



## David Levinson wins national award



David Levinson

Assistant Professor **David Levinson** is the recipient of the 2004 New Faculty Award from the Council of University Transportation Centers (CUTC) and the American Road & Transportation Builders Association. The award is presented to an outstanding new faculty member in a field related to transportation who has not yet received tenure. He received the honor at CUTC's Eighth Annual Awards Banquet in Washington, D.C., last month.

A CTS Faculty Scholar, Levinson takes an interdisciplinary approach to transportation, with an appointment in both the Department of Civil Engineering and the Humphrey Institute of Public Affairs. His course offerings range from "Introduction to Transportation Engineering" to "Land Use, Transportation, and the Design of Human Settlements." He has supervised graduate students in both programs, including a recipient of a CUTC award in 2002.

Levinson's primary research activities focus on the economic analysis of transportation systems. His papers on road pricing were collected in *Financing Transportation Networks*, published by Edward Elgar Publishers in 2002,

and his book coauthored with William Garrison, *The Transportation Experience: Policy, Planning, and Deployment*, will be published by Oxford University Press. He has been a principal or co-principal investigator on 17 sponsored research projects at the University of Minnesota.

Levinson also helped establish the University's Interdisciplinary Transportation Student Organization and serves as its student advisor (see page 4), and played a key role in planning and organizing the "Access to Destinations" conference held last November.

Levinson received his Ph.D. from the University of California at Berkeley in 1998.

"David is very worthy of this award and I was pleased to nominate him," said CTS director **Robert Johns**, who presented the award. "I was excited to hear that the selection committee—in what I know is fierce competition—chose him as this year's award winner.

"David has been a key member of our transportation faculty since he joined us in 1999," Johns continued. "He has injected energy and a broad range of interests into our transportation research and education programs. He also doesn't hesitate to challenge the status quo."

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## Researchers frame issues for St. Croix River Crossing

The proposed St. Croix River Crossing has been a controversial issue on both sides of the river for the last two and a half decades. The issue has dominated transportation discussions in eastern Washington County, Minnesota, as well as in St. Croix, Polk, and other adjacent counties in Wisconsin. More recently, President Bush has issued a directive to "solve this vital river-crossing issue."

On December 13, more than 60 participants gathered in Washington County to meet and discuss the crossing. Representatives came from the federal government; the Minnesota Department of Transportation (Mn/DOT); the University of Minnesota; Washington and St. Croix Counties; the cities of Stillwater, Oak Park Heights, Hudson, New Richmond, and

Somerset; two environmental groups; visiting professors/practitioners from other states; and members of the private sector.

To set the stage, **Rick Arnebeck** of Mn/DOT and **Robert Johns** of CTS—joint sponsors of the event—introduced six speakers to better prepare the group for the discussions that followed. The group heard from Professors **John Adams** (Geography) and **Lance Neckar** (Landscape Architecture) along with **John Kari** (Metropolitan Council), **Dave Fodroczi** (St. Croix County), and **Steve Wilson** and **Ferrol Robinson**, both from SRF Consulting Group, Inc.

Following these presentations was a discussion with four leading thinkers from other states

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## Oberstar Forum set for April 18



James L. Oberstar

The fourth **James L. Oberstar** Forum on Transportation Policy and Technology will be held April 18 at the

Radisson Hotel Metrodome in Minneapolis. This year's topic will be related to the future of transportation finance.

The forum brochure will be mailed in March. For more information visit the Oberstar Forum Web page at [www.cts.umn.edu/oberstarforum](http://www.cts.umn.edu/oberstarforum).

## CTS Research Conference

Check your in-boxes this month for the preliminary program (with registration form) of the CTS Sixteenth Annual Transportation Research Conference. It will be held April 26–27 at the Saint Paul RiverCentre.

For further information about the conference, call **Katie Kjeseth**, 612-624-3708, [kkjeseth@ccc.umn.edu](mailto:kkjeseth@ccc.umn.edu). **CTS**

## Minnesotans active at annual TRB meeting

University of Minnesota researchers and staff presented papers and presided over sessions at the annual Transportation Research Board (TRB) meeting in Washington, D.C., last month.

