

A Guide to Transportation Technology and Innovation

http://scitech.dot.gov http://t2.dot.gov



U.S. Department of Transportation Research and Special Programs Administration



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Overview of Technology Transfer

A Guide to Technology and Innovation

This guidebook was produced by members of the U.S. Department of Transportation (DOT) Technology Innovation Committee and is intended as an overview of innovation and technology transfer activities in the Department. The guide presents a quick reference to innovation, research, and technology activities at the DOT as well as points of contact and is designed to help you pursue development of more formal technology and innovation sharing partnerships. The members of the Committee (listed on the inside back cover) are initial contacts who will assist you in finding technical assistance and materials of interest.

Online users can find additional information on our headquarters agencies, DOT laboratories, partnership opportunities, Small Business Innovation Research (SBIR) Program, as well as updated information about DOT Technology Transfer at our web site at:

http://t2.dot.gov

The Transportation Science and Technology home page is a onestop resource for additional information on federal, national, and international transportation planning, technology, and R&D activities:

http://scitech.dot.gov

Additional information about the DOT is provided on the Department's web site:

http://www.dot.gov

For additional copies or information about this guide, you may contact the Volpe Center Office of Communications and Technology Outreach (617) 494-2224 or MurrayL@volpe.dot.gov

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To derive maximum return on our country's technological investments, the DOT encourages innovation and transfer of federally funded technology to the private sector to enhance the safety, mobility, global connectivity, environmental stewardship, and security of America's transportation system.

What is Technology Transfer?

T echnology Transfer includes a range of formal and informal cooperative actions between agencies, federal laboratories, and the public and private sectors. Successful technology transfer efforts result in product improvement, service efficiencies, improved manufacturing processes, joint development to address government and private sector needs, and the development of major new products for the international marketplace.

The DOT forges partnering ventures in the areas of strategic planning, enabling research, and education. Examples include: the initiatives of the National Transportation Science and Technology Strategy, partnerships on transportation information infrastructure, advanced vehicles, climate change and environmental impacts, security, and the University Transportation Centers (UTC) Program.

Why is Technology Transfer Important to DOT?

The efficiency, flexibility, and low cost of transportation in the United States makes our transportation system the envy of the world. But our system faces unprecedented demands for improvement and renewal. A fast-paced, information-intensive economy is changing the places people want and need to travel to, and new production and management methods are radically reshaping the shipping needs of business. At the same time, the nation's transportation system is expected to meet unprecedented standards for reliability, cost, timeliness, safety, security, growth, and environmental impact. DOT seeks to work with our industry and university partners to demonstrate and deploy safer, simpler, and smarter transportation.

What Activities are Included in Innovation and Technology Transfer Efforts?

Innovation and Technology Transfer happens in many ways:

- information sharing through papers, workshops, briefings, publications, reports, conferences, and personal visits;
- partnerships and memoranda of understanding;
- coalitions and advisory committees;
- information searches;
- technical assistance and expertise;
- access to federal laboratory facilities and services;
- resource pooling through cooperative agreements;
- license and patent agreements;
- international exchange programs;
- personnel exchange; and
- technical training.

How to Use This Guide

In the following pages, facilities and services available from each DOT agency are briefly described and information is provided. This information includes telephone, and fax numbers as well as postal mail, email, and web site addresses. Written inquiries to DOT elements within Washington, DC, should use the address format below. Be sure to insert the appropriate office name.

U.S. Department of Transportation (Insert Office Name and Mail Code) 400 Seventh Street SW Washington, DC 20590

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Complete addresses are provided for those DOT elements located outside Washington, DC.

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National Science and Technology Council http://www.ostp.gov/NSTC/html/NSTC_Home.html

The National Science and Technology Council (NSTC) was stablished by Executive Order on November 23, 1993. This Cabinet-level Council is the principal means for the President to coordinate science, space, and technology and to coordinate the diverse parts of the federal research and development enterprise. An important objective of the NSTC is the establishment of clear national goals for federal science and technology investments in areas ranging from information technologies and health research, to improving transportation systems and strengthening fundamental research. The Council prepares research and development strategies that are coordinated across federal agencies to form an investment package aimed at accomplishing multiple national goals. Transportation coordination with the NSTC is reflected in strategic planning and assessment, public-private partnerships, enabling research, education, publications, and activities on the Transportation Science and Technology web site at http://scitech.dot.gov.



