

Rodney Slater: Putting people first

People may look at a budget and just see numbers—or they can see behind it, to see the people and faces of those who would be served and enhanced by it. “Putting People First” is the approach that **Rodney Slater**, secretary of transportation during the Clinton administration, has followed throughout his career, and it was the title of his presentation at the **Martin Olav Sabo** Lecture Series on February 3.

Begun in 2002 by the University’s Humphrey Institute of Public Affairs, the Martin Olav Sabo Lecture Series is a forum for distinguished individuals to address the challenges of public service for our states and nation. The series honors Congressman Martin Olav Sabo, who has had a distinguished career at the state and federal levels for more than three decades. In the welcome and introduction to the lecture, **Brian Atwood**, dean



Rodney Slater, Martin Sabo

of the Humphrey Institute, said Sabo’s “actions have helped the state considerably over the years.”

In his remarks, Sabo relayed that as secretary, Slater was the kind of person who gave straight answers and set the atmosphere for others in his agency to do the same. “He is one of the outstanding leaders in transportation in the country

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U researcher involved in congressional discussion of homeland security

Professor **Shashi Shekhar** of the Department of Computer Science and Engineering was invited to present his recent work on evacuation planning at a congressional breakfast on homeland security February 5 in Washington, D.C. Shekhar’s work was selected in a nationwide competition organized by the University Consortium on Geographic Information Systems (UCGIS).

The congressional breakfast was sponsored by Senator **Charles Schumer** and Rep. **Christopher Shays** and was attended by a number of congresspersons and their staff. Six Minnesota legislators were represented: Sen. **Mark Dayton**, Rep. **Martin Olav Sabo**, Rep. **James L. Oberstar**, Rep. **Gil Gutknecht**, Rep. **John Kline**, and Rep. **Collin Peterson**.

The audience also included representation from a number of federal agencies, including the National Geospatial Intelligence Agency, the National Security Agency, the U.S. Geo-



Shashi Shekhar

logical Survey, the Department of Homeland Security, the National Science Foundation, and the USDOT.

Participants were briefed on the geographic dimension of terrorism and provided a report from a recent workshop sponsored by the National Academy of Sciences. Half a dozen

researchers including Shekhar presented their work in developing new GIS technologies to address specific homeland security issues related to evacuation planning, border security, protection of critical infrastructure, epidemic control, and more.

Shekhar provided an overview of evacuation planning, which identifies paths and schedules to move at-risk populations out of the city to safe areas in the event of terrorist attacks, catastrophes, or natural disasters. Its goal is to identify near-optimal evacuation routes and schedules to minimize evacuation time despite limited transportation network capacity and the possibly large at-risk population.

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Humphrey Institute holding commissioners’ forum

On March 29, the University’s Humphrey Institute of Public Affairs is holding a forum of former commissioners of the Minnesota Department of Transportation (Mn/DOT). In “The Road Ahead: Challenges and Opportunities for Transportation,” the former chiefs will discuss key transportation issues in Minnesota—how we are doing and where we are going.

The panelists will be:

- **Richard P. Braun**, Quie administration
- **Len Levine**, Perpich administration
- **Elwyn Tinklenberg**, Ventura administration

Former Congressman **Tim Penny**, who is now the senior fellow and co-director of the Humphrey Institute Policy Forum, is the host for this event, which is one in a series of policy forum briefings sponsored by his unit. **Lee Munnich**, senior fellow and director of the Humphrey Institute’s State and Local Policy Program, is the event moderator.

The commissioners’ forum will be held from 9:00 to 10:30 a.m., March 29, in Room 200 of the State Office Building.

For information, please contact **Liz Marquez** at 612-625-8330 or visit www.hhh.umn.edu/centers/policy-forum. **CTS**

Changes to blood-alcohol content, other laws could cut state traffic deaths

The U.S. motor-vehicle fatality rate steadily declined from the 1970s through the mid-1990s, but has stalled ever since. In contrast, other countries have continued to reduce fatalities at a far greater rate than we have. What accounts for this widening gap?

That was the question **Allan F. Williams**, chief scientist at the Insurance Institute for Highway Safety (IIHS), answered in his presentation at the CTS Winter Luncheon, titled "A National Perspective on Current Highway Safety Issues."

