



Conference puts spotlight on traffic fatalities and need for prevention

Six hundred deaths annually on Minnesota's roadways is a tragic and unacceptable statistic. Until the problem gets more serious attention, however, that figure is unlikely to improve.

That theme arose time and again during the Toward Zero Deaths: Integrating Minnesota's Traffic Safety Agenda Conference, held September 13 and 14 in St. Cloud. The conference, which drew about 450 attendees, served as a forum for sharing information on how to reduce the number of fatalities and injuries on Minnesota roads.

Toward Zero Deaths is a multi-agency partnership that includes representatives from the Minnesota Department of Transportation (Mn/DOT), Minnesota Department of Public Safety, Minnesota State Patrol, Federal Highway Administration (FHWA), and the Center for Transportation Studies (CTS). The conference was hosted by CTS and sponsored by Mn/DOT, the Department of Public Safety, and the Minnesota TZD



Beth Alicandri

program. It included the Minnesota Department of Public Safety *Safe and Sober* and *Child Passenger Safety* Conferences.

In her keynote address, **Beth Alicandri**, director of the Office of Safety Programs at

the FHWA, said the public needs to better understand that vehicle crashes are a serious public health problem. They're such a serious problem, in fact, that for the first time in the history of the World Health Organization, its 2004 World Health Day was devoted to road safety, she said.

At one time the United States had the lowest traffic fatality rate in the world, but that rate has been steadily increasing for several decades. "We're losing ground," Alicandri said. "If other countries are getting better [at reducing road fatalities], we can too. But the only way to address these kinds of fatalities is to take an interdisciplinary approach. We can't fix this problem alone."

TZD continued on page 3

Symposium to focus on forces of change affecting freight transportation and logistics

Many forces are affecting freight transportation and logistics, especially trends in trucking. The Eighth Annual CTS Freight and Logistics Symposium will feature discussions by representatives of the business community and the public sector on issues such as congestion, security, infrastructure condition, truck availability, cost, and hours of service regulations. The symposium will also address how these challenges are affecting other freight transportation modes and what implications they have for future technologies.

The symposium will take place on Friday, December 3, at the Four Points Sheraton Metrodome in Minneapolis. CTS is sponsoring the symposium in cooperation with the Minnesota Department of Transportation (Mn/DOT), the Minnesota Freight Advisory Committee, the Council of Logistics Management Twin Cities

Roundtable, and the Metropolitan Council.

The symposium is designed for decision makers and practitioners from shippers, carriers, and other private-sector organizations involved in logistics and transportation, as well as government officials and representatives from nonprofit organizations and academic institutions.

The event will begin with a keynote presentation by **Gary Petersen**, director of transportation at General Mills. Peterson will share his perspective on the current issues and challenges facing the freight and logistics communities.

Next is a panel session titled "The Future of Trucking: Forces for Change." It will begin with the private-sector perspective from **Jim Butts**, vice president for transportation at CH Robinson Worldwide, and the public sector

Freight continued on page 2

Inside

- MAST Lab grand opening 2
- Itasca proposal 3
- Call for presentations 4
- CTS Council update..... 4

Reminder: Register for November events

Don't forget to register for the following CTS events coming up in November:

- CTS Fall Luncheon with **Dave Wetzel**, Transport for London, "London's Success with Congestion Charging," November 4, Four Points Sheraton Metrodome, Minneapolis
- The inaugural Airport Technical Assistance Program (AirTAP) Fall Forum, November 3-4, Radisson Hotel, St. Cloud
- Access to Destinations: Rethinking the Transportation Future of our Region, November 8, Coffman Memorial Union, Minneapolis

Also, mark your calendars for the CTS Winter Luncheon: February 10 at the Radisson Metrodome Hotel in Minneapolis. Sponsored by the Center's ITS Institute, the luncheon will feature a presentation by **Hani S. Mahmassani**, Department of Civil and Environmental Engineering, University of Maryland. A flyer with registration information will be included in the December *CTS Report*.

Updates are posted on the CTS Web site at www.cts.umn.edu/events. **CTS**

MAST Lab holds grand opening

A crowd of 250 turned out on September 21 for the grand opening of the University's newest large-scale structural testing facility, the Multi-Axial Subassemblage Testing (MAST) Laboratory. The event drew dozens of local engineers, as well as University president **Robert Bruininks**, Minneapolis city councilman **Paul Zerby**, and **Dennis Martenson**, president-elect of the American Society of Civil Engineers. Visitors traveled from as far away as Washington, D.C., Boulder, Colorado, and St. Louis, Missouri to attend the event.