U.S. Department of Transportation Office of the Secretary

http://www.dot.gov/ost DOT Office of Intermodalism

The Office of Intermodalism was established in 1992 within the Office of the Secretary of Transportation and is responsible for coordinating Department of Transportation projects, programs, and policies involving more than one mode of transportation.

Office of Intermodalism (S-3) Voice: (202) 366-5781 FAX: (202) 366-0263 Email: intermodal@ost.dot.gov

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DOT Patent Counsel

The DOT has centralized processing and information regarding DOT-owned patents and licensing of DOT-developed technology with the Office of the General Counsel.

DOT Patent Counsel (C-15) Contact: Otto Wildensteiner Voice: (202) 366-9161 FAX: (202) 366-9170 Email: Otto.Wildensteiner@ost.dot.gov

DOT Small Business Innovation Research (SBIR) http://www.volpe.dot.gov/sbir

C ongress established the Small Business Innovation Research (SBIR) Program to stimulate technology innovation, utilize small business to meet federal research and development needs, encourage participation by minority and disadvantaged businesses in technological innovation, and increase private sector commercialization of innovations derived from federal R&D. In the DOT, this program is managed through RSPA's Volpe Center.

The SBIR solicitation is available in electronic form only on the Internet; however, the program accepts proposals in both paper form and electronically.

Volpe National Transportation Systems Center 55 Broadway Cambridge, MA 02142-1093 Contact: Joe Henebury, DTS-22 Voice: (617) 494-2712 FAX: (617) 494-2370 Email: henebury@volpe.dot.gov



Garrett A. Morgan Technology and Transportation Futures Program http://education.dot.gov/

The Garrett A. Morgan Technology and Transportation Futures Program is an education outreach effort that has three goals: 1) To build a bridge between America's youth and the transportation community; 2) To support the development of improved educational technology that provides better ways for people to acquire new skills; and 3) To ensure that America's transportation workforce for the 21st century is technologically literate and internationally competitive. The Program serves as a catalyst to enhance transportation education at all levels by leveraging the Department's current technology, education, and research programs, and by forging public/private partnerships. The Program has four components: Math, Science, and Technology Literacy Challenge (K-12), community college partnerships, undergraduate and graduate opportunities, and lifelong learning.

Garrett A. Morgan Technology and Transportation Futures Program ATTN: MAR-500.5 U.S. Department of Transportation Washington, DC 20590 Email: garrett.morgan@bts.gov



Bureau of Transportation Statistics

http://www.bts.gov

The Bureau of Transportation Statistics (BTS) compiles, analyzes, and makes accessible information on the nation's transportation systems; collects information on intermodal transportation; and works to enhance the quality and effectiveness of DOT statistical programs through the development of guidelines and promotion of improvements in data acquisition and use. BTS publishes statistical and other information in printed and electronic forms and compiles and disseminates inventories of all transportation data resources available to the public. Visit the National Transportation Library on

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the BTS web site for thousands of publications and reports. With the exception of BTS Office of Airline Information products, all other BTS products are available at no charge while supplies last.

Bureau of Transportation Statistics National Transportation Library Contact: Cara Fitzgerald Voice: (202) 493-0768 FAX: (202) 366-3676 BTS Products: (202) 366-DATA BTS Information Services: (800) 853-1351 Email: answers@bts.gov

Transportation Research Information Service (TRIS)

B TS also supports the Transportation Research Information Service (TRIS) database that is operated and maintained by the Transportation Research Board at the National Academy of Sciences. TRIS is the world's largest and most comprehensive bibliographic resource on all phases of conventional, new, advanced, and emerging transportation systems worldwide. The TRIS Online version of the database is available to everyone, at no cost, on the National Transportation Library web site at http://ntl.bts.gov/tris. TRIS Online contains more than 425,000 records of published transportation research.

