

NAMRC 33

Thirty-third Annual North American Manufacturing Research Conference

MAY 24-27, 2005 • COLUMBIA UNIVERSITY • NEW YORK, NY, USA

Dear Colleague:

We are pleased to invite you to the Thirty-Third Annual North American Manufacturing Research Conference. NAMRC is an established international forum for the presentation and critical discussion of research results and applications from universities, industry, and national laboratories. Leaders in manufacturing research come to this conference to exchange findings and leading edge technological information.

As a contributor to the manufacturing research field, you will want to present a paper at this prestigious event. Participate in NAMRC 33 and receive far-reaching recognition of your work, as well as valuable insight from other leaders in manufacturing research. You will also want to encourage your students to enter the new Student Award Contest at the conference, designed to stimulate young talents as future leaders in manufacturing research. All accepted papers will be published in a peer-reviewed volume, Transactions of NAMRI/SME. Information for submitting a paper, the Student Award Contest, sponsorship opportunities and other details are enclosed and are all featured online at: www.sme.org/namri. We look forward to your participation in this important event.

Our School of Engineering and Applied Science is proud to host this premier gathering and Columbia University warmly welcomes you while it celebrates its 250th anniversary. Tours will be available to facilities in materials processing and manufacturing research including one of the first NSF nanotechnology centers. We also offer a full social program with many opportunities to meet colleagues and learn about New York. Please feel free to contact us if you have any questions about NAMRC 33 Conference.

While participating in NAMRC 33 in New York, you will be visiting one of the most vibrant cities in the US and the world. Diverse population and a vast array of cultural attractions endow the City with a feeling of energy and excitement that only New York can offer. We look forward to seeing you in New York!

Regards,

Y. Lawrence Yao

NAMRC 33 Conference Co-Chair
Columbia University
New York, NY, USA

Richard W. Longman

NAMRC 33 Conference Co-Chair
Columbia University
New York, NY, USA

PURPOSE AND SCOPE

Columbia University and the North American Manufacturing Research Institution of the Society of Manufacturing Engineers (NAMRI/SME) organized NAMRC 33 as an international forum for the presentation and critical discussion of the results of basic and applied research related to manufacturing and technology development. At the NAMRC, technical innovations and new methods and applications of leading-edge technology from throughout the world are shared among manufacturing research, design, engineering, and production professionals from academia and industry. Because NAMRC takes place every year, the findings and breakthroughs presented are expected to be topical and of current interest.

Participants include those interested in the conduct and implementation of manufacturing research from industry, academia and government laboratories.

Papers reporting original research or perceptive critical reviews related to manufacturing processes and/or systems are sought. All papers are expected to meet high scientific standards and be relevant to the needs of the manufacturing industry. Areas of research covered by NAMRC 33 are:

- Computer-aided design and manufacturing including robotics, automation and rapid prototyping.
- Design, dynamics, control and accuracy of manufacturing equipment.
- Education methodologies and practice related to manufacturing engineering
- Environmentally conscious manufacturing
- Human factors and man-machine interactions relating to manufacturing processes and systems.
- Manufacturing systems, simulation, design and concurrent engineering.
- Material behavior and tribology as related to manufacturing processes.
- Mechanics and technologies of material forming processes, powder consolidation, casting, welding, and processing polymer and composite materials.
- Mechanics and technologies of material removal processes as well as non-traditional processes.
- Metrology.
- Micro and Nano scale manufacturing.
- Product lifecycle management.
- Rapid response and networked manufacturing.

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SPECIAL INVITATION TO INDUSTRY PRESENTERS

Industry input is a valuable and necessary component to the technology exchange that occurs at NAMRC. To facilitate industrial involvement, industrial presenters are invited to participate in paper or panel form. To propose a panel, please follow a procedure similar to that listed under "Opportunities for Special Sessions."

PRESENTATIONS

The main objective of NAMRC is to provide a forum for interaction among manufacturing researchers, scientists, engineers and educators. Therefore, a 30 minute maximum time limit (including a discussion period) will be allocated for each presentation. Presentation material should effectively stimulate comments, questions and discussion from the attendees.

NEW! STUDENT AWARD CONTEST

To recognize students' contributions to NAMRC and to attract young talents to pursue careers in manufacturing research, NAMRC 33 will host the new Student Award Contest. A student co-author of an accepted paper may enter the Contest to orally present the paper at NAMRC 33. The presentation will be judged by a panel appointed by the Honors Committee of NAMRI/SME. The judgment will be primarily based on clarity of presentation including oral expression and use of visual aids. Originality and scientific merit of material presented may also be taken into account. Judges will not judge their own students. 1st, 2nd, and 3rd place winners will be announced during the lunch on Friday, May 27, 2005. More information may be found on the web at www.sme.org/namri.