### Presentations

Presentations are shown below; for a listing of poster presentations, please see the CTS Web site at [www.cts.umn.edu/news](http://www.cts.umn.edu/news).

- “Intelligent Transportation Systems and Other Technological Assistance Used in Minnesota Community-Based Transportation,” **Yufeng Guo**, American Planning Association; **Frank Douma**, Humphrey Institute
- “Methodology for Performance Optimization of Ramp Control Strategies through Microsimulation,” **Adinarayana Beegala**, Parsons Brinckerhoff Quade & Douglas; **John Hourdakos** and **Panos Michalopoulos**, Civil Engineering
- “Evaluation of Top-Down Cracks in Asphalt Pavements Using Self-Calibrating Ultrasonic Technique,” **Lev Khazanovich**, **Raul Velasquez**, and **Edouard Nesvijski**, Civil Engineering
- “Reliability Analysis of Cracking and Faulting Prediction in New Mechanistic-Empirical Pavement Design Procedure,” **Mike I. Darter**, ERES Consultants; **Lev Khazanovich**; **Tom Yu** and **Jag Mallela**, ERES Consultants
- “Value of Trail Access in Home Purchases,” **Paul Mogush**, **Kevin Krizek**, and **David Levinson**, Humphrey Institute



- “Information and Communications Technology as Substitute for Nonwork Travel: Direct Examination,” **Kevin Krizek** and **Yi Li**, Humphrey Institute; **Susan Handy**, University of California, Davis
- “Effect of Facility Access on Bicycling Behavior,” **Kevin Krizek** and **Pamela Jo Johnson**, Humphrey Institute
- “What Is at the End of the Road? Factors Affecting Discontinuities of On-Street Bicycle Lanes in Urban Settings,” **Kevin Krizek** and **Rio Roland**, Humphrey Institute
- “Deconvolution of Vehicle Inductance Signature for Vehicle Reidentification,” **Taek Mu Kwon** and **Anushri Parsekar**, University of Minnesota Duluth
- “High-Temperature Rheological Properties of Asphalt Binders,” **Mihai Marashteanu**, Civil Engineering
- “Investing for Reliability and Security in Transportation Networks,” **Lei Zhang** and **David Levinson**, Civil Engineering
- “Processing, Analyzing, and Archiving Travel Survey Data,” **David Levinson**; **Ewa Zofka**, SRF Consulting
- “Benefit-Cost Analysis of Spring Weight Restrictions in Lyon County, Minnesota,” **Ning Li**, Civil Engineering

- “Rational Locator Reexamined: Are Travel Times Still Stable?,” **David Levinson**; **Yao Wu**, Fehr & Peers Associates
- “Review of Crash Risk and Driving Performance for Drivers with Clinical Mental and Personality Disorders,” **Nic Ward**, HumanFIRST Program

### Other activities

- **Robert Johns**, CTS director, presided over a session titled “Where Is the Money? Long-Term Funding Options.” He also chaired the annual meeting of the Management and Leadership Section Executive Board.
- **Laurie McGinnis**, associate director, chaired the Conduct of Research Committee meeting.
- **Cheri Marti**, assistant director, chaired the Technology Transfer Committee meeting.
- **Arlene Mathison**, CTS librarian, presided over a session titled “Managing Publications and Data on the Web: Intellectual Property, Access, and Preservation.”
- **Max Donath**, director of the Center’s Intelligent Transportation Systems (ITS) Institute, co-presided over a session titled “Should Teenage Drivers Be Electronically Monitored?”
- **Lee Munnich**, director of the Humphrey Institute’s State and Local Policy Program, chaired the Road Pricing Outreach Subcommittee.
- **Kevin Krizek** moderated a session titled “Land Use Modeling: Methods and Data.” **CTS**

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who are recognized experts in their respective academic fields. At this panel discussion were **Randall Crane** (UCLA), **Jonathan Gifford** (George Mason University), **Gerrit Knaap** (University of Maryland), and **Michael Replogle** (Environmental Defense).

