

mechanics

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mechanics provides its readers with news in the field of theoretical and applied mechanics, and serves as a forum for the presentation and discussion of issues related to the development of the science and profession of mechanics. Opinions expressed are those of the authors and do not necessarily reflect official points of views of AAM or the institutions with which the authors are affiliated.

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The *American Academy of Mechanics* is a non-profit corporation incorporated in 1969 under the laws of the Commonwealth of Pennsylvania. Its objective is to advance the science and profession of mechanics, with particular reference to the countries of North, South, and Central America. It aims to facilitate cooperation among mechanicians, to encourage recognition of achievements in mechanics, and to promote public understanding of the work of the mechanician.

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NEWS

STLE/ASME CONDITION MONITORING CONFERENCE TO FEATURE RENOWNED SPEAKERS AND NEW COURSES

The Society of Tribologists & Lubrication Engineers (STLE) and the American Society of Mechanical Engineers (ASME) are teaming up to present an equipment end-user conference on conditioning monitoring and predictive maintenance in San Antonio, TX, on February 26-28, 2001.

Plenary speakers include John S. Mitchell, ABB Service, Inc., and MIMOSA President, Dr. Andrew Jardine, University of Toronto/Applied Science; Dr. Peter Schmidt, Office of Naval Research/Materials Division; and William Nickerson, Oceana Sensors.

The conference will be the first of its kind to focus on current and advanced technologies from both the mechanical and oil monitoring sectors. In addition to three days of topical presentations that will be useful to plant and OEM personnel, STLE and ASME will jointly offer short courses spanning the technologies currently in use or "on the horizon."

STLE will present a one-day course on oil monitoring analysis (OMA) technology, and will separately offer their OMA certification exam for those qualified. The course will focus on maintenance strategies such as Fourier Transform Infrared (FTIR) spectrometry (Michel Murphy, Michel Murphy, Inc., and STLE President), instruments used in condition monitoring (Daniel Anderson, Spectro, Inc.), the use of particle counting (Dr. Ing Holger Sommer, ART Instruments, Inc.), ferrography (Ray Dalley, Predict Technology, Inc.), interpreting lube analysis test results (Jack Poley, CTC Analytical Services), and the effect of predictive maintenance on a company's bottom line (Bryan Johnson, Palo Verde Nuclear Generating Station).

ASME will present a short course covering the various mechanical technologies, including vibration and electric current monitoring (Bill Marscher, Technical Director of Mechanical Solutions, Inc. and Chair of the ASME PdM Tech Committee), thermography (Jim Seffrin, Director of the Thermography Institute), break-through diagnostic methods (Carl Byington, Department Head of the Condition-Based Maintenance Center of Penn State University), and practical continuous monitoring of bearings and seals (Rick Cowan, Director of the MU Center for Machinery Diagnostics at Georgia Tech, in concert with Itzhak Green and Richard Salant of Georgia Tech).

As a special highlight, escorted tours will be available of the Southwest Research Institute facilities, just outside of San Antonio. The institute has one of the most modern and extensive research laboratories in the United States.

Certification exams for Oil Monitoring Analyst (OMA) and the Certified Lubrication Specialist (C.L.S.) will be offered during the conference. The OMA exams are the newest certification offerings from STLE. To date, these have proven quite popular with individuals and companies especially concerned with cost effective approaches for ISO 9000 standards.

For more information on any individual courses, as well as the conference overall, contact STLE headquarters at (847) 825-5536 (USA), or fax (847) 825-1456. You may also E-mail: information@stle.org or visit the STLE web site at www.stle.org.

POSITION OPENINGS

CHAIR DEPARTMENT OF MECHANICAL ENGINEERING UNIVERSITY OF MARYLAND, COLLEGE PARK

www.enme.umd.edu

Applications and nominations are invited for the position of Professor and Chair of the Department of Mechanical Engineering. Candidates should have an earned doctorate in mechanical engineering or a closely related field, strong leadership ability, a proven research record, and a commitment to mechanical engineering education. The University of Maryland is an equal opportunity affirmative action employer. Women and under-represented minority candidates are particularly encouraged to apply.

