



**The Center for Transportation and the Environment
North Carolina State University**

NATIONAL BROADCAST SERIES

Program No. TC-43

**Transportation and Climate
Change: Time to Think, Plan,
Mitigate, and Adapt**

**December 3, 2008
1:00 – 3:00 PM ET**

**Broadcast Live from the studios of
NC Agency for Public Telecommunications
Raleigh, North Carolina**

CTE is a USDOT University Transportation Center located at:

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CTE BROADCAST EVALUATION

Your comments and suggestions are important to us. Following the broadcast, please take a moment to complete the online evaluation form located on the CTE Website at:

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Thank you for your participation!

PROGRAM AGENDA

Transportation and Climate Change: Time to Think, Plan, Mitigate, and Adapt

December 3, 2008

1:00 – 3:00 PM ET

TIME	TOPICS	PRESENTERS	AUDIOVISUALS
1:00 – 1:05 PM	Welcome and Introductions	Jenny Noonan, US EPA	
1:05 – 1:20	Defining the Issue – the Terminology, Science, Potential Impacts, and Uncertainty	Harrison Rue ICF International	PowerPoint
1:20 – 1:30	FHWA Perspective	Robert Ritter, FHWA	PowerPoint
1:30 – 1:40	State DOT Perspective	John Zamurs, New York State DOT	PowerPoint
1:40 – 1:50	MPO Perspective	Kelly McGourty, Puget Sound Regional Council	PowerPoint
1:50 – 2:00	How & Where to Start – Strategies to Plan, Mitigate, and Adapt	Panelists	
2:00 – 2:10	Break		
2:10 – 2:55	Welcome Back Discussion with Questions from Moderator and from Audience	Jenny Noonan, US EPA Panelists	
2:55 – 2:58	Closing Remarks and Thanks	Jenny Noonan, US EPA	
2:58 – 3:00	Program Credits		
3:00 PM	Program Adjourns		

You can continue the discussion from this program in the
 CTE “After the Program” discussion forum at:
<http://cte.ncsu.edu/cte/techtransfer/teleconferences/forum.asp>

PANELIST PROFILES and CONTACTS

Kelly J. McGourty

*Principal Planner, Transportation Planning Department, Puget Sound Regional Council, Seattle, WA
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The Puget Sound Regional Council (PSRC) is the metropolitan planning organization (MPO) for the Seattle/Central Puget Sound region. As principal planner for PSRC, Kelly is the lead staff member on air quality and climate change issues, and works closely with the region's federal, state and local air quality partner agencies. She also works on the region's Transportation Improvement Program (TIP), including the project selection process for distributing PSRC's federal funds. Prior to joining PSRC in 1999, Kelly worked with the MPO in Spokane, Washington, where she performed transportation and air quality modeling and analyses. Her background also includes performing environmental assessments and inspections for both a consulting firm and an urban renewal agency. Kelly has an undergraduate degree in Environmental Policy and Assessment from Western Washington University and a graduate degree in Environmental Science from the University of Texas at San Antonio.

Robert Ritter

*Team Leader, Transportation Planning Capacity Building Team, Office of Planning
Federal Highway Administration Headquarters, US Department of Transportation, Washington, DC
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The Transportation Planning Capacity Building (TPCB) program, a collaborative effort of FHWA and the Federal Transit Administration, is designed to help decision makers, transportation officials, and staff to resolve the increasingly complex issues they face when addressing transportation needs in their communities. This comprehensive program for information, training, technical assistance, and support is targeted to State, local, regional and tribal government, transit operators, and community leaders. As TPCB team leader, Rob leads community planners and transportation professionals in addressing diverse topics such as land use and transportation, climate change, travel modeling, public involvement, transportation safety, planning and environment linkages, community impact assessment, tribal planning, and many others. He also is responsible for the Office of Planning research program and the biennial Transportation Planning Excellence Awards. Prior to FHWA, Rob was director of policy activities at the Eno Transportation Foundation and responsible for identifying and highlighting leading transportation issues. By bringing together government, academic and industry representatives, Rob fostered dialogue that provided the transportation community with a better understanding of multifaceted topics such as intermodal freight issues, understanding global climate change and the question of induced demand. He has successfully managed diverse project teams addressing complex, high profile and sensitive multi-modal transportation projects requiring coordination with various state, federal and local agencies, elected officials; and the general public. Rob is a licensed professional engineer and certified planner with experience in both private and public transportation agencies.

Harrison Rue

*Principal, ICF International, Research Triangle Park, NC
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Harrison is a principal at ICF International with expertise in transportation policy, integrated transportation and land use planning, climate change, transit, TDM, and transit-oriented development, affordable housing and green building, and public participation and communications. Prior to joining ICF, he was executive director of the Thomas Jefferson Planning District Commission and MPO in Charlottesville, VA, a five-county agency focused on sustainable solutions to regional issues. As founding director