"The MAST Laboratory is a tremendous tool for local business and industry," Bruininks said.

Research at the facility will contribute new ideas and changes to building codes across the country, Bruininks said. And it keeps Minnesota at the forefront on these issues. "Having faculty at Minnesota involved on the cutting edge of these issues gives an important advantage to our students," he said. The MAST is also ideally suited for the investigation of infrastructure engineering issues of interest to Mn/DOT, including studies of the effects of multi-directional loading on bridge piers and retaining-wall-type structures.

Researchers from both academia and industry will be able to use the MAST system, which can apply more than 880,000 pounds of force horizontally and 1.3 million pounds of force vertically on test structures up to 25 feet tall.

The \$11.6 million laboratory is one of 15 facilities nationwide that make up the **George E. Brown Jr.** Network for Earthquake Engineering Simulation (NEES).

The network is the first major research equipment program in engineering funded by the National Science Foundation and includes a range of test facilities, from shake tables and tsunami wave basins to the MAST system, which uses giant actuators and an overhead crosshead to apply force or deformations to the test specimen.

The facilities are all networked through Internet 2, allowing researchers to participate in tests remotely. The network will also keep a data archive of past tests.

"NEES is going to be a new way of doing research for the earthquake engineering community," said **Joy Pauschke**, NSF program director for Civil and Mechanical Systems.

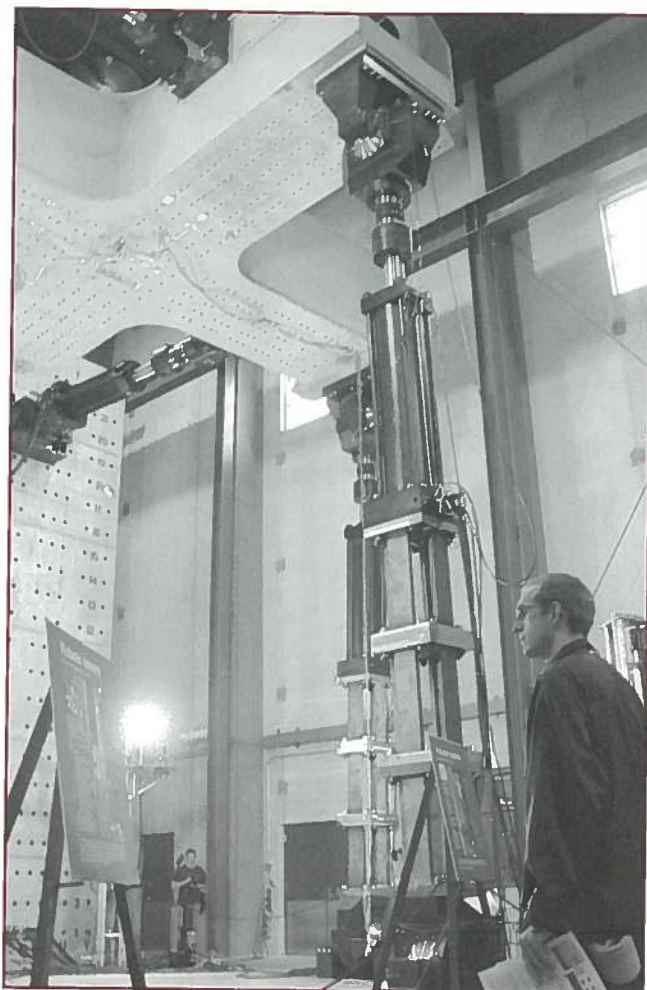
She cited the network's collaborative approach and its ability to retrieve the results of past tests as two advances over past research.

Pauschke also applauded the leadership of the University of Minnesota team, led by professors **Catherine French**, **Jerry Hajjar**, and **Carol Shield**, in helping develop collaborations among the NEES sites, all of which will be open as of October 1. **CTS**

Freight from page 1

perspective from **Cecil Selness**, transportation operations manager with Mn/DOT. They will be followed by comments from panelists **John Hausladen**, president of the Minnesota Trucking Association; **Anita Benson**, county engineer, Lyon County; and **Natalio Diaz**, director of metropolitan transportation services, Metropolitan Council.