Transportation Research Board 500 5th Street NW Washington, DC 20001 Contact: Barbara Post Voice: (202) 334-2990 Fax: (202) 334-2527 Email: bpost@nas.edu



Federal Aviation Administration

William J. Hughes Technical Center http://www.tc.faa.gov

The William J. Hughes Technical Center, in Atlantic City, New L Jersey, is the focal point for technology transfer activities in the Federal Aviation Administration (FAA). The Center's mission is to provide research, engineering, and test expertise in an integrated laboratory environment for the development and support of a safe, secure, and efficient global aviation system. The facilities and specialized equipment available include: National Airspace Systems laboratory with computer operations and laboratory facilities for enroute, oceanic and terminal systems support, scan radar lab, ATC voice communications complex and the technical computer data center; Air Traffic Flow Management Laboratory; Research, Development, and Human Factors Laboratory; full-scale aviation fire test building, aircraft components fire test facility, airport and helicopter test beds, air traffic management simulation capabilities, airport capacity laboratory, weather and GPS test beds; the National Airport Pavement Test Facility, engine nacelle fire simulator, airflow induction test facility; full-scale curved panel test system, fuels laboratory, and a dynamic vertical drop test facility.

Other FAA facilities include the FAA Toxicology and Accident Research Laboratory and the Civil Aeromedical Institute which addresses the bioengineering, biomedicine, and biochemistry issues associated with performance and safety, both located at the FAA Mike Monroney Aeronautical Center complex in Oklahoma City, Oklahoma. The facilities at this location include aircraft cabin evacuation simulators, a dynamic impact sled test facility, a water survival tank, a research altitude chamber, and a forensic toxicology laboratory.

FAA Technical Center Atlantic City International Airport, NJ 08405 Contact: Dennis L. Filler Voice: (609) 485-6439 FAX: (609) 485-5152 Email: dennis.filler@faa.gov



Federal Highway Administration

http://www.fhwa.dot.gov

Turner-Fairbank Highway Research Center http://www.tfhrc.gov

The Turner-Fairbank Highway Research Center (TFHRC) is the home of the Federal Highway Administration's (FHWA's) Research, Development, and Technology Business Unit. The Center advances the state-of-the-technology and works cooperatively with FHWA's HQ offices and the 55 field offices to ensure that the technology is put into practice.

The FHWA Research and Technology (R&T) Program directly supports the goals of the U.S. Department of Transportation to invest strategically in transportation infrastructure, promoting safe and secure transportation, enhancing our environment, mitigating traffic congestion; and creating new alliances between the nation's transportation and technology industries.

The TFHRC provides FHWA and the world highway community with the most advanced research and development related to new highway technologies. The research focuses on providing solutions to complex technical problems through the development of more economical, environmentally sensitive designs; more efficient, quality controlled construction practices; and more durable materials. The end result is a safer, more reliable highway transportation system.

The Center has more than 20 laboratories conducting research in the following areas: safety, infrastructure, and operations. Special

facilities used for in-house or contractor-operated activities include human factors, highway driving simulator, FHWA/NHTSA National Crash Analysis Center located at the George Washington University's Virginia Campus, highway electronics, structures, hydraulics, pavement performance, aerodynamics, concrete technology, chemistry, soil mechanics, bituminous mixtures, bridge foundation test facility, federal outdoor impact laboratory, photometric and visibility laboratory, and pavement testing facility. There are also general support facilities such as a mechanical design and fabrication shop, a technical reference center, and an offsite Report Center.

Turner-Fairbank Highway Research Center 6300 Georgetown Pike McLean,VA 22101 Contact: John McCracken Voice: (202) 493-3422 FAX: (202) 493-3475 Email: john.mccracken@fhwa.dot.gov

National Highway Institute http://www.nhi.fhwa.dot.gov

The National Highway Institute (NHI) offers training programs addressed to transportation employees at all levels of federal, state, and local government; industry; universities; and the international transportation community. The objectives of the NHI training are: 1) to increase the knowledge, skills, productivity, efficiency, and value of the transportation workforce; 2) to foster the implementation of state-of-the-art technologies emanating from research and development; and 3) to stimulate economic vitality while improving the United States' competitive position in world markets by showcasing U.S. technology to the international transportation community.

