## LTAP / RIT2 Workshops

<table>
<thead>
<tr>
<th>Date</th>
<th>Workshop</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/24</td>
<td>Flagger Certification</td>
<td>Scituate</td>
</tr>
<tr>
<td>7/23</td>
<td>Bucket Truck Safe Operations</td>
<td>Coventry</td>
</tr>
<tr>
<td>8/5-6</td>
<td>Road Safety Audits for Local Governments Workshop</td>
<td>Cranston</td>
</tr>
<tr>
<td>8/6</td>
<td>First Aid and CPR Workshop</td>
<td>Westerly</td>
</tr>
<tr>
<td>8/19</td>
<td>Flagger Certification</td>
<td>Westerly</td>
</tr>
<tr>
<td>8/21</td>
<td>Where and When to Use Traffic Signs, Signals, and Markings</td>
<td>West Greenwich</td>
</tr>
<tr>
<td>8/22</td>
<td>Tort Liability Workshop</td>
<td>West Greenwich</td>
</tr>
<tr>
<td>9/24</td>
<td>Bucket Truck Safe Operations</td>
<td>Warwick</td>
</tr>
<tr>
<td>9/29</td>
<td>Maintenance of Local Roads</td>
<td>West Greenwich</td>
</tr>
<tr>
<td>9/30</td>
<td>Geosynthetics</td>
<td>Kingston</td>
</tr>
<tr>
<td>10/15</td>
<td>Annual Providence Snow Plow Rhodeo</td>
<td>Providence</td>
</tr>
<tr>
<td>10/17</td>
<td>14th Annual R.I. Snow Plow Rhodeo</td>
<td>Providence</td>
</tr>
<tr>
<td>12/18</td>
<td>Dig Safe - What You Need To Know</td>
<td>Warwick</td>
</tr>
<tr>
<td>10/25</td>
<td>Flagger Certification</td>
<td>Providence</td>
</tr>
<tr>
<td>10/29</td>
<td>Fastener Safety Seminar</td>
<td>Carolina</td>
</tr>
</tbody>
</table>

### Additional Workshops

<table>
<thead>
<tr>
<th>Date</th>
<th>Workshop</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/7</td>
<td>Winter Operations</td>
<td>Woonsocket</td>
</tr>
<tr>
<td>11/14</td>
<td>Coffee Break</td>
<td>Coventry</td>
</tr>
<tr>
<td>11/14</td>
<td>Flagger Certification</td>
<td>East Providence</td>
</tr>
<tr>
<td>11/14</td>
<td>Flagger Certification</td>
<td>East Providence</td>
</tr>
<tr>
<td>11/18</td>
<td>Managing Change</td>
<td>West Greenwich</td>
</tr>
<tr>
<td>11/21</td>
<td>Welding Safety Workshop</td>
<td>North Kingstown</td>
</tr>
<tr>
<td>12/1</td>
<td>Flagger Certification</td>
<td>North Kingstown</td>
</tr>
<tr>
<td>12/1</td>
<td>Snow &amp; Ice Operations</td>
<td>North Kingstown</td>
</tr>
<tr>
<td>12/3</td>
<td>Mechanics Training</td>
<td>Coventry</td>
</tr>
<tr>
<td>12/4</td>
<td>Providing Quality Public Works Service</td>
<td>West Greenwich</td>
</tr>
<tr>
<td>12/9</td>
<td>Preparing to Take the Hoisting Engineers Exam</td>
<td>West Greenwich</td>
</tr>
<tr>
<td>12/11</td>
<td>Supervisor Training</td>
<td>Johnston</td>
</tr>
<tr>
<td>12/12</td>
<td>Introduction to Word</td>
<td>Johnston</td>
</tr>
<tr>
<td>12/12</td>
<td>Introduction to Excel</td>
<td>Middletown</td>
</tr>
<tr>
<td>12/18</td>
<td>Preparing to Take the Hoisting Engineers Exam</td>
<td>Warwick</td>
</tr>
<tr>
<td>12/18</td>
<td>Dig Safe - What You Need To Know</td>
<td>Warwick</td>
</tr>
</tbody>
</table>

A bucket truck training took place on Sept. 24 in Warwick.