OFFICIAL NAMRC PUBLICATION

The NAMRI/SME Scientific Committee will review all papers. Accepted and properly formatted papers will be published in the Transactions of NAMRI/SME. Authors may also submit their paper for review to the SME Journal of Manufacturing Processes or the Journal of Manufacturing Systems by checking the appropriate box on the Paper Submission Form. Preprints and articles included in proceedings, transactions, or symposium volumes of SME sponsored or co-sponsored programs are not considered prior publication. Contact the SME Journals office at (313) 425-3268 for further information.

CONFERENCE SITE

NAMRC 33 will be held May 24-27, 2005 at Columbia University, New York, NY, USA. The host for NAMRC 33 will be the Fu Foundation School of Engineering and Applied Science at Columbia University.

OPPORTUNITIES FOR SPECIAL SESSIONS

Proposals for events such as workshops, tutorials, and short courses to be held in conjunction with NAMRC 33 are invited. Proposed events are sought that provide a forum for dissemination and discussion of technical information in fields of interest consistent with NAMRC. Interested parties should submit a proposal to the President of NAMRI/SME by September 1, 2004. More information may be found on the web at www.sme.org/namri.

OPPORTUNITIES FOR CONFERENCE SPONSORSHIPS

Conference sponsorship opportunities exist for industry and academic groups. The benefits for industrial sponsors include showing support for the manufacturing research community, influencing manufacturing research, and raising company visibility with potential recruits. The benefits for academic sponsors (e.g., cooperative research centers and research consortia) include raising visibility with industry leading to future collaboration opportunities. Sponsorships associated with different levels of visibility are available, ranging from website, advance program brochure, to on-site publicizing. More information may be found on the web at www.sme.org/namri.

ABOUT NAMRI/SME

NAMRI/SME is an individual member organization dedicated to manufacturing research and technology development. Its mission is to advance manufacturing engineering by promoting research and its application in industry. NAMRI/SME is part of the new SME Technical Community Network, consisting of seven technical communities that represent key areas within the manufacturing enterprise. Information on how to join NAMRI/SME may be found on the web at www.sme.org/namri.

The SME Board of Directors recently approved the launch of the Manufacturing Education and Research Community, a newly emerging community, offering benefits, technical information, and involvement opportunities for those members involved in manufacturing education and research.

The Manufacturing Education and Research Community motivates, engages and enables its members through education, training, research, publishing, recognition and professional growth. It promotes manufacturing careers and educational opportunities that enhance the diverse workforce needs of the manufacturing enterprise and is a resource for information on the state of manufacturing education. For more information on the Education and Research Community, visit www.sme.org/edu.

PAPER SUBMISSION INFORMATION AND DEADLINES

PAPERS DUE: OCTOBER 1, 2004

Manuscript submissions are due October 1, 2004 to the NAMRI/SME Scientific Committee Chair. The Scientific Committee will review all manuscripts and the Chair will electronically notify you concerning acceptance of your paper no later than December 24, 2004.

Authors must adhere to the formatting and submission requirements specified in the "Instructions for Preparing a NAMRI/SME Paper" found on the web at www.sme.org/namri. No exceptions are allowed. Papers that do not meet the formatting requirements cannot be reviewed for inclusion in the Transactions of NAMRI/SME. If you need assistance in obtaining the instruction form, please call (313) 425-3307.

PROCEDURE FOR SUBMITTING PAPERS

1. Submit an electronic version of the paper and an electronic version of a completed Paper Submission Form both saved in PDF format, by October 1, 2004
SUBMIT TO NAMRI/SME SCIENTIFIC COMMITTEE CHAIR at namripapers@uncc.edu

To contact the NAMRI/SME Scientific Committee Chair:

Scott Smith, PhD
Department of Mechanical Engineering
University of North Carolina at Charlotte
Phone: (704) 687-4103
E-mail: kssmith@uncc.edu (do not use this e-mail address for submission of papers)

2. Manuscripts must meet the requirements in the "Instructions for Preparing a NAMRI/SME Paper" found on the web at www.sme.org/namri

3. Manuscript submissions must include a Paper Submission Form (found on the web at www.sme.org/namri).

Important Dates and Submission Information

October 1, 2004

Papers must be received by the NAMRI/SME Scientific Chair. Included in the Author's submission must be an electronic version of the properly formatted full paper, and an electronic version of a completed Paper Submission Form, both in PDF format.

December 24, 2004

The Scientific Committee Chair will electronically notify authors concerning acceptance of papers. Electronic notifications will also be made to authors of conditionally accepted papers and will include the Chair's review comments for the conditionally accepted paper.

Before January 15, 2005

Revised conditionally accepted papers with a rebuttal summary must be received by the NAMRI/SME Scientific Committee Chair.

February 7, 2005

Final accepted papers must be received by SME Headquarters. Included in the authors' final submission to SME must be two hard copies of the properly formatted and accepted paper, an electronic copy (on disc in PDF format), and a completed Final Accepted Paper Submission Form. This form may be found on the web at www.sme.org/namri.

For more information contact:

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www.sme.org/namri