Robert Johns, CTS director, welcomed the luncheon audience and then turned the podium to **Max Donath**, director of the Intelligent Transportation Systems (ITS) Institute at CTS, who introduced Williams. The ITS Institute sponsored the luncheon.

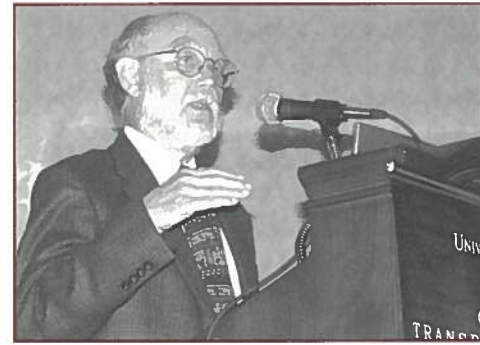
Williams said the "big three" factors involved in the deaths of U.S. passenger-vehicle drivers from 2000–2002 were: not buckling up, 52 percent; blood alcohol content (BAC) more than 0.08 percent, 35 percent; and speeding, 31 percent (the totals exceed 100 percent because of some overlap). Minnesota numbers are similar.

Although seat belt policy varies among states, a majority now have secondary laws in which a driver can be ticketed if pulled over for a primary offense, and more than 20 states define nonuse as a primary offense. Belt use clearly rises in those states that have primary laws, Williams said, with usage as high as 90–95 percent.

International seat belt use is often higher than ours due in part to the institution of highly publicized enforcement efforts such as Canada's "Click It or Ticket" program. These marketing programs have expanded to a majority of states, including Minnesota, and are in large part behind the increased U.S. usage. Higher fines—\$100 or more in other countries—also raise the usage rate. "This shows what you can do with a proper mix of enforcement and the

right kind of law," he said.

While multiple DUI (driving under the influence) offenders draw much attention these days, the "biggest bang" would come from catching first offenders through general deterrence—and setting the BAC at 0.08 does affect general deterrence, Williams said. (Minnesota is one of the remaining states that do not follow the 0.08



Allan F. Williams

BAC level.) What's more, research shows that "the critical element" is high-visibility enforcement. Alcohol-related crashes fell roughly 20 percent in states that instituted random breath test checkpoints or sobriety checkpoints, which Minnesota law does not permit.

Police checks also vary dramatically by country. For example, 70 percent of American drivers report that they have never been checked by police, versus 35 percent of Canadians and just 18 percent of Australians. This is an area where we're lacking, Williams believes. "The public is quite tolerant of enforcement," he said, with 42 percent of Americans indicating that police are not enforcing alcohol laws enough.

The third factor—high speed—is "the forgotten safety issue," Williams said. Crash impacts at very high speeds can exceed structural limits of passenger vehicles and the ability of safety devices such as seat belts to protect occupants. "A lot of high speed crashes are simply unsur-

vivable," he said. Speed cameras used for enforcement in other states and countries have shown significant benefits—such as a 25 percent drop in speed-related collisions in British Columbia—but the cameras remain controversial in all countries due to privacy and fairness concerns.

Williams then discussed other factors affecting U.S. safety statistics:

Younger drivers. In the past 10 years many states added night and passenger restrictions to licenses for younger drivers, cutting crash rates by 25 percent or more. This is an area where the U.S. leads the rest of the world, Williams noted. (Minnesota has no night or passenger restrictions.)

Older drivers. Two general approaches can improve safety for older drivers. The first is to improve occupant restraints, such as belt force limiters and four-point belts, to address older driver fragility. The second involves licensing restrictions and screening methods. However, screening methods have not been perfected—too many false positives and negatives appear—and need further evaluation. "Nobody in the world has come close to solving this challenge," Williams said.

Urban crashes. Cameras reduce red-light violations 40–50 percent, right-angle crashes 32 percent, and right-angle injury crashes 68 percent. What's more, IIHS research found that about 75 percent of drivers in cities with and without camera enforcement favor using cameras. (Minnesota law does not permit them.)

Motorcycles. Due to more motorcycling, especially by older drivers, the number of motorcyclists killed has risen worldwide. Part of the increase is also due to states weakening helmet laws. "Every other country has universal helmet laws," Williams said.