Fastener safety seminar conducted on Oct. 29 in Carolina.
Because of the unique relationship the URITC has with the Federal Highway Administration (FHWA) and the National Highway Institute (NHI), the URITC offered eight professional development training sessions in 2008, at which more than 100 people attended. The URITC/FHWA/NHI partnership is an important regional asset, affording quality continuing education to public and private transportation practitioners.

The NHI is a part of the Office of Professional and Corporate Development (OPCD) within the FHWA. NHI’s goals are to:

- Train the current and future transportation workforce

Established by Congress in 1970, NHI is the training and education arm of FHWA.

In serving the national transportation community, NHI provides training resources to customers, partners, and learners in every state. Local governments and private organizations have also benefited from NHI’s training resources.

As part of the OPCD, NHI also works with the Affiliate Programs, the University and Grants Programs (UG&P), and OPCD Workforce Development Initiatives. Together, these programs and activities support the training and educational needs of the transportation workforce.

### 2008 NHI Training Sessions

<table>
<thead>
<tr>
<th>Date</th>
<th>Workshop</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 12-14</td>
<td>LRFD for Highway Bridge Superstructures-Steel</td>
<td>26</td>
</tr>
<tr>
<td>March 4-7</td>
<td>LRFD for Highway Bridge Substructures &amp; Earth R.S.</td>
<td>21</td>
</tr>
<tr>
<td>March 26 &amp; 27</td>
<td>Road Safety Audits/Assessments</td>
<td>29</td>
</tr>
<tr>
<td>May 1</td>
<td>Low-Cost Safety Improvements Workshop</td>
<td>25</td>
</tr>
<tr>
<td>May 5-7</td>
<td>Managing Highway Contract Claims: Analysis and Avoidance</td>
<td>27</td>
</tr>
<tr>
<td>Sept. 22-24</td>
<td>Inspection of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes</td>
<td>25</td>
</tr>
<tr>
<td>Nov. 18 &amp; 19</td>
<td>Materials Control &amp; Acceptance - Quality Assurance</td>
<td>21</td>
</tr>
<tr>
<td>Dec. 9</td>
<td>Introduction to Percent Within Limits-The Quality Measure of Choice</td>
<td>23</td>
</tr>
</tbody>
</table>
Project Achievements
For FY2008 (and those not previously reported)

Dr. Christopher Anderson

A Strategic Model for Optimal Scaling of International Container Ports

2008

May, 2008

Judy Beckman

Transportation-Related Case Studies to be Developed from a GU8 Workshop on Understanding the Human Dimensions of Global Change

November, 2008

Currently working on publication of cases with McGraw-Hill.

Dr. Arijit Bose

Directional Synthesis of Lead Selenide-Titania Core-Shell Nanowire Heterostructures for High-Efficiency Low-Cost Solar Cells


2008

2008

February, 2008

April, 2008
Presentation: Microstructures in Complex Fluids – Department of Chemical Engineering, Rensselaer Polytechnic Institute.

September, 2008
Presentation: Templated Synthesis of Inorganic Nanocomposites, Cabot Corporation Conference on Templated Synthesis, Billerica, MA.

December, 2008
Presentation: Microstructures in Complex Fluids, Plenary Lecture, BUET Conference in Chemical Engineering, Dhaka.
Dr. Mayrai Gindy

Integrity Assessment of Composite and Timber Piles in the Marine Environment Using Nondestructive Testing

January, 2008

Dr. Michael Greenfield

Modeling Molecular-Level Actions of Asphalt Modifiers

November 3, 2006

2007

January, 2007

2008

November 7, 2008

November 21, 2008
Conference Presentation: “Correlation among Molecule Relaxations in Multicomponent Asphalt Models,” with Liqun Zhang and Derek D. Li. Annual Meeting of the American Institute of Chemical Engineers (AIChE), paper 738h.

