

JULY REPORT

A monthly report on transportation research, education, and outreach activities at the University of Minnesota

DATE AND LOCATION ANNOUNCED FOR CENTER'S FOURTH ANNUAL CONFERENCE

The Center's Fourth Annual Transportation Research Conference will be held May 19-20, 1993, at the Sheraton Park Place in Minneapolis. The decision to change locations was due in part to the concerns many of you noted in your evaluation forms following this year's conference in St. Paul. Several facilities in the Twin Cities area were compared, with the assistance of the CTS Council chairs and the Information/Outreach Council, before the Sheraton was chosen. Conference details will be announced in future issues of the *Report*. The spring meetings of the CTS Councils will be held in the afternoon of Tuesday, May 18, and the annual CTS Advisory Board meeting will be held that evening.

NEW ROTATION BEGINS FOR CTS ADVISORY COMMITTEES

New operating guidelines for Center committees will go into effect this summer that define roles and membership policies for the Executive Committee, Advisory Board, and CTS Councils. At this time, three members have chosen to step down from the Executive Committee--**Ettore Infante**, senior vice president of academic affairs at the University; **Dennis Cavanaugh**, former chair, Soo Line Railroad; and **Douglas Carlson**, former state senator. Also, 13 members of the Board are completing their terms: **Morris Benson**, commissioner, Lac Qui Parle County; **Gerry Brown**, vice president, Cargo Carriers; **Jan Del Calzo**, Metropolitan Airport Commission; **Steve Ditmeyer**, chief engineer, Burlington Northern; **Chris Doan**, vice president, Northwest Airlines; **Richard Hanson**, director of distribution, General Mills; **Jean King**, president, Communi-King; **Ted Kolderie**, senior associate, Center for Public Policy; **Steve Loeding**, commissioner, Dakota County; **Ken Murphy**, commissioner, Pennington County; **David Roe**, regent, University of Minnesota; **Sharon Sayles Belton**, president, Minneapolis City Council; and **Carl Wyczawski**, mayor, New Ulm. The Center deeply appreciates the participation and dedication of these individuals over the past few years. The Center will work with its Executive Committee to nominate new members.

HUMPHREY INSTITUTE HOSTS SECOND POLICY FORUM

On June 12 the Humphrey Institute's State and Local Policy Program, directed by senior fellow **Lee Munnich**, hosted the second of three consultations on Transportation and Economic Development, a program co-sponsored by CTS. The forum was moderated by Senator **Gary DeCramer** and featured a keynote luncheon speech by **Donn Osmon**, group vice president of Traffic and Personal Safety Products at 3M, as well as presentations by Professor **John Adams** of Geography and Public Affairs, on "The Once and Future Upper Midwest: Growth and Change, Centers and Corridors"; and Professor **David Forkenbrock**, director of the University of Iowa's Public Policy Center, on "Transportation Growth Strategies and Alternative Finance Models for Regional Economic Growth." Also included was a panel discussion titled "Toward Transportation and Economic Development Policy, Ten-Year Visions," featuring **Ed Cohoon**, deputy commissioner of Mn/DOT; **Lisa Peterson** of the Minnesota Trucking Association; **David Morris** of the Institute for Local Self Reliance; and **Mike Sobolewski** of Minnesota Guidestar. The final consultation will be held later this year.

CENTER RESEARCH PROJECTS ANNOUNCED FOR 1992-93

The Center's 1992-93 research program, developed by subcommittees of the four CTS Research Councils, has been approved by the Executive Committee. In addition to CTS-funded research, a number of other projects were chosen for funding by the Minnesota Department of Transportation, the Regional Transit Board, the Minnesota Prestressed Association, and the Local Road Research Board. A complete list of projects is enclosed.

