



UT-UTC UPDATE

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The Newsletter of The University of Toledo University Transportation Center

Director's Message	Page 1
Student-of-the-Year	Page 2
Great Lakes Workshop	Page 2
International Cargo Meeting	Page 3
Global Network of Scholars	Page 4
UT-UTC Staff	Page 4

sectors who responded to every call for support and assistance that really made the UT-UTC a reality. These are people who rarely if ever missed a meeting and always backed their promises 100%.

As a result of these efforts, the University of Toledo was designated as a UTC and was funded at \$2,000,000 over the next four years. UT is partnering with Bowling Green State University and Wayne State University in its efforts to address transportation related alternate energy development, improve infrastructure utilization, and enhance supply chain performance. A strong transportation system with reliable and cost competitive energy sources is essential to our competitiveness in global markets.

This award provides UT with several things.

- A seal of approval that acknowledges the expertise of our university.
- Recognition of the importance of our region to national and international transportation, logistics, and supply chains.
- The credibility to gain support for research and program development from other U.S. DOT programs.
- Access to resources that will allow the ITI to grow and develop in the areas of alternative energy for transportation, infrastructure utilization, and supply chain management with emphasis on improving intermodal connectivity and efficiency.
- The generation of new research projects and educational programs in these focus areas.

For the community, this means that UT becomes a more effective partner in economic development as it initiates new research and educational activities.

Director's Message – A Debt of Gratitude for Years of Work



It has been a long road to this first issue of the UT-UTC UPDATE, the newsletter of the University Transportation Center at The University of Toledo. The approval of the strategic plan for the operation of the Center last November was the culmination of work that started four years earlier.

Now we are preparing to review and fund the projects that will define the Center's commitment to economic development and the education of the next generation of transportation professionals. Along the way there have been many to whom we owe a huge debt of gratitude, but it is the willingness of leaders in the public and private

Transportation for Economic Security and Development: Alternate Energy, Infrastructure Utilization, and Supply Chains



UT-UTC UPDATE

Student-of-the-Year Celebrates at Awards Banquet in Washington

Guy Schafer, a graduate student in the department of Geography and Planning was named the Student-of-the-Year by the newly formed University of Toledo University Transportation Center and was recognized at the annual awards dinner of the Council of University Transportation Centers in Washington, DC on January 20th. The award is given to a student who has demonstrated technical merit and accomplishments in research, superior academic performance and displayed professionalism and leadership in transportation related work.

Joining him at the awards dinner were Guy's wife, Sarah, along with the UT-UTC assistant director, Christine Lonsway. A special moment for Guy was being congratulated on stage with a handshake from former Secretary of Transportation Mineta along with CUTC dignitaries.



Guy Schaefer was born in Toledo, Ohio and remained in the area graduating from a suburban high school. He received a BA in Visual Communications from the University of Toledo in 1999. From 1998 to 2005, he worked in the transportation and logistics industry including employment at National Logistics Management where his duties included coordinating shipments and routing for Ford, General Motors and Daimler-Chrysler. In 2005, he returned to the University as a graduate assistant working toward a Masters in Transportation Planning/GIS in the Department of Geography and Planning. His research has included work on the Upper Midwest Freight

Corridor Study, work with the Great Lakes Maritime Research Institute and a study commissioned by a local port authority of air freight in the mid-west including imports and exports from Europe, Asia and South America. Guy was selected as Student-of-the-Year for the University of Toledo UTC because of the integral role he played in the successful completion of the Corridor Study and the combination of industry perspective and academic rigor he brings to his research.

Guy intends to seek employment in the Toledo area where his wife has an accounting business. It will be an asset to this community to keep this talented young professional serving this area. Congratulations Guy!

Great Lakes Workshop: from Data to Markets to Shipping Opportunities

An all day workshop entitled "Great Lakes: from Data to Markets to Shipping Opportunities" was held at the University of Toledo on November 7, 2006. This event was sponsored by the University's Intermodal Transportation Institute and University Transportation Center (ITI/UT-UTC); the Geographic Information Science and Applied Geography Research Center (GISAG) of the Geography and Planning Department; The Great Lakes Maritime Research Institute (GLMRI), a consortium of the University of Wisconsin-Superior Transportation & Logistics Research Center and the University of Minnesota Duluth College of Science & Engineering and Labovitz School of Business and Economics; The Toledo-Lucas County Port Authority, and the International Cargo Handling and Coordination Association International Ltd.

The purpose of the workshop was to examine ways to use the Great Lakes as an important transportation link. The states and Canadian provinces surrounding the Great Lakes face a growing demand for transportation. Many vital highway and rail corridors are congested and are projected to get much worse; demand for freight movement will expand substantially by 2020 (50% or more); and there is a lack of funds and support to increase highway capacity. The Great Lakes offers a low cost, low congestion, low emission alternative to truck and rail movements.

The proposed project focuses on economic development of the Great Lake's marine transportation system. It examines technology alternatives for moving

UT-UTC UPDATE

container and trailer freight on the Great Lakes in ways that are coordinated and compatible with other modes of transportation. Understanding the shipping technology that is currently available globally is an important initial step in selecting vessels to provide shipping services that meet customers' needs (technical requirements and economic feasibility). If existing vessels are not appropriate, then their designs can be modified or new vessels can be created. This project is complementary with current efforts to understand the movement of freight in the Great Lakes region across all modes of transportation. Identifying market opportunities for shifting freight movements onto the waterways and developing vessels that are well suited to the task should increase regional transportation efficiency.

