

mechanics

Academia Americana de Mecánica

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(references in the form "M26(1)" indicate the last time the Journal was cited in *mechanics*: v. 26, n. 1, in this case.)

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AWARDS

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.

Editor: Horacio D. Espinosa (Purdue University, U.S.A.)

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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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American Academy of Mechanics
Academia Americana de Mecánica

Dr. Zdenek P. Bazant, Walter P. Murphy Professor of Civil Engineering and Science, Northwestern University and **Fellow of AAM**, received the **ASME Worcester Reed Warner Medal** for 1997 at the International Mechanical Engineering Congress and Exposition in Dallas, Texas, in November, 1997. This medal is awarded for outstanding contributions to the permanent literature of engineering. Professor Bazant was recognized for his original contributions on the size effect law for failure of brittle structures, modeling of material damage, local and nonlocal concepts, stability and propagation of fracture and damage in materials, and the thermodynamic concepts associated with stability in nonelastic structures.

Dr. David L. McDowell, Regents' Professor of Mechanical Engineering and Director of the Mechanical Properties Research Laboratory, Georgia Institute of Technology, received the **ASME Nadai Award** for 1997 at the International Mechanical Engineering Congress and Exposition in Dallas, Texas, in November, 1997. This award recognizes distinctive contributions to the field of engineering materials. Professor McDowell's principal contributions, which involve the combined use of experimental and computational solid mechanics to construct appropriate evolutionary laws for inelastic materials, have influenced multiaxial plasticity and viscoelasticity of metallic materials, multiaxial fatigue of metallic polycrystals, and high-temperature-fatigue and creep-fatigue interaction.

Dr. Pol Spanos, The L.B. Ryon Professor in Civil Engineering and Mechanical Engineering, received the 1997 **Research Prize in Stochastic Dynamics** from the International Association for Structural Safety and Reliability (IASSAR). He received the prize for his contributions to the advancement of probabilistic dynamics methods for complex nonlinear structural systems. The award was presented to Spanos during the Seventh International Conference of the IASSAR held in Kyoto, Japan, Nov. 23-28, 1997. IASSAR conferences are held every four years and are the premier forum for conveying information on research findings and industrial developments in the broad area of probabilistic mechanics, solid/structural and fluid, as it applies to a variety of the themes in engineering.

Dr. Anthony M. Wass, Associate Professor of Aerospace Engineering, University of Michigan, received the **AAM Junior Award**, November 18, 1997, during the Applied Mechanics Banquet at the International Mechanical Engineering Congress and Exposition in Dallas, Texas. The award is given to recognize research during the first decade of the professional career.

A MESSAGE FROM THE EDITOR

I am pleased to announce the new *Editorial Board of Mechanics*, starting with the present issue. From Brazil, we welcome Djenane Pamplona, Professor at PUC-Rio de Janeiro. From Argentina, we welcome Eduardo Dvorkin, Professor at the National University of Buenos Aires, and Gustavo Buscaglia, Professor at the Balseiro Institute in Bariloche. From the USA, we welcome Robert Haythornethwaite, Professor at Temple University, Dean T. Mook, Professor at Virginia Tech, and G. Ravichandran, Professor at the California Institute of Technology.

I would also like to mention some new features starting in 1998. The table of contents of five mechanics related journals have been newly added. They are: (1) *Acta Materialia*, (2) *International Journal of Damage Mechanics*, (3) *Journal of Vibration and Control*, (4) *Mathematics and Mechanics of Solids*, and (5) *Mechanics of Solids*. A web site for the American Academy of Mechanics is available at the URL address <http://ecn.purdue.edu/~mech1/>. In addition to receiving a printed copy, members are encouraged to browse the on-line current and past issues of mechanics, direct links to table of contents made available by the various publishers, recent Awards and other news from members, position openings, forthcoming events, etc.

Lastly, I would like to emphasize that mechanics is a reflection of the AAM members activities. Therefore, I trust that all of you will help and support the editorial board by sending news and announcements, contributing review articles, and sharing your experiences in innovative teaching. Concerning the last item, I would like to encourage those of you using new teaching methodologies and teaching design classes to submit manuscripts for their publication in *mechanics*.

Please send all communications to:

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**VISIT the AAM Website at
<http://ecn.purdue.edu/~mech1>**

Third International Congress
 on
 Thermal Stresses
THERMAL STRESSES '99

Will be held at
 Cracow University of Technology
 Cracow, Poland
 June 13-17, 1999

The congress will be comprised of invited lectures and of the presentation and discussion of contributed papers. Family programs will be organized. A trip to the Wieliczka Salt Mine and a raft ride down the Dunajec River will be arranged.

