel Porous Materials and their Applications
- 1-7: Polymer and Polymer Matrix Composites
- A1-1: Advances in Experiments and Modeling of Micromechanics and Microstructure Evolution in Manufacturing Processes

Track 2: Processing

- 2-1: Advanced Casting and Semisolid Forming Techniques
- 2-2: Advanced Fabrication Process
- 2-3: Advanced Powder Processing Technique
- 2-4: Advances in Additive Manufacturing(A2-6)
- 2-5: Advances in Manufacturing Processes of Biomedical Materials and Products(A2-8)

2-6: Forming and Joining of Traditional and Lightweight Materials(A2-5)

2-7: Surface Modification Technology, Coating, Wear and Tribology (A2-12)

2-8: Welding/Joining/Particle Deposition/Surface and Interface

A2-1: Laser, Process Innovations and Energy Field Manufacturing Methodology

A2-2: Advances in Modeling, Analysis, and Simulation of Manufacturing Processes

A2-3: Advances in Abrasive Machining Processes in honor of Professor Steve Malkin

A2-4: Advances in Nontraditional Manufacturing Processes

A2-7: Advances in Manufacturing Processes of Biomedical Instruments

A2-9: Advancement in Manufacturing Processes for Energy Efficiency

A2-10: Equipment and Tooling Design Innovations to Enhance Manufacturing Processes

A2-11: Modeling, Monitoring and Control of Semiconductor Manufacturing Processes and Systems

A2-13: Advances in Processing of Polymer and Polymer-Based Composites

Track 3: Micro and Nano Technologies

3-1: Creation and Applications of Micro-Nano Materials

3-2: Micro/Nano Scale Fabrication Processes(A3-1)

Track 4: Properties, Applications and Systems

4-1: Monitoring, Sensing, and Control for Intelligent Machining and Inspection(A4-9)

A4-1: Advances in Concurrent Product Design and Manufacturing Systems

A4-2: Advances in Manufacturing Systems Research for Energy Efficiency and Green Energy

A4-3: Mechatronics for Advanced Manufacturing

A4-4: Advances in Quality and Process Control in Manufacturing Systems

A4-5: Challenges in Cloud Manufacturing

A4-6: Optical Metrology and Imaging for Manufacturing Industry

A4-7: System-level Integration of Additive Manufacturing for Design, Production and Supply Planning

A4-8: Competitive Manufacturing Engineering

Track 5: Sustainable Manufacturing

A5-1: Sustainable Manufacturing for Emerging Technologies

A5-2: Sustainable Industrial Systems

A5-3: Advances in Manufacturing of Sustainable Composites

1-1: etc. JSME ICM&P Symposia

1-1: (A1-2)etc. Collocated Symposia

A1-1:etc. ASME MSEC Symposia

(You should submit paper from MSEC site)

Cobo Center: <http://www.cobocenter.com/>

Japanese Portal Site: http://www.jsme.or.jp/mpd/ICM&P2014/index_jp.html

Paper Submission and Registration Site: <http://www.asmeconferences.org/ICMP2014/index.cfm>

REGISTRATION FEE

	~ April 8	April 9~
JSME/ASME member	\$650	\$750
Non-member	\$700	\$800
Student (JSME/ASME member)	\$350	\$450
Student (Non-member)	\$400	\$500

The registration fee includes admittance to all the conference events, a copy of the abstracts, a CD-ROM of proceedings coffee breaks, lunches, reception and banquet.

PRESENTATIONS

The presentations are basically planned to be oral. In the event of a large number of accepted papers, some will be assigned to poster sessions. This determination will be made by the Program Committee. Moreover, poster workshop for students is collaborated with Japan-US Advanced Collaborative Education Program (JUACEP: <http://www.juacep.engg.nagoya-u.ac.jp/>)

PREPARATION OF PROCEEDING PAPERS

The proceeding paper must be written in English. Length of the paper is more than 2 pages and no more than 10 pages (fully formatted, two-column, 8.5 x 11 in. pages). Details will be available on the conference website: <http://www.asmeconferences.org/ICMP2014/index.cfm>
Authors should send their manuscript no later than the dead line in the conference website. Notification of acceptance will be given by February 15, 2014.

SUBMISSION OF ABSTRACT

Authors should submit a 400-words text abstract, no later than December 1, 2013, through the conference website including

- 1) Paper title, 2) Authors' names, 3) Affiliation,
- 4) Job title, 5) Mailing address, 6) Phone and fax, and
- 7) E-mail address.

