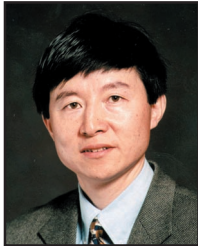




Manufacturing Engineering Division

EDITOR: James Stori

FALL 2003



MESSAGE FROM THE CHAIR ▼ *Jun Ni, Chair*

Greetings to all Manufacturing Engineering Division (MED) members! As the Chair of the 2003-2004 MED

Executive Committee, I was asked to write a short message to share my thoughts with you in the Division newsletter.

First, I would like to introduce to you the new MED Executive Committee members: Scott Smith (Vice-Chair), Dave Stephenson (Program Chair), Steven Liang (Secretary), and Michael Molnar (Incoming Member). Our staff from ASME is Noha El Ghobashy. Of course, the most important team members are you, the volunteer MED members. We will count on your participation and help!

Since taking on the position of division chair last summer, I have been thinking a great deal about who we are, what we do and what programs and services the Division could provide to better serve its members. As the nation's manufacturing activities ebb, manufacturing engineering in its traditional sense may not be a fashionable profession these days. However, over the years, manufacturing continues to be the major indicator of the national economy as well as the global financial health. It has vast impact on the quality of people's lives.

Over the past several months, I have attended a number of conferences and walked away with one central theme: Manufacturing Matters! Various federal and state government agencies have again realized the importance of manufacturing. For instance, in the state of Michigan where I am from, the newly elected Governor Jennifer Granholm's message to the state is "Manufacturing Matters in Michigan!" At the federal level, President George Bush recently created a new position called Assistant Secretary for Manufacturing in the Department of Commerce to emphasize the importance of manufacturing.

We, the manufacturing professionals, should also think about the changing environment in manufacturing. The world around us has changed dramatically in recent years. As technical professionals are we changing fast enough? As a technical division, is MED responsive enough to the changing needs of its members? Here I want to use a famous quote from Charles Darwin (1809-1882)

"It is not the strongest of the species that survive, nor the most intelligent, but the ones most responsive to change."

Recently, the MED has implemented a number of new initiatives in order to improve the quality of our programs (such as technical symposia and publications), to reach out to a broader spectrum of MED memberships (not just academics, but also industrial practitioners and students), and to create opportunities for more member participation. The new initiatives include:

1. Restructure of the technical committees (TC). The new TC structure now covers most MED members' technical interests. The TCs are charged with the responsibility of identifying and selecting technical symposia topics covering not only the members' core technical areas of interest, but also the new emerging fields. The new TC structure will allow more members to contribute to the division's technical programs.
2. Participation in National Manufacturing Week (NMW). To be more responsive to our industrial members, MED actively participated in NMW and offered many high quality technical sessions. The goals of these sessions were to disseminate information on the latest developments in manufacturing technology as well as to learn the real world concerns from practicing engineers. MED also generated some additional revenues for its participation. Thanks to Shiva Raman for his leadership and hard work!
3. MED Congress Program Committee. Instead of relying on one MED Executive Committee member to serve as the program chair, an MED Congress Program Committee has been in place for two years. The program committee has a chair, a vice chair, and members consisting of all TC chairs. Last year Jian Cao and Bill Endres served as the Chair and Vice -Chair. This year Bill Endres and Lawrence Yao are the Chair and Vice-Chair. This new structure has proven to be very effective. It also allows active participation from different TCs.

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To further strengthen our future participation at NMW, we have invited our ASME past president, William Weiblen to jointly develop a strategic plan for MED's NMW program. Bill has graciously accepted our invitation and has already started to work on next year's program with Shiva Raman.