In addition, the NHI participates in other learning activities including: administering the Dwight David Eisenhower Transportation Fellowship Program, providing resource materials for

universities, and involvement with industry and international entities including the Pan American Institute of Highways.

Federal Highway Administration National Highway Institute 4600 N. Fairfax Dr., Suite 800 Arlington, VA 22203 Contact: Rick Barnaby Voice: (703) 235-0520 FAX: (703) 235-0593 Email: rick.barnaby@fhwa.dot.gov

Local Technical Assistance Program http://www.ltapt2.org

The Local Technical Assistance Program (LTAP) is the most direct, hands-on method FHWA and its partners have for moving innovative transportation technologies out of the lab, off the shelf, and into the hands of people who maintain our local, rural, and tribal streets and roads.

The LTAP does this by funding technology transfer (T2) and technical assistance projects that link local highway agencies, tribal governments, universities, the states, and the federal government. A network of LTAP centers provide T2 services, technical assistance, training, products, advice, and educational resources to meet the varied needs of the local transportation workforces. There are 58 LTAP T2 centers, one in each state and Puerto Rico, and 7 regional centers serving Native American tribal governments.

Generally located at universities or state highway agencies, centers serve more than 38,000 rural and local agencies and tribal governments. The program is administered by FHWA's Office of Professional Development. Support for the centers comes from the federal LTAP funds, matched by a combination of funds from state departments of transportation, the Bureau of Indian Affairs, universities, local agencies, and finances designated by state legislation.

Federal Highway Administration Office of Professional Development 4600 N. Fairfax Dr., Suite 800 Arlington, VA 22203 Contact: Al Alonzi Voice: (703) 235-0552 FAX: (703) 235-0593 Email: al.alonzi@fhwa.dot.gov



Federal Motor Carrier Safety Administration

http://www.fmcsa.dot.gov

The Federal Motor Carrier Safety Administration (FMCSA) works to reduce the number and consequences of large truck and bus crashes on the nation's highways. FMCSA's work involves administering federal and state motor carrier safety enforcement programs, developing close partnerships to change unsafe behavior, conducting research, and deploying technology to improve safety.

Office of Research and Technology

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The Office of Research and Technology manages FMCSA research and technology development, testing, and transfer. The research and technology programs focus on safety efforts involving drivers, vehicles, carriers, new technologies, and crosscutting issues and research. The Office also manages two Intelligent Transportation Systems programs, (i.e., Commercial Vehicle Information Systems and Networks, CVISN) and the heavy vehicle platform of the Intelligent Vehicle Initiative, which focuses on invehicle safety systems. The research and technology projects are coordinated and often in partnership with relevant agencies, research organizations, states, carriers, the private sector, and others. The results are used to develop or refine FMCSA's policies, strategies, regulations, enforcement, and most importantly, commercial motor vehicle safety. The results are widely distributed and in multiple mediums.

Office of Research and Technology Federal Motor Carrier Safety Administration 400 Seventh Street SW Washington, DC 20590 Contact: Douglas McKelvey Voice: (202) 385-2361 FAX: (202) 385-2422 Email: doug.mckelvey@fmcsa.dot.gov

Safety Action Programs

Cafety Action Programs encompass the FMCSA's education and Outreach strategies, sometimes including enforcement and research components to reduce commercial motor vehicle CMV crashes. With more than 600,000 motor carriers on U.S. roads, these strategies include education and outreach programs used to inform, educate, and influence the behavior of more than 7 million truck and bus drivers, and millions of passenger vehicle drivers operating around CMVs. Research findings and safety technologies, communicated through outreach strategies, deployment strategies, and through the FMCSA web site, are designed to improve the safety of motor carrier operations, CMVs and CMV drivers, and involve public and private partnerships for using information systems, innovative technologies, and business practice reengineering. FMCSA is involved in deploying intelligent vehicle technology that provides essential safety benefits to improve the efficiency of commercial operations.