For more about the IIHS and its work, visit www.highwaysafety.org. CTS

sponsored earlier foundational work on efficient storage and management of transportation network map databases. Collaborators include **QingSong Lu**, **Sangho Kim**, Professor **Eil Kwon** (Minnesota State University), and **Mike Sobolewsky** (Mn/DOT).

Shekhar, a CTS Faculty Scholar, has worked with CTS and the ITS Institute for many years, and his previous work has positioned the University to address security concerns.

Further details on the congressional breakfast are available at www.ucgis.org/winter2004/program.htm. CTS

Braun Chair halfway to fundraising goal

Fundraising has reached the halfway point for the CTS **Richard P. Braun** Chair in Transportation Engineering, named in honor of the founding director of CTS. CTS is establishing this endowed faculty chair in collaboration with the University's Department of Civil Engineering (CE). The chair is a leadership position that will build on the legacy begun by Professor **Matthew Huber** and will foster innovation in the academic program in transportation engineering.

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. CTS will match dollar-for-dollar all private and industry contributions using royalties from Autoscope™, an invention in traffic detection technology developed by Professor **Panos Michalopoulos** and sponsored in part by CTS and Mn/DOT. CE will match contributions through a permanent commitment of annual department funds to support the position.

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. CTS

New multimedia tools presented at pavement conference

While it may never make it to your local arcade, a new video tool lets you "drive" a pavement roller and get a feel for asphalt construction operations. **Joe Mahoney**, civil engineering professor at the University of Washington, presented this and other multimedia pavement tools at the Eighth Annual Minnesota Pavement Conference, February 19 in St. Paul.

In the opening plenary session, Mahoney described a variety of computer-based tools that could be used for pavement management systems, asphalt quality assurance, self-directed learning, and more. Xpactor, Mahoney's computer-animated video game, lets users set weather conditions, mat thickness, and the number of passes over the hot-mix asphalt. The video is a useful tool for training and for understanding

conditions and difficulties in the field, he said. A beta version is available at www.transnow.org.

The plenary began with the presentation of the annual **Gerald R. Rohrbach** Pavement Conference Award. Last year's recipient, **Erland Lukanen**, the director of the University's Pavement Research Institute, announced that this year's award winner is **Art Bolland**. Bolland, Mn/DOT District 8 materials engineer and a 38-year department veteran, was unable to attend due to illness.

The nearly 200 audience members then heard concurrent session presentations on topics such as pavement preservation, GPS for construction, and foundation improvement techniques. **Mihai Marasteanu**



Erland Lukanen, Mihai Marasteanu, Lev Khazanovich

of the Department of Civil Engineering (CE) presented "Thermal Cracking in Asphalt Pavements: Theory," and **David Levinson**, also of CE, shared the "Benefits and Cost of Spring Load Restrictions."

Other University participants were session moderators **Jim Grothaus** (CTS/Minnesota LTAP) and **Lev Khazanovich** (CE). Grothaus and Khazanovich also joined Marasteanu

and **Gene Skok** (retired, CE) and **Lori Graven** and **Teresa Washington** (College of Continuing Education) on the conference planning committee.

CTS hosted the event, which was sponsored by Mn/DOT, Minnesota LTAP, and a number of other organizations, and facilitated by the University's College of Continuing Education. CTS

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:

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Finding the optimal solution is computationally exorbitant due to the extremely large size of the transportation networks and the limited capacities, Shekhar says. His research proposes novel geo-spatial algorithms to determine competent evacuation plans. Evaluation of his team's methods for evacuation planning for a disaster at the Monticello nuclear power plant near the Twin Cities indicated that the new methods lowered evacuation time relative to existing plans by providing higher capacities near the destination and by choosing shorter routes.

CTS, Mn/DOT, and the Federal Highway Administration are sponsoring a part of this project. The National Science Foundation



CAREERS IN TRANSPORTATION

Transportation Jobs and Internships

March 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.