The participants were introduced to such concepts as “ecosprawl,” misplaced subsidies, pricing, poor planning, “transit hydrotopia,” political gridlock, and numerous others. Each carried with it a discussion of how this portion of the eastern Twin Cities metropolitan area could, should, and will develop—with or without the new river crossing at Stillwater/Oak Park Heights.

During a working lunch, participants met in two groups: one on regional land use, transportation, and growth-related issues, and the second on potential transit, travel demand management, and pricing.



Complicating the crossing debate are numerous jurisdictional and political considerations. These include two counties; multiple ownership of lands, shore lines, and public spaces; public policies of two separate states; a growing commutershed to the Twin Cities metropolitan area; and an emerging history of adversarial and conflicting positions.

The existing river crossing was constructed in 1931 and has significant maintenance and operational costs. As a lift bridge with a prominent place on the National Register of Historic Places, it has operated at capacity for 25 years.

Proceedings from the day will be collected, organized, and synthesized by SRF Consulting, and then used to chart a course of action to unweave the political gridlock and allow planning to proceed for the crossing area. **CTS**

## Braun Chair nearing fundraising goal

The total of gifts and pledges for the CTS **Richard P. Braun** Chair in Transportation Engineering has reached \$354,955. CTS is establishing this endowed faculty chair in collaboration with the University's Department of Civil Engineering (CE), in honor of the founding director of CTS. The chair will foster innovation in the academic program in transportation engineering.

"Transportation is a huge issue," said **Bob Roscoe**, CEO of SRF Consulting, and chair of the fundraising committee. "The University has traditionally supplied the talent to resolve some of these problems.

This greatly enhances their ability to do that."

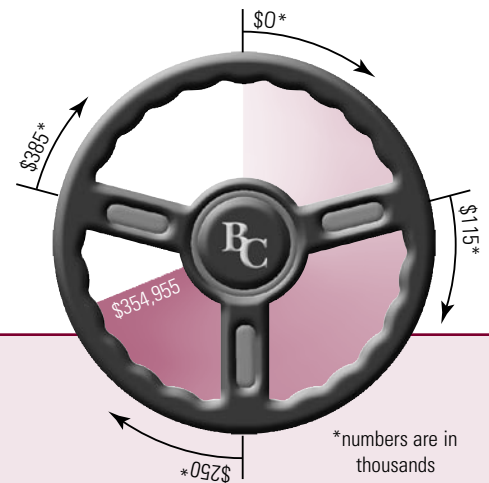
The University's Institute of Technology is seeking to raise \$500,000, an amount that will create the equivalent of a \$1.5 million permanent endowment fund to support the chair in perpetuity. This effort offers a unique matching opportunity that will triple the impact of each gift to the fund.

"It's an opportunity to give something to a new generation of transportation professionals," Roscoe added.

If you are interested in contributing

or need more information on this effort, please call **Jennifer Clarke** at the Institute of Technology Dean's Office at 612-626-9354 or e-mail [jclarke@it.umn.edu](mailto:jclarke@it.umn.edu).

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The University of Minnesota gratefully acknowledges the following individuals and organizations that have committed funds to help launch the Braun CTS Transportation Engineering Chair fund drive. (Recent additions are shown in maroon.)

**President's Club—\$25,000 and above**

**Richard & Faith Coleman**  
Robert A. Gravier  
C. S. McCrossan, Inc.  
Center for Transportation Studies  
Department of Civil Engineering  
URS Corp.

**Dean's Club—\$15,000 and above**

Edward Bather  
Braun Intertec Corporation  
Richard P. Braun  
HNTB Corp.  
**Progressive Contractors, Inc.**  
Short Elliot Hendrickson, Inc.  
SRF Consulting Group  
WSB & Associates, Inc.  
**Ziegler**

**Platinum Club—\$10,000 and above**

American Engineering  
Testing, Inc.