Safety Action Programs Federal Motor Carrier Safety Administration 400 Seventh Street SW Washington, DC 20590 Contact: David Longo Voice: (202) 366-2014 FAX: (202) 366-7908 Email: david.longo@fmcsa.dot.gov



National Training Center http://www.fmcsa.dot.gov/ntc/pages/set.html

The National Training Center (NTC) serves as the national focal point for the development and delivery of motor carrier safety training to enhance the capabilities of participating federal, state, and local government highway safety agencies. The NTC delivers training in commercial vehicle and driver inspection, drug interdiction, Intelligent Transportation Systems, compliance and enforcement, highway safety, education and outreach, and program management and support. In the past three years, it has delivered over 1,200 training courses, including trucks and terrorism seminars, to more than 39,000 federal, state, and local government employees.

National Training Center Federal Motor Carrier Safety Administration 4600 North Fairfax Drive, Suite 700 Arlington, VA 22203 Contact: Retta Besse Voice: (703) 235-0506 FAX: (703) 235-0517 Email: retta.besse@fmcsa.dot.gov



Federal Railroad Administration

http://www.fra.dot.gov/

A railroad research and development program is administered by the Federal Railroad Administration (FRA) to advance all aspects of railroad safety and intercity ground transportation. R&D is carried out in the following program areas: equipment, human factors, hazardous materials, track safety, next generation high-speed trains, safety of high-speed ground transportation, and highwayrailroad grade crossings. The **Transportation Technology Center**, managed and staffed by the Association of American Railroads for the FRA, is a 50-square-mile facility located near Pueblo, Colorado. It has laboratories, test tracks, and instrumentation for testing and

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evaluation of freight and passenger rolling stock, rolling stock components, track components, and advanced systems.

Office of Research and Development, RDV-30 Contact: Jo Strang Voice: (202) 493-6379 FAX: (202) 493-6333 Email: jo.strang@fra.dot.gov

Federal Transit Administration http://www.fta.dot.gov

The Federal Transit Administration (FTA) supports its interest in federal research and development and its continuing commitment to facilitate the dissemination and implementation of transit research and planning activities to state and local agencies and the private sector through its full-service Transit Research Information Center. The Center annually publishes Transit Planning and Research Reports: *Annotated Bibliography*, and *Transit Planning and Research Program Project Directory* to help its stakeholders stay abreast of the nature and scope of transit research projects.

Contact: Marina Drancsak, TRI-30 Voice: (202) 366-0201 FAX: (202) 366-3765 Email: marina.drancsak@fta.dot.gov

National Transit Institute http://www.ntionline.com

The National Transit Institute (NTI), established in 1992 at Rutgers University, is a training and education resource for the public transportation industry. NTI provides training, education, and clearinghouse services in support of public transportation and quality of life in the United States. NTI works in collaboration with industry, government, universities, and professional associations to

enhance the skills and performance of public transportation employees. Tuition-free training is provided for federal, state, and local transit employees in areas related to federal programs. Courses are conducted around the U.S. at or near transit agencies to minimize travel costs of participants. These courses cover a range of subjects, from workplace safety and transit system security to advanced technologies, multimodal transportation planning, management development, and federal compliance.

National Transit Institute 120 Albany Street, Tower 2, Suite 250 New Brunswick, NJ 08901-2163 Contact: Lydia E. Mercado Voice: (202) 366-5741 FAX: (202) 366-3765 Email: lydia.mercado@fta.dot.gov

Altoona Bus Testing and Research Center http://www.vss.psu.edu/fta

The Altoona Bus Testing and Research Center, located on 6th Avenue in Altoona, Pennsylvania, was established in 1989 by the Pennsylvania Transportation Institute (PTI) with funding provided by the Federal Transit Administration. The rail training center, no longer in service, was converted to a bus testing center. The staff at this center is responsible for testing new model buses as required by federal law to be eligible for federal funding. The Penn State Bus Research and Testing Facility located near University Park, Pennsylvania, is also part of the Altoona Bus Testing and Research Center.

The Testing Program provides bus manufacturers and transit agencies invaluable information that is used to improve the quality and safety of transit buses. It saves operators and taxpayers millions of dollars in operating and maintenance costs over the life of each bus model. The Testing Program is administered by the Vehicle

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Systems and Safety Program staff at the Altoona Bus Testing and Research Center in Altoona, Pennsylvania, and PTI in State College, Pennsylvania. The facility currently handles up to eight buses at one time. Since its start in 1990, the Bus Testing Program has tested over 150 new model buses. Currently, the Center tests buses for safety, structural integrity, performance, maintainability, noise, and fuel economy. Two additional tests, emissions and brake testing, will soon be added. Test results are compiled in a comprehensive report available to the industry and the public. Testing to date has resulted in more than 4,000 reported malfunctions ranging from minor problems to serious design deficiencies and safety-related failures. By identifying serious design problems before the buses are placed in revenue service, many costly fleet failures and serious safety problems have been averted.