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In closing, I want to encourage every MED member to actively contribute to and participate in our program activities. We need to respond to the changing needs of our members and we are soliciting new ideas from every one of you. Please feel free to send me any suggestions via email (junni@umich.edu). ▼

The MED Program at the 2004 IMECE (November 14 - 19, 2004, Anaheim, CA) will build on a broadened topical content organized under the new Technical Committee (TC) structure. The goal is to increase involvement of the R&D communities of academia, industry and government agencies, in various areas of manufacturing science and engineering, expanding beyond the historical focus on processes. A complete list of MED-sponsored symposia, including technical focus and contact information, is provided below with additional information provided on the following site: <http://www.asme.org/divisions/med/call/imeccfp04.pdf>. Authors should submit a text-only abstract by **January 31st, 2004** via the ASME Congress website ONLY at <http://www.asme.conferences.org/imece04>, (to be launched in late 2003). Suitability to the symposium topic will be confirmed and subsequent due dates for full papers, notification of acceptance, revised papers, and final acceptance will be posted on the same site, along with additional details and updates. Authors may also consult <http://www.asme.org/divisions/med/call/> for updates. For further information about any symposium, please contact the respective co-organizers. No abstracts are to be submitted to the organizers below; all submissions will only be accepted via the congress website above. For general information, please contact:

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Emerging Technologies in Manufacturing (MED Division wide)

Meso/micro/nano manufacturing processes/machines/tools, manufacture and processing of bio-materials, handling/fixturing/assembly of miniature parts, advances in rapid manufacture/repair of functional parts using hybrid manufacturing technologies, formation of submicron/nanocrystalline microstructures using severe deformation processing methods.

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Advances in Nontraditional Manufacturing (Manufacturing Processes TC)

Electromachining (EDM, ECM), Beam Processing (Laser, Plasma), Finishing and Deburring Techniques, Surface Processing (Coating, Texturing), Electroforming, Surface Integrity Issues Related to Nontraditional Processing, New Industrial Applications of NTM Processes, Environmental and Safety Issues in NTM Processes, and Hybrid Manufacturing Processes.

Prof. Robert E. Williams, University of Nebraska-Lincoln, Tel: 402-472-4755
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Tel: (518) 387-6530, Email: weib@crd.ge.com

Material Forming: Design, Processing and Characterization (Manufacturing Processes TC)

Traditional material forming process improvement and new forming process development for new materials; Understanding and simulation /characterization capability enhancement at various scales; In-process quality improvement; Analysis of industry trends in R&D and new technology development; Product/process design and optimization of material forming at the manufacturing system level.

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Advances in Materials Joining Technology (Manufacturing Processes TC)

New joining technology development, Influence of material properties on joining process and joint quality, Interactions of joining with other manufacturing processes, Innovation in joining quality testing, Joining process monitoring and control, Joining process simulation, Residual stress evolution and reduction

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Mechanics and Tribology of High Speed Machining (Manufacturing Processes TC)

The modeling and simulations of serrated (segmented, or saw-toothed) chip formation; Material constitutive modeling at the high strain-rate and high temperature conditions; Characteristics of tool-chip interfacial friction; Effects of super-hard coatings and coolants/lubricants; The modeling of cutting forces and temperatures; The modeling of tool wear and tool life; Chip flow, chip curl, and chip-breaking mechanics.

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Control of Manufacturing Machines, Processes, and Systems (Manufacturing Equipment TC)

Precision material removal and deposition, Modular and reconfigurable software architectures, Process control of machining and non-traditional processes, Parallel (simultaneous) manufacturing systems, Geometric and thermal error compensation, Manufacturing system supervision, Multi-spindle systems, High-speed contouring, Intelligent manufacturing systems, Robust control techniques, Deburring and finishing processes.

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Email: landersr@umr.edu

Dr. L. Ken L. Saunders, University of Colorado, Tel: (719) 262-3252
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The Influence of Process Dynamics on Traditionally Machined Surfaces (Manufacturing Equipment TC)

Machining dynamics as it relates to machined surface quality, Machined surface finish, Dimensional accuracy and feature errors related to machining force, workpiece and/or tool dynamics, Variability in surface quality due to effects of variability in process inputs, Sensor introduction into the machining environment, Part distortion or

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Call for Papers

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cracking caused by machining processes relieving or inducing residual stress.

