

mechanics

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mechanics

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

New AAM Web Site:

The American Academy of Mechanics has its new web site at <http://www.AAMech.org>. The old address www.purdue.edu/AAM will work for two more months. Please update your bookmarks.



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American Academy of Mechanics

Prof. Horacio D. Espinosa

Northwestern University

Dept. of Mechanical Engineering

2145 Sheridan Rd.

Evanston, IL 60208-3111

U.S.A.

Phone: (847) 467-5989

Fax: (847) 491-3915

e-mail: espinosa@northwestern.edu

American Academy of Mechanics
Founders Prize and Grant

Up to \$10,000 For the Academic Year 2000-2001

(Deadline: July 1, 2000)

The American Academy of Mechanics is pleased to announce the availability of a Founders Prize and Grant to be awarded in September 2000 to a doctoral candidate in the field of Mechanics. Funding has been arranged by the Robert M. and Mary Haythornthwaite Foundation through the good offices of Professor Haythornthwaite, founder and first President of the Academy. The award will be made on the recommendation of an AAM committee. The Prize consists of a Certificate and \$1,000 that will be presented at the annual meeting of the Academy, usually held in November. The Grant will be made to that same person in two installments, \$6,000 in September 2000 and up to \$3,000 in January 2001, the latter dependent on the size of the approved budget and receipt by the AAM committee of an acceptable progress report. In order to encourage contestants to think constructively about the impact of new and pending developments, they will be asked to compose an original essay of no more than a thousand words under the title "Progress through Mechanics". The winning essay will be published in *mechanics*. The award is open to those who, as of July 1, 2000, are registered as graduate students at a degree granting institution within the Americas, have completed at least one year of full-time graduate study at that institution, have been assigned a thesis advisor at the institution and have had a doctoral thesis topic emphasizing mechanics approved by the institution following candidacy or equivalent procedures. There are no restrictions with regard to citizenship, residency, race, religion or sex. Letters of support will be required of the thesis advisor and in addition one from either a Member or a Fellow of AAM. Contestants will be judged on the basis of the essay, plans, references and academic history. The intent of the Grant is to support the research of the student through an approved combination of equipment purchases, information access, travel, etc., but not routine living expenses or fees. Detailed rules for the competition will be issued soon: to receive them, express your interest to the committee by FAX to (215) 204-6936, or by writing to:

AAM Founders Prize and Grant Committee
c/o Civil and Environmental Engineering Department
Temple University (084-53)
Philadelphia, PA 19122

**ASSISTANT PROFESSOR/STRUCTURAL MECHANICS
UNIVERSITY OF VIRGINIA**

The Department of Civil Engineering at the University of Virginia invites applications for a tenure-track faculty position at the assistant professor level in the area of structural mechanics beginning in September 2000. Candidates for the position should have a strong background in structural mechanics with particular interest and expertise in structural applications of advanced materials. The successful applicant will have the opportunity to participate in a growing research group working in the area of advanced materials including composite and functionally graded materials and will have access to an existing state of the art laboratory devoted to the behavior of advanced materials. A strong background in computational/analytical modeling of materials and systems, including multi-scale modeling and use of advanced computational technology is highly desirable. The successful applicant will have the opportunity to participate in interdisciplinary research projects (e.g. with Materials Science, Biomedical Engineering, etc.) Qualifications include a Ph.D. in structural/solid mechanics, and demonstrated potential for excellence in both teaching and research. It is preferred that applicants have at least one degree in Civil Engineering. The successful candidate will be expected to establish and maintain a productive, externally funded research program, to supervise graduate students pursuing M.S. and Ph.D. degrees, and to teach undergraduate and graduate courses in structures and solid mechanics. Screening of candidates will continue until the position is filled. Please send a complete vita and the names and addresses of three references to: Dr. Thomas T. Baber, Chairman, Structural Mechanics Search Committee, Department of Civil Engineering, P. O. Box 400742, 351 McCormick Road, Thornton Hall, University of Virginia, Charlottesville VA 22904-4742. Qualified women and minority candidates are encouraged to apply. Applicants are encouraged to visit the Departmental website for further information on the department at: <http://www.cs.virginia.edu/~civil/>.

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14th U.S. National Congress of Applied Mechanics

The 14th National Congress of Applied Mechanics will be hosted by the Department of Engineering Science and Mechanics, Virginia Tech on June 23-28, 2002 and will be held on the campus of Virginia Polytechnic Institute and State University (Virginia Tech) in Blacksburg, VA. Virginia Tech is the largest comprehensive university (with approximately 25,780 students) in the Commonwealth of Virginia. The College of Engineering awards nearly 840 B.S. degrees, 390 M.S. degrees and 175 Ph.D. every year. The Department of Engineering Science and Mechanics enrolled 89 graduate students in 1998-99, awarded 15 Master and 12 Doctoral degrees in 1998-99, and had a research expenditure of \$6.8M dollars in 1998-99. The graduate program of the College of Engineering has been ranked 25th in the country in the 1999 U.S. News & World Report.

SPONSORS: U.S. National Congress of Applied Mechanics and its sponsoring societies: Acoustical Society of America, American Institute of Aeronautics and Astronautics, American Institute of Chemical Engineers, American Mathematical Society, American Physical Society, American Society of Testing and Materials, American Society of Civil Engineers, American Society of Mechanical Engineers, Society of Experimental Mechanics, Society for Industrial and Applied Mathematics, Society for Naval Architects and Marine Engineers, Society of Engineering Science, Society of Rheology.