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ENGINEERING & TECHNICAL

Bonestroo, Rosene, Anderlik & Associates

Bridge Design Engineer

Centrally located engineering and architecture firm is looking for a licensed Engineer to join our Structural group. Candidates must have 3-8 years of bridge experience. The responsibilities for the position will include the following:

- Analyze and design bridges with reinforced concrete, precast concrete, and structural steel
- Analyze and design non-bridge structures with reinforced concrete, precast concrete, structural steel, masonry, and timber
- Perform geometric layout of bridges
- Coordinate design of bridge or structure with other disciplines
- Coordinate and prepare bidding documents
- Coordinate construction observation and administration of bridges

Experience with curved girder design, RR bridge design, Microstation, GeoPak, and a Master's degree is preferred, but not required.

We offer a competitive salary and a comprehensive benefit package, including medical and dental insurance, as well as employee stock ownership and profit sharing plans. Send your resume and cover letter to careers@bonestroo.com or fax to 651-636-1311. EOE.

Senior Transportation Designer

We are looking for a senior designer to join our Transportation Group. Qualified candidate will have a minimum of 10 years of experience in preliminary and final roadway design, five years of CAD drafting experience (AutoCAD or Microstation) and transportation project experience (Mn/DOT, county, or city). Candidate must be able to work with minimal supervision. Responsibilities include:

- Preliminary and final design of

transportation project using AutoCAD or Microstation

- Teaming with transportation project managers to provide quality and timely end products
- Project documentation preparation

Construction experience is preferred, but not required. We offer a competitive salary and a comprehensive benefit package, including medical and dental insurance, and employee stock ownership and profit sharing plans. Please send your cover letter (with salary requirements) and resume to: Bonestroo, Rosene, Anderlik & Associates, Inc. Attention: Human Resources, 2335 West Highway 36, St. Paul, MN 55113; Fax 651-636-1311; or E-mail careers@bonestroo.com. AA/EOE

Transportation Design Engineer/ Project Manager

Our Transportation Group is seeking an experienced project manager. Qualified candidates will have a Bachelor of Science degree in Civil Engineering, Minnesota registration, and a minimum of 5 years total experience, including:

- Five years of experience in transportation engineering, including design and project development
- Experience working on transportation projects (Mn/DOT, county, or city)

Candidate will manage small- and large-scale projects from project documentation, environmental studies, preliminary design, and final design. We offer a competitive salary and a comprehensive benefit package, including medical and dental insurance, and employee stock ownership and profit sharing plans. Please send your cover letter (with salary requirements) and resume to: Bonestroo, Rosene, Anderlik & Associates, Inc. Attention: Human Resources, 2335 West Highway 36, St. Paul, MN 55113; Fax 651-636-1311; or E-mail careers@bonestroo.com. AA/EOE.

Transportation Modeler

We are looking for an experience transportation modeler to join our St. Paul team. Candidates must have:



- Bachelor of Science in Civil Engineering
 - At least five years of experience in transportation modeling and/or traffic engineering and analysis
 - Experience with corridor modeling and transportation operations analysis
- Selected candidate will be responsible for:

- Traffic engineering and transportation modeling on existing projects and future projects with Mn/DOT, counties, and cities
- Assisting with transportation planning activities, studies, and preliminary design work

Experience with transportation modeling on a Mn/DOT IRC corridor is desired, but not required. We offer a competitive salary and a comprehensive benefit package, including medical and dental insurance, and employee stock ownership and profit sharing plans. Please send your cover letter (with salary requirements) and resume to: Bonestroo, Rosene, Anderlik & Associates, Inc. Attention: Human Resources, 2335 West Highway 36, St. Paul, MN 55113; Fax 651-636-1311; or E-mail careers@bonestroo.com. AA/EOE.

SRF Consulting Group, Inc.

Civil Engineer- Intelligent Transportation Systems

Civil Engineer wanted for Intelligent Transportation Systems (ITS) design and deployment. Duties include designing systems, working with CAD technicians on plan sheet creation, specification writing, field surveys, construction inspection, system integration and working with contractors to implement variable message signs, cameras, and communication equipment. Position requires a B.S. in Civil Engineering with 1-3 years engineering experience and excellent written/verbal communication skills. Must be proficient in Word and Excel. Knowledge of Microstation, C++, JAVA, and ITS Turbo Architecture a plus.

