



NEWSLETTER

June 2001 Vol. 4 No. 3

2001 Earthquake Field Training Mission



left to right: Megan Docker, University of Memphis, Scott Deaton, Georgia Institute of Technology, Sarah Orton, University of Illinois, Juan Caicedo, Washington University, Dr. Doug Foutch, University of Illinois

May 5-12 were the dates of this year's Earthquake Field Training Mission. The MAE Center sent four graduate research assistants and a faculty advisor to London and Turkey to participate in the Earthquake Field Training Mission for 2001. In this annual event, all MAE Center graduate research assistants are eligible to apply for the field training mission, held in cooperation with the earthquake engineering section of Imperial College, London. A MAE selection committee picks four applicants to participate. This year's winners were Juan Caicedo, Washington University; Scott Deaton, Georgia Institute of Technology; Megan Docker, University of Memphis; and Sarah Orton, University of Illinois at Urbana-Champaign. Dr. Doug

Foutch of the University of Illinois accompanied the students.

Arriving in London on May 3, the MAE Center group spent May 4 at an orientation session with the earthquake engineering section at Imperial College before the combined group traveled to earthquake sites in Turkey on May 5. Joining the group was Dr. Amr Elnashai of Imperial College, founder of the field training mission exercise.

Based in Istanbul and Izmit during the field mission, the students spent a week visiting sites of the devastating 1999 earthquakes: Izmit, Yalova, Gulcuk, Adapazari and Duzce. Accompanied by local experts to the earthquake sites, the students also visited current construction sites, including the North Anatolian Motorway, to view current building techniques being used on bridges, apartments, and other public structures and heard lectures from distinguished experts at the University of Istanbul. Designed specifically for students of earthquake engineering, the field training exercise provides a hands-on assessment opportunity and the chance for students to interact with international experts in the field of earthquake engineering. Each student made technical presentations on their general observations at the end of the training exercise. The MAE Center group returned to London before departing for their home universities.



Retrofit of apartment building in Gulcuk



Damage to buildings in Adapazari

FROM THE DIRECTOR

Welcome to the New MAE Center Associate Director

I am pleased to announce that the MAE Center's staff is expanding to include a new administrative post responsible for oversight of the Center's research programs. As of July 1, 2001, Dr. Amr Elnashai will join the Center as our



new Associate Director. Professor Elnashai will assume a new faculty position in the Department of Civil and Environmental Engineering, created through a Faculty Excellence program under the UIUC Provost. Dr. Elnashai comes to us as the former Head of the Engineering Seismology and Earthquake Engineering Section at

Imperial College in London.

Dr. Elnashai is well versed at research and education in the fields of engineering seismology and earthquake engineering. He is responsible for launching in 1987, and subsequently running through the present, a new Master of Science course in earthquake engineering at Imperial College. This academic program is now internationally recognized, attracting students from North and South America, Europe, Asia and Africa. He has supervised over a hundred Masters dissertations on a variety of topics ranging from analysis to design to testing of structural systems under earthquake and blast effects. He has also supervised seventeen PhD theses on earthquake resistant design of steel, composite and reinforced concrete structures, and presently supervises four doctoral students. He has contributed to over 17 short courses on earthquake engineering topics in Europe and Egypt, and has authored over fifty journal papers on earthquake engineering topics, and many more conference papers and reports. Added to many items on his long list of accolades is the fact that he is one of the youngest members of the Royal Academy of Engineering in the UK.

As the current President of the European Association for Earthquake Engineering, he brings a great deal of potential to the MAE Center for future collaborative activities east of the Atlantic. With the next European Earthquake Engineering Conference (to be held in London in September 2002) being planned under the lead of Dr. Elnashai, a new degree of international visibility for the Center will be realized.

Amr received his Masters and PhD from Imperial College in 1980 and 1984. He received a B.S. in Civil Engineering from Cairo University in 1977. He is a fellow in the Institution of Structural Engineers, and a member of several other professional organizations including ASCE, EERI, and the International Association of Earthquake Engineering. He is active with development of code

provisions on the British Standards Committee, the European seismic code (EC8), the International Standards Organization, the Federation Internationale de Beton (FIB), and other international groups.

Dr. Elnashai has been a visiting scholar at the University of Tokyo, part-time professor at the University of Southern California, and visiting professor at the Universities of Surrey and Pavia, the Politecnico of Milan, and McMaster University.