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Configuration Design and Management for Manufacturing Equipment (Manufacturing Equipment TC)

Development and application of modular machines and devices, Methodologies for design of modular machines and devices, New design concepts of reconfigurable automation equipment, Modular machine interface design and implementation (mechanical design), Simultaneous mechanical/control design for reconfigurable automation equipment, Configuration management for reconfigurable automation equipment, Economic (life-cycle) models of reconfigurable automation equipment.

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Email: jmanjunathaiah@lambtech.com*

Distributed Automation for Manufacturing Systems (Manufacturing Systems TC)

Distributed Automation Frameworks, Methodologies and Implementations, Distributed Numerical Control Systems, Distributed Control of Discrete Event Systems., Distributed Control of Flexible Manufacturing Systems and Cells, Mixed-Initiative Distributed Control in Manufacturing, Integrated Environments for Design of Distributed Automation Applications, Distributed and Agent-Based Implementation of Process and Production Planning Functions.

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Computational Geometry in Design and Manufacturing (Manufacturing Systems TC)

CAD/CAM and NC machining, High speed machining and NC tool path optimization, Geometric processing and modeling for design, analysis, visualization, process planning and manufacturing, Shape interrogation and feature identification for design, planning and manufacturing, Complex surface design and machined surface error analysis, Geometric analysis and machining dynamics for machined surface quality.

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Reliability of Manufacturing Systems (Quality and Reliability TC)

Physics-based models of reliability, Reliability analysis techniques, Reliability case studies and reliability data bases, Standards and procedures for reliability prediction, Deterministic and stochastic models of machine reliability, Condition based maintenance, Accelerated testing of system reliability, Reliability growth and improvement models, Signal processing methods for reliability analysis, Multi-sensor fusion and meta-analysis for reliability applications, Reliability Optimization, Design for Reliability.

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Surface Quality — Modeling, Analysis and Measurement (Quality and Reliability TC)

Recent trends in Engineering and Co-ordinate Metrology, Meso and Nano Scale metrology: Development of advanced smart sensors including application of wireless, micro-electro-mechanical system (MEMS), power-scavenging technologies and metrology

challenges in meso-scale machine tool manufacturing, Predictive Process Metrology: Development of measurement methods to provide in-situ, real-time, or process intermittent information, such as machine dynamics, thermal measurements during material removal, dynamic high temperature-high strain rate material response, Surface Metrology trends including nanotechnology, semiconductor applications.

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Advanced Condition Monitoring and Maintenance Technologies (Life Cycle Engineering TC)

Sensors and signal processing algorithms, Equipment condition and processes monitoring, Diagnosis and prognosis methodology, CBM system design and optimization, Maintenance action scheduling based on CBM and Reliability life models, Industrial case studies.

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Environmental Issues in the Product Life-Cycle (Life Cycle Engineering TC)

Product take-back, Inverse Manufacturing, Product lease/servicizing, Integrated Product Policy, Value recovery instead of material recovery, Waste reduction/elimination during material acquisition, manufacturing, use, and end-of-life, Greening Supply Chain, Extensible Life-Cycle Models, and Decision-making Methodology and Support Tools in the area. ▼

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It was with pleasure that I assumed the responsibility of Technical Editor of one of the most reputed journals in the field of manufacturing in March of 2002. Since that time, the journal has advanced steadfastly through the transition of a new Editor and the transition of using a new, online review system. JMSE began accepting online submissions in October of 2002 on the ASME website <http://journaltool.asme.org>. I should note that we no longer accept hardcopy submissions because of the availability of the online system. Authors may submit their manuscripts electronically in PDF format.

The transition to using the online system has been very smooth and everyone has been very supportive, including authors, reviewers, associate editors, and the ASME Technical Office. I would like to thank all of these individuals for their support and patience during the transition to using the online review system. Currently, there are about 220 papers in the system and we are well on our way to reaching more than 200 submissions for the year 2003. The journal has not had more than 200 submissions in one year since 1994.