The workshop attempted to evaluate the market opportunities for short sea shipping by commodity type. What commodities are currently moving by highway and rail that could move via ship at lower costs? What new opportunities are possible? How can we more fully participate in international trade? The workshop identified the need to develop a plan and methodology for analyzing the origin to destination of freight flows in the Great Lakes region for the purposes of establishing scheduled shipping in order to compete for time sensitive cargo. This would apply to bulk cargo, containers, and trailers on ships. The effort must evaluate the economic viability of establishing transshipment facilities for expanding international trade including the possibilities of containers, and it must review and summarize the new technologies for vessel design and propulsion systems that could improve the operating cost and delivery time for cargo on the Great Lakes. Finally this effort must work with existing agencies to bring the Great Lakes ports together to develop a shared plan for expanding commerce on the Great Lakes.

Those attending included representatives from the American Great Lakes Ports Association; the Army Corps of Engineers - Waterborne Commerce Statistics Center; the Detroit/Wayne County Port Authority; the Great Lakes Commission; ICHCA Board Members; the International Joint Commission, Council of the Great Lakes; the Lake Carriers' Association; the Toledo-Lucas County Port Authority; the US Maritime Administration; Nagle Companies (trucking and logistics); the Toledo Metropolitan Area Council of Governments; the Toledo Trucking Association; the US Corps of Engineers, Navigation Planning Center; the US Saint Lawrence Seaway Development Corporation; the National Oceanic

& Atmospheric Administration, Office of Coast Survey - Navigation Service Division; and others.

The program included a progress report on the Great Lakes' Database by Dr. Peter Lindquist, Chair of UT's Department of Geography and Planning; a presentation titled "Developing a Marketing Plan" by Dr. Mark Vonderembse, Director of UT's ITI and UTC; and an overview of shipping technology by David Bendall, Deputy Chairman of ICHCA International and founder of MariTrade, a company specializing in services to the shipping industry. After the presentations, the group separated into two sections for further discussions on the data and on market development. The presentations can be viewed at <http://research.utoledo.edu/ITI/ITI.htm>.

INCAT Tasmania – "Jervis Bay"



96 metres

New "fast ship" technology used in Europe, Australia and other places may be useful on the Great Lakes.

This was the second in a series following the Great Lakes Data Workshop which was held in Detroit, Michigan last June. A third workshop is being planned for the summer of 2007, again in Toledo. For additional information or to be notified of the next workshop, email ITI@utoledo.edu.

International Cargo Organization Meets in Toledo & London

The International Cargo Handling and Coordination Association (ICHCA) International Ltd. met in Toledo, Ohio in November for a quarterly meeting of their board of directors. Jim Hartung, International Chairman of ICHCA is also the Chairman of the Executive

UT-UTC UPDATE

Committee of the Intermodal Transportation Institute, the umbrella organization of which the UT-UTC is a part. Included at the meeting were officials from London, Australia, the Canary Islands and Japan. After being hosted by University President Lloyd Jacobs at a dinner following their meeting, the group attended the Great Lakes Workshop the next day where David Bendall, Deputy Chairman of ICHCA International and founder of MariTrade, a company specializing in services to the shipping industry, gave an overview of shipping technology.



Jim Hartung, International Chairman, (behind) at the ICHCA dinner in London with Mike Compton, Chairman International Safety Panel and Richard Marks, Director.

The International Cargo Handling and Coordination Association (ICHCA) International Ltd. is an international membership organization of more than 900 transportation professionals from 80 countries who are dedicated to the promotion of new technologies and best practices for the efficient handling and movement of people and goods by coordinating all modes of transportation. Headquartered in London, ICHCA has chapters in Australia, Japan, the Canary Islands/Africa and the USA.

UT-UTC Director, Mark Vonderembse, attended the meeting in Toledo and the following quarterly meeting in London. The ITI/UT-UTC has been asked to participate in the development and rebirth of ICHCA USA. As a first step, this new direction will expand ICHCA USA to include all of North America. Given the remarkable growth in trade and the reduction of trade barriers, in particular NAFTA, this is certainly appropriate. For the Great Lakes region, this is especially important because of the level of commerce with Canada. It is the intention to begin the

reorganization by working initially within the Great Lakes region. As part of the process, a development team has been formed to formalize the new direction and plan programs. A membership drive will seek to renew the involvement of old members and welcome new participants into the organization.

Global Network of Scholars

The UT-UTC has established a strong relationship with ICHCA International through its willingness to head the formation of an International Research and Education Panel. Director Mark Vonderembse is the chairman of this Panel. The UT-UTC, along with its industry advisory board, has identified global supply chain and transportation as critical to the long-term competitiveness of the US. To address this, the UT-UTC is attempting to build educational and research relationships with high-quality universities around the world which will form the panel within ICHCA.

As a beginning step in this effort, last December Dr. Paul Hong, Associate Professor of Information Operations and Technology Management at The University of Toledo, traveled to Kyungpook University in Korea to meet with professors to discuss Korean firms in relation to supply chain management practices. He attended the 2006 Asia Academy of Management conference in Tokyo followed by meetings with researchers at Tokyo University. They discussed future engagement with Asian scholars to promote joint research in global supply chain management involving China, Japan and Korea.

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