Amr Elnashai

Amr is no stranger to the MAE Center. As an invited keynote speaker at our first Education Workshop held in St. Louis in June of 1998, his experience in earthquake education helped us give birth to our present education program. Through his generosity, he has welcomed four of our graduate students for the past three years to join his field missions to post-earthquake sites in Europe, including a recent excursion to Turkey a few weeks ago. This past February, one of his doctoral students, Tiziana Rossetto joined the MAE Center reconnaissance investigation in Gujarat. As a member of the Scientific Board, along with myself, and lecturer at the new European School for Advanced Studies in Reduction of Seismic Risk at the University of Pavia, he will help to extend the Center's research through an innovative new curriculum devoted to earthquake engineering.

Amr brings to the MAE Center considerable strength in interdisciplinary earthquake research. As Associate Director, he will be responsible for management of the Center's research thrust areas. In this capacity, he will co-chair the Center's Leadership Team along with myself. He will also serve as the coordinator of a new research thrust area on Regional Damage Synthesis that will draw on his strengths in engineering seismology, earthquake engineering and loss modeling. He will play an instrumental role with respect to the Center's international collaborative activities by continuing his active roles in cooperative research programs funded by the European Commission, including the SAFERR (Safety Assessment for Earthquake Risk Reduction) that he currently leads, and the newly started SPEAR program (Seismic Performance Assessment and Rehabilitation).

I encourage all MAE Center investigators and friends to meet and welcome Amr Elnashai as a significant addition to the MAE team.

D. P. Abrams

Announcements

EERI Receives Engineering Information Foundation Grant

The Earthquake Engineering Research Institute (EERI) has been awarded a two-year \$100,000 grant from the Engineering Information Foundation (EIF) in New York. The grant will be used to further development of a web-based encyclopedia of housing construction types in seismically prone areas of the world, a project aimed at effectively sharing engineering information globally.

This effort will ultimately link engineers and architects in more than 45 countries, facilitating development and sharing of data, and providing tools to improve housing vulnerable to earthquakes, reducing future economic losses and saving lives. Detailed information will be made available, in a searchable format, on the types of housing and different structural systems used in the participating countries. Examples received to date may be view at <http://www.johnmartin.com/EERI>.

The encyclopedia will provide information that will prove helpful in improving housing construction and will also create a community of knowledgeable workers in the field of housing design and construction. Plans for information dissemination include training courses and demonstration projects. The project is using technology to build a global community, by connecting experts around the world through the use of e-mail and the Internet. The web site, with its searchable database, will be complete and ready for use in December 2002.

U.S. News and World Report Issues Annual Rankings of Engineering Programs

U.S. News and World Report has published its latest graduate program rankings. Four of the MAE Center's core institutions are ranked in the top ten Civil Engineering departments in the country.

The University of Illinois at Urbana-Champaign is tied for the number 1 ranking with the University of California at Berkeley. Massachusetts Institute of Technology is ranked number 3; Georgia Institute of Technology is tied for number 6 with Stanford University; and Texas A&M University is tied for number 10 with the California Institute of Technology.

The rankings of best undergraduate engineering department with Ph.D. programs includes the University of Illinois at Urbana-Champaign at number 2; Massachusetts Institute of Technology at number 3; Georgia Institute of Technology at number 4; and Texas A&M University at number 10.

Congratulations to these MAE Center core partner institutions for their continuing commitment to excellence!

Historic Earthquake Images Available

Historic earthquake photographs, images and news articles are now available on a web site maintained by the Department of Earth and Atmospheric Sciences at Saint Louis University. Among the featured earthquakes are the Charleston, South Carolina, earthquake of 1886; the 1906 San Francisco earthquake; the 1923 Tokyo earthquake; the 1917 San Salvador earthquake; and the 1968 southern Illinois earthquake. Visit the site at www.eas.slu.edu/Earthquake_Center/eqphotos.html.

Light Earthquake Strikes Central Arkansas

A light earthquake struck central Arkansas on Thursday, May 3. Centered about 15 miles northeast of Conway, Arkansas, the earthquake had a magnitude of 4.4, and was widely felt as far as the state lines of Missouri and Oklahoma and as far south as Pine Bluff, just north of Mississippi. Minor damage including broken glass was reported; there were no injuries.