Despite the good news of the increased submissions, I would like to remind everyone that JMSE is behind its peers in terms of its impact factor. A major reason for the low impact factor is the long review time for papers submitted to the journal. It is important that the review time be shortened. To accomplish this, I encourage all members and reviewers of JMSE to expedite the review process.

To help with improving the journal, I am pleased to announce the addition of three new associate editors this year – Jian Cao (Northwestern University), C. James Li (Rensselaer Polytechnic University), and Kamlakar Rajurkar (University of Nebraska-Lincoln). Professor Cao will cover the area of sheet forming and control. Professor Li will cover the area of monitoring/diagnostics and control of manufacturing processes. And finally, Professor Rajurkar, who served two terms as an associate editor for JMSE previously, has agreed to serve a new term and will cover the area of non-traditional manufacturing. Associate editor terms that have ended in the past year are Yusuf Altintas of the University of British Columbia, Mohamed Elbestawi of McMaster University, Richard Furness of Ford Motor Company, and Michael Wang of the University of Maryland. The journal now has 17 associate

editors. On behalf of everyone, I would like to welcome our new associate editors and to thank those whose terms have expired during my tenure as the Editor.

At this time, the February, May and August 2003 issues have been published. The February issue has 21 papers and a technical brief, for a total of 180 pages. The May issue has 24 papers and a technical brief, for a total of 216 pages. The August issue has 26 papers and a technical brief, for a total of 233 pages. The total JMSE page allocation is 900 pages. There are 71 papers and three technical briefs in the three issues, which is a total of 629 pages.

And finally, I would like to mention that a special issue on “Micro/Meso-scale Mechanical Manufacturing” is being organized for the August 2004 issue of JMSE. The Guest Editors are Professor Kuniaki Dohda of Gifu University in Japan, Professor Jun Ni of the University of Michigan, and one Guest Editor from

Europe who will be appointed shortly. The submission deadline is February 1, 2004 and reviews will be completed by June 1, 2004. All papers will be peer reviewed following the same stringent standards as applied to regular papers submitted to the journal. An announcement for the special issue will appear in the November 2003 issue of JMSE.

Overall, the journal is doing well. I am pleased to see an increase in the number of submissions and I encourage everyone to expedite the review process. The new online review system is very convenient to use and makes it much easier to track papers. This should help reduce the time for reviews. And finally, I would like to remind everyone of the special issue on “Micro/Meso-scale Mechanical Manufacturing” being organized for the August 2004 issue.

On behalf of the Editorial Board, I would like to thank everyone for their continued support of the journal. ▼

CALL FOR NOMINATIONS

M. Eugene Merchant Manufacturing, Medal of ASME International/SME

The M. Eugene Merchant Manufacturing Medal of ASME/SME is awarded to an individual who has had significant, direct influence and responsibility for improving the productivity and efficiency (either by research or by implementation of research) of manufacturing operation(s). This award was established in 1986 in honor of M. Eugene Merchant.

We encourage you to submit a complete nomination package for an individual you feel is worthy of this honor to the M. Eugene Merchant Manufacturing Medal Committee of ASME International/SME. All submissions should be forwarded to the committee secretary.

The nomination deadline is January 15th, 2004

To download and fill out a nomination form, please visit:
<http://www.asme.org/honors/ms71/forms.doc/achNomFrm.doc>

For ASME International Honors Policies, please visit:
<http://www.asme.org/honors/ms71/index.html>

For a list of M. Eugene Merchant Manufacturing Medalists, please visit:
<http://www.asme.org/honors/ms71/saa/eugene.html>

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IMECE 2002 ▼ *Jian Cao and William Endres,* *MED Program Committee, IMECE 2002*