Simulation, Modeling and Interpretation of Asphalt Rheology

November 17, 2008

Dr. Brett Lucht

Development of Thermochromic Paints, Plastics, and Rubbers for Rapid Visual Assessment of Temperature

2008

April 6-10, 2008
Conference Presentation: “Tunable mesophase formation in substituted polythiophenes,” ACS National Meeting, New Orleans, LA.
Dr. Norbert Mundorf

Exploring Ways of Influencing Transport Behaviors by Using Telecommunications Technologies

2007

May, 2006

Change Strategies to Promote Safe Transportation Behavior

2007
Report: “Change Strategies to Promote Safe Transportation Behaviors. Final Report to the Rhode Island Department of Transportation, Division of Highway Safety.”

April, 2007

April, 2007

Improving Safe Transportation and Alcohol Awareness Messages

April, 2007

May, 2007

November, 2007
Conference Paper: “Social self-efficacy moderates the relationship between normative beliefs about alcohol and binge drinking behaviors among college students,” with J.B. Weaver, III; S.S. Weaver; and R. Laforge, R. Paper presented before the American Public Health Association, Washington, DC.

November, 2007

Dr. Martin Sadd

Effect of Microstructure on the Static and Dynamic Behavior of Recycled Asphalt Material

November, 2001
**Reported Publications, Presentations & Success Stories**

**Mechanical Behavior of Recycled Asphalt Material Under Dynamic Loading Conditions**

2003

2003

2005

**Dr. Jyh-Hone Wang**

**Employing Graphics to aid Message Display on Dynamic Message Signs**

2007

**Enhancing the Preparedness and Response of the Transportation System in Natural or Human-Caused Disasters**

2008
Publication: “Rhode Island Transportation System in Natural or Human-Caused Disasters,” with J.C. Severson, V. Maier-Speredelozzi and C. Collyer. Transportation Research Record, No. 2041, pp. 68-79.

January, 2008
Research Projects
New Projects in 2008

Researching Sustainable Communities: Design, Layout and Transportation Systems
Dr. William A. Green, Professor
URI Department of Community Planning & Landscape Architecture
Year Initiated: 2008 – 001845

Simulation, Modeling and Interpretation of Asphalt Rheology
Dr. Michael L. Greenfield, Professor
URI Department of Chemical Engineering
Year Initiated: 2008 – 001850

Settlement of Adjacent Ground from Pile Driving in Silts
Dr. Christopher D.P. Baxter, Associate Professor
URI Department of Civil and Env. Engineering and Department of Ocean Engineering
Year Initiated: 2008 – 001851

Studying the Vehicle Headway Issue and Its Impact on the Slow-Down Effect
Dr. Jyh-Hone Wang, Associate Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 2008 – 001852

Transportation for Sustainability: Phase I
Dr. Manbir Sodhi, Professor
URI Department of Industrial and Systems Engineering
Year Initiated: 2008 – 001869

Directional Synthesis of Lead Selenide-Tatania Core-Shell Nanowire Heterostructures for High-Efficiency Low-Cost Solar Cells
Dr. Arijit Bose, Professor
URI Department of Chemical Engineering
Year Initiated: 2008 – 001891

Creating Sustainable Transportation Awareness in Communication Courses
Dr. Norbert Mundorf, Professor
URI Department of Communication Studies
Year Initiated: 2008 – 001857

Increasing Seatbelt Usage Rate Among High School Students
Dr. Norbert Mundorf, Professor
URI Department of Communication Studies
Year Initiated: 2008 – 001897

Study of an Overload Truck Screening System for a Sustainable Highway Bridge Network
Dr. Mayrai Gindy, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2008 – 001900

