



## OVER SIX MILLION DOLLARS TO NEW ENGLAND'S PUBLIC UNIVERSITIES FOR TRANSPORTATION RESEARCH

The New England Transportation Consortium (NETC) is a cooperative effort of the transportation agencies of the six New England States. Through the Consortium, the states pool professional, academic and financial resources for transportation research leading to the development of improved methods for dealing with common problems associated with the administration, planning, design, construction, rehabilitation, reconstruction, operation and maintenance of the region's transportation system.

Since 1995, the Consortium has provided over \$6,000,000 to faculty and graduate students at New England's public universities to conduct transportation-related research.



## THE NEW ENGLAND TRANSPORTATION CONSORTIUM COMPLETE'S ITS FIRST YEAR AT UMASS DARTMOUTH

The NETC Coordinator's office completed its relocation from the University of Connecticut at Storrs, CT to the University of Massachusetts Dartmouth's Advanced Technology & Manufacturing Center in Fall River, MA in January 2006.

The mailing address for the Coordinator's office is:  
New England Transportation Consortium  
C/o Advanced Technology & Manufacturing Center  
University of Massachusetts Dartmouth  
151 Martine Street  
Fall River, MA 02723  
Phone: 508-910-9846, 9816



## BARBARA DALTON JOINS NETC STAFF

Barbara comes to the Coordinator's office with a strong background in office management acquired through experience in both the private and public sector. Among Barbara's responsibilities, as Administrative Assistant, will be: updating and maintenance of the consortium's web site, preparation of the consortium's newsletter, preparation of the annual report, quality control checks on final reports, processing invoices, financial record keeping and scheduling meetings.



## DR. AULTMAN-HALL RECOGNIZED

Dale Peabody, chairman of the NETC Advisory Committee, at its December 2005 meeting presented a certificate of appreciation to Dr Lisa Aultman-Hall, at the time Director of the Connecticut Transportation Institute at the University of Connecticut, for her service to NETC as the University's representative to the Advisory Committee and subsequently as the Interim NETC Coordinator. Dr Aultman-Hall is now Director of the University of Vermont National University Transportation Center.



## \$100,000 NETC TRANSPORTATION RESEARCH CHALLENGE AWARDED TO UNIVERSITY OF MASSACHUSETTS DARTMOUTH IN COLLABORATION WITH THE UNIVERSITY OF NEW HAMPSHIRE

Dr. Walaa Mogawer, University of Massachusetts Dartmouth, and Dr. Jo Sias Daniel, University of New Hampshire, received the first New England Transportation Research Challenge award of funding (\$100,000) for their research project entitled "Fix It First: Utilizing the Seismic Property Analyzer & MMLS to Develop Guidelines for the Use of Polymer Modified Thin Lift HMA vs. Surface Treatments". The Transportation Research Challenge was established by NETC to encourage collaboration, among the Transportation Centers and faculty involved in transportation research and education at the New England public Universities, in addressing cutting-edge transportation issues of common interest to the consortium's member transportation agencies. All modes and aspects of transportation are included in the Research Challenge. In particular, highway and transit research in the following areas are encouraged: policy, planning, human resources, administrative practices, service configuration, equipment, facilities, construction, operation, and maintenance. Faculty involved in transportation research and education at New England's public universities are eligible to respond to solicitations for the Transportation Research Challenge.



Dr. Walaa S. Mogawer



Dr. Jo Sias Daniel



## \$585,000 ALLOCATED FOR NETC FFY 2008 RESEARCH PROGRAM

The NETC Advisory Committee, at its April 2007 meeting, allocated \$585,000 for the Consortium's FFY 2008 research program. RFPs will be issued for the following projects:

- "Applying the Highway Safety Manual in New England"
- "Evacuation Modeling to Assist Hazard Management and Response in Urban and Rural Areas of New England"
- "Best Management Practices for the Invasive Polygonum Cuspidatum (Japanese Knotweed) Along Transportation Corridors"
- "NETC Research Implementation Survey & Synthesis"
- "NETC/UVM-UTC Transportation Research Challenge"
- "Sealing of Small Movement Bridge Expansion Joints - Phase II: Field Installation & Monitoring"



## \$400,000 TO BE AWARDED BY NETC FOR WINNING PROPOSALS FOR THE FOLLOWING RESEARCH PROJECTS

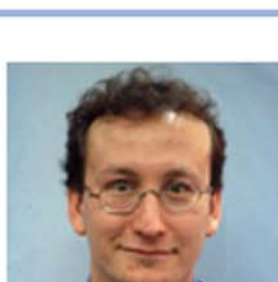
- Invitations were issued to New England's public universities to submit proposals for the following research projects:
- NETC 06-2 "Infrastructure Management Systems Enhancement and Integration to Support True Integrated Management Decision-Making"
  - NETC 07-2 "Exploring the Potential of Intelligent Intersections Deployment in New England"
  - NETC 07-3 "Determining Optimum Distance for a Lane Drop Downstream from a Signalized Intersection"
  - NETC 07-4 "Reliable Travel Time Estimation to Support Real-Time System Management Information"
- The proposals are due in the NETC Coordinator's office by September 4, 2007.



## RESEARCH HIGHLIGHTS

### PERFORMANCE & EFFECTIVENESS OF A THIN PAVEMENT SECTION USING GEOGRIDS & DRAINAGE COMPOSITES IN A COLD REGION

NETC awarded the University of Maine Orono \$150,000 for Dr. Dana Humphrey's proposal. Dr. Humphrey's research will evaluate the use of reinforcement geogrids and drainage geocomposites in thin pavement sections for use in regions with a cold, wet climate.

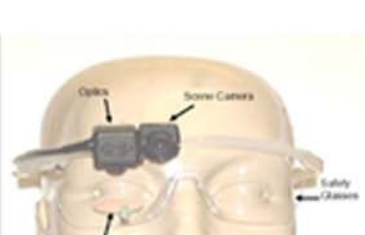


### FIELD STUDIES OF CONCRETE CONTAINING SALTS OF AN ALKENYL-SUBSTITUTED SUCCINIC ACID

NETC awarded the University of Massachusetts Amherst \$140,000 for Dr. Scott Civjan's proposal. Dr. Civjan's research will document the performance of the DSS chemical in concrete used in actual highway concrete and other precast or prestressed elements used in highway and bridge construction.

### DRIVER-EYE-MOVEMENT-BASED INVESTIGATION FOR IMPROVING WORK-ZONE SAFETY

NETC awarded the University of New Hampshire \$74,491 for Dr. Donald Fishers proposal. Dr. Fisher's research will determine how driver eye movements vary with different work zone designs and develop recommendations for more effective use of existing work zone traffic control devices.



### VALIDATING TRAFFIC SIMULATION MODELS TO INCLEMENT WEATHER TRAVEL CONDITIONS WITH APPLICATIONS TO ARTERIAL COORDINATED SIGNAL SYSTEMS

NETC awarded the University of Vermont \$74,731 for Dr. Sadek's proposal. Dr. Sadek's research explored how to best calibrate traffic simulation models to inclement weather conditions in New England and assessed the benefits of implementing such tailored timing plans.



Wet Condition



Wet & Snowy Condition



Wet & Slushy Condition



Slushy in Wheel Paths



Dr. Adel Sadek

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