

World in Motion

Volume 10, No. 1

Brian Macleod is Senior Vice President of the Gillig Corporation, a major U.S. bus manufacturer located near San Francisco. Mr. Macleod is from Australia, where he had worked in manufacturing, finance and engineering for Holden, General Motors' passenger car division. He moved to GM's Truck & Coach Division in Michigan almost 30 years ago, where he was on the design team for the RTS transit bus. He later left GM to join Rockwell International's Automotive Group, with responsibility for sales to large truck manufacturers such as Kenworth and Peterbilt. Seventeen years ago he joined Gillig as their Vice President of Sales and renewed his activities in the bus industry.

Mr. Macleod is a Mechanical Engineer (RMIT, Australia) and an alumnus of the General Motors Institute (Michigan) with a background in automotive design and manufacturing. He is a long-time member of SAE and APTA. Mr. Macleod chaired APTA's Business Member Board of Governors for two years and served four years on APTA's Executive Committee and Board of Directors. He currently serves on the California Transit Association's Executive Committee and has participated on many others, including the FTA-sponsored Procurement Steering Committee, the BRT Characteristics Working Group, and the Intelligent Vehicle Initiative's Stakeholders Steering Committee. He now chairs APTA's Expo Committee and is a member of the TRB Transit Research Analysis Committee.

Mr. Macleod helped Gillig grow from a small regional company with less than 8% market share into an industry leader with close to 25% market share and a reputation of stability and customer



Profile of
Brian Macleod
Mineta Transportation Institute
Board of Trustee Member and
Senior Vice President
Gillig Corporation

satisfaction. He was instrumental in Gillig producing the world's first parallel hybrid electric buses and North America's first production-built fuel cell buses. Mr. Macleod holds the patent for GM's original wheelchair lift design in the RTS bus and received APTA's Outstanding Business Member Contribution Award in 1998.

The U.S. transit bus industry has been failure prone in the last couple of decades. GM, Flxible, Volvo, MAN, Scania, and NovaBUS have failed or quit. Gillig has not only survived but prospered (largest in North America – APTA 2003), a testimony to strong leadership.

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Surface Transportation
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Created by Congress in 1991

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Research Update

by Trixie Johnson, Research Director



The MTI research program follows a regular pattern, beginning with needs assessment and culminating with the completion of research reports. Project selection occurs near the middle of the process, some ten months after needs assessment and three to four months prior to the start of new research projects. On May 14 the Research Associates Policy Oversight Committee (our academic advisory group) met with representatives of Caltrans and the Federal Highway Administration to discuss the proposals submitted in response to our January request for proposals (RFP).

If all goes well with the appropriation of federal funding – and that depends on the fate and timing of the new authorization bill – these projects would be starting next fall. If funding is delayed, MTI will ask the Principal Investigators and their teams to consider remaining available until the money is secure. The projects were assigned a priority rating, in the event that funding is insufficient to cover all ten projects.

As always, a lively discussion and candid comments yielded a list of projects worthy of further consideration and funding. Between now and the release of contracts, I will be working with the PIs to address the issues raised during the selection discussion. MTI congratulates the Principal Investigators on the selection of their projects in a very rigorous competition.

Topic	Principal Investigator
Caltrans Statewide Cultural Property Information System	Eric Ingbar
Barriers to Using Fixed-Route Transit for Older Adults	Dr. Michael Peck
The Elderly and Public Transit: Minimizing Barriers and Maximizing Service	Dr. Susan Shaheen
Note: The projects listed above responded to a special section of the RFP with topics selected by Caltrans to meet their high priority research needs. The two projects addressing barriers to transit use by older adults approached the topic from different aspects and with different products in mind; the committee saw benefit to having both projects proceed.	
Paving the Way: Recruiting Students into the Transportation Profession	Dr. Asha Weinstein
High-Speed Rail Projects in the United States: Identifying the Elements for Success – Part 2	Dr. Allison L.C. de Cerreño
Neighborhood Crime and Travel Behavior	Christopher Ferrell
Collaborative Funding to Facilitate Airport Ground Access	Dr. Geoffrey D. Gosling
From Welfare to Work: A Simulation of Land Use and Transportation Policies	Robert Johnston
Beyond Uncertainty: Urban Models in Transportation and Air Quality Planning	Dr. Caroline Rodier
How Far, by Which Route, and Why? A Spatial Analysis of Pedestrian Preference	Dr. Marc Schlossberg