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, we offer 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.

Travel Demand Modeler

Experienced travel demand modeler wanted to develop travel forecasts and impact analysis for land development, transit and roadway and traffic impact projects. Requirements include a degree in civil engineering geography, or planning with related course work; 3-5 years of relevant experience with travel demand forecast modeling software such as TRANPLAN, TP-PLUS, TRANSCAD, or other travel demand forecasting software; and proficiency with Excel, Access, and/or other database manipulation software. Project management experience and familiarity with ARC GIS 8.x or other GIS software desired. Strong communication skills and ability to work both independently and as a team member a must.

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, we offer 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.

TKDA Engineers • Architects • Planners

Civil Engineers/Technicians

TKDA Engineers • Architects • Planners is seeking FT Civil Engineers and Technicians. We are looking for individuals with a background that includes paving, drainage, grading, transportation, utilities, and/or construction administration. Visit us at www.tkda.com for details.

Please submit resume and cover letter to TKDA, Attn: HR, 444 Cedar St. #1500, St. Paul, MN 55101-2140; Fax: 651-292-0083; or e-mail careers@tkda.com. Must be authorized to work in U.S. AA/EOE.

City of Woodbury

Traffic Counter (Seasonal)

The City of Woodbury is seeking Traffic Counter to perform the following duties: Utilize personal computer and program traffic counters, install and remove traffic counters from streets, download traf-

fic count data via personal computer, develop traffic count report for each site, develop traffic count database/summary for all traffic counts, and perform other engineering and administrative work as assigned. The rate is \$10.50/hour.

To apply, contact David R. Jessup at: 8301 Valley Creek Road, Woodbury, MN 55125; Phone: 651-714-3593; Fax: 651-714-3501; E-mail: djessup@ci.woodbury.mn.us.

City of Cottage Grove

City Civil Engineer

An exciting new opportunity to join the management team at the City of Cottage Grove, one of the Twin Cities leading suburbs. Hiring range: \$50,000-\$70,000, DOQ. Application deadline is March 26th, 4:30 PM. Call 651-458-2833 for details. Equal Opportunity Employer.

City of Bloomington

Traffic Calming Coordinator

The City of Bloomington is seeking applicants to provide manual and semi-technical field and office work under supervision. Work includes a variety of tasks including data collection, citizen contact, public meetings, and drafting plans. Qualifications include:

- A minimum of one year of a two-year civil engineering technical school certificate; the completion of one academic year of a four-year civil engineering, transportation planning or similar degree; or five years of related work experience including traffic and transportation, civil engineering plan preparation, and/or law enforcement
- Possession of a valid driver's license
- The ability to develop and maintain effective working relationships with a wide variety of employees, city officials, the general public, and other government agency personnel
- The ability to: communicate effectively orally and in writing; conduct a public meeting (speaking or facilitating); read, understand, and follow written and oral instructions; do some lifting, bending, climbing, reaching, and effectively use tools and equipment; perform job responsibilities in climatic extremes; do computations required for drafting; use computer equipment; and work evenings

The pay scale is \$25-\$30/hour, D.O.Q. for an average of 20 hours per week.



To apply, call Human Resources at 952-563-8710 or visit www.ci.bloomington.mn.us.

MISCELLANEOUS

Cargo Carriers, Inc.

Inland Waterways Dispatcher

Cargo Carriers, Inc. (CCI), a division of Cargill Marine and Terminal, Inc., is seeking a dispatcher to coordinate barge freight movement along the inland waterways to meet customer needs and contract obligations within CCI's productivity goals. Candidates would work closely with other dispatchers, CCI sales department, barge superintendent, and claims manager to maximize utilization of CCI equipment. Other responsibilities include proactively identifying customer and cost-cutting solutions as well as gathering and analyzing pertinent industry data to identify trends.

Applicants must be self-motivated; possess an eagerness to take initiative; have excellent verbal and non-verbal communication skills; have excellent organizational skills; have excellent organizational and multi-tasking skills; be proficient with Microsoft Office Suite, be able to work well as a team member; demonstrate creativity and innovation; and be willing to work on call nights weekends, and holidays. Bachelor's degree or a minimum of 2 years equivalent experience required. Strong analytical/problem solving/decision-making skills desired.