Consumer Behavior, Transportation, Energy Use and Greenhouse Gas Emissions at URI
Dr. Frederick Meyerson, Assistant Professor
URI Department of Environmental Science & Management
Year Initiated: 2008 – 001943

Ongoing Projects as of December 31, 2008

Enhancing the Preparedness and Response of the Transportation System in Case of Natural or Human-Caused Disasters
Dr. Jyh-Hone Wang, Associate Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 2006 – 001031

Synthesis of Nanocatalyst-Support Composites for Transportation Applications
Dr. Arijit Bose, Professor
URI Department of Chemical Engineering
Year Initiated: 2005 – 001024
**Research Projects**

**Modeling Molecular Level Actions of Asphalt Modifiers**
Dr. Michael Greenfield, Associate Professor
URI Department of Chemical Engineering
Year Initiated: 2005 – 001025

**Assisting Elder Driver’s Comprehension of Dynamic Message Sign Messages**
Dr. Jyh-Hone Wang, Associate Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 2005 – 001026

**Global Transportation Network and Supply Chain Management: An Integrative Approach**
Dr. Mary Krome Hamilton, Assistant Professor
URI College of Business Administration
Year Initiated: 2005 – 001030

**Multi-Modal Hurricane Evacuation Plan**
Dr. Natacha Thomas, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2005 – 001051

**FRP: Increasing Seat Belt Use Among High School Students**
Dr. Norbert Mundorf, Professor
URI Department of Communication Studies
Year Initiated: 2005 – 001113

**Completed Projects**

**New Anti-Fouling Coatings Based on Conductive Polymers**
Dr. Richard Brown, Professor
URI Department of Chemical Engineering
Year Initiated: 2006 – 001032

**Understanding the Activity and Travel Patterns of Teenagers Living in Providence, R.I.**
Dr. Talia McCray, Assistant Professor
URI College of Business Administration
Year Initiated: 2006 – 001033

**Improving Safe Transportation and Alcohol Awareness Messages**
Dr. Norbert Mundorf, Professor
URI Department of Communication Studies
Year Initiated: 2006 – 001034

**Transportation System Research Program Development**
Dr. Christopher Hunter, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2006 – 001385

**A Strategic Model for Optimal Scaling of International Container Ports**
Dr. Christopher Anderson, Associate Professor
University of Rhode Island Graduate School of Oceanography
Year Initiated: 2005 – 001028

**Integrity Assessment of Composite and Timber Piles in the Marine Environment Using Nondestructive Testing**
Dr. Mayrai Gindy, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2005 – 001027

**Co-Utilization of Narragansett Bay by Maritime Commerce, Tourism, Recreational and Commercial Industries**
Dr. Candace Oviatt, Professor
URI Graduate School of Oceanography
Year Initiated: 2005 – 001029

**Commuter Behavior, Transportation, Energy Use and Greenhouse Gas Emissions at the University of Rhode Island (Summer 2006)**
Dr. Frederick Meyerson, Assistant Professor
URI Department of Natural Resources Science
Year Initiated: 2005 – 001162
Research Projects

**Nanostructured Materials for Advanced Transportation Applications**
Dr. Arijit Bose, Professor
URI Department of Chemical Engineering
Year Initiated: 2004 – 000464

**The Impact of Truck Driver Hours-of-Service Regulations on Retail Warehouse Operations**
Dr. Valerie Maier-Speredelozzi, Assistant Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 2004 – 000466

**Acoustic Detection and Monitoring for Transportation Infrastructure Security**
Dr. James Miller, Professor
URI Department of Ocean Engineering
Year Initiated: 2004 – 000471

**Employing Graphics to aid Message Display on Dynamic Message Signs**
Dr. Jyh-Hone Wang, Associate Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 2004 – 000472

**Testing Models of Asphalt System Modification Using Molecular Simulation**
Dr. Michael Greenfield, Associate Professor
URI Department of Chemical Engineering
Year Initiated: 2004 – 000506