Submission of abstracts: September 30, 1998

Write for the first announcement brochure to:

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<http://www.pk.edu.pl/~ts99>

19TH SOUTHEASTERN CONFERENCE ON THEORETICAL AND APPLIED MECHANICS

MAY 3-5, 1999

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or

Dr. Karl Stevens, SECTAM Executive Chair

College of Engineering

Florida Atlantic University

Boca Raton, FL 33431

(561) 297-3474 or STEVENS@FAU.EDU

The Twelfth International Conference on Composite Materials

PARIS - France

July 5th - 9th, 1999

ANNOUNCEMENT AND FIRST CALL FOR PAPERS

Prospective authors are invited to submit abstracts of two pages, including one or two figures, before mid September 1998. All abstracts should be e-mailed to ICCM-12, directly posted on ICCM-12 website or sent to the conference office on a disk (3" 1/4 PC formatted). Instructions for abstracts and templates for various word-processors can be found on the web site.

The general scope of ICCM-12 will be:

Composites: from the Process to the Product

See Conference World Wide Web Site for more details <http://www.iccm12.org>

ICCM-12 Conference Office

MTE - BP 298 - F33605 PESSAC - France

Tel: 33(0)5 57 26 53 42 - Fax: 33 (0)5 57 26 53 43 - e-mail: orga@iccm12.org

Call for Abstracts
Symposium on
Problems in Mechanics and Applied Mathematics

In Honor of
Professor Fazil Erdogan
40 Years of Teaching and Research at Lehigh University
June 28-30, 1998
Lehigh University, Bethlehem, Pennsylvania

The purpose of this symposium is to serve as a forum for the presentation and discussion of current issues in mechanics and applied mathematics. This includes, modern developments in fracture mechanics, composites, wave propagation, functionally graded materials, micromechanics, dynamic behavior of solids, applied mathematics, computational mechanics, and experimental methods. Another objective of the symposium is to honor Professor Fazil Erdogan and his 40 years of service to Lehigh University and his numerous contributions to fracture mechanics and applied mathematics. Of special interest, will be retrospective reviews of developments in fracture mechanics, given by invited guest speakers. Deadline for submission of one page abstracts is May 29, 1998. All those interested in receiving the Announcement brochure with more detailed information, should contact:

Symposium Coordinator
 Ramona Nixon
 Department of Mechanical Engineering & Mechanics
 Lehigh University, Packard Laboratory
 19 Memorial Drive West
 Phone: (610) 758-4100 Fax: (610) 758-6224 e-mail: rnm0@lehigh.edu

**Fourth International Conference on Constitutive Laws for Engineering
 Materials: Experiment, Theory, Computation and Applications.**

Rensselaer Polytechnic Institute, Troy, NY, USA.
July 27 - July 30, 1999

Professor Erhard Krempl, Chair, Professor Chandra S.Desai, Co-Chair

The first three conferences devoted to constitutive Laws of Engineering Materials were held in January of 1983, 1987 and 1991 at the University of Arizona in Tuscon, Arizona, under the leadership of Professor Chandra S.Desai. Since then significant advances in modeling, computation, experimentation, theory and application have been made. The conference is devoted to constitutive equations and provides a forum for the discussion of new and existing models for different classes of materials including metallic, polymeric, ceramic, concrete, and geologic materials and their applications in engineering. The conference also marks the 25th anniversary of the workshop on Inelastic Constitutive Equations sponsored by the Solid Mechanics Program of NSF at RPI.

Send inquiries to
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UNIVERSITY OF RHODE ISLAND
Department of Mechanical Engineering & Applied Mechanics
Faculty Position in Mechanical Systems

The Mechanical Engineering & Applied Mechanics Department at the university of Rhode Island seeks applications for a tenure track position at the assistant professor level starting in January 1999. Applicants must have a Ph.D in mechanical engineering or a closely related field, and possess research and teaching expertise in mechanical system design. Research experience with hardware is required in one or more of the following application areas: manufacturing systems, automatic assembly, precision engineering, machine dynamics and vibration, mechatronics, robotics, micromechanical machines. The successful candidate will have a demonstrated potential to develop a strong funded research program, will be expected to supervise graduate students and have the opportunity to work with faculty at the center for Automation and Robotics Research. The applicant will be expected to teach undergraduate and graduate courses related to mechanical design, and must have excellent English communication skills. Additional information about the department, college, and university can be found at *www.egr.uri.edu*. The committee will begin screening applicants on February 1, 1998 and will continue until the position is filled. The university of Rhode Island is an Equal Opportunity and Affirmative Action Employer. Interested individuals should send a complete resume including a narrative describing their research and teaching objectives, and the names of at least three references to:

Professor Mohammad Faghri, Search Committee Chair
 Department of Mechanical Engineering & Applied Mechanics
 University of Rhode Island
 P.O. Box G, Kingston, RI 02881.