**Gold Club—\$5,000 and above**

**Benshoof and Associates**  
**CH2M Hill**  
**Cretex**  
League of Minnesota Cities  
Minnesota County Engineers  
Association  
Northern Con-AGG Inc.  
Perry C. Plank  
TKDA

**Silver Club—\$1,000 and above**

Robert J. Benke  
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John S. Gulliver  
**Hancock Concrete Products**  
Robert Johns  
**Lyle Signs**  
Laurie McGinnis  
& Howard Preston  
**Michael S. McGray**  
Minnesota Surveyors and  
Engineers Society  
NCITE  
NCITE/Topps 2002  
**Susan Rani**  
Robert Roscoe  
**Russell S. Susag**

**Bronze Club—\$500 and above**

Barr Engineering Company  
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Richard Murphy  
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**Robert R. Schroeder**  
**Construction, Inc.**

Chuck Siggerud  
**John E. Story**  
Dana Swindler  
Daniel E. Wegman  
Doug Weiszhaar  
Wenck Associates, Inc.

**Friends of the Chair—\$100 and above**

David Braslau  
Gary E. Brown  
Tom Chaffin  
Kevin & Sandy Cullen  
**Donald Demers**  
James N. Denn  
Curtis W. Johnson  
Cheri & Mike Marti  
Lawrence Molsather  
**Timothy Phenow**  
**System G Inc.**

## Civil Engineering departmental magazine features transportation research



The winter 2005 issue of the University of Minnesota *Civil Engineer* is now available. The 20-page, four-color magazine is produced twice a year by the Department of Civil Engineering, led by department head **John Gulliver**.

*Civil Engineer*, geared for CE alumni and friends, includes department news, research highlights, and updates on faculty, students, alumni, and donors.

The winter issue features a cover article on the University's new MAST (Multi-Axial Subassemblage Testing) Laboratory, which opened last fall. The \$11.6 million MAST Lab, housed in a building just east of campus, is part of a nationwide network of seismic

engineering facilities. Researchers from academia and industry will use the lab to test everything from bridge bearings to multi-story buildings.

Another article, "The Cost of Multi-Car Collisions," showcases research by Professor **Gary Davis** and research fellow **John Hourdakis**. Also covered in this issue are live load tests conducted last summer by Professor **Jerry Hajjar** and CE students on a heavily traveled freeway ramp south of Duluth.

Copies are free. To be added to the mailing list, e-mail **Trisha Collopy** at [editor@ce.umn.edu](mailto:editor@ce.umn.edu) or call the Department of Civil Engineering at 612-625-5522. **CTS**

## ITSO student conference to follow Career Expo

The Interdisciplinary Transportation Student Organization (ITSO) at the University of Minnesota is holding a networking and paper presentation conference for students March 2–3, 2005. The conference, on the Minneapolis campus, will feature original papers written by students from across the Upper Midwest.

ITSO's mission is to bridge the gap between students and professionals. It also serves as the student chapter of the Institute of Transportation Engineers, the Intelligent Transportation Society, and WTS Minnesota. Members include students in engineering, architecture, business, planning, and public policy.

ITSO's conference will immediately follow the CTS 10<sup>th</sup> Annual Transportation Career Expo. The tentative schedule is as follows:

### March 2:

4:00–8:00 p.m. CTS 10<sup>th</sup> Annual Transportation Career Expo  
8:00 to 9:30 p.m. ITSO Conference social hour

### March 3:

8:15–9:00 a.m. Registration and Continental Breakfast  
9:00 a.m.–12:15 p.m. Paper Presentations  
12:15–2:00 p.m. Awards Luncheon with Keynote Speaker  
2:30–4:00 p.m. Paper Presentations

The early registration (by February 24) fee is \$15 for students, \$25 non-students. At-door registration is \$20 for students, \$30 for non-students. Limited scholarships are available for student participants. To download the conference registration form and learn more about the conference, please visit the ITSO Web site at [www.tc.umn.edu/~itso](http://www.tc.umn.edu/~itso). For more information, contact ITSO president **Ingrid Norby**, [fost0191@umn.edu](mailto:fost0191@umn.edu). **CTS**

## CTS to hold Grad Certificate info session

Take a step toward continuing your education: attend a Graduate Certificate in Transportation Studies information session. Learn how going back to school for this certificate can:

- fit your schedule
- offer the courses and programs you need
- move you toward a graduate degree

The session will cover program description, course requirements, program administration, and more.