The next session, titled "Implications for Other Modes, Technology, and the Infrastructure," will be moderated by **Greg West** of CH Robinson Worldwide and will feature **Richard Stewart**, director of the Transporta-



Top: The lab's overhead crosshead and actuators. Bottom left: visitors with Catherine French. Bottom right: Jerry Hajjar and Gust Kempf, who donated the land that is now the site of the MAST lab.

tion and Logistics Research Center at the University of Wisconsin-Superior, and **Dan Murray**, director of research for the American Transportation Research Institute.

The event will close with a presentation by **Warren Hoemann**, deputy administrator of the Federal Motor Carrier Safety Administration (invited).

Registrations are due November 29. For further information, please call **Heather Dorr**, 612-625-5267, or e-mail hdorr@cce.umn.edu.

A brochure with further details is enclosed. To register online, go to <http://register.cce.umn.edu> and enter Event ID# 176693. **CTS**

CTS contributes to Itasca transportation proposal

The Itasca Project, a group of 40-plus business leaders and public officials including University president **Robert Bruininks**, issued a transportation statement on September 23. Transportation is one of six priority issues the Itasca group is working on to keep the Twin Cities economy and quality of life competitive with other regions.

A number of University researchers met at CTS in July with Itasca staff and others to discuss measures for evaluating the costs and benefits of an accelerated and substantial investment in the region's transportation infrastructure. These measures fell into three main dimensions:

- Describing the problem and the degree to which it's getting worse.
- Tracking whether the improvements (more road capacity, relieved bottlenecks, additional transit opportunities) make any difference.
- Answering the "what-if" questions: If we don't act, how much worse could congestion get? How much more, in real dollars, will the inevitable fixes cost if we wait another five or ten years, for example? And how much is lost in productivity, projected forward, and consequent damage to the region's economy?

TZD from page 1

She reported that FHWA continues to keep safety at the center of the agency's three "must-do" priorities. These "Vital Few" issues—safety, environmental stewardship and streamlining, and congestion mitigation—are essential to FHWA's success over the next three to five years, she explained, and will require the full strength of the agency to succeed.

"It's clear to us that the slow changes we see in the fatality rate are because what we've done to date hasn't worked well enough. The way to make a difference is to be strategic, so we're re-thinking our approach to safety and are focused on performance-based decision making. We know that the challenge is great, but the payoff is even greater," she said.

Other conference sessions gave updates on progress made so far as well as a glimpse of potential future initiatives—for example, the use of intelligent transportation systems (ITS) such as adaptive cruise control—to improve safety. Several sessions addressed the current challenges in reducing crashes, from getting the media's attention to enforcing speed limits, and offered ideas for overcoming those.

One of the concurrent sessions featured two University of Minnesota researchers who provided insights into various driver



University researchers brainstormed with Itasca staff in July.

Attending the meeting were **Gary Barnes** and **Lee Munnich** of the Humphrey Institute; **David Levinson** of the Department of Civil Engineering; **Barry Ryan** and **Tom Stinson** of the Department of Applied Economics; **Abby McKenzie** of Mn/DOT; **Norman Foster** of the Minnesota Department of Finance; **Robert**

Johns of CTS; **Curt Johnson** of Citistates Group; and **Jennifer Ford Reedy** of McKinsey & Company. Johnson and Reedy attended as staff for the Itasca effort.

In its statement, Itasca recommended that an extra \$750 million a year be spent on road and transit improvements over the next 15 years. The group, chaired by **Jim Campbell**, retired chairman of Wells Fargo Bank Minnesota, also advised cost-cutting reforms and a new state position of chief operating officer of transportation.

In coming months, Itasca will work to raise awareness of transportation needs and build a broad coalition of support with citizens and other organizations. It also plans to bring its proposals to the state legislature in the 2005 session. **CTS**

behaviors and ideas on how to best deal with these from a human factors standpoint. **Janet Creaser**, with the University's HumanFIRST program, discussed the various characteristics of younger and older drivers. In both of these "at-risk" groups, there are several factors that combined, and individually, increase the number of fatalities in each of these groups. Creaser explained how appropriate types of traffic and vehicle engineering, education, enforcement and licensing, and ITS all can be used to mitigate the risks of drivers in these two age groups.