Many of the proposals included applications for new Research Associates. All applicants met the requirements for certification. Congratulations to: Dr. Tom Goldman, Eric Ingbar, Dr. Robert Paaswell, Dr. Michael Peck, Dr. Susan Shaheen, and Dr. Ruth Steiner.

Information Transfer

by Trixie Johnson, Research Director



TransWeb

by Barney Murray

This year I will be reporting some of the additional parameters I use to measure the performance of *TransWeb*. I use these not only for measurements, but to assist in determining the direction *TransWeb* should go in the future and where to allocate resources. Publications are a major deliverable for MTI. I have reported the number of downloads historically, and have now started to include the number of user document requests for our internal reporting.

I am pleased to announce that *TransWeb* had a record-breaking month in March 2004. All 3 of our tracking data points were exceeded.

Number of hits = 157,919

Number of total visitors = 24,126

Number of unique visitors = 11,070

Over the coming year, I have plans for additional functions and features, so visit often and feel free to send your comments, questions, and suggestions – <http://transweb.sjsu.edu>.

Publications

by Sonya Cardenas

We are proud to announce the Mineta Transportation Institute's latest research publication, *Toward Sustainable Transportation Indicators* by Principal Investigator Richard Lee.

According to the author, "there have been only very few and scattered attempts to develop comprehensive sustainability indicators for transportation systems. This research addresses that gap. In addition to an extensive review of the literature, a two-stage survey of transportation professionals and several case studies (three in California plus one of Switzerland) are used to assess the current status of STIs. The key conclusion is that while there is substantial interest in sustainable transportation indicators (STI), and much relevant data is being collected, more time and more collaboration between transportation agencies and citizen groups are needed before STIs will be embedded in the decision-making process of local transportation agencies."

Secretary Mineta Honored with Prestigious Award

According to the press release from the Council for Excellence in Government, "the Elliot L. Richardson Prize for Excellence in Public Service was established in early 2000 to recognize extraordinary, sustained accomplishment and integrity in government service and to encourage achievement by future public leaders at the level Richardson demonstrated in service to his country. 'Justice O'Connor and Secretary Mineta were chosen for this award because they embody the qualities that distinguished Elliot Richardson's many years of service to the public – absolute integrity and courageous, imaginative leadership with lasting impact,' said J.T. Smith II, co-chair of the prize's board of directors. "The idea of this award is to recognize outstanding public leaders who will join not only in calling--but also in inspiring--talented young people to public service,' added Joseph Kasputys, also a board co-chair."

Previous honorees include Secretary of State Colin Powell, former Secretary of State George P. Schultz, and former OMB Director Alice M. Rivlin.

The board and staff of MTI congratulate Secretary Mineta on this well-deserved recognition.

Education Program

by Dr. Peter J. Haas, Education Director



MSTM Students Win National Awards

Two MSTM students have snagged prestigious national transportation awards. Andrea Glerum was awarded the Eno Foundation Fellowship, which consists of a trip to Washington to participate in a week of high-level briefings with Congressional and other transportation experts on various matters of transportation policy. Andrea is currently Project Manager and Civil Engineering Unit Manager for Carter and Burgess, Inc. in Oakland.

Rodolpho "Rudy" Lemus, (pictured), Construction Inspector with the Santa Clara Valley Transportation Authority, was recently selected as a winner of the 2004 George Krambles Transit Foundation National Scholarship Award. The Krambles awards are given for the purpose of encouraging students to develop professional capability for future careers in the transit industry. The award focuses aid that will go to students with a genuine interest in careers in transit or closely related areas; it includes a cash prize of \$2,500. Congratulations to Andrea and Rudy!