CDs Available from EERI

Two new CDs are available from the Earthquake Engineering Research Institute (EERI). They are Images from the Bhuj, India, Earthquake of January 26th, 2001 and Kocaeli, Turkey Reconnaissance Report and Separate Full-Color Images. For more information, including price, visit the EERI web site at <http://www.eeri.org>.

Call for Papers

The Journal of the Chinese Institute of Engineers has issued a call for papers for a special issue: Commemoration of the Chi-Chi Earthquake. Published in English, the Journal of the Chinese Institute of Engineers is especially interested in the following topics for its special issue:

- Near-fault ground motion characteristics
- Damage investigation of liquefaction, landslide, buildings and bridges
- Retrofit technologies for building and bridge structures
- Data analysis on CWB free-field and structure strong motion array data
- Lessons learned from the Chi-Chi earthquake
- Study on the social and economic impacts of the Chi-Chi earthquake

The due date for abstracts is June 20, 2001. For further information, e-mail lohcn@ncree.gov.tw or hkhong@ce.ntu.edu.tw.

The Expanding Scope of the MAE Center's Student Leadership Council

The MAE-Center's Student Leadership Council (SLC) has been steadily working toward its ultimate goal:

To facilitate communication among MAE Center students in order to promote better understanding of the Center's research efforts so that the quality of both the research and the student experience is improved



MAE-SLC representatives meeting at the University of Illinois at Urbana-Champaign, March 23-24, 2001

On March 23-24 the MAE Center's SLC representatives met at the University of Illinois at Urbana-Champaign to discuss ongoing activities and to set new goals for the upcoming year. Current SLC representatives are: Omer Erbay, Chair, and Can Simsir, University of Illinois; Tianyi Yi, Georgia Institute of Technology; Juan Caicedo, Washington University; David Peralta and David Pflingsten, Texas A&M University; Amanda Hatch and Shane Parrish, University of Memphis; Sumit Kannumkal and Stefan D'heedene, Massachusetts Institute of Technology. A detailed summary of the meeting and related information is available through the Student Corner web site.

Ongoing activities that were discussed included videoconferencing, the student corner web site, the annual 2001 RA Symposium and the online journal. The SLC team revisited these activities and set new directions based on previous experience and projected future needs. Some of the highlights about ongoing activities included:

Video-Conferencing: An IP (Internet Protocol) based videoconferencing utility is being set up in addition to the current ISDN based videoconferencing utility. The new configuration will be more efficient and cheaper than the current system and will provide a high tech platform for virtual research interaction and knowledge dissemination.

Student Corner Web Site: Two new links have been added to the site, the E-mail List Archive and SLC-Meetings. The first will replace the current newsgroup section and will connect all students through e-mail. Subscription to the e-mail list server can be done through the MAE

center home page as well as through the Student Corner web page. The SLC-Meetings section is designed to provide summaries about regular SLC meetings. The SLC Council meets the first Tuesday of each month to discuss the status of ongoing projects.

RA Symposium: This year's RA symposium will be held on November 16 in Charleston, South Carolina. The theme for this year is "Multi-Disciplinary Earthquake Awareness. Following the format of last year's very successful conference, this year's RA Symposium will include student presentations, student activities, prizes, keynote speakers and, most importantly, a lot of project interaction in poster sessions.

On-line Journal: The second issue, including student experiences during the 2001 field training mission to Turkey, is on-line and can be reached through the Student Corner web page.



The SLC team works on a new IP-based videoconference tool

In addition to ongoing activities, the SLC also defined new projects for the upcoming year. The new projects include production of an SLC brochure, student orientation at the beginning of each MAE Center Annual Meeting and the contact archive. The SLC brochure aims to provide information about the SLC and its activities to all new students and will serve to guide them on how to participate in this organization. Student orientation will address new MAE Center students and help them to have a faster and smoother adaptation to the Center's environment. The contact archive will provide a link between former MAE Center students and current. With these new projects, the SLC is expanding its scope and providing a means by which new as well as former students may keep in contact, providing continuity, support and a sense of community among MAE Center student researchers, past and present.

For news and updates on SLC activities, please visit the Student Corner web site at: <http://mae.ce.uiuc.edu/Education/EducationFrame.htm>.

To update mailing address information, please contact Birgit Fry at 217-244-6302, or by e-mail at: bfry@uiuc.edu.