UNIVERSITY OF RHODE ISLAND
Department of Mechanical Engineering & Applied Mechanics
Post-Doctoral Fellowships

Microscale Energy Transport:

Qualification include a Ph.D in mechanical Engineering or closely related field and experience in experimental methods in heat transfer and some experience in fabrication of micro scale domains using wafer processing techniques. Initial appointment will be for one year with possible renewal for an additional year. Interested persons should submit a resume and the names of three references to:

Professor M. Faghri, Department of Mechanical Engineering and Applied Mechanics, Wales hall, 92 Upper College Road, Kingston, Rhode Island 02881, 401-874-5180 or faghri@egr.uri.edu

Failure Mechanisms of Ceramic/Metal Interfaces at Elevated Temperature:

Successful candidate will conduct experimental / numerical studies of fatigue and fracture mechanisms of ceramic/metal interfaces at elevated temperature in the Mechanics of Materials Laboratory. Qualifications include a Ph.D in mechanical Engineering or Material Science. Experience in experimental methods in the field of fatigue and fracture mechanics is required. Knowledge of the use of numerical codes such as ABAQUS would be helpful. The initial appointment will be for one year with possible annual renewal for two additional years. Interested individuals should submit a resume and a copy of their most recent publication as well as the names of three references to:

Professor H. Ghomen, Department of Mechanical Engineering, University of Rhode Island, 92 Upper College Road, Kingston, RI 02881, Tel:401-874-2909, Fax: 401-874-2355, e-mail: ghonem@egr.uri.edu

**THE UNIVERSITY OF MICHIGAN
DEPARTMENT OF MECHANICAL ENGINEERING
AND APPLIED MECHANICS
FACULTY POSITION IN COMPUTATIONAL MECHANICS**

Applications for a tenure-track faculty position in the area of computational mechanics are invited. Specialties of interest include, but are not limited to, computational methods in solid mechanics, multi-body dynamics, materials and materials processing, and biomechanics. Preference will be given to appointments at the assistant professor level. However, exceptionally well qualified candidates at higher levels will also be considered. Applicants should have a Ph.D. in mechanical engineering or a related field and a demonstrated ability to conduct independent research. The selected candidate is expected to teach at both the undergraduate and graduate levels and to establish a significant research program. The University of Michigan is an equal Opportunity/Affirmative Action employer. Women and minority candidates are encouraged to apply. All participants should submit two copies of a detailed resume, a statement of research and teaching interests, and the names of at least four references to:

Prof. N.C. Perkins, Computational Mechanics Search Committee Chair
Mechanical Engineering and Applied Mechanics
2250 G.G. Brown Laboratories
University of Michigan
Ann Arbor, MI 48109-2125

**PURDUE UNIVERSITY
HEAD, SCHOOL OF AERONAUTICS AND ASTRONAUTICS**

The Schools of Engineering at Purdue University invite applications and nominations for the position of Head, School of Aeronautics and Astronautics. Candidates for this position must have an earned Ph.D. in Aerospace Engineering or a closely related field and a distinguished record in teaching, research, and service. The candidate must be qualified for appointment as a full professor with immediate tenure. The successful candidate will possess excellent leadership and administrative abilities and have broad knowledge of the aerospace field.

The School of Aeronautics and Astronautics has a high national ranking in the aerospace field and a distinguished history in teaching and research. It currently has 23 faculty members. Teaching and research activities are primarily in aerodynamics, dynamics and control, structures and materials, and propulsion. Further details of the School's programs are available on the world wide web at the following URL: <http://AAE.www.ecn.purdue.edu/AAE/>

Applicants should submit a complete curriculum vita along with the names, addresses, and telephone numbers of at least three references. We seek to fill the position by July 1, 1998, with applicant screening to begin on January 12, 1998 and to continue until the position is filled. Applications should be sent to:

Chairman, Head Search Committee
School of Aeronautics and Astronautics
Purdue University
1282 Grissom Hall
West Lafayette, IN 47907-1282

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