**Comparative Performance of Explosion Shielding Materials Used in Transportation**
Dr. Carl-Ernst Rousseau, Assistant Professor
URI Department of Mechanical Engineering
Year Initiated: 2004 – 000507

**Developing Intermodal Transportation Station Projects: A Public-Private Partnership Approach**
Dr. Farhad Atash, Professor
URI Department of Community Planning & Landscape Architecture
Year Initiated: 2004 – 000557

**Evaluation of Nonviolence Training for Offenders**
Dr. Charles Collyer, Professor
URI Department of Psychology
Year Initiated: 2004 – 000562

**Highway Flares and Runoff: a Potential Source of Perchlorate to Surface Water in Rhode Island**
Dr. Anne Veeger, Associate Professor
URI Department of Geosciences
Year Initiated: 2004 – 000563

**Liquefaction Potential of Inorganic and Organic Silts**
Dr. Christopher Baxter, Assistant Professor
URI Departments of Ocean Engineering & Civil and Environmental Engineering
Year Initiated: 2003 – 000060

**Web Based Relational Database Portal for Subsurface Geotechnical Data**
Dr. Daniel Murray, Professor
URI Department of Geosciences
Year Initiated: 2003 – 000158

**Comparative Performance of Explosion Shielding Materials Used in Transportation**
Dr. Carl-Ernst Rousseau, Assistant Professor
URI Department of Mechanical Engineering
Year Initiated: 2004 – 000507
Research Projects

Promoting Bike-Riding on the Kingston Campus of URI:
Overcoming Barriers to Change
Dr. Lorraine Keeney, Research Associate
URI Department of Nutrition and Food Sciences
Year Initiated: 2003 – 536170

Harnessing the Power of Relational Databases for Management of Geotechnical and Geologic Data
Dr. Daniel Murray, Professor
URI Department of Geosciences
Year Initiated: 2002 – 536176

Determining the Effectiveness of New Technology Data Collection Devices for Real-Time Transportation System Management
Dr. Chris Hunter, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2002 – 536177

Development of Thermochromic Paints, Plastics and Rubbers for Rapid Visual Assessment of Temperature
Dr. Brett Lucht, Associate Professor
URI Department of Chemistry
Year Initiated: 2002 – 536183

Replacement of Chromate in Paints and Corrosion Protection Systems
Dr. Mercedes Rivero-Hudec, Associate Professor
URI Department of Chemical Engineering
Year Initiated: 2002 – 000514

Development of Thermochromic Paints, Plastics, and Rubbers for Rapid Visual Assessment of Temperature
Dr. Brett Lucht, Associate Professor
URI Department of Chemistry
Year Initiated: 2001 – 536152

Contamination of Urban Lakes by Storm Runoff from Highway and Railway Drainage Systems
Dr. John King, Professor
URI School of Oceanography
Year Initiated: 2001 – 536155

Development of an Advanced Pavement Deicing System
Dr. David Taggart, Professor
URI Department of Mechanical Engineering
Year Initiated: 2001 – 536156

Investigation of Potential for Intermodalizing Paratransit in Rhode Island
Dr. Christopher Hunter, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2001 – 536157

Rethinking the Region
Dr. Maureen Moakley, Professor
URI Department of Political Science
Year Initiated: 2001 – 536168

Intermodal Transport of Petroleum Products- Smart Terminals
Dr. Winston Knight, Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 2000 – 536133

Safety Belt Usage Rates at High Schools and Colleges in Rhode Island
Daniel Berman
Executive in Residence & FHWA RI Division
Dr. Jerome Schaffran, Professor
URI Human Development and Family Studies
Year Initiated: 2004 – 000318
Quonset Point (QP) Multi-Modal, Mixed-Use Ferry Terminal Study  
Dr. Richard Burroughs, Professor  
URI Department of Marine Affairs  
Year Initiated: 2004 – 000470