TRANSIT IVHS COMMITTEE HOLDS PLANNING RETREAT

The Transit Innovations Committee, a Minnesota Guidestar working committee chaired by **Bob Works** of Mn/DOT, recently held a one-day meeting to develop plans for transit Intelligent Vehicle/Highway Systems (IVHS) applications. The retreat, hosted and facilitated by USWEST, involved representatives from Mn/DOT, the Metropolitan Council, the Regional Transit Board, the Metropolitan Transit Commission, USWEST, Castle Rock Consultants, and CTS. Several goals and project ideas were developed for rural as well as metropolitan transit applications, which the committee will refine in the future. The committee also heard that the project TRAVLINK, which will seek federal funds to demonstrate vehicle location technology and traveler information systems for transit services on I-394, is close to being defined. Strgar-Roscoe-Fausch consultants are developing detail design for this project.

COMMUTER SERVICE CENTER OPENS IN MINNEAPOLIS

The Commuter Connection, an innovative commuter information and service center, opened in Minneapolis on June 3. Located in the skyway system, the Connection encourages transit use by offering a wealth of information about buses and ridesharing. It is sponsored by the Downtown Minneapolis Transportation Management Organization (TMO) with support from the city of Minneapolis, Regional Transit Board, Metropolitan Council, Metropolitan Transit Commission, Minnesota Rideshare, Center for Urban and Regional Affairs (CURA), and CTS. The opening of the Commuter Connection meets a primary goal of the TMO--advocating the use of transit, car/vanpool, and other alternatives to single auto commuting--thereby maintaining safe, convenient access to downtown and accommodating the projected growth of 30,000 workers in the next two decades.

THREE UNIVERSITY IVHS POSITIONS ANNOUNCED

The Department of Civil and Mineral Engineering (CME) is seeking professionals for one to three research positions in transportation and traffic engineering. The three positions--research associate, post-doctoral associate, and research fellow--will participate in the federal IVHS Institute, which is administered by CTS. The positions will involve research in the areas of real-time traffic control, incident detection, signal/image processing, neural networks, and parallel processing. Successful candidates will work in the development of advanced traffic management systems (ATMS), and advanced traveler information systems (ATIS). The application deadline is January 1, 1993. For further information, contact Professor **Gary Davis**, CME Dept., 500 Pillsbury Dr. S.E., Minneapolis, Minn., 55455.

UNIVERSITY TRANSPORTATION CENTERS HOLD ANNUAL MEETING

Center Director **Dick Braun** attended the annual meeting of the Council of University Transportation Centers (CUTC) last month in Nashville, Tenn. The meeting featured a presentation by **Elaine Joost** of the USDOT Research and Special Projects Administration, who noted the greater emphasis on research in recent years. She remarked that in the past, politicians believed it was in their best interest to take credit for "zeroing out"

research and development, whereas today, politicians want to be recognized for their support of research. She encouraged further development of private/public partnerships in research and technology transfer. The meeting also featured a presentation by **Patricia Cass**, program manager for the Federal Transit Administration (FTA). Cass discussed the FTA's new Transit Cooperative Research Program, which will be carried out under the Transportation Research Board.

RESEARCH REPORTS AVAILABLE

Final reports are now available for five recently completed research projects. To obtain any of the reports, please call the Center at (612) 626-1077. The reports are:

- *Underground Station Design Issues for Light Rail Transit in the Twin Cities Geology.* Raymond Sterling and John Carmody, Underground Space Center, Civil and Mineral Engineering. (Sponsor: Regional Transit Board)
- *Rational Test Methods for Predicting Permanent Deformation in Asphalt Concrete Pavement.* Andrew Drescher, David Newcomb, and Jong Ryeol Kim, Civil and Mineral Engineering. (Sponsor: Mn/DOT)
- *A Review of Instrumentation Technology for the Minnesota Road Research Project.* David Newcomb and David Van Deusen, Civil and Mineral Engineering. (Sponsor: Mn/DOT)
- *Development of an Integrated Simulation Package for Freeway Design, Operations and Adaptive Traffic Management. Phase I: Enhancement of the KRONOS Simulation Program.* Panos Michalopoulos, Eil Kwon, Chi-Fung Lee, Gopalakrishnan Mahadevan, and JeongGyu Kang, Civil and Mineral Engineering. (Sponsor: CTS)
- *Modeling of Frost Heave in Soils.* Vaughn Voller and Radoslaw Michalowski, Underground Space Center, Civil and Mineral Engineering. (Sponsor: CTS)