Contact: Marcel Belanger Project Manager, TRI-20 Voice: (202) 366-0725 FAX: (202) 366-3765 Email: marcel.belanger@fta.dot.gov

Small Urban and Rural Transit Center (SURTC) http://www.surtc.org

The Small Urban and Rural Transit Center (SURTC) was established in 2002 as part of the Upper Great Plains Transportation Institute at North Dakota State University to increase the mobility of small urban and rural residents through improved public transportation. Working with local transit agencies, state government, and universities, SURTC undertakes research projects, and develops solutions to improve the efficiency and effectiveness of transit systems in small urban and rural areas in North Dakota, South Dakota, Montana, Wyoming, and western Minnesota.

Small Urban and Rural Transit Center (SURTC) 430 IACC Building, P.O. Box 5074 Fargo, ND 58105 Contact Lydia E. Mercado Voice: (202) 366-5741 FAX: (202) 366-3765 Email: lydia.mercado@fta.dot.gov



Maritime Administration

http://www.marad.dot.gov/research/

Through Research, Technology, Demonstration, and Deployment (RTDD) the Maritime Administration facilitates innovation in the U.S. maritime transportation system and supporting industries. Its purpose is to ensure enhanced products and services to meet challenging commercial growth demands and national security needs while enhancing environmental stewardship and transportation safety. There is a strong focus on developing innovative leaders and researchers that will help the U.S. maritime industry move successfully in the 21st century.

Description, focus, and point of contact for key programs are found below.

Contact: Alexander C. Landsburg Coordinator of Research and Development Voice: (202) 366-1923 FAX: (202) 366-3128 Email: alex.landsburg@marad.dot.gov

United States Merchant Marine Academy (USMMA) Kings Point, NY http://www.usmma.edu/

The U.S. Merchant Marine Academy is a national institution featuring a broad four-year college program with specialized

training for licensing as a merchant marine officer and military knowledge for commissioning in a reserve component of the Armed Forces.

Contact: David J. Palmer Voice: (516) 773-5541 FAX: (516) 773-5539 Email: palmerd@usmma.edu

Renewable Energy Transportation Laboratory - USMMA Kings Point, NY http://www.usmma.edu/

The Renewable Energy Transportation Laboratory acts as a test bed for the full range of alternative energy technologies. The laboratory helps facilitate advancements in non-polluting, renewable energy technologies and gives students hands-on experience while promoting student interest in the application of alternative energy systems.

Contact: Douglas B. Brown Voice: (516) 773-5471 Fax: (516) 773 5479 Email: brownd@usmma.edu

Global Maritime and Transportation School - USMMA Kings Point, NY http://www.usmma/gmats/

The Global Maritime and Transportation School (GMATS) offers an extensive maritime, intermodal, and transportation professional education program. GMATS is designated as a National Maritime Enhancement Institute (NMEI). This recognizes GMATS' accomplished expertise, research and educational capabilities, and industry affiliations that contribute to the advancement of marine and intermodal transportation systems. GMATS conducts applied research and studies in maritime activities including technologies, processes, human resources, and infrastructures.

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Global Maritime and Transportation School Contact: Captain Christopher J. McMahon, Director Voice: (516) 773-5120 FAX: (516) 773-5353 Email: gmats@usmma.edu

National Maritime Enhancement Institutes http://www.marad.dot.gov/research/MARADprogrms/NMEI/nmei _Intro.htm

The seven higher educational institutions comprising the National Maritime Enhancement Institutes (NMEI) program are recognized for their maritime expertise. The NMEI program was initiated to create research-oriented academic atmospheres at qualifying institutions where maritime issues could be addressed. The institutions designated as NMEIs are capable of researching inter-disciplinary, intermodal problems, and have access to a broad spectrum of resources enabling them to address national problems within their individual regional areas.