To apply for this position, go to www.cargill.com.

- Click on Careers
- Click on Career Opportunities—Experienced Opportunities
- Select Supply Chain Management under job category
- Select Inland Waterways Dispatcher—WAY00131
- Submit resume for position

For more information, contact hiring manager at terri_1_ahonen@cargill.com.

SRF Consulting Group, Inc.

Abstractor/Right of Way Agent

Abstractor/Right of Way Agent wanted for abstracting duties, title analysis, document preparation, and negotiation activities for Right of Way acquisitions.

Abstractor's license required. Real Estate license and right of way acquisition experience a plus. Excellent written/verbal communication skills a must.

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, we offer 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.

US/DOT's Volpe Center

Transportation-related positions

US/DOT'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 US/DOT'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

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Braun Intertec Corporation has Civil Engineering and Construction Materials Internships available. Opportunities for learning include:

- Major construction project experience: University campuses; DOT

projects, offices, retail and industrial developments, etc.

- Firsthand knowledge of how buildings are constructed
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- Learn procedures as outlined by ASTM, AASHTO, and DOT
- Travel opportunities available with some positions

Applicants must be college students working toward civil engineering or construction management degree. Will train qualified applicants; relevant experience preferred. Full-time employment for 6 months starting in May/June. \$11-\$14/hour, overtime likely. For best opportunities, apply early. Qualified candidates send resume to Braun Intertec Corp., 11001 Hampshire Avenue S., Mpls., MN 55438. Fax: 952-995-2020. E-mail: Awittnebel@braunintertec.com.

Ramsey County Public Works

Summer Internships

We are seeking qualified individuals for summer employment within our department in the office and field. Term of employment is 3 to 6 months. Wage is \$12.37/hour. The basic duties of these positions are performing office or field duties related to engineering surveys; providing assistance to engineers, technicians, and other staff; performing routine public health and safety regulatory inspections; and performing related duties as assigned.

There are two types of assignments available:

- The public works assignment assists with surveying terrain, recording and drawing field observations, inspecting county property, making engineering computations, etc.
- The public health/environmental health assignment assists with inspecting public and private facilities and buildings, issuing orders of noncompliance, carrying out investigations of public health programs, collecting environmental health samples, etc.

Work is performed in an office and outdoors. The incumbents are subject to outdoor hazards such as working in swampy or rough terrain as well as indoor hazards such as heat, noise, dust and/or disagree-



able odors. Activities include length periods of standing, walking, bending, kneeling, crouching, etc. when performing inspection functions. Fine coordination of fingers and hands is required to perform drafting, surveying, or computer entry duties. Driving is done between project locations.

Knowledge of public health laws and housing/building codes is required. Candidates must have the ability to: use drafting tools, interact and communicate with the general public, organize and complete work requirements by deadlines, obtain information in person and over the phone in a clear and courteous manner, prepare and process appropriate forms and reports in a timely manner, do mathematical and trigonometric computations, operate a computer, read English, and lift 50 pounds. The minimum education requirement is high school graduation and enrollment in or completion of a post-secondary program related to the department to which assigned. Must have a valid driver's license. A background in biology or chemical sciences is preferred.

For more information or to apply, contact the Ramsey County Public Works Department by mail at 3377 North Rice Street, Shoreview, MN 55126; by phone at 612-484-9104; by fax at 651-482-5232; or by e-mail at public@co.ramsey.mn.us.

Anoka County

Student Position

Summer student position is available May 1 for 3-6 months. Position responsibilities will include assisting Project Inspector on construction projects, assisting Construction Surveyor on construction projects and preliminary surveys, collecting and recording documentation for materials supplied to construction projects, assisting Design Engineer with AutoCAD and spreadsheet design tasks, and performing various duties as assigned. Students must be enrolled in a civil tech program or civil engineering degree program. Candidates must be available to work overtime and on Saturdays if needed. The pay scale will be \$10-\$11.50.

To apply, contact Andrew Witter at 1440 Bunker Lake Blvd., Andover, MN 55304; by phone at 763-862-4249; or by e-mail at Andrew.Witter@co.anoka.mn.us

City of Hibbing

Civil Engineering Internship

The City of Hibbing is seeking a qualified candidate to fill an internship position.