MED sponsored or co-sponsored a total of 30 sessions and two special events at IMECE2002, with 80 papers in 10 symposia and 8 panel sessions. A special event "Securing a Successful Academic Career", organized by Prof. Jack Hu of the University of Michigan and sponsored by MED, received considerable attention among attendees at the IMECE 2002. This event, together with MED contributions of two sessions in the Nano track and two sessions in the MEMS track, helped promote the visibility of MED among the other ASME divisions. The details of the symposia and the panel sessions can be found in the Fall 2002 MED Newsletter and on the MED web page. Congratulations to John A. Malluck and Shreyes N. Melkote of Georgia Tech for receiving the Best Paper Award, and to James Stori of UIUC and Michael Bieterman of Boeing for receiving the BOSS (Best Organizer of Symposium or Session) award. Last, but certainly not least, congratulations to D. Kennedy and J. Chinn from Lake Superior University for placing first in the Student Manufacturing Design Competition. ▼

*2002–2003 MED Executive
Committee Chair Amit Bagchi
and 2003–2004 Executive
Committee Vice-Chair
Scott Smith Congratulate
2002 MED Student Design
Competition Winners.*



*Dr. M. Eugene
Merchant introduced
Dr. Ranga Komunduri,
the keynote speaker and
2002 William T. Ennor
Medalist at the MED
awards dinner.*



MANUFACTURING ENGINEERING DIVISION HONORS COMMITTEE ▼ *Barney Klamecki,* *Honors Committee Chair*

The Manufacturing Engineering Division administers two awards; the William T. Ennor Manufacturing Technology Award and the Blackall Machine Tool and Gage Award.

The William T. Ennor Manufacturing Technology Award was established in 1990 by the Production Engineering Division (now Manufacturing Engineering Division) of ASME in honor of William T., "Bill", Ennor who was the Assistant Director of Research at the Alcoa Aluminum Research Laboratories. The award recognizes "one (or a team of) individual(s) who has (have) developed or contributed significantly to the development of an innovative manufacturing technology, the implementation of which has resulted in substantial economic and/or societal benefits.

The 2002 William T. Ennor Manufacturing Technology Award was given to Ranga Komanduri "For his seminal contributions to various fields in manufacturing, namely, conventional machining, high speed machining, ultraprecision machining, grinding, diamond coatings and multiple nanocoatings on cutting tools, finishing advanced ceramics such as silicon nitride balls and rollers for hybrid bearings, molecular dynamics simula-

tion of nanometric cutting and nanotribology, and thermal and tribological aspects of various manufacturing processes including machining, grinding, polishing, welding, and laser surface heat treatment."

The Blackall Machine Tool and Gage Award was established in 1954 by Frederick S. Blackall, Jr., Fellow and 72nd President of the Society. The Award is given to the best paper(s) clearly concerned with or related to the design or application of machine tools, gages, or dimensional measuring instruments, submitted to ASME for presentation and publication.

The recipients of the 2002 Blackall Machine Tool and Gage Award are C. Doumanidis and Y-M. Kwak for their paper Geometric Modeling and Control by Infrared and Laser Sensing in Thermal Manufacturing with Material Deposition, ASME Journal of Manufacturing Science and Engineering, Vol. 123, 2001, pp. 45-52. This paper includes an analytical model of material and thermal transfer of metal deposition, use of the model to describe molten metal puddle characteristics in terms of process parameters, experimental validation of the model in welding, development of a closed-loop control system

and demonstration of the control system.

Formal presentation of these awards was made at the 2002 International Mechanical Engineering Congress and Exposition. The 2003 Blackall and Ennor Awards will be presented at the 2003 IMECE.

Complete nomination packages for the 2004 Ennor Manufacturing Technology Award and Blackall Machine Tool and Gage Award must be submitted before January, 2004 to the Manufacturing Engineering Honors Committee. Nomination forms and lists of past recipients are available at: www.asme.org/divisions/med and click on HONORS & AWARDS.

The Division Honors Committee will provide help in preparing nominations if the request is received before December 1, 2003.