Challenges and Prospects of the Proposed Intermodal Transportation Hub at T.F. Green Airport in Warwick, R.I.  
Dr. Farhad Atash, Professor  
URI Department of Community Planning & Landscape Architecture  
Year Initiated: 2004 – 000564

Narragansett Bay High Speed Ferry Network - Phase 2: Engineering, Marketing and Economic Development  
Dr. Angelo Simeoni, Professor  
URI Department of Community Planning & Landscape Architecture  
Year Initiated: 2004 – 000592

Enhancing Driving Safety through Proper Message Design on Variable Message Signs  
Dr. Jyh-Hone Wang, Associate Professor  
URI Department of Industrial and Manufacturing Engineering  
Year Initiated: 2003 – 000052

Experimental Evaluation of Novel Composites for Use in Transport of Explosive Materials  
Dr. Carl-Ernst Rousseau, Assistant Professor  
URI Department of Mechanical Engineering  
Year Initiated: 2003 – 000057

Calibration of Scour Models Using Advanced Sonar Technology for Bridge Safety  
Dr. James Miller, Professor  
URI Department of Ocean Engineering  
Year Initiated: 2003 – 000059

Porous Pavement and Water Quality: Investigation of a Newly Constructed Parking Lot and Its Potential Impact on Subsurface Water  
Dr. Thomas Boving, Associate Professor  
URI Department of Geosciences  
Year Initiated: 2003 – 000163

Narragansett Bay High Speed Ferry Network Phase 1 - Site Selections and Site Designs  
Dr. Angelo Simeoni, Professor  
URI Department of Community Planning & Landscape Architecture  
Year Initiated: 2003 – 000188

Stretching Ability of Chip Seal Membranes (Project Cancelled Due to the Death of PI)  
Milton Huston, Adjunct Associate Professor  
URI Department of Civil and Environmental Engineering  
Year Initiated: 2002 – 536175

Developing and Applying a Transportation Model for Aquidneck Island  
Dr. Farhad Atash, Professor  
URI Department of Community Planning & Landscape Architecture  
Year Initiated: 2002 – 536178

Integrated Transportation Pricing Strategy for Newport  
Dr. Timothy Tyrrell, Professor  
URI Department of Environmental and Natural Resources Economics  
Year Initiated: 2002 – 536179

Development of a Course on Bridge Management  
Dr. George Tsiatas, Professor  
URI Department of Civil and Environmental Engineering  
Year Initiated: 2002 – 536180
Wood Filters as an Innovative Treatment Method for Roadway Runoff Pollutants  
Dr. Thomas Boving, Associate Professor  
URI Department of Geosciences  
Year Initiated: 2002 – 536181

RIDOT 2002 Bicycle Transportation User Survey; Developing Intermodal Connections for the 21st Century  
Dr. R. Choudary Hanumara, Professor  
URI Department of Computer Science and Statistics  
Year Initiated: 2002 – 536182

Dredging in a Changing Scientific and Regulatory Environment -Year 2  
Dr. Richard Burroughs, Professor  
URI Department of Marine Affairs  
Year Initiated: 2002 – 536184

Application of a Multimodal Demand Simulation Model to Assess Container Transportation Policy Issues in the Northeast  
Dr. Thomas Grigalunas, Professor  
URI Department of Environmental and Natural Resource Economics  
Year Initiated: 2002 – 536185

Mechanical Behavior of Recycled Asphalt Material Under Dynamic Loading Conditions  
Dr. Martin Sadd, Professor  
URI Department of Mechanical Engineering  
Year Initiated: 2002 – 536186

Dredging in a Changing Scientific and Regulatory Environment  
Dr. Richard Burroughs, Professor  
URI Department of Marine Affairs  
Year Initiated: 2001 – 536151

Field Study of Composite Piles in the Marine Environment  
Dr. Christopher Baxter, Assistant Professor  
URI Department of Ocean & Civil and Environmental Engineering  
Year Initiated: 2001 – 536153