MSTM Grad Creates TCRP Project

Jeff Spencer (MSTM 2002), currently an Associate Transportation Planner with the Division of Research and Innovation at Caltrans, has successfully submitted a \$250,000 research proposal for funding by the Transportation Cooperative Research Program (TCRP). Titled "Ensuring Full Potential Ridership from Transit-Oriented Development," the project will seek to learn how transit agencies can maximize ridership by determining the motivation and behavior of transit-oriented development residents and their mode choice and by creating tools through the homeowner or community associations to encourage transit ridership. The results of this research may be used by transit agencies to attract new riders. Funded by the Federal Transit Administration, the TCRP is a key instrument for carrying out applied research concerning transit issues, with the results directed into the hands of organizations and individuals that can use them to solve problems. Further details about the project may be obtained at <http://www4.trb.org/trb/crp.nsf/All+Projects/TCRP+H-27A>.



MSTM Student Receives Certification

Richard Erikson was certified as a Project Manager by Parsons Brinckerhoff. He was earlier honored as the MSTM Student of the Year. Congratulations, Richard!

Education Program

by Dr. Peter J. Haas, Education Director

MSTM Fellowship Awardees Announced

The following MSTM students were awarded \$1,000 fellowships in support of the pursuit of their degrees. The fellowships, which are funded by private donations to MTI, help to make the MSTM degree more affordable to students who maintain continuous and satisfactory enrollment in the program. Congratulations to all awardees and thanks to our donating individuals and organizations!

Jacob Armstrong, California DOT, San Diego, CA
Kathleen Bergeron, Federal Highway Administration, Washington, D.C.
O'Donna Blackstock, California DOT, Oakland, CA
David Bloom, California DOT, Bishop, CA
Melanie Choy, Metropolitan Transportation Commission, Oakland, CA
Nicholas Deal, California DOT, Marysville, CA
Richard Erickson, Parsons Brinckerhoff, Inc., San Jose, CA
Andrea Glerum, Carter & Burgess, Inc., Oakland, CA
Edujie Imoisili, California DOT, Fresno, CA
Gregory Kausch, Beaver County Transit Authority, Pittsburgh, PA
Faiz Khan, Altrans TMA, Inc., San Jose, CA
Rodolpho Lemus, Valley Transportation Authority, San Jose, CA
Michael Lewis, California DOT, Redding, CA
Maureen Murphy, California DOT, Oakland, CA
Amos Rendler, City of San José, CA
Lee Rennacker, California DOT, Los Angeles, CA
John Robertson, California DOT, Fresno, CA
Joseph Rye, San Luis Obispo, CA
William Sutherland, California DOT, Redding, CA
Melina Takahashi, Valley Transportation Authority, San Jose, CA
Florante Tanada, Valley Transportation Authority, San Jose, CA
Koko Widyatmoko, California DOT, Oakland, CA
John Wishing, California DOT, San Diego, CA

MTI to Celebrate Record Number of Graduates

Seventeen Master of Science in Transportation Management students will receive their degrees during MTI's 13th Annual Scholarship Awards Banquet at San José State University on June 26th.

Featured speakers include Hon. James Oberstar, Ranking Member of the House Transportation and Infrastructure Committee; Hon. Zoe Lofgren, Ranking Member of the Cybersecurity, Science, Research and Development Subcommittee of the House Committee on Homeland Security; and Caltans' Acting Director Tony Harris. As always, Secretary Mineta has been invited and will attend if his schedule allows.

The reception begins at 5:30 p.m., followed by dinner at 6:45 p.m. Individual tickets are \$225.

For ticket information, please call 408-924-7560.

Planes, Trains, and Automobiles – 2004 Garrett Morgan Symposia

MTI's fourth Garrett Morgan National Youth Videoconference Symposium was held March 23rd. Each year members of the MTI Board of Trustees sponsor classes for a sustainable transportation course. The sponsoring agency contacts the school or teacher, arranges delivery of the student and teacher workbooks, and provides the videoconference facility.

To prepare for the symposium, the students followed a curriculum -- developed by MTI with assistance from San José State University's College of Education -- designed to increase their awareness of transportation issues, interest them in careers in transportation, and motivate them to take the math and science classes in high school needed to prepare for management and engineering majors in college. The course culminated in a class/team project to design sustainable transportation vehicles, the best of which were presented during the videoconference.

