

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

## EXECUTIVE COMMITTEE RECOMMENDS FUTURE CENTER STAFFING AND BUDGET

At their fall meeting, the Center's Executive Committee, chaired by **Ray Lappegaard**, reviewed the Center's financial status and work program, in light of the long-range plan established last year. Because the initial start-up funds (oil overcharge) for the Center must be spent in the next two years, the Executive Committee is developing recommendations for the 1991 legislature that will provide the Center a recurring amount of base funding. This would allow the Center to carry out its programs and attract additional research funding from external organizations. The Executive Committee recommends that the base funding provide a slight increase in Center staffing, to enable the Center to provide more effective services in research coordination, education and extension, communications, and library and information support. The Executive Committee also selected additional Advisory Board candidates and decided that a formal rotation program will be developed to go into effect July of 1991.

## PROGRAM COUNCILS ARE ESTABLISHED FOR THE CENTER

The Center's Executive Committee reviewed and discussed the committee structure for guiding Center programs. The Executive Committee will continue to provide overall governance for the Center, meeting four times a year. The Advisory Board will have an annual meeting in conjunction with the Center's annual conference, and will provide long-term direction, advice, and support for Center programs. In addition, Advisory Board members may choose to serve on Program Councils. The councils are standing committees that will recommend specific directions for the Center. In addition to Advisory Board members, the councils will include University faculty and staff, transportation professionals, and representatives of interest groups, as selected by the council chairs. The six Program Councils and their chairs are listed below:

- Transportation and the Economy  
Chair: **Dennis Cavanaugh**, Executive Fellow, Carlson School of Management; former President and CEO, Soo Line
- Transportation Safety and Traffic Flow  
Chair: **Mike Robinson**, State Traffic Engineer, Mn/DOT
- Transportation Infrastructure  
Chair: **Doug Weiszhaar**, County Engineer, Stearns County
- Transportation and the Environment  
Chair: **Judy Hollander**, Director of Planning and Programs, Regional Transit Board
- Transportation Education  
Chair: **Jim Newland**, Consultant; former Mn/DOT executive
- Transportation Information and Outreach  
Chair: **Carol Bufton**, President, Minnesota Safety Council

The Program Councils will replace the project research panels that were established for the first set of Center research projects. The research panels are completing their work by participating in three symposiums that discuss the results of the research projects.

## CALL FOR PRESENTATIONS REMINDER

The Center issued a Call for Presentations last month inviting individuals to submit an abstract for a presentation at the Center's second annual research conference, to be held May 7-8, 1991, in St. Paul. If you have conducted research or developed new methods related to transportation, the Center requests that you

knowledge at the conference. The abstract submission deadline is **November 30**. If you would like information, please contact Lori Graven at (612) 625-9023.

## CHAIR ESTABLISHED FOR PAVEMENT RESEARCH

A chair was recently established to help strengthen the University's civil engineering program in the area of pavements, construction materials, and geotechnical engineering. The chair is being sponsored by the Minnesota civil engineering community, acting through the Minnesota Surveyors and Engineers Society under the direction of MSES President **Larry McNamara**. The permanently endowed chair is named after Professor Emeritus **Miles Kersten**, a long-time contributor to pavement and geotechnical practice in the United States. The "MSES Miles Kersten Land Grant Chair in Civil Engineering" provides the chair holder with the means, opportunity, and incentive to explore innovations in pavement and geotechnical engineering, including related environmental factors. The chair holder will also assist in the technical direction of Mn/ROAD, the joint research project of Mn/DOT and the University.

## IVHS AMERICA IS INCORPORATED; INTERNAL STRUCTURE IS BEING PLANNED

IVHS America, the newly formed organization replacing Mobility 2000, is now fully incorporated and has applied for nonprofit status. The purpose of IVHS America is to meld the activities of the public and private sectors in developing intelligent vehicle/highway systems in the United States. At an October meeting, an eight-member group including CTS Director **Dick Braun** began planning the structure of IVHS America below the committee level, and proposed a structure that includes a technical council and a series of technical advisory committees. The group hopes to crystallize its recommendations at its next meeting in November, and will then report findings to the full organization in January. The Federal Highway Administration's tentative budget is \$100 million per year for national IVHS research and development activities starting in 1992.