W. Gene Corley Receives Alumni Award

W. Gene Corley received an Alumni Award for Distinguished Service from the University of Illinois at Urbana-Champaign College of Engineering on April 20. Dr. Corley (BS 1958, MS 1960, PhD 1961, civil engineering) was recognized for "outstanding contributions to the art and science of design of reinforced and prestressed concrete structures and for his extraordinary service to the advancement of the standards of structural engineering practice." Vice President of Construction Technology Laboratories in Skokie, Illinois, Corley serves on the MAE Center's Executive Advisory Board.

University Consortium for Instructional Shake Tables (UCIST)

The National Science Foundation has funded the University Consortium for Instructional Shake Tables (UCIST) proposal. A tri-center collaborative effort headed by the MAE Center with support from the Pacific Earthquake Engineering Research Center (PEER) and the Multidisciplinary Center for Earthquake Engineering (MCEER), UCIST developed plans for construction of a mini-shake table that can be used in demonstrations to precollege students, nonengineering students and the general public about potential consequences of earthquakes. The single-axis table weighs about 60 pounds and can support a display of up to 33 pounds. It has a peak velocity of 33 in./sec with a 2.5g peak acceleration and a stroke of 6 in. The selected vendor, Quanser Consulting, began delivering the mini-shake tables in August 2000.

The MAE Center, PEER, and MCEER are working to cooperatively develop experiments for the mini-shake table for classroom use that will make earthquake engineering concepts more accessible to undergraduate and graduate student alike.

New MAE Center CDs Available

The MAE Center has released two CDs. CD 01-02, *Generation of Synthetic Ground Motion*, by Howard Hwang, Shahram Pezeshk, Yang-Wei Lin, Jiang He, and Jer-Ming Chiu, and CD 01-03, *Using Pulse R-Factors to Estimate Structural Response to Earthquake Ground Motions*, by Isabel Cuesta and Mark A. Aschheim, are now available.

To acquire these CDs, or those previously released, contact Birgit Fry at 217-244-6302, or by e-mail at bfry@uiuc.edu. For a complete listing of MAE Center CDs, visit our web site: <http://mae.ce.uiuc.edu>.

Sam Bages Joins MAE Center Staff

Sam Bages has joined the MAE Center part-time as a Web and Data Base Developer. Sam is responsible for maintaining the Center's web-based data retrieval system, providing technical support for videoconferences and web broadcasts, monitoring security and providing hardware and software support. A 1999 graduate of Southern Illinois University at Carbondale, Sam may be reached at 217-244-2830 or by e-mail at bages@ce.uiuc.edu.

Upcoming MAE Center Meetings and Seminars

The annual National Science Foundation site review for the Mid-America Earthquake Center is scheduled for June 20-22, 2001, at the University of Illinois at Urbana-Champaign. Concurrent program coordination meetings and a meeting of the Student Leadership Council will be held on June 19. For further information, contact Vicki Jarboe at 217-244-0857 or by e-mail: vjarboe@uiuc.edu

The MAE Center Annual Meeting and RA Symposium has been set for November 17-19, 2001, in Charleston, South Carolina, at the Mills House Hotel. The RA Symposium is scheduled for Saturday, November 17, with the annual meeting to follow on November 18 and 19. A pre-meeting reception will be held at the Mills House the evening of November 16. Hotel reservations for the meeting must be made by October 16. For reservations, please contact the Mills House directly at 800-874-9600. For further information, contact Vicki Jarboe at 217-244-0857 or by e-mail: vjarboe@uiuc.edu.

The MAE Center has scheduled a Masonry Seminar for March 20-21, 2002, in St. Louis at the Masonry Institute of St. Louis. Watch our web site for further details or contact Sandra Menke at 217-244-8297 or by e-mail: smenke@uiuc.edu.

David E. Daniel Named Dean of the UIUC College of Engineering

David E. Daniel became Dean of the College of Engineering at the University of Illinois at Urbana-Champaign on April 21. Head of the Department of Civil and Environmental Engineering at UIUC from 1996 until he assumed his new position, Dean Daniel serves as chair of the MAE Center's Interinstitutional Committee. Named as Interim Department Head was Neil Hawkins, former department head and MAE Center researcher. Dr. Hawkins serves on the MAE Center's Leadership Team.

Outreach and Education

SLC Concludes Seminar Series for the 2000-2001 Academic Year

The MAE Center's Student Leadership Council (SLC) concluded a very active, successful semester of its ongoing seminar series in May.