This year's participants were:

<i>School</i>	<i>Location</i>	<i>Sponsor</i>
Leonardtown High School	Leonardtown, Maryland	AASHTO
Argyle Middle School	Silver Spring, Maryland	APTA
Meadows Elementary School	San Jose, California	MTI



Leonardtown High School's commercial airliner would be driven by wind, fuel cells, and solar power.

A compelling case was made for a CO₂ powered Maglev train by this Leonardtown High squad.



Special...



Team SkyWeb Express from Meadows Elementary School



Secretary Mineta and AASHTO Executive Director John Horsley

MTI Executive Director Rod Diridon welcomed the participants and introduced U.S. Transportation Secretary Norman Y. Mineta, who kicked off the symposium with a brief address from the AASHTO site.

The students' well-researched presentations followed and featured magnetic-levitation (Maglev) trains, a commercial airplane powered by wind, fuel cells and solar energy, SkyWeb Express trains, and a solar- and helium-powered car. MTI Research Director Trixie Johnson, emcee of the videoconference, then led a spirited question-and-answer session.

Based on the enthusiasm with which all the students embraced their assignment, the future of transportation looks bright indeed. Though it was a tough decision, the MTI staff judged Argyle Middle School's Maglev train presentation the winner of this year's competition.

MTI greatly appreciates the support of this year's sponsors: Executive Director John Horsley and Tate Jackson, III of AASHTO, and Vice President Pam Boswell and Lillie Harmon of APTA.

Special thanks to Southwest Airlines for providing tickets to fly the four-member Argyle Middle School team and teacher Kimberly McLurkin-Harris to San Jose for MTI's June banquet.



This all-girl group from Meadows Elementary School advocated for a helium- and solar-powered car.



The winning team from Argyle Middle School mugs for the camera.

Directions

by Rod Diridon, Sr., Executive Director

ANNUAL SCHOLARSHIP BANQUET AND GRADUATION: Over 30 donors, with more each day, have committed nearly \$75,000 to sponsor scholarships for the Mineta Transportation Institute's (MTI) California State University Master of Science in Transportation Management and professional Certificate in Transportation Management students. Just short of 100 students from throughout the nation are attending evening classes via videoconference. Of that number, 17 outstanding young transportation leaders have completed the course work and capstone project and will be hooded by **MTI Education Director and Fulbright Fellow Dr. Peter Haas** during the banquet. Keynote speakers include **House Transportation and Infrastructure Committee Ranking Member Jim Oberstar, House Homeland Security Committee Sub Committee on Cybersecurity Ranking Minority Member Zoe Lofgren and Caltrans Acting Director Tony Harris**. The event begins with a reception at 5:30 and dinner at 6:45 p.m. on Saturday, June 26, in the Barrett Ballroom of the San José State University Student Union. Please contact me regarding the tax-deductible scholarship donations and other attendance arrangements.

REAUTHORIZATION: The first thought on the minds of the members of the national transportation community relates to when and in what form the **TEA-21 reauthorization bill** will finally be passed. MTI has been especially involved through leadership responsibilities with the **Council of University Transportation Centers, the University Transportation Centers Directors' Association and the Transportation Research, Education and Training Reauthorization Coalition**. MTI provides the chair or an executive committee member for each. The recent appointment of the Senate conferees is a hopeful sign, especially with the selection of California's **Senator Barbara Boxer**, a long-time friend.

CALIFORNIA'S LEADERSHIP TRANSITION: MTI has fared well with the appointment of good friend **Sunne Wright McPeak** as **Secretary of Business, Transportation and Housing** and the retention of strong supporter **Tony Harris** as acting director of Caltrans. Director Harris has been especially helpful by communicating his support of the MTI programs to Caltrans management. **Caltrans Chief of Research and Innovation Larry Orcutt** has also sought MTI's advice as he accomplishes a difficult consolidation and reorganization of the massive Caltrans research and implementation programs.

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The World in Motion

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