Kathleen Harder, with the University's Center for Sustainable Building Research, reported that driver aggression (not including road rage) is one of the major threats to safety in future roadway environments. She explained that there may be ways to alter the driving environment to change the behavior of people who are tripped into aggressive behavior. This could be done, she said, by designing roads that include traffic calming features, providing travel time information via changeable message signs, creating better roadway signage, and developing various mass transit options.

During the conference's closing session, risk management specialist **Gordon Graham** shared several philosophies and



Gordon Graham

strategies he believes could go a long way toward achieving zero deaths on our roadways. "I am firmly convinced that risk management is

the answer to all of the problems we face in traffic safety as an organization, as a society, and as a nation," he said. "No matter what job you're in, it all gets down to risk management. Bad things do not have to happen. The bottom line is that identifiable risks are manageable risks."

Specifically, Graham suggested that rather than focus solely on after-incident damage control, we should focus efforts on preventing mistakes. In the area of traffic safety, he noted, this means asking, "What can we do up front to prevent traffic tragedies?"

A proceedings of the conference will be published later this fall. To receive a copy, call CTS at 612-626-1077 or visit www.cts.umn.edu/publications. **CTS**

Call for Presentations enclosed for 2005 research conference

CTS has issued a Call for Presentations for its Sixteenth Annual Transportation Research Conference. Enclosed with this newsletter, the call invites all interested individuals to submit a one-page abstract for a presentation (or poster) at the conference, to be held April 26–27, 2005, at RiverCentre in St. Paul.

If you or your organization would like to share the results of your efforts in transportation-related fields, please submit an abstract by November 15.

New this year, all abstracts must be submitted electronically. Go to the CTS Web site at www.cts.umn.edu/events/rescon and follow the instructions to submit your abstract.

For further information, please contact **Heather Dorr** at hdorr@cce.umn.edu or 612-625-5267.

CTS Councils will meet this winter to review abstracts and finalize the conference sessions. **CTS**

CTS Council update

Ken Buckeye, program manager with Mn/DOT's Office of Investment Management, is the new chair of the CTS Transportation and the Economy Council, succeeding **Jody Hauer**. Hauer, program evaluator with the Office of the Legislative Auditor, served as chair since 1995. "During Jody's term, research and interest in transportation and economic policy issues grew dramatically," says **Robert Johns**, CTS director. "She did a great job of facilitating dialog between researchers and practitioners in order to identify emerging issues that warrant research as well as prominence at our annual conference."

In other council news, the Transportation and Environment Council has changed its name to the Transportation Planning and Environment Council. Chair **Connie Kozlak** of the Met Council says the new name better reflects the breadth of topics that the council addresses.

And last, CTS is again seeking additional individuals who would like to become more involved in our activities and initiatives and serve as "Friends of the Coun-

cil." In addition to the councils mentioned above, the other three councils are: Safety and Traffic Flow, Transportation Infrastructure, and Education and Outreach.

The CTS Councils provide a forum for diverse interests to exchange information on current transportation issues and trends. They bring together University faculty and staff with practitioners from the public and private sectors to recommend new direction, participate in improving CTS programs, and help transfer the University's knowledge to potential users.

Friends are informed of the activities of the council and given an opportunity to participate in council activities. Council meetings are open, and Friends are encouraged to attend. New council members are drawn from Friends who have been active in council activities.

Interested individuals should complete the Council Interest Form at www.cts.umn.edu/about/council/friend/ and return it to CTS by November 15. **CTS**

Upcoming events

To publicize your event, call CTS at 612-626-1077, fax 612-625-6381, or e-mail snopl001@cts.umn.edu. Visit the CTS Web site—www.cts.umn.edu—for more comprehensive event information.

- Oct. 26 ITS Minnesota Fall Industry Forum, Four Points Sheraton Metrodome, Minneapolis. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Oct. 26 37th Annual Water Resources Conference, Brooklyn Center. Contact **Julie Grazier**, 612-624-3044, jgrazier@cce.umn.edu.
- Oct. 27 "When Citizens Attack! The Facts About Citizen Opposition to Development," DoubleTree Park Place, St. Louis Park. Sponsor: Sensible Land Use Coalition. Contact **Pat Arnst**, 952-474-3302, PFArnst@aol.com.
- Nov. 3–4 Airport Technical Assistance Program (AirTAP) 2004 Fall Forum, St. Cloud. Visit www.airtap.umn.edu.