On April 26, Joan Zhong, who received her Ph.D. from the University of Illinois at Urbana-Champaign, May 2001, spoke about her research on MAE Center project ST-13, Rehabilitation of Bridge Columns. Her talk was titled "Assessing the Effectiveness of Reducing Seismic Vulnerability by a Program of Bridge Pier Wrapping." Ms. Zhong spoke about the multi-column bent bridges in the



Prof. Chang-Sik Choi, Dajin University, Pocheon, Korea

New Madrid Seismic Zone (NMSZ) as being susceptible to potential earthquake damage due to deficiencies of lap-spliced reinforcement at column ends, insufficient shear capacity of columns and cap beam, and soft soil conditions. This research developed a methodology for

describing the generic vulnerability to seismic loading of such columns and a methodology for describing the changes in vulnerability if specific strategies are used to retrofit those columns. The characteristics of representative bridges with multi-column bents were identified through development of an inventory of southern Illinois bridges on designated primary emergency routes; structural and vulnerability assessments for both as-built and retrofitted representative bridges bents were carried out; structural damages likely under NMSZ synthetic earthquakes were predicted; and correlation of structural damage with loss of bridge functionality due to bridge pier damage was mapped.

John Nichols, MAE Center Post-Doctoral Research Associate, spoke on May 17 on "The Degrading Stiffness of Masonry Panels Subjected to Harmonic Shear Loading." Dr. Nichols spoke about the change of the damage mechanic properties for un-reinforced masonry panels under dynamic loads as being critical in a time-domain analysis of masonry shear walls. His doctoral thesis, done at the University of Newcastle, Australia, experimentally investigated the evolution of the properties of the damage variable for un-reinforced masonry panels, subject to dynamic in-plane displacement controlled strain. After presenting the theoretical basis for the estimation of the

Damage Variable for masonry shear walls, Dr. Nichols discussed the observed changes in the effective stiffness properties of the masonry panels from the early tests, development of a loading pattern designed to be consistent with the seismic ranges of frequencies and amplitudes, and development of a shear test rig for the project.

The series concluded on May 24 with Dr. Chang-Sik Choi, Associate Professor, Dajin University, Pocheon, Korea. Dr. Choi is spending a year at the University of Illinois and at the MAE Center as a Visiting Scholar. Dr. Choi spoke on "Flexural and Shear Performance of Reinforced Concrete Structural Walls under Simulated Seismic Loading." After familiarizing the audience with the seismic hazard along the Asian Pacific rim, Dr. Choi spoke about his ongoing research in Korea and the impact it will have on building codes and producing seismically-resistant buildings such as hospitals and high-rise apartment buildings.

Summer 2001 REU (Research Experience for Undergraduates)

The Mid-America Earthquake Center is once again sponsoring a summer Research Experience for Undergraduates (REU) program. For the third consecutive summer outstanding undergraduate students from universities and four-year colleges have been selected to spend ten weeks conducting individual research projects as members of a MAE Center faculty advisor's research team. The MAE Center is pleased to be able to provide these exciting opportunities to practice earthquake engineering research to this year's field of winners.

Ryan McDaniel, University of Tennessee at Martin, is working with Stephen Horton at the University of Memphis on project SG-12, Calibrating Intensity with Ground Motion. Stephen "Nick" Priddy, University of Tennessee at Martin, will be assisting Reginald DesRoches, Georgia Institute of Technology, with project ST-12A, Response Modification of Bridges. Joining Roy Van Arsdale's SG-6A project at the University of Memphis, Characterization of Seismic Sources in and around the New Madrid Seismic Zone, is Matt Dryden, University of Illinois at Urbana-Champaign. Peggy Ho, University of Illinois at Urbana-Champaign, is working with Joseph Sussman, Massachusetts Institute of Technology, on project SE-12, Vulnerability of Transportation Networks.

A Communications Workshop to augment oral and written communication skills will be held at the University of Illinois in mid-July. The students will participate in an Earthquake Symposium for Young Researchers in Salt Lake City, August 10-11. Jointly sponsored by the MAE Center, Multidisciplinary Center for Earthquake Engineering Research (MCEER) and Pacific Earthquake Engineering Research Center (PEER), the Symposium will provide a forum for REU students from the three National Science Foundation sponsored Earthquake Engineering Research Centers to present the results of their research.