The Department of Mechanical Engineering, which is an important and dynamic component of the A. James Clark School of Engineering, consists of 44 full time faculty and about 40 research associates and lecturers. About one-half of the faculty has been hired in the last seven years, and in this period, a large number of junior faculty have received NSF CAREER awards on ONR Young Investigator Awards. Undergraduate enrollment currently numbers 420 and graduate students number 273. In recent years, the department has awarded about 16 Ph.D.s, 40 M.S. and 110 B.S. degrees annually. There is on-going research in the areas of design and manufacturing, electronic products and systems, mechanics and materials, and thermal-fluid sciences. The rapidly evolving synergistic graduate program is supported by a number of nationally recognized research centers in Automotive Research, Energetic Concepts Development, Environmental Energy Engineering, Micro Engineering, Electronics Products and Systems, and Smart Materials and Structures. In support of the wide range of research interests, there are a number of specialized laboratories, such as the Advanced Design and Manufacturing Laboratory, Combustion Engineering Laboratory, Computer-Integrated Manufacturing Laboratory, Design Decision Support Laboratory, Dynamic Effects Laboratory, Maryland MEMS Laboratory, Laboratory for Opto-Mechanics and Multi-Layer Systems, Phase Change Heat Transfer Laboratory, Turbulence Experimental and Computational Research Laboratories, Vibration and Noise Control Laboratories, and Virtual Reality Laboratory. The department has an excellent undergraduate program, which was recently recognized by the outstanding Educator Award from The Boeing Corporation, received accreditation under ABET 2000 guidelines, and also houses the ECSEL program. The students also participate in a Design Course supported by Black and Decker Corp. and in competitions, such as the Japanese Internationals Robot Grand Prix, Future Truck 2000, International Student Design Competitions, and Human Powered Vehicles Competition. In the last year, the total department budget was in excess of \$16M of which \$12M was from external research support received from various government agencies and industry.

Each application should include a dossier consisting of a complete curriculum vitae, vision statement and names of at least five references. For best consideration, please send this material by February 1, 2001 to the following address:

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Chair, Mechanical Engineering Chair Search Committee
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ANNOUNCEMENTS

**A Symposium in honor of Professor Sia Nemat-Nasser on
Experiments and Modeling of Failure of Modern Materials**

**Sponsored and organized by Professors
Horacio D. Espinosa, Isaac Daniel and Ted Belytschko
of Northwestern University's
Robert R. McCormick School
of Engineering and Applied Science
Department of Mechanical Engineering
Evanston, Illinois
in collaboration with Mohammed Zikry of
North Carolina State University and Ghatu Subhash of Michigan Tech**

**To be held at the
2001 Applied Mechanics and Materials Summer Conference
The University of California at San Diego
in La Jolla, California
June 27-29, 2001**

www-ceam.ucsd.edu/mmc2001

The purpose of this symposium is to foster the interaction and networking of those working throughout universities, industries, and government laboratories in the general area of micro and nano-mechanics of soft and hard materials, and to provide an opportunity for the exchange of ideas in an interdisciplinary forum.

The development of novel materials generally outpaces our understanding of microstructure-performance relationship. Recently, significant advances have been made in the identification and modeling of inelasticity and damage in advanced materials but much remains to be done. The objectives of this symposium are: a) to bridge the gap between mechanics and novel materials microstructures; b) to present novel experiments that make use of advances in micro and nano-scale testing, and microfabrication; c) to assess the impact of linking atomic scale processes – modeled with interatomic potentials, and *ab initio* methods – to micro and mesoscopic manifestations.

This symposium will focus on the recent developments in this direction within the larger scope of assessing research needs in a variety of applications of interest. Renowned and leading researchers in the areas of nanomaterials, biomaterials, damage mechanics, experimental mechanics, composites and computational mechanics will open each one of the scheduled sessions.

Topics of particular interest include, but are not limited to, the following areas:

- Simulation methods for length scale linking; coupling quantum to atomistic and atomistic to continuum simulations.
- Modeling of indentation, scratch and wear test techniques from nanometer to micrometer length scales.
- Mechanisms of surface and thin film coarsening; self-organized pattern formation in thin films, driven atomic motion.
- Modeling of adhesion, fracture and plasticity of thin films and coatings.
- Creep and stress relaxation mechanism detection.
- Modeling the mechanical behavior of nanostructured materials; defect structure and interface structure of nanocomposites.
- In-situ AFM/SEM/HRTEM experiments performed on thin films and multi and single walled nanocarbon tubes.
- Collective dynamics of defects and interplay between phase composition, phase transformations, and plasticity.
- Numerical modeling of size effects: damage localization, material shear instabilities.
- Wave propagation and inverse problems.
- Mechanics of functionally graded materials.
- Material failure at high temperatures.

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Abstracts should be submitted to
Professor Horacio D. Espinosa
at the above address no later than January 19, 2001.

**A Symposium on
Modeling and Simulation of Micro and Nano Systems**

**Sponsored and organized by Professors
Ted Belytschko, Wing-Kam Liu and Horacio Espinosa
of Northwestern University's
Robert R. McCormick School
of Engineering and Applied Science
Department of Mechanical Engineering
Evanston, Illinois
in collaboration with Mark Horstemeyer of
Sandia National Labs in Livermore, California**

**To be held at the
6th U.S. National Congress on Computational Mechanics
in Dearborn, Michigan
August 1-4, 2001**

<http://www.usnccm.org>

The purpose of this symposium is to foster the interaction and networking of those working throughout universities, industries, and government laboratories in the general area of micro and nano systems, and to provide an opportunity for the exchange of ideas in an interdisciplinary forum.