- Nov. 4 CTS Fall Luncheon, Four Points Sheraton Metrodome, Minneapolis. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Nov. 8 Access to Destinations Conference, Coffman Memorial Union, Minneapolis. Contact **Teresa Washington**, 612-624-3745, twashing@cce.umn.edu, or visit www.cts.umn.edu/events/atdcon.
- Nov. 17–19 Minnesota Public Works Association Fall Conference, Earle Brown Heritage Center, Brooklyn Center. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Dec. 3 Freight and Logistics Symposium, Four Points Sheraton Metrodome Minneapolis. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Dec. 7 51st Annual Bituminous Conference, Brooklyn Center. Contact **Don Theisen**, 651-430-4304.
- Jan. 18–21 Minnesota County Engineers Association Annual Conference, Brainerd. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.

- Jan. 26–28 City Engineers Association of Minnesota Annual Conference, St. Paul. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Feb. 10 CTS Winter Luncheon, Radisson Hotel Metrodome, Minneapolis. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Feb. 17 Minnesota Pavement Conference, Continuing Education Conference Center, St. Paul. Contact **Teresa Washington**, 612-624-3745, twashing@cce.umn.edu.
- Mar. 2 Transportation Career Expo, Coffman Union, Minneapolis. Contact **Mindy Jones**, 612-625-1813, jones154@cts.umn.edu.
- Apr. 26–27 16th Annual CTS Transportation Research Conference, RiverCentre, St. Paul. Contact **Heather Dorr**, 612-625-5267, hdorr@umn.edu. **CTS**



CAREERS IN TRANSPORTATION

Transportation Jobs and Internships

October 2004

APPLICANTS: If you are interested in these positions, please contact the person(s) listed.

EMPLOYERS: If you have job opportunities related to the field of transportation, CTS will help you publicize them. You can obtain a submission form from the CTS web site at www.cts.umn.edu/education/employfrm.pdf or by calling 612-625-6687. Please send your text by mail, fax, or e-mail; we must receive your text by the 25th of each month in order to list it in the next *CTS Report*. Send submissions to:

Careers in Transportation
Center for Transportation Studies
University of Minnesota
200 Transportation and Safety
Building
511 Washington Avenue S.E.
Minneapolis, MN 55455
Phone: 612-625-6687
Fax: 612-625-6381
E-mail: snopl001@cts.umn.edu

Students interested in civil engineering positions can check the Civil Engineering Department's site at: www.ce.umn.edu/empopp/coop.

Accuracy of ads is the responsibility of the employer. CTS reserves the right to edit ads for length and format. Unless otherwise notified, CTS will run announcements until the application deadlines expire. Ads without a deadline will be run for three consecutive issues, unless otherwise arranged.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation. This publication is available in alternative formats upon request. Recycled paper with 20% postconsumer waste.

ENGINEERING & TECHNICAL

Ulteig Engineers

Ulteig Engineers is seeking several experienced professionals for positions across the region. All positions include competitive salary and benefit package. Ulteig is proud to be an EEO/AA employer. For more detailed information regarding these positions and other career opportunities with Ulteig, please visit their Web site at www.ulteig.com. Resumes may be submitted to Ulteig Engineers, Attn: Raleigh Kern, 3350 38th Avenue S, Fargo, ND 58104 or Fax: 701-280-8701 or E-mail: careers@ulteig.com.

Civil Engineer – Land Development Department Manager (Minneapolis, MN office)

The Land Development position is a senior-level position that requires a strong interest and extensive experience in the design of commercial and residential developments. This position will have complete responsibility for design, certification, management, and client relations for major engineering projects. A bachelor's degree in civil engineering is required with a minimum of 10 years of progressive work experience. Professional registration required.

Civil Engineer – Municipal Project Manager (Minneapolis, MN office)

The Municipal Engineer is a senior-level position that requires a strong interest and extensive experience in the design of urban and rural roadway development for municipal and other local agencies. This position will have complete responsibility for design, certification, management, and client relations for major engineering projects. A bachelor's degree in civil engineering is required with a minimum of 15 years of progressive work experience. Professional registration required.