GOALS: The conference will bring together mechanicians, and provide a forum for exchanging ideas, and promoting interaction among them. Scientist and researchers from all over the world are welcome to participate in the conference. All areas of applied mechanics will be covered. **Each speaker will be allotted 22 minutes for presentation and discussion of the paper.**

ORGANIZING COMMITTEE: Gen. Co-Chairs: E. Henneke (henneke@vt.edu) and R. Batra (rbatra@vt.edu); Scientific Prog. Comm. Co-Chairs: F. Hussain (FHussain@uh.edu) and M. Hyer (hyerm@vt.edu).

SPECIAL SYMPOSIA: Several colleagues have kindly agreed to organize symposia; please see the Conference website. Those interested in organizing a symposium should contact a member of the organizing committee.

ABSTRACT FORMAT AND OTHER INFO: See the conference website www.esm.vt.edu/usncam14/

TRAVEL TO BLACKBURG: The closest airport is in Roanoke and is 45 miles from the Virginia Tech campus. It is presently served by U.S. Airways, Delta, United, and Northwest. Rental cars are available at the airport. A limousine service from the airport to Blacksburg and back is also available. The local organizing committee will make additional arrangements to facilitate travel between Roanoke Airport and Blacksburg. Information about Blacksburg community is available at the website <http://www.bev.net/>.

IMPORTANT DATES:

31 January 2002 (Submission of Abstracts)	1 May 2002 (Deadline for reduced registration fee)
28 February 2002 (Acceptance/Declination Letters mailed)	23-28 June 2002 (Conference Program)
31 March 2002 (Preliminary Program mailed)	

MAILING ADDRESS FOR ABSTRACTS: USNCAM14, ESM Dept., MC 0219, Virginia Tech, Blacksburg, VA 24061; e-mail: usncam14@vt.edu; fax 540-231-4574.

CONTACT PERSON FOR INFORMATION ON HOUSING, TRAVEL, ETC.: Wanda Hylton, Continuing Education, Mail Code 0364, Virginia Tech, Blacksburg, VA 24060, e-mail whyhilton@vt.edu; Tel. 540-231-9617, Fax 540-231-9886.

REGISTRATION FEE: \$375.00 if paid by May 1, 2002; \$450 after 1 May 2002. The registration fee covers the book of abstracts, two coffee/refreshment breaks every day of the conference, a reception on 24 June 2002, a banquet on 29 June 2002, and admission to all sessions.

FINANCIAL ASSISTANCE: The organizing committee does **not** have funds to support even the partial travel of any potential participant.

PACAM VII

January 2-5, 2001
Enero 2-5, 2001

Seventh Pan American Congress of Applied Mechanics
Séptimo Congreso Pan Americano de Mecánica Aplicada

Universidad de la Frontera, Temuco, Chile

The **Seventh Pan American Congress of Applied Mechanics (PACAM VII)**, jointly sponsored by the **Universidad de La Frontera** and the **American Academy of Mechanics**, will be held **January 2-5, 2001** in **Temuco, Chile**. The Chairman of the Organizing Committee is **Professor P. Kittl** of the Universidad de Chile. The Co-Vice Chairmen are **Professor G. Díaz** of the Universidad de Chile and **Professor D. Mook** of the Virginia Polytechnic Institute and State University. The Chairmen of the Editorial Committee are **Professor A. Valencia** of the Universidad de Chile and **Professor James Geer** of the State University of New York at Binghamton, the Chairman of the Local Arrangements Committee is **Professor E. Vogel** of the Universidad de La Frontera, Temuco, Chile, and the Chairman of the Travel Arrangements Committee is **Professor Martin Ostoja** of the Georgia Institute of Technology.

Temuco is a beautiful resort city located in the forested lake region of southern Chile. It boasts many fine hotels and restaurants as well as magnificent alpine vistas, lakes, and hiking trails.

The aim of the sponsors is to promote progress in the broad field of mechanics by (1) exposing mature engineers and scientists as well as advanced graduate students to new research findings, techniques, and problems and (2) providing opportunities for personal interactions through formal presentations and informal conversations. It is the only conference sponsored by the American Academy of Mechanics.

The **Pan American Congresses of Applied Mechanics** are held every two years, always in a Latin American venue, at a time when few other conferences are scheduled. The previous Congresses were held in Rio de Janeiro, Brazil in 1989; Valparaiso, Chile in 1991; São Paulo, Brazil in 1993; Buenos Aires, Argentina in 1995; San Juan, Puerto Rico in 1997; and Rio de Janeiro, Brazil in 1999. Approximately 400 people from Africa, the Americas, Asia, Australia, and Europe attended the last one.

For more information visit the AAM Web Page: www.AAMech.org



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| 1733 | Groundwater pollution by organic compounds: a three-dimensional boundary element solution of contaminant transport equations in stratified porous media with multiple non-equilibrium partitioning | Elzein AH. Booker JR. |
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| 1857 | Evaluation of one-dimensional in situ leaching processes | Liu J. Brady BH. |
| 1873 | Disturbed state model for sand-geosynthetic interfaces and application to pull-out tests | Pal S. Wathugala GW. |
| 1893 | Stability of earth dam contaminated by chemical transport | Ahn T. Desai CS. |
| 1909 | Selection of p-y curves for the design of single laterally loaded piles | Bransby MF. |
| 1927 | Formation stability after hydraulic fracturing | Papanastasiou P. |
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