**When:** Wednesday, April 13

**Time:** 6:00–7:00 p.m.

**Location:** Humphrey Center–Room 215

**Parking and Directions:** [www.hhh.umn.edu/about/contact/parking.htm](http://www.hhh.umn.edu/about/contact/parking.htm)

Walk-ins welcome! To pre-register or for more information, visit [www.cce.umn.edu/transportationinfo](http://www.cce.umn.edu/transportationinfo) or contact **Stephanie Jackson** at 612-624-8398, [sjackson@cts.umn.edu](mailto:sjackson@cts.umn.edu).

CTS launched the certificate program in 2001 together with the University of Minnesota Graduate School to help transportation professionals expand skills and prepare for leadership opportunities, as well as to provide an additional credential for graduate students. **CTS**

## Career Handbook mailed

CTS has mailed the *Transportation Career Handbook* to guidance departments at all public and private junior and senior high schools in Minnesota. CTS published the handbook last year to help students connect their studies at the University of Minnesota to possible careers in transportation.

In addition to describing education opportunities in various University departments, the *Transportation Career Handbook* includes a fun “roadmap” that links basic academic interests to the types of transportation-related careers that are available today. Students can also view an interactive, Web-based version of this roadmap on the CTS Web site at [www.cts.umn.edu/careers/roadmap/](http://www.cts.umn.edu/careers/roadmap/).

Order a copy of the *Transportation Career Handbook* by calling 612-626-1077 or check the Web at [www.cts.umn.edu/publications](http://www.cts.umn.edu/publications). **CTS**

## Upcoming events

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

Feb. 22	Minnesota Surveyors & Engineers Society Annual Meeting/Luncheon, Sheraton Four Points, Minneapolis. Contact <b>Ann</b> of MSES, 651-457-2347, <a href="mailto:ann@mSES.org">ann@mSES.org</a> .	Apr. 13–15	Minnesota Airports Symposium, Mankato. Contact <b>John Puckropp</b> , 218-828-5049, <a href="mailto:genavcon@charter.net">genavcon@charter.net</a> .
Mar. 2	10th Annual Transportation Career Expo, Coffman Union, Minneapolis. Contact <b>Mindy Jones</b> , 612-625-1813, <a href="mailto:jones154@cts.umn.edu">jones154@cts.umn.edu</a> .	Apr. 17–21	National Association of County Engineers (NACE) Annual Conference, Bismarck, North Dakota. Contact NACE, 202-393-5041 or e-mail <a href="mailto:nace@naco.org">nace@naco.org</a> .
Mar. 2–3	ITSO Student Paper and Networking Conference, Coffman Union, Minneapolis. Contact <b>Ingrid Norby</b> , <a href="mailto:fost0191@umn.edu">fost0191@umn.edu</a> .	Apr. 18	Fourth Oberstar Forum on Transportation Technology, Minneapolis. Contact <b>Teresa Washington</b> , 612-624-3745, <a href="mailto:twashing@cce.umn.edu">twashing@cce.umn.edu</a> .
Mar. 9	ITS Minnesota Annual Meeting and Information Exchange, Minneapolis. Contact <b>Katie Kjeseth</b> , 612-624-3708, <a href="mailto:kkjeseth@cce.umn.edu">kkjeseth@cce.umn.edu</a> .	Apr. 20–21	Spring Maintenance Training Expo, St. Cloud. Contact <b>Teresa Washington</b> , 612-624-3745, <a href="mailto:twashing@cce.umn.edu">twashing@cce.umn.edu</a> .
Mar. 16–17	44th Annual Concrete Paving Workshop, Hilton Minneapolis/St. Paul Airport. Sponsor: Concrete Paving Association of Minnesota. Contact <b>Deb LaValle</b> , 763-561-0402, <a href="mailto:dlavalle@cpamn.com">dlavalle@cpamn.com</a> .	Apr. 26–27	16th Annual CTS Transportation Research Conference, RiverCentre, St. Paul. Contact <b>Katie Kjeseth</b> , 612-624-3708, <a href="mailto:kkjeseth@cce.umn.edu">kkjeseth@cce.umn.edu</a> . <b>CTS</b>