The modeling and simulation of micro and nano systems, as well as advanced materials and fabrication processes at small scales has emerged as a powerful tool in applications that range from sensors, actuators, and bio-chips to the design of bio-materials and the optimization of lithographic methods.

Advances in computer power have likewise facilitated the development of new methodology that examine the processes occurring at the atomic scale and predictions of the collective dynamics of ensembles of particles on a mesoscopic scale. Linking atomic scale processes – modeled with interatomic potentials, and ab initio methods – to micro and mesoscopic manifestations still remains a significant challenge.

This symposium will focus on the recent developments in this direction within the larger scope of assessing research needs in a variety of applications interest. Renowned and leading researchers, not necessarily computational mechanics experts, in the areas of nanomaterials, biological systems, nanotechnology, microelectromechanical systems, and nanolithography will open each one of the five scheduled sessions.

Topics of particular interest include, but are not limited to, the following areas:

- Simulation methods for length scale linking; coupling quantum to atomistic and atomistic to continuum simulations.
- Modeling of indentation, scratch and wear test techniques from nanometer to micrometer length scales.
- Mechanisms of surface and thin film coarsening; self-organized pattern formation in thin films, driven atomic motion.
- Modeling of adhesion, fracture and plasticity of thin films and coatings.
- Creep and stress relaxation mechanism detection.
- Modeling method for printing, imprinting, molding and embossing.
- Modeling of photonic devices, sensors, actuators, bio-chips, fluidic systems and MEMS in general.
- Modeling the mechanical behavior of nanostructured materials; defect structure and interface structure of nanocomposites.
- Simulation of in-situ AFM/SEM/HRTEM experiments performed on thin films and multi and single walled nanocarbon tubes.
- Collective dynamics of defects and interplay between phase composition, phase transformations, and plasticity.

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- | | | |
|------|--|---|
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- | | | |
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- 151 Quantification of fingertip force reduction in the forefinger flexing simulated paralysis of extensor and intrinsic muscles

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- 1882 A new method to reduce cure-induced stresses in thermoset polymer composites, part i: test method
Madhukar MS. Genidy MS. Russell JD.
- 1905 A new method to reduce cure-induced stresses in thermoset polymer composites, part ii: closed loop feedback control system
Genidy MS. Madhukar MS. Russell JD.
- 1926 A new method to reduce cure-induced stresses in thermoset polymer composites, part iii: correlating stress history to viscosity, degree of cure, and cure shrinkage
Russell JD. Madhukar MS. Genidy MS. Lee AY.
- 1948 Measurement of fiber density by helium pycnometry
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- Sugiyama K. Ohtsuka T.
Lee DC. Lee SH. Han CS.
Huh K. Park JH.
Wei CP. Tsai JSH.
- Li THS. Kuo YP.
Choe GS. Kim KJ.
Park JH. Yoo HH. Hwang YH. Bae DS.
- Tokashiki H. Kaneko K. Tanie K.
Ogata T. Sugano S.
- Krishna V. Peelamedu SM. Phadnis R. Naganathan NG. Dukkupati RV.
Gotoh M. Kim YS. Yamashita M.
- Choi MK. Kim HM.
- Park JH. Ryu SH. Yi KS.
Mizuno T.
Yoshida K. Hatano K.
- Nakagawa S. Yamaguchi T. Numasato H.
Hosokawa H. Hirai H.
Nishimura H.
Mizuno T. Hara Y.
- Noborisaka H. Kobayashi H.
- Sawada H. Hashimoto S.
Huang QJ. Nonami K. Uchida H. Iguchi Y.
Yanai T.
Yoshida K. Usuda T.
Liang CY. Peng H.
Beda PB.
- Kajiwara I. Haftka RT.
Feng B. Morita N. Torii T. Yoshida S.
- Hori N. Seto K.
- Spencer BF. Johnson EA. Ramallo JC.
Haramoto H. Seto K. Koike Y.
Liu ZH. Nonami K.
- Nakano K. Suda Y. Nakadai S.
Dunbabin M. Tan ACC.
- Ho ST. Matsuhisa H. Honda Y.
- Zhang S. Morita N. Torii T.
Grosser KE. Singhose WE.

Meccanica

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- | | | |
|-----|---|----------------------|
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- | | | |
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- | | | |
|-----|--|---|
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- | | | |
|----|---|--|
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- | | | |
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- | | | |
|-----|--|---|
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- | | | |
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- | | | |
|-----|--|---|
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- | | | |
|------|--|---|
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- | | | |
|------|--|--|
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- | | | |
|-----|---|---|
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- | | | |
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- | | | |
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- | | | |
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