Development of a Customer Satisfaction and Service Quality Measurement Method and Tool for the Rhode Island Public Transit Authority  
Dr. Albert Della Bitta, Professor  
URI College of Business Administration  
Year Initiated: 2001 – 536154

Replacement of Chromates in Paints and Corrosion Protection Systems  
Dr. Mercedes Rivero-Hudec, Associate Professor  
URI Department of Chemical Engineering  
Year Initiated: 2001 – 536158

Intelligent Traffic Anomaly Diagnosis Through the Integration of Diverse Information Sources  
Dr. Joan Peckham, Professor  
URI Department of Computer Science  
Year Initiated: 2001 – 536159

Processing of Cenosphere-Cement/Asphalt Composite Materials and Evaluation of their Mechanical and Acoustic Properties  
Dr. Arijit Bose, Professor  
URI Department of Chemical Engineering  
Year Initiated: 2001 – 536160

Multimodal Vehicle Display Design and Analysis  
Dr. Manbir Sodhi, Professor  
URI Department of Industrial Engineering  
Year Initiated: 2001 – 536161
Creating Safe Transportation Options for College Students  
Dr. Norbert Mundorf, Professor  
URI Department of Communication Studies  
Year Initiated: 2001 – 536162

Comprehensive Framework for Sustainable Container Ports  
Development of U.S. East Coast in the 21st Century (Year 3)  
Dr. Thomas Grigalunas, Professor  
URI Department of Environmental & Natural Resource Economics  
Year Initiated: 2001 – 536163

Effect of Microstructure on the Static and Dynamic Behavior of Recycled Asphalt Material  
Dr. Martin Sadd, Professor  
URI Department of Mechanical Engineering  
Year Initiated: 2001 – 536164

Exploring Ways of Influencing Transport Behaviors by Using Telecommunications Technologies  
Dr. Nikhilesh Dholakia, Professor  
URI College of Business Administration  
Year Initiated: 2000 – 536131

Chemical Retention Capacity of a Newly Constructed Roadway Runoff Detention Pond  
Dr. Thomas Boving, Assistant Professor  
URI Department of Geosciences  
Year Initiated: 2000 – 536132

High Accuracy GPS Base Station and Web Delivery System  
Dr. Peter August, Professor  
URI Department of Natural Resources Science  
Year Initiated: 2000 – 536134

Replacement of Chromates in Paints and Corrosion Protection Systems  
Dr. Mercedes Rivero-Hudec, Associate Professor  
URI Department of Chemical Engineering  
Year Initiated: 2000 – 536135

Fiber Reinforcement of Concrete  
Dr. Richard Brown, Professor  
URI Department of Chemical Engineering  
Year Initiated: 2000 – 536136

A Web-Based Core Library for Rhode Island  
Dr. Daniel Murray, Professor  
URI Department of Geosciences  
Year Initiated: 2000 – 536137

Effect of Microstructure on the Static and Dynamic Behavior of Recycled Asphalt Materials  
Dr. Martin Sadd, Professor  
URI Department of Mechanical Engineering  
Year Initiated: 2000 – 536138

TRANSMAP: An Integrated, Real-Time Environmental Monitoring and Forecasting System for Highways and Waterways in RI  
Dr. Malcolm Spaulding, Professor  
URI Department of Ocean Engineering  
Year Initiated: 2000 – 536139

Comprehensive Framework for Sustainable Container Ports  
Development of US East Coast in the 21st Century  
Dr. Thomas Grigalunas, Professor  
URI Department of Environmental and Natural Resource Economics  
Year Initiated: 2000 – 536140
Implementation of a Highway Monitoring Program Utilizing Intelligent Transportation Systems (ITS)
Milton Huston, Adjunct Associate Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2000 – 536141

Moving Smart in Rhode Island
Dr. Joan Peckham, Professor
URI Department of Computer Science and Statistics
Year Initiated: 2000 – 536142