Position responsibilities include assisting with basic surveying and construction staking, interpreting construction plans and specifications for project inspections, drafting using AutoCAD and ArcView (GIS), and entering data, etc. Qualifications include knowledge of construction plans and surveying, computer-aided drafting skills with AutoCAD. Experience with ArcView is desirable. The pay scale is \$9.50/hour.

Qualified candidates may contact John Suihkonen, City Engineer: 401 East 21st St., Hibbing, MN 55746; Phone: 218-262-3486; Fax: 218-262-6561; E-mail jsuihkonen@ci.hibbing.mn.us.

Swift County Highway Dept.

Engineering Internship

The Swift County Highway Department is seeking an engineering student to fill an internship position.

Position responsibilities include documenting contractor performance, performing materials testing, creating engineering reports, using AutoCAD, and performing hydraulic design checks. Candidates must have a high school diploma and be pursuing an engineering degree. The pay scale is \$8-\$10/hour.

To apply, contact John Johnson: 1000 15th St. SW, Benson, MN 56215; Phone: 320-842-5251; Fax: 320-843-3543; E-mail: john.johnson@co.swift.mn.us.

City of Woodbury

Engineering Intern

The City of Woodbury is seeking a civil engineering student to fill an internship position. Position responsibilities:

- Assist in establishing and maintaining a records management system for the Engineering Division
- Assist in developing an engineering data and information base
- Assist in the general administrative duties of the Engineering Division, including project monitoring and budget preparation
- Investigate and prepare responses to citizen requests and inquiries
- Perform field review and investigations for studies and projects
- Assist in the preparation of capital improvement and equipment plans

and specifications

- Perform construction inspection for capital improvements
- Perform other engineering and administrative work as assigned

Candidates must be a junior or senior civil engineering student, have the ability to communicate orally and in writing, have drafting abilities, have the ability to read and interpret construction plans, have experience using personal computers, and have a valid driver's license. The pay scale is \$12/hour.

To apply, contact David R. Jessup at: 8301 Valley Creek Road, Woodbury, MN 55125; Phone: 651-714-3593; Fax: 651-714-3501; E-mail: djessup@ci.woodbury.mn.us.

City of Columbia Heights

Civil Engineering Internship

The intern will assist Engineering Department staff with preliminary and construction surveying, staking, and construction inspection. As time allows, the intern will build the database for a utility management program (Cityworks), which will involve working with AutoCAD and ArcView.

The intern must have completed a minimum of one year post high school course work and be interested in Civil Engineering or a related field. Completion of engineering or surveying courses and computer experience desired. The pay scale is \$10-\$12 based on education, training, and experience.

To apply, contact Kathy Young by mail at 637 38th Avenue NE, Columbia Heights, MN 55421; by phone at 763-706-3704; by fax at 763-706-3701; or by e-mail at kathy.young@ci.columbiaheights.mn.us

RFC Engineering, Inc.

Student Engineer

RFC Engineering is seeking an enthusiastic, willing to learn candidate to fill a student engineer position. Position responsibilities include site design and layout, roadway design, construction management, contract administration, feasibility studies, quantity calculation, and construction inspection and surveying. Pay scale is negotiable. Contact Tom Collins by mail at 13635 Johnson St., Ham Lake, MN 55304; by phone at 763-862-8000; by fax at 763-862-8042; or by e-mail at TCollins@RFCEngineering.com

Need to control your wildlife? Learn how at Spring Maintenance Training Expo

Learn all about
spring and summer
roadway
maintenance



issues, including the latest practices and technology in Minnesota maintenance operations, at the 2004 Minnesota Spring Maintenance Training Expo. It will be held April 27–28 at the St. Cloud Civic Center. Session highlights include:

- Wildlife control tips
- Advanced driving skills for maintenance workers
- Pesticide application principles
- Chain saw safety
- Truck weight compliance
- Erosion control
- Trucking regulations

The expo is sponsored by the Minnesota Local Technical Assistance Program (LTAP) at CTS, in cooperation with the Minnesota Local Road Research Board (LRRB), Mn/DOT, the Minnesota Street Superintendents Association, and the Minnesota Public Works Association

The expo brochure was mailed in February. For further information, contact Teresa Washington, 612-624-3745, twashing@cce.umn.edu or visit www.mnltap.umn.edu/expo. CTS

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and a great human being,” he said.