## HUMPHREY INSTITUTE HOSTS FORUM ON GLOBAL WARMING

The Humphrey Institute of Public Affairs hosted a full-day forum on "Global Warming and State of Minnesota Initiative." The forum brought together state elected officials, University faculty, and private sector representatives to discuss the potential impacts of global warming in four areas of Minnesota: urban emissions, water management, forestry, and agriculture. The participants reviewed the results of a series of consultations held earlier in the year throughout the state, and identified implications for policy aimed at minimizing the impacts of global warming. University faculty participants in the forum included **Edward Schuh** and **Dean Abrahamson** from the Humphrey Institute; **H.H. Cheng** and **Donald Baker** from the Center; **Margaret Davis**, Ecology; **Luther Gerlach**, Anthropology; and **Ted Graham-Tomasi**, Agricultural Economics. In addition, **Ray Lappegaard**, chair of the Center's Executive Committee and a member of the Governor's Commission on Global Warming, took part in a round-table discussion on "The Policy Response: Response from the Governor's Commission on Global Warming."

## OUTREACH ACTIVITIES

As part of the Center's outreach program, Director **Dick Braun** moderated a 90-minute session at the annual meeting of the Transportation Alliance, held last month in St. Paul. The session's purpose was to review recent federal legislation on surface transportation, and a proposal by Minnesota's Transportation Study Commission from the state's 1991 legislative session. Presentations were made by **Doug Weishaar**, Stearns County Engineer; **Darryl Durgin**, assistant commissioner of Mn/DOT; **Chuck Foslien**, Federal Highway Administration division director; and **Bob Zaun** of Robert Zauner Ltd. In another outreach effort, Braun presented at the University of Delaware on IVHS systems and their benefits. Braun was invited by **Kermit Johnson**, chief of the Delaware DOT and this year's president of the American Association of State Highway and Transportation Officials. In addition, **Bob Johns** of the Center made a presentation on continuing education at the Minnesota Public Transit Association Annual Meeting.

## CTS SEMINARS BEGIN; UPCOMING SEMINAR RESCHEDULED

The Center's Faculty Seminar Series and Transportation Careers Series began last month for the 1990-91 academic year. The Careers Series featured **Eugene Ofstead**, assistant commissioner of the Minnesota Department of Transportation, and **Terrence Stone**, executive director of the Region Nine Development Commission, who spoke to students about potential transportation-related careers in the public sector. The Faculty Series featured Professors **Roberto Leon** and **Catherine French** of Civil and Mineral Engineering, who discussed "Prestressed Bridge Girder Reusability"; Professor **Robert Einsweiler** of the Humphrey Institute, who spoke on "The Role of Transportation and Communication Linkages in Enabling Communities to Adapt to Economic and Social Change"; and **Marius Poliac** of Computer Science, who discussed "Simulation Software for Modeling Pavement Response at the Minnesota Road Research Project." Also, please note that the previously scheduled seminar by Professor **Yorgos Stephanedes** has been changed to November 26, and an additional transportation seminar is scheduled for November 16 by Professor **Hani Mahmassani** of the University of Texas.

## FACULTY ACTIVITIES

Professor **Yorgos Stephanedes** of Civil and Mineral Engineering was elected chair of the ASCE Committee on Advanced Technologies Applications in Urban Transportation. This committee is in charge of organizing the Second Advanced Technologies in Transportation International Conference, to be held in Minneapolis next August. Professor **Gary A. Davis** of Civil and Mineral Engineering made a presentation on "Stochastic User Equilibrium and Continuous Network Design," at the fall 1990 Operations Research Society of America/Institute of Management Science (ORSA/TIMS) joint conference last month. In September Professor **Bruno Franck** of Forest Products presented research results of a project on creep in timber bridges to a working session of the Commission II -- Steel and Wood Bridges. The working session took place at the International Association of Bridge and Structural Engineers convention in Brussels, Belgium.