Inorganic and Organic Characterization of Dredged Sediments from the Proposed Quonset Point Channel in Narragansett Bay
Dr. Raymond Wright, Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2000 – 536143

Performance Improvement & Measurement of Open-Graded Asphalt Mixes
Dr. Mohammad Faghri, Professor
URI Department of Mechanical Engineering
Year Initiated: 2000 – 536144

Magnet and Induced Impacts of Quonset Container Port
Dr. Edward Mazze, Dean
URI College of Business Administration
Year Initiated: 2000 – 536145

Red Light Running in Rhode Island
Dr. Chris Hunter, Assistant Professor
URI Department of Civil and Environmental Engineering
Year Initiated: 2000 – 536146

TRANSMAP: An Integrated, Real-Time Environmental Monitoring and Forecasting System for Highways and Waterways in RI
Dr. Malcolm Spaulding, Professor
URI Department of Ocean Engineering
Year Initiated: 1999 – 536100

Fiber Reinforcement of Concrete
Dr. Richard Brown, Professor
URI Department of Chemical Engineering
Year Initiated: 1999 – 536101

Geologic Transportation Maps for the 21st Century
Dr. O. Don Hermes, Professor
URI Department of Geosciences
Year Initiated: 1999 – 536102

Multi Modal Vehicle Display Design and Analysis
Dr. Manbir Sodh, Professor
URI Department of Industrial & Manufacturing Engineering
Year Initiated: 1999 – 536103

Beneficial Uses of Dredge Material from the QPD Intermodal Port Terminal
Dr. Armand Silva, Professor
URI Department of Ocean Engineering
Year Initiated: 1999 – 536104

The Design and Development of Information and Computer Systems for the URITC
Dr. Joan Peckham, Professor
URI Department of Computer Science and Statistics
Year Initiated: 1999 – 536105
Research Projects

Comprehensive Framework for Sustainable Container Ports
Development of US East Coast in the 21st Century
Dr. Thomas Grigalunas, Professor
URI Department of Environmental and Natural Resource Economics
Year Initiated: 1999 – 536106

Development of an Advanced Bridge, Highway, and Runway Deicing System
Dr. David Taggart, Professor
URI Department of Mechanical Engineering
Year Initiated: 1999 – 536107

Effect of Microstructure on the Static and Dynamic Behavior of Recycled Asphalt Material
Dr. Martin Sadd, Professor
URI Department of Mechanical Engineering
Year Initiated: 1999 – 536108

Modeling for Real-Time Traffic Control in the Rhode Island Intelligent Road
Dr. William Palm, Professor
URI Department of Mechanical Engineering
Year Initiated: 1999 – 536109

Using Cenospheres to Develop New Asphalt and Cement-Based Concrete Materials
Dr. Arun Shukla, Professor
URI Department of Mechanical Engineering
Year Initiated: 1999 – 536110

Interactions of Transportation and Telecommunications Behaviors in Relation to RIIR: Modeling the User Perspective
Dr. Nikhilesh Dholakia, Professor
URI College of Business Administration
Year Initiated: 1999 – 536111

Data Analysis and Detection Methods for Online Health Monitoring of Bridge Structures
Dr. Sau-Lon Hu, Professor
URI Department of Ocean Engineering
Year Initiated: 1999 – 536112

Dr. David Shao, Professor
URI Department of Industrial and Manufacturing Engineering
Year Initiated: 1999 – 536113

Smart Speed Bumps
Dr. William Ohley, Professor
URI Department of Electrical Engineering
Year Initiated: 1999 – 536114
Financial Report
Source of Funds
This chart represents the composition of funds committed for Grant Year 2007. A federal grant accounted for 33% of URITC’s funding, 51% from industry and public sector partners and 16% from the University of Rhode Island.

Use of Funds
This chart illustrates the composition of allocations against the total source of funds for Grant Year 2007. Research and research related administrative costs accounted for 24% of the funds, technology transfer and outreach made up 30%, 15% was used for administrative costs and 31% was spent on education.