With regard to Fellow nomination, ASME has recently streamlined the Society Fellow nomination process, shortening the time between nomination and possible approval. The nomination procedure, application forms and a list of fellows are available at www.asme.org/member/fellow. The MED Honors Committee can be called on for any help required. ▼

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Student Design Contest (2003)

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2003 National Manufacturing Week

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Student Design Contest (2004)

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ASME FEDERAL GOVERNMENT FELLOW



Michael F. Molnar, P.E., of Franklin, Ind., (and this year's MED Executive Committee incoming member) was selected to serve as an ASME federal government fellow. He began his one-year term last month at the Office of Science and Technology Policy (OSTP) in Washington.

Molnar will contribute his knowledge of manufacturing engineering while serving on the staff of the director of OSTP, John Marburger, who serves as science advisor to President George W. Bush. Molnar will focus on issues related to U.S. manufacturing competitiveness and industry policy, as well as government-to-industry technology transfer effectiveness. Prior to his appointment, Molnar worked as director of manufacturing technology for Cummins Inc., where he was responsible for manufacturing research and development for the world's largest producer of commercial diesel engines over 50 horsepower. Molnar, a member of ASME since 1985, currently serves on the executive committee of ASME's Manufacturing Engineering Technical Division and is an advisor to the Society's Council on Member Affairs. He also served a term as vice president of the ASME Central Region. —ASME News ▼

2004 JAPAN-USA SYMPOSIUM ON FLEXIBLE AUTOMATION ▼ *Thomas R. Kurfess*

Planning is currently underway for the 2004 Japan-USA Symposium on Flexible Automation to be held July 19-21, 2004 in Denver, Colorado, USA.

The schedule for paper submission and publication is as follows:

- Paper Submission Deadline: 29 November, 2003
- Notification of Paper Acceptance: 16 February, 2004
- Camera Ready Manuscript Due Date: 17 March, 2004

The official 2004 JUSFA web site is now up and running at: <http://www.engr.du.edu/jusfa/>.

All submissions will be electronic and should be sent to: jusfa@precision.me.gatech.edu.

Additional information, including the announcement and call for papers may be accessed at: <http://precision.me.gatech.edu/jusfa>

Currently, the Symposium has over 20 interest areas listed at the above web site. Areas include many traditional topics in automation and manufacturing as well as new and emerging issues such as Nano-Scale Systems, Wireless Systems, E-Manufacturing, and Environmentally responsible products and processes.

Questions may be sent to the above email address, or you may contact Prof. Kurfess directly. Anyone who has a particular interest in organizing a session should contact Prof. Kurfess as soon as possible. ▼

Thomas R. Kurfess

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MED PARTICIPATION IN NATIONAL MANUFACTURING WEEK ▼ *Shiva Raman, University of Oklahoma*

MED organized a total of 16 sessions within NMW 2003 at Chicago's McCormick Place. The sessions largely fell within two tracks: Manufacturing and Industrial Automation; and Enterprise IT, Supply Chain, and Logistics Management. The MED sessions were held over four days and varied significantly in attendance. Sessions on Lean Manufacturing, a Paperless future, Rapid Tooling, and Prototyping generated the most interest. One area lacking coverage in NMW as pointed out by attendees was Six Sigma Quality.

We plan to institute a chair / co-chair organizational structure for NMW 2004. This would enable a greater continuity of programming through a two-year rotation. We hope to increase the level of industry participation as both session organizers and speakers. Anyone who might be interested in contributing to organizational efforts for NMW 2004 is encouraged to contact Shiva Raman (raman@ou.edu). ▼



NMW04

February 23-26, 2004

McCormick Place Chicago, Illinois

ASME and MED

are back at NMW04 with an even extended conference program.

4 days, 12 tracks...This includes over 150 sessions to update your skills and learn the latest from experts about Automation, Manufacturing, Enterprise IT, Design, Technology Transfer and Executive Management.

For full details on the technical conference and exhibition visit <http://www.asme.org/events/> and click on **NMW04**.

www.asme.org/divisions/med/

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Manufacturing Engineering Division