Slater was born in 1955 in Tallahatchie County, Mississippi, where just a few months later a 14-year-old named **Emmett Till** would be murdered, one of the early sparks in the civil rights movement. In that environment Slater’s family made the decision to move to Arkansas, where they began the process of “nurturing a life that would eventually fill your seat or mine,” Slater said. His family inspired him to develop his mind and dared him to dream. They also encouraged hard work—the same values of hard work that are taught in the Delta and all along the Mississippi, regardless of whether your parents came from Africa, Europe, or South America, Slater said.

In 1968, he looked across the Mississippi to Memphis and saw the life of a dreamer—**Martin Luther King**—cut short. At 13, he wondered: Can I still hold on to my own dreams and aspirations? Can I still see myself moving from this place? He did want to move, he said, because there “was just this call to me.” This call—the

call to embark upon our journeys—is something we all receive sometimes, he believes.

After law school and work in the Arkansas Attorney General’s office, Slater was appointed in 1987 by then-governor **Bill Clinton** to the Arkansas Highway and Transportation Commission, making Slater the youngest commissioner at the time. Following Clinton’s directives to change the focus and perspective of the commission, Slater hit the road, introduced himself to people, and tried to “put people first—to realize that the power I had been afforded was a hammer, a chisel, a scalpel, and sometimes, a kind and persuasive word.” He worked to open doors, to lift dreams, to put a human face on transportation, and “to make the case beginning then and onward that transportation is about more than concrete, asphalt, and steel.” Because at its core, he stressed, it is about people—and giving them an opportunity to pursue happiness, go to a good job, or send their children to a good school. “It is a force that has led to the peopling of this world and this nation in particular,” he added—people coming from every corner of the globe, and making their way to places like Minnesota.

He used those early experiences at the federal level, first as Federal Highway administrator and then as DOT secretary, where he was willing to lead by following as well as to lead by leading. His philosophy was that there was no position within the department more important than any other, and that staff would make their work a joy, not a job. “At the end of day, we were going to be thankful for the moments we had to work together, to build dreams for others, others who sit on porches in Marianna, Arkansas, or who travel along the Hiawatha Corridor [in Minneapolis]—others who would want to realize their dreams,” he concluded.

Closing remarks were given by **Lee Munnich**, director of the Humphrey Institute’s State and Local Policy Program. 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.

- Mar. 17 ITS Minnesota Annual Meeting and Exchange Forum, Four Points Sheraton Minneapolis Hotel. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu.
- Mar. 18–19 Concrete Paving Association of Minnesota (CPAM) 43rd Annual Seminar and Workshop, Kahler Hotel, Rochester. Contact **Lisa Hill**, 763-561-0402, lnhill@cpamn.com.
- Mar. 23–24 Northland “How To” Training and Education Workshop, Fargo, N.D. Sponsor: Northland Chapter of American Traffic Safety Services Association. Visit www.atssa.com.
- Mar. 29 Humphrey Institute Commissioners’ Forum, 9:00–10:30 a.m., Room 200 State Office Building, St. Paul. Visit www.hhh.umn.edu/centers/policy-forum.
- Apr. 14 U of M Institute of Technology’s Science and Technology Banquet, Minneapolis Hilton, 5:30–8:00 p.m. Featuring **Charles McQueary**, Undersecretary of Science and Technology, Department of Homeland Security. Call 612-626-1802 or e-mail banquet@it.umn.edu.
- Apr. 24–28 American Planning Association’s 2004 National Planning Conference, Washington, D.C. Visit www.planning.org.
- Apr. 27–28 Minnesota Spring Maintenance Training Expo, St. Cloud Civic Center. Contact **Mindy Jones**, 612-625-1813, jones154@cts.umn.edu.
- May 4–5 CTS Fifteenth Annual Transportation Research Conference, Saint Paul RiverCentre. Contact **Heather Dorr**, 612-625-5267, hdorr@cce.umn.edu. CTS