Civil Engineer – Environmental (Fargo, ND office)

The successful candidate will fill a mid-

level position with complete responsibility for planning and managing all aspects of municipal water and wastewater design projects. This position will be responsible for the supervision of the design and ongoing progress of a project with clients and governmental agencies. A bachelor's degree in civil engineering is required with an emphasis in environmental studies preferred, along with five or more years of relevant experience. Professional registration strongly preferred.

PLANNING

SRF Consulting Group, Inc.

Senior Environmental Planner

Project manager wanted to assist in a wide range of environmental analysis and planning projects. Requirements include a graduate degree or bachelor's degree with equivalent experience in planning, engineering, or a related field; five plus years experience in environmental or transportation planning; and a minimum one year project management experience. Must have excellent written/verbal communication skills along with the ability to understand and solve complex environmental and transportation problems. Public presentation experience required.

SRF Consulting Group, Inc. is a locally owned and well-established transportation engineering, planning, and design firm. In addition to varied and exciting work in a positive atmosphere, it offers competitive salary and benefits, 401k/profit sharing, and vacation and sick leave. Send your resume to SRF Consulting Group, Inc., One Carlson Parkway N., Ste. 150, Plymouth, MN 55447; fax to 763-475-2429; or e-mail to jobs@srfconsulting.com. EOE.

Ulteig Engineers

Transportation Planner – Senior Project Manager (Fargo, ND office)

The successful candidate must have a strong interest and extensive experience



in the planning of urban and rural transportation projects for municipal and other local or regional agencies. Some of the duties include completing planning studies and reports. These may include but are not limited to environmental documents, corridor studies, school, pedestrian and bicycle crossing studies, transportation system studies, right of way and access preservation studies, preliminary design studies, site impact studies, fringe area plans, etc. A bachelor's degree in civil engineering is preferable with five years of relevant experience.

All Ulteig positions include competitive salary and benefit package. Ulteig is proud to be an EEO/AA employer. For more detailed information regarding these positions and other career opportunities with Ulteig, please visit our Web site at www.ulteig.com. Resumes may be submitted to Ulteig Engineers, Attn: Raleigh Kern, 3350 38th Avenue S, Fargo, ND 58104 or Fax: 701-280-8701 or E-mail: careers@ulteig.com.

MISCELLANEOUS

USDOT's Volpe Center

Transportation-related positions

USDOT's Volpe Center has a variety of opportunities for individuals at both junior and mid-levels in a wide range of transportation project applications.

The following are some of the available positions: transportation economists and analysts, transportation and community planners, policy analysts, operations research analysts, travel survey researchers, traffic engineers, mechanical engineers, and organizational development and design specialists. The John A. Volpe Transportation Internship is also available.

The positions are located in the Office of System and Economic Assessment at the USDOT's Volpe Center in Cambridge, MA.

For more information on career opportunities at the Volpe Center visit www.volpe.dot.gov/career/index.html or contact Susan Jarrell, DTS-84, Office of Human Resources, RSPA/Volpe Center, Kendall Square, Cambridge, MA 02142, phone 617-494-2214; e-mail Jarrell@volpe.dot.gov.

INTERNSHIPS

National Science Foundation

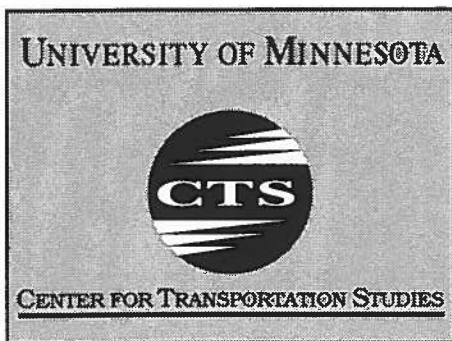
East Asia and Pacific Summer Institutes

American students are happy to find summer jobs to help pay for their schooling and possibly even prepare them for their professional lives, but what about a chance to become an internationally experienced researcher? The National Science Foundation's (NSF) 2005 East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI) provide graduate students in science and engineering with firsthand research experiences in Australia, China, Japan, Korea, or Taiwan, as well as an introduction to the culture and language of the region. The institutes last approximately eight weeks from June to August.