In related news, a paper by Professor **Donald Harper** was recently published in the spring issue of the *Transportation Practitioners Journal* titled "Characteristics and Transportation Practices of Just-in-Time Manufacturers." The paper is based on a CTS-sponsored study titled "Just-in-Time and the Use of Transportation by Minnesota and Wisconsin Manufacturers" conducted in 1989-90.

FACULTY ACTIVITIES

Professor **Ted Galambos** of the Department of Civil and Mineral Engineering (CME) recently submitted a proposal titled "Horizontally Curved Girders" to the National Cooperative Highway Research Program (NCHRP). Other faculty involved in the proposal are Professors **Carol Kittredge** and **Henryk Stolarski**, also of CME. Professor **Jerry Fruin** of Agricultural and Applied Economics coauthored a paper to be presented at a conference in Beijing, China, Aug. 20-25, on prospects for Chinese agricultural development in the 1990s. The paper, titled "Methodology and Data Systems for the Study of Transportation," was coauthored by **Won Koo** of North Dakota State University. Professors **Bob Seavey** and **Bob Erickson** of Forest Products gave a technical forum presentation on June 24 at the Forest Products Research Society Annual Meeting in Charleston, S.C. The presentation was titled "The Effect of Coldness-Induced Shrinkage on the Prestress Levels of Experimental Timber Bridge Decks." Professor **Karl Smith** of CME and **Bob Johns** of CTS, who jointly taught the CE 5703 Project Management course this spring quarter, give thanks to **Del Gerdes** of Mn/DOT, who presented students with an overview of project management functions at Mn/DOT. **Matt Welbes**, research assistant to Professor **Barbara Kanninen** of the Humphrey Institute, will begin work in September as a program analyst with the Federal Transit Administration. Welbes previously coordinated the Minnesota Extension Service Bicycle Commuting Program, which was funded in part by CTS.

UPCOMING TRANSPORTATION EVENTS

If you wish to publicize an event, call **Pam Snopl** of the Center at (612) 624-0841, or fax your announcement to (612) 625-6381. For other Center information, please call (612) 626-1077.

- July 8-10 Institute of Transportation Engineers District IV Annual Conference, Chicago, Ill. For further details contact **Ferrol Robinson** at (612) 475-0010; to register call (708) 491-1000.
- July 19-22 Conference on Transportation Planning, Programming, and Finance, Westin Hotel, Seattle, Wash. Sponsored by the Transportation Research Board, Federal Highway Administration, Federal Transit Administration, and Washington DOT. Contact **Reggie Gillum** of TRB at (202) 334-2382; fax (202) 334-2003.
- Aug. 9-12 Institute of Transportation Engineers 62nd Annual Meeting, Washington, D.C., Hilton. For further details or registration information contact **Juan Morales** at (202) 554-8050.
- Sept. 14-18 Third International Symposium on Snow Removal and Ice Control Technology, Radisson Hotel South and Plaza Tower, Minneapolis. Conducted by the Transportation Research Board in cooperation with Mn/DOT, AASHTO, and others. Contact **Reggie Gillum** of TRB at (202) 334-2382; fax (202) 334-2003.
- Nov. 23-24 39th Annual Bituminous Conference, Northland Inn, Brooklyn Park. Conducted by the Minnesota Association of Asphalt Paving Technologists since its founding in 1987. Contact **Laura Studenski** at (612) 636-4666 or **Rich Wolters** at (612) 631-0156.