

The First Announcement and Call for Papers

The 4th International Conference on Leading Edge Manufacturing in 21st Century

LEM21

November 7-9, 2007, Fukuoka, Japan

Venue: Fukuoka International Congress Center

Sponsored by the Japan Society of Mechanical Engineers (JSME),

Organized by the Manufacturing and Machine Tool Division and the Manufacturing Systems Division



Topics and fields: (1) Advances in Cutting and Abrasive Machining Technologies (New Tools and Tool Materials, Machining of Advanced Materials, High Speed Machining, etc.), (2) Advances in Physical and Chemical Processing (Laser Processing, Electrical Machining, Coating Technologies, Electron / Ion Beam Processing etc.), (3) Ultra Precision Machining and Fabrication, (4) Nano / Micro Manufacturing and Measurement, (5) Environmentally Conscious Manufacturing, (6) Rapid Prototyping, (7) Die and Mold Manufacturing Technologies, (8) Advanced Machine Tools and Machine Elements (Multi-function Machine Tools, Multi-axis Control, Intelligent Machine Tools, CAM, Monitoring, etc.), (9) Ultra Precision Positioning, Control and Metrology, (10) Micro Machines, Systems and Intelligent Instruments, (11) Digital Design and Manufacturing (Precise and Fast CAE Method, Visualization Technology, Physical Manufacturing Simulation, etc.), (12) Evolutions Based on System Engineering for Next-generation Manufacturing Systems (Scheduling, CAPP, Life Cycle Assessment, etc.), (13) Other Manufacturing-related Technologies

Important dates:

Deadline of paper application with abstract:	March 31, 2007
Notification of tentative acceptance based on abstract:	April 30, 2007
Deadline of camera-ready manuscript submission:	May 31, 2007
Notification of paper acceptance based on camera-ready manuscript:	July 9, 2007
Deadline of final camera-ready manuscript submission of requested papers:	August 6, 2007

Application:

An abstract of about 400 words in English in one page of A4 size is required for every paper. All abstracts 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) concise statement of objectives, clear description of achieving the objectives, precise conclusions of the findings and (7) *key words* of the covered areas. (8) One of organized sessions or technical topics should be specified in the abstract. The first author who is eligible for the outstanding young researcher award is recommended to write his or her birthday. The application form with the abstract formatted in **PDF** should be submitted to the following E-mail addresses **no later than March 31, 2007:**
lem21.jsme@gmail.com, LEM21 Program Committee, Kyushu Institute of Technology

Paper submission:

Technical papers should be written in English and 4 or 6 pages with text, figures, tables and references. Under the permission of the LEM21 Program committee, up-to 8 pages would be accepted. The author's instruction for paper preparation would be open in the web site below. Excellent papers would be awarded and recommended to the submission to the International Journal of the Japan Society of Mechanical Engineers. The acceptance of their papers would be decided based on different reviewing process.

Web site: <http://www.2007lem21.jp>

LEM21 General Chair:

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Conference registration fee:

Regular: Early registration, before August 6, 2007	¥ 50,000-
Late registration, after August 6, 2007	¥ 60,000-
Student: With banquet	¥ 20,000-
Without banquet	¥ 12,000-

The registration fees except for "Student without banquet" 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 August 6, 2007. An accompanied person is invited to the banquet. The conference program, venue, transportation and other details will be notified in the home page of the conference: <http://www.2007lem21.jp>

Hotel Accommodation:

Information on hotels will be available in the web site by the information of a travel agent. Special rates for delegates will be announced.

Organized sessions:

Organized session	Organizer
Advanced machine tool	Keiichi SHIRASE, Yukitoshi IHARA
Advanced machining technology	Toshiyuki OBIKAWA, Hiroyuki SASAHARA
Analytical advancement of machining process	Hiroyasu IWABE, Yoshio MIZUGAKI, Takashi MATSUMURA, Masahiro ANZAI, Toyoshiro INAMURA, Hisataka TANAKA
Super abrasive grinding technology	Yoshio ICHIDA
Digital design and digital manufacturing (CAD / CAM)	Hideki AOYAMA
Drilling technology	Hiromichi ONIKURA, Akio KATSUKI
Electrical machining	Akira OKADA, Shinya HAYAKAWA
Evaluation of machine tool performance	Shinji SHIMIZU
Grinding technology	Hwa-Soo LEE
Lapping and polishing	Yoshiharu NAMBA, Takeshi TANAKA
Laser processing	Takashi UEDA, Etsuji OHMURA, Muneharu KUTSUNA
M ⁴ processes (micro / meso mechanical manufacturing) and micro-manufacturing for science	Tsunemoto KURIYAGAWA, Jun TANIGUCHI, Kiwamu ASHIDA, Libo ZHOU, Noboru MORITA
Manufacturing systems and scheduling	Nobuhiro SUGIMURA
Monitoring of machining process	Eiji KONDO, Tadao KAWAI, Masahiko SATO
Nano precision ELID-grinding	Hitoshi OHMORI
Multi-axis control machining and measurement	Yoshimi TAKEUCHI, Hiroshi SUZUKI
Nano / micro measurement and intelligent instruments	Yasuhiro TAKAYA, Wei GAO
Precision positioning and control technology	Atsushi MATSUBARA, Tadahiko SHINSHI
Processing of advanced materials	Takao YAKOU
Surface and edge finishing	Hitomi YAMAGUCHI, SungLim KO
Ultra-precision machining	Koichi OKUDA, Hirofumi SUZUKI, Jiwang YAN
Life cycle engineering	Yasushi UMEDA

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