## UPCOMING TRANSPORTATION EVENTS

If you have an event you would like publicized, please call the Center at (612) 626-1077.

- November 8 CTS Transportation Careers Series--transportation leaders speaking to U of M students on career opportunities. **Larry McCabe**, Vice President, Mesaba Airlines, 12:15-1:15 p.m., 205 Civil and Mineral Engineering, University of Minnesota, Minneapolis. Contact CTS at (612) 626-1077.
- November 8 Worldspan Seminar: "Bicycle Commuting in the Twin Cities," by **Matt Welbes** of the Minnesota Extension Service Bicycle Program, 12:15 p.m., St. Paul Student Center, University of Minnesota, St. Paul. Contact the Student Center at (612) 625-9794.
- November 13 Women's Transportation Seminar: "Alternative Fuels: Potential for Impact on Greenhouse Gas Emissions and Urban Air Quality," featuring **William Libro** of NSP and **Daniel Petrik** of Minnegasco, Sheraton Park Place Hotel, Minneapolis. Contact **Lisa Raduenz** at (612) 929-1561.
- November 14 Worldspan Seminar: "Unsustainable Transportation," by **Mark Hanson**, Professor of Planning, UW-Madison, 12:15 p.m., St. Paul Student Center, University of Minnesota, St. Paul. Contact the Student Center at (612) 625-9794.
- November 15 Center for Transportation Studies Fall Quarter Luncheon and Speech: **Marcia Lowe**, "Alternatives to Automobile Dependency." Radisson University Hotel, Minneapolis. Contact CTS at (612) 626-1077.
- November 15 Council of Logistics Management Twin Cities Roundtable, "Six Imperatives of Global Logistics," by **William C. Copacino**, Anderson Consulting, Holiday Inn International, Bloomington. Contact **Char Flynn** at (612) 733-7972.

- November 16 Civil and Mineral Engineering Seminar: "Traffic Modeling for Advanced Driver Information Systems," Professor **Hani Mahmassani**, University of Texas-Austin, 3:35 p.m., 210 Civil and Mineral Engineering, University of Minnesota, Minneapolis. Contact **Henryk Stolarski** at (612) 625-2501.
- November 17 North Central Section of the Institute of Transportation Engineers Annual Meeting, Old Log Theater, Excelsior. Contact **Bill Smith** of BRW Inc., at (612) 370-0700.
- November 19-20 Minnesota Association of Asphalt Paving Technologists Annual Bituminous Conference, Northland Inn, Brooklyn Park, Minnesota. Featuring an update on the Mn/ROAD project by **Nelrae Succio** of Mn/DOT. Contact **Beverly Winnie** of Braun Pavement Technologies at (612) 644-2996.
- November 26  
NEW DATE CTS Faculty Seminar: "Rural Transit Service Design," by Professor **Yorgos Stephanedes**, 3:30-4:40 p.m., 205 Civil and Mineral Engineering, University of Minnesota, Minneapolis. Open to the public. Contact CTS at (612) 626-1077.
- November 27 Transportation Club of Minneapolis-St. Paul all-day seminar: "New Innovations in Transportation," Registry Hotel, Bloomington, Minnesota. Contact **Scott Kavoukjian** at (612) 894-8080 or **Christy Glass** at (612) 937-7872.
- November 30 Civil and Mineral Engineering Seminar: "Fuzzy Set Theory - A New Approach to the Analysis of Complex Systems and Decision Processes," by **M. Stachowicz**, Mineral Resources Research Center, 3:35 p.m., 210 Civil and Mineral Engineering, University of Minnesota, Minneapolis. Contact **Henryk Stolarski** at (612) 625-2501.
- December 5 Minnesota Highway Users Federation Annual Meeting, Northland Inn Conference Center, Brooklyn Park, Minnesota, 9:00 a.m. to 1:30 p.m. Featuring **Lester Lamm**, president, Highway Users Federation. Contact **Carol Lovro** at (612) 290-0025.

**CENTER FOR**  
**TRANSPORTATION**  
**STUDIES**

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