Proposals are now being accepted for the 2005 summer institutes. To apply, you must be a U.S. graduate student in one of the following areas: biological sciences; education and human resources; computer and information science and engineering; engineering; geosciences; mathematical and physical sciences; polar research; or social, behavioral, and economic sciences. See the program solicitation at <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf03608> for proposal guidelines and further requirements. The deadline for submitting proposals is December 10, 2004.

Each student selected will receive from NSF an international round-trip air ticket and a stipend of \$3,000. Sponsoring organizations in the East Asia and Pacific communities will support students' local living expenses. The 150 students in last year's program conducted research in fields such as cancer research, humanoid robotics, computational neuroscience, and nanofabrication. For a complete list of 2004 participants and research areas, see <http://www.nsf.gov/pubsys/ods/getpub.cfm?eapsi04>.

For more information about this program, visit <http://www.nsfokyo.org/spmenu.htm>.



Sixteenth Annual Transportation Research Conference

CALL FOR PRESENTATIONS

April 26–27, 2005

RiverCentre, St. Paul, Minnesota

The Center for Transportation Studies invites interested individuals and groups to submit abstracts for presentation at the Center's Sixteenth Annual Transportation Research Conference, to be held April 26–27, 2005, at RiverCentre in St. Paul, Minnesota.

CONFERENCE PURPOSE

The conference acts as a forum for researchers and practitioners from Minnesota and the Upper Midwest to share their research findings in a variety of transportation-related areas. The conference will cover all modes of transportation including highway, transit, rail, air, water, and others. Please submit an abstract if you have conducted research or developed new methods that address transportation challenges, or have been involved in an innovative practical application or community-oriented project. In addition, we would like you to share, where appropriate, how what you have learned could affect public policy or help develop solutions that can be implemented by transportation professionals.

CONFERENCE AUDIENCE

The conference audience consists of individuals from multiple disciplines and organizations involved in transportation, including policymakers and practitioners from state, regional, and local government; private sector consultants, shippers, carriers, and providers; and faculty, students, and staff from the University of Minnesota and other educational institutions.

PRESENTATIONS & POSTERS

Presentation topics you may include, but are not limited to, are listed on the back of this page. Please indicate on your submittal form which topic areas best match your presentation. Sales presentations on specific products or services will not be accepted. Presentations may be submitted as poster presentations only. Technology (e.g., software) demonstrations also will be considered for display.

Abstract Deadline: November 15, 2004

Potential presenters must submit abstracts by **November 15, 2004**, for consideration. CTS will notify submitters by mid-January 2005 whether or not their abstract has been accepted for presentation.

Format

The abstract for presentation should include title, objective of research or study, methodology or approach, findings or results, potential application(s), and policy implications. In addition, entire panel sessions may be submitted as one abstract.

The abstracts also should include the presenter's name, position, organization, mailing address, and telephone number(s). Individual presentations will be approximately 20 minutes in length; panel presentations may vary in length. Formal papers are welcome but not required.

Submitting an abstract:

New this year, all abstracts must be submitted electronically. Go to the CTS Web site at www.cts.umn.edu/events/rescon and follow the instructions.

For further information contact:

Heather Dorr
Phone: 612-625-5267
E-mail: hdorr@cce.umn.edu



PRESENTATION TOPICS

The topics listed here are not meant to be all-inclusive but are provided as suggestions for potential presentation topics related to the five conference tracks.

Transportation and the Economy

This track focuses on how transportation is related to the economy, including transportation finance and funding, logistics and freight movement, telecommunications, economic development, the regional and global economies and their impacts, community linkages, and interregional corridors.

Transportation Safety and Traffic Flow

Potential topics include intelligent transportation systems, traffic safety, traffic detection, traffic control, accident analysis, machine vision, traveler information systems, human factors, and injury prevention.

The Transportation Infrastructure

This track focuses primarily on pavement and bridge research-related topics including materials, pavement design and performance, bridge design and maintenance, infrastructure investment policy, deicing and corrosion, and water impacts.

Transportation Planning and Environment

Potential topics include land use; urban design and structure; alternative transportation modes including transit, bicycling, and walking; community transportation; alternative fuels; water and air quality; global warming; and plant biology.

Transportation Education and Outreach

This track focuses on best practices, lessons learned, and case studies in transportation education and outreach, including University degree and continuing education programs, workforce development and retention, public and community involvement, market research and public opinion, library and information trends, technology transfer, and communications strategies.