Contact: Alexander C. Landsburg Voice: (202) 366-1923 FAX: (202) 366-3128 Email: alex.landsburg@marad.dot.gov

Ship Operations Cooperative Program http://www.socp.org/

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The Ship Operations Cooperative Program (SOCP) is a public/private sector partnership engaged in cost-shared joint-venture research and development to improve the safety and efficiency of vessels in a wide variety of maritime services. The purpose of the SOCP is to address and promote commercially beneficial innovations in ship operations through the identification, development, and application of new methods, procedures, and technologies. Through the SOCP MARAD, industry, labor, and

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government are working together to address common challenges and identify new solutions for improvements in ship operations.

Contact: Todd Ripley, MAR-500 Voice: (202) 366-2625 Fax: (202) 366-9580 Email: todd.ripley@marad.dot.gov

Cargo Handling Cooperative Program http://www.marad.dot.gov/

The Cargo Handling Cooperative Program (CHCP) is a public/private partnership established to increase the productivity of marine freight transportation companies through cargo handling research and development. CHCP focus is on industrydriven technology priorities critical to an enhanced integrated transportation system for the movement of international and domestic freight.

Contact: Robert Bouchard, MAR-810 Voice: (202) 366-5076 FAX: (202) 366-6988 Email: robert.bouchard@marad.dot.gov

Ship Structure Committee http://www.shipstructure.org/

Ship safety and structural integrity is advanced through the international Ship Structure Committee (SSC), an intergovernmental cooperative program with ten agencies participating. The SSC performs research and development in structural design, life cycle risk management of ship structures, and production technologies. This research program enhances the safety of life at sea, promotes technology and education advancements in marine transportation, and protects the marine environment.

Contact: Chao H. Lin Voice: (202) 366-1847 FAX: (202) 366-7849 Email: chao.lin@marad.dot.gov

Maritime Energy Technologies Program

The Maritime Energy Technologies Program was developed to demonstrate technologies that improve marine power plant energy efficiency and/or reduce air borne emissions.

Contact: Daniel Gore Voice: (202) 366-1886 FAX: (202) 366-7197 Email: daniel.gore@marad.dot.gov

Inland Waterways Intermodal Cooperative Program http://www.marad.dot.gov/

The Inland Waterways Intermodal Cooperative Program (IWICP) is a public/private partnership established to address and promote intermodal transportation on the inland waterways of the United States. The focus is on industry-driven technology priorities that will support an integrated transport system for the movement of both domestic and international freight.

Contact: Gordon Angell, MAR-810 Voice: (202) 366-5129 FAX: (202) 366-6988 Email: gordon.angell@marad.dot.gov



Short Sea Shipping Cooperative Program http://www.marad.dot.gov/programs/shortseashipping.html

The Short Sea Shipping Cooperative Program (SCOOP) is an industry inspired partnership formed for the purpose of sharing resources and services in the development of Short Sea Shipping in North America. Short Sea Shipping is defined as the water transportation of freight and passengers that does not cross an ocean. Short Sea Shipping methods can decrease traffic congestion, improve safety, and benefit the environment.

Contact: Michael Hokana Voice: (202) 366-0760 FAX: (202) 366-5123 Email: michael.hokana@marad.dot.gov

National Highway Traffic Safety Administration http://www.nhtsa.dot.gov

The National Highway Traffic Safety Administration (NHTSA) is an authoritative national and international source of highway and motor vehicle safety information and services that provides technical and programmatic assistance to industry; federal, state, and local governments; educational and research institutions; and motorists. Examples are the **Auto Safety Hotline (888-327-4236)** that provides information on product defects; and the **Buying a Safer Car** program (http://www.nhtsa.dot.gov/cars/testing/ncap), which provides ratings of vehicle safety performance by crash testing new vehicles.

NHTSA also offers outreach information at: http://www.nhtsa.dot.gov/people/outreach including **NHTSA Facts** for information on consumer products and issues, and **Traffic Safety Digest** highlighting innovative traffic safety projects.