(http://www.jsme.or.jp/mpd/ICM&P2014/index_jp.html (in Japanese)
or <http://www.asmeconferences.org/ICMP2014/index.cfm>)

PUBLICATION

JSME is planning to publish a brand-new e-journal, Mechanical Engineering Journal. It will be commenced in February, 2014. Authors are encouraged to submit original papers to this journal. Their papers will be peer-reviewed again in accordance with the editorial policy. Authors who would like to submit to the transactions of ASME are also encouraged. Details will be available on the conference website.

CONFERENCE COMMITTEE MEMBERS

Conference Chair:

H. Kyogoku Kinki University

Conference Vice-Chair:

S. Hata Nagoya University

Advisory Committee:

N. Ohtake (Chair) Tokyo Institute of Technology
S. Ogihara (Co-Chair) Tokyo University of Science

M. Asakawa Waseda University
A. Azushima Yokohama National University
K. Fujimoto The University of Tokyo
T. Hattori Gifu University
H. Kawada Waseda University
S. Matsuoka Meiji University
H. Miura Kyushu University
T. Murai Japan Science and Technology Agency

Y. Suga Keio University
A. Suzumura Tokyo Institute of Technology
N. Takeda The University of Tokyo

International Advisory Committee:

H. Asanuma (Chair) Chiba University
H. Yamauchi (Co-Chair) University of Florida
H. Aoki Nagoya University
Y. Ito Nagoya University
K. Dohda Northwestern University
K. Kurabayashi University of Michigan
T. Matsumura Tokyo Denki University
V. Michau École Polytechnique Fédérale de Lausanne

Y. Mutoh Nagaoka University of Technology
M. N. G. Nejhad University of Hawaii at Manoa
Y. Ju Nagoya University
N. Ohtake Tokyo Institute of Technology
A. Schönecker Fraunhofer IKTS
M. Taya University of Washington
T. Umehara Nagoya University

Executive Committee:

S. Hata (Chair) Nagoya University
S. Kobayashi (Co-Chair) Tokyo Metropolitan University
Y. Miyashita Nagaoka University of Technology
M. Mizoshiri Nagoya University
W. Nakao Yokohama National University

Scientific Committee:

M. Itabashi (Chair) Tokyo University of Science, Suwa
C. Sato (Co-Chair) Tokyo Institute of Technology
H. Akasaka Tokyo Institute of Technology
H. Cho Aoyama Gakuin University
I. Ihara Nagaoka University of Technology
K. Kaneko Tokyo University of Science
G. Murasawa Yamagata University
S. Nakano National Institute of Advanced Industrial Science and Technology
F. Narita Tohoku University
T. Ogasawara Japan Aerospace Exploration Agency
K. Sakaki Shinshu University
Y. Saotome Tohoku University

Y. Shimamura Shizuoka University
S. Suzuki Waseda University
Y. Watanabe Nagoya Institute of Technology

Program Committee:

S. Kishimoto (Chair) National Institute for Materials Science
K. Shinagawa (Co-Chair) Kagawa University
K. Fujimoto The University of Tokyo
H. Furukawa Yamagata University
T. Haga Osaka Institute of Technology
T. Kohsaka Kochi University of Technology
R. Matsumoto Osaka University
Y. Miyashita Nagaoka University of Technology
W. Nakao Yokohama National University
S. Ogihara Tokyo University of Science
M. Otsu University of Fukui
M. Yang Tokyo Metropolitan University

INQUIRY

Seiichi Hata,
Professor, Nagoya University,
Conference Vice-Chair
ICM&P2014
Phone: +81-52-789-5223
FAX: +81-52-789-5032
Mail: hata@mech.nagoya-u.ac.jp

LOCATION AND SIGHT SEEING

Detroit, a major metropolis in the US state of Michigan, has had a profound impact on the world. From the advent of the automotive assembly line to the Motown sound, modern techno and rock music, Detroit continues to shape both American and global culture. The city has seen many of its historic buildings renovated, and is bustling with new developments and attractions that complement its world class museums and theaters. Detroit is an exciting travel destination filled with technological advance and historic charm.

Cobo Center: <http://www.cobocenter.com/>

Japanese Portal Site: http://www.jsme.or.jp/mpd/ICM&P2014/index_jp.html

Paper Submission and Registration Site: <http://www.asmeconferences.org/ICMP2014/index.cfm>