2001

July 12-13: 6th Australasian Masonry Conference, Adelaide, South Australia. Contact: Dr. Mike Griffin, 61-8-8303-5451; e-mail: mcgrif@civeng.adelaide.edu.au.

July 29-August 3: International Conference on High Performance Materials in Bridges, Kona, Hawaii. Contact: www.engfnd.org.

August 7-10: International Tsunami Symposium, Seattle, Wash. Contact: www.pmel.noaa.gov/its2001.

August 12-17: SMiRT Conference, Washington, D.C. Contact: www.engr.ncsu.edu/SMiRT_16.

August 16-19: International Conference on Engineering Materials, San Jose, Cal. Contact: mcmullin@email.sjsu.edu.

August 29-31: IABSE Conference on Wooden Structures, Lahti, Finland. Contact: www.iabse.ethz.ch.

September 4-6: The Third International Conference on Earthquake-Resistant Engineering Structures (ERES 2001), Malaga, Spain. Contact: shanley@wessex.ac.uk or www.wessex.ac.uk/conferences/2001/eres01/.

October 3-5: The First Albert Caquot International Conference on Modeling and Simulation in Civil Engineering: From Practice to Theory," Paris. Contact: Francoise Bourgain, bourgain@mail.enpc.fr; www.enpc.fr/caquot/.

October 7-10: 10th International Conference on Soil Dynamics and Earthquake Engineering, Philadelphia, Pa. Contact: SDEE' 2001 Secretariat, 215-895-2340 (voice); e-mail: sdee2001@drexel.edu.

November 13-15: 8th Annual Congress of the Institute for Business and Home Safety (IBHS), San Antonio, Tex. Contact: jcollins@ibhs.org.

December 3-7: 10th International Conference of Fracture, Honolulu, Hawaii. Contact: Amy Hill, 44(0) 1865 843643 (voice); e-mail: a.richardson@elsevier.co.uk; web: www.elsevier.com/locate/icf10.

2002

February 6-9: 2002 EERI Annual Meeting, Westin Hotel, Long Beach, California. Contact: www.eeri.org.

March 11-13: International Conference on High Performance Structures and Composites, Seville, Spain. Contact: shaney@wessex.ac.uk; http://www.wessex.ac.uk/conferences/2002/hps02/.

May 27-29: Seventh International Conference on Shock and Impact (SUSI 2002), Montreal, Canada. Contact: gcossutta@wessex.ac.uk; http://www.wessex.ac.uk/conferences/2002/hps02/.

July 21-25: 7th National Conference on Earthquake Engineering, Boston. Contact: www.eeri.org.

MEETINGS & ANNOUNCEMENTS

Become a partner with the MAE Center and make an impact on results of investigations directed at evaluating seismic hazards and developing retrofit strategies for the built

environment in Mid-America. As a partner of the MAE Center through this preferred access program, you will have a voice in how research programs are planned and executed, and how their results are implemented to practice. Business, industry and government partners are invited to become an integral part of the Center's activities by interfacing directly with coordinated research programs as well as with individual research, outreach and education projects.

Members are the first to be informed of the most recent earthquake information, and have access to the latest research results via published reports, technical papers, software and data. To become a member, obtain an application form from the MAE Center website or by calling 217-244-6302.

access²

July 29-August 3: United Engineering Foundation International Conference on High Performance Materials in Bridges, Kona, Hawaii. Contact: Dr. Atorod Azizinamini, 410-472-5106; UEF website: http://www.engfnd.org.

September 9-13: Twelfth European Conference on Earthquake Engineering, Barbican Center, London, UK. Contact: Rachel Coninx, 12ECEE Secretariat, Institution of Civil Engineers, London SW1P 3AA, UK; e-mail: 12ECEE@ice.org.uk.

Call for Papers

The International Conference on High Performance Structures and Composites (HPSC 2002) has issued a call for papers. The conference will be held in Seville, Spain, March 11-13, 2002. Abstract deadline is June 19, 2001. For further information, contact the Conference Secretariat, HPSC 2002, shaney@wessex.ac.uk.

The Seventh International Conference on Shock and Impact (SUSI 2002) has issued a call for papers. To be held in Montreal, Canada, May 27-29, 2002, SUSI 2002 has an abstract deadline of August 21, 2001. For further information, contact the Conference Secretariat, SUSI 2002, gcossutta@wessex.ac.uk.



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