

The First Announcement and Call for Papers



The 6th International Conference on Leading Edge Manufacturing in 21st Century November 8(Tue.) to 10(Thr.), 2011, Saitama, Japan

LEM21

Venue: Omiya Sonic City Convention Center

Sponsored by the Japan Society of Mechanical Engineers (JSME)

Organized by Manufacturing and Machine Tool Division

Web site: <http://www.tuat.ac.jp/~lem21/>



Topics and fields:

- Advances in Cutting and Abrasive Machining Technologies
(New Tools and Tool Materials, Machining of Advanced Materials, High Speed Machining, etc.)
- Advances in Physical and Chemical Processing
(Laser Processing, Electrical Machining, Coating Technologies, Electron / Ion Beam Processing etc.)
- Ultra Precision Machining and Fabrication
- Nano / Micro Manufacturing and Measurement
- Environmentally Conscious Manufacturing
- Rapid Prototyping
- Die and Mold Manufacturing Technologies
- Advanced Machine Tools and Machine Elements
(Multi-function Machine Tools, Multi-axis Control, Intelligent Machine Tools, CAM, Monitoring, etc.)
- Ultra Precision Positioning, Control and Metrology
- Micro Machines, Systems and Intelligent Instruments
- Digital Design and Manufacturing
(Precise and Fast CAE Method, Visualization Technology, Physical Manufacturing Simulation, etc.)
- Evolutions Based on System Engineering for Next-generation Manufacturing Systems
(Scheduling, CAPP, Life Cycle Assessment, etc.)
- Other Manufacturing-related Technologies

Important dates:

Deadline of paper application with abstract:

April 22, 2011

Notification of tentative acceptance based on abstract:

April 30, 2011

Deadline of camera-ready manuscript submission:

May 31, 2011

Notification of paper acceptance:

June 30, 2011

Deadline of final camera-ready manuscript:

July 31, 2011



Application:

An application form in English in one page of A4 size is required for every paper. An application form must include (1) *the title of the paper*, (2) *names and affiliations of the corresponding author and co-authors*, (3) *full contact address*, (4) *phone and facsimile numbers*, (5) *E-mail address*, (6) *Abstract of about 400 words including concise statement of objectives, clear description of achieving the objective and precise conclusions of the findings*, (7) *key words of the covered areas*, and (8) *One of organized sessions indicated below*. The first author who is 35 years old or less is recommended to write his or her birthday for the selection of the outstanding young researcher award. The application form with the abstract formatted in **PDF** should be submitted through the following website **no later than March 31, 2011**: <http://www.tuat.ac.jp/~lem21/>

Conference registration fee:

Regular: early registration, before **July 31, 2011** ¥ 50,000- (JSME member), ¥ 55,000- (Non-member)

Late registration: after July 31, 2011 ¥ 60,000- (JSME member), ¥ 65,000- (Non-member)

Student (without only the proceedings): ¥ 20,000- (JSME member), ¥ 35,000- (Non-member)

If you present two or more papers, an extra paper costs ¥ 10,000 each. The registration fees except for "Student" will cover all sessions of the conference, the proceedings, refreshments and banquet. Registration fee paid is never refunded. The presenter of a conference paper must complete the registration along with the appropriate payment before **July 31, 2011**. If not, the paper is refused and is not included in the proceedings. An accompanied person is invited to the banquet. The conference program, venue, transportation, information on hotels and other details will be notified in the conference website:

Organized sessions and Organizers:

No.	Session title	Organizer
(1)	Advanced machine tool	Keiichi SHIRASE, Yoshitaka MORIMOTO
(2)	Evaluation of machine tool performance	Shinji SHIMIZU, Soichi IBARAKI
(3)	Multi-axis control and Multi-tasking machining	Yoshimi TAKEUCHI, Koichi MORISHIGE
(4)	Precision positioning and control technology	Atsushi MATSUBARA, Tadahiko SHINSHI
(5)	Advanced machining technology	Toshiyuki OBIKAWA, Hitoshi USUKI, Hiroyuki SASAHARA
(6)	Analytical advancement of machining process	Yoshio MIZUGAKI, Takashi MATSUMURA, Masahiro ANZAI
(7)	Ultra-precision machining	Koichi OKUDA, Hirofumi SUZUKI, Jiwang YAN, Osamu ONISHI
(8)	Grinding technology	Hwa-Soo LEE, Kazuhito OHASHI
(9)	Super abrasive grinding technology	Minoru OTA, Yoshio ICHIDA, Akinori YUI
(10)	New developments in abrasive finishing technology	Yoshiharu NAMBA, Toshiyuki ENOMOTO, Hitomi YAMAGUCHI, Yanhua ZOU
(11)	Electrical machining	Akira OKADA, Shinya HAYAKAWA, Tohru ISHIDA
(12)	Laser processing	Yasuhiro OKAMOTO, Hirofumi HIDAI
(13)	M4 processes (micro/meso mechanical manufacturing) and micro-manufacturing for science	Tsunemoto KURIYAGAWA, Noboru MORITA, Libo ZHOU, Jun TANIGUCHI, Arata KANEKO
(14)	Nano precision Elid-grinding	Hitoshi OHMORI, Nobuhide ITOH, Weimin LIN
(15)	Nano / micro measurement and intelligent instruments	Yasuhiro TAKAYA, Wei GAO, Satoru TAKAHASHI
(16)	Environmentally conscious machining	Fumihito ITOIGAWA,, Katsuhiko SAKAI, Yasuo KONDO
(17)	Monitoring of machining process	Eiji KONDO, Tadao KAWAI
(18)	Advanced Die & Mold Manufacturing Technologies, Rapid Technologies and Additive Manufacturing	Hiroyuki NARAHARA, Takeshi NAKAMOTO, Toshiki NIINO
(19)	Digital design and digital manufacturing (CAD / CAM)	Hideki AOYAMA, Fumiki TANAKA
(20)	Manufacturing systems and scheduling	Rei HINO, Koji IWAMURA, Nobuhiro SUGIMURA
(21)	Other manufacturing-related technologies	Takashi MATSUMURA

Paper submission:

Technical papers should be written in English and 4 or 6 pages with text, figures, tables and references. The author's instruction for paper preparation would be opened in the web site. Excellent papers would be awarded and recommended to the following journals; "Journal of Advanced Mechanical Design, Systems, and Manufacturing" or "International Journal of Automation Technology". The acceptance of their papers would be decided based on different reviewing process.

Conference Chairs:

General Chair:

Masaomi Tsutsumi, Professor, Tokyo University of Agriculture and Technology

Conference Cochair:

Minoru OTA, Professor, Kyoto Institute of Technology

Tsunemoto KURIYAGAWA, Professor, Tohoku University

Kennichiro HORIO, Professor, Saitama University

Program Chair:

Takashi MATSUMURA, Professor, Tokyo Denki University,

General contact: E-mail: lem-jsme@cc.tuat.ac.jp

Conference website: <http://www.tuat.ac.jp/~lem21/>