Contact: Mike Goodman, NPO-112 Voice: (202) 366-5677 FAX: (202) 366-7237 Email: mike.goodman@nhtsa.dot.gov

Vehicle Research and Test Center http://www-nrd.nhtsa.dot.gov/vrtc/vrtcstar.htm

The Vehicle Research and Test Center (VRTC) is the principal in-house testing laboratory for NHTSA. The physical facilities include a 7.5-mile test track, vehicle dynamics area with various test surfaces, skid pad, brake slope, and truck/bus durability and off-road courses. VRTC conducts research and vehicle testing in the areas of crash avoidance, crashworthiness, and biomechanics.

These research and development activities produce safer vehicles through improved vehicle performance, occupant protection systems, and structural integrity of vehicles; increased understanding of driver behavior; and the use of intelligent systems to enhance drivers' ability to avoid crashes and travel safely. VRTC also conducts investigations into potential safety-related defects in motor vehicles in support of the Office of Defects Investigation.

Vehicle Research and Test Center P.O. Box 37 East Liberty, OH 43319-0337 Contact: Mike Monk Voice: (937) 666-4511 FAX: (937) 666-3590 Email: mike.monk@nhtsa.dot.gov Research and Special Programs Administration http://www.rspa.dot.gov

University Transportation Centers http://utc.dot.gov

The mission of the University Transportation Centers (UTCs) is to advance U.S. technology and expertise in the many disciplines comprising transportation through education, research, and technology transfer at university-based centers of excellence. Through partnerships with state and local governments and the private sector, the universities serve as a vital source of transportation leaders and research results to meet the nation's need for safe, efficient, and environmentally sound movement of people and goods.

The various UTCs conduct basic and applied transportation research in numerous, multimodal fields; aid workforce development by providing their undergraduate and graduate students an education program that includes multidisciplinary course work and participation in research; and makes these research and education results available through an ongoing program of technology transfer.

Each UTC publishes an annual report that details that Center's research, education, and technology transfer results, and publishes research reports. These results are available on each UTC website. In addition, published reports are cataloged in the Transportation Research Information Service (TRIS) database.

Visit the UTC Program homepage at http://utc.dot.gov/ for links to each UTC home page, and the University Research Results search engine, to view research, education, and technology transfer results.

Email: utc@rspa.dot.gov Voice: (202) 366-4434



Volpe National Transportation Systems Center http://www.volpe.dot.gov

The Volpe National Transportation Systems Center (Volpe L Center) in Cambridge, Massachusetts, is an element of RSPA. The Center, which fosters innovation across the transportation enterprise and approaches transportation issues from a system-wide perspective, performs work on a fee-for-service basis for all modes of DOT, other federal, state, and local agencies, and some international entities. The Center fosters a broad multidisciplinary, multimodal approach with a focus on the interrelationships between technology, transportation, and society. The Center's expertise includes research and development, engineering, analysis, system implementation, economic analysis, and strategic planning. Across all the research areas the Center supports the DOT's strategic objectives of safety, mobility, global connectivity, environmental stewardship, security, and organizational excellence. The Center also is responsible for coordinating and supporting the DOT's Small Business Innovation Research (SBIR) Program.

Volpe National Transportation Systems Center 55 Broadway Cambridge, MA 02142-1093 Contact: Lynn Murray, DTS-22 Voice: (617) 494-2224 FAX: (617) 494-2370 Email: murrayL@volpe.dot.gov

Transportation Safety Institute http://www.tsi.dot.gov

With over 600,000 students trained, RSPA's Transportation Safety Institute (TSI) has made major contributions to improve transportation safety and security for the traveling public - both nationwide and internationally. TSI's training programs are designed and conducted to respond to the needs of the sponsoring (or client) organizations. TSI is the primary provider of multimodal safety and

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security training in the federal government. The Institute offers a wide variety of training courses and seminars, most of which are available at field locations as needed. Training is performance oriented; that is, designed to teach people how to better perform their jobs to ensure safety.

Transportation Safety Institute 6500 South MacArthur Blvd., P.O. Box 25082 Oklahoma City, OK 73125-5050 Contact: Frank Tupper, Director Voice: (405) 954-3153 FAX: (405) 954-3521 Email: ftupper@tsi.jccbi.gov Course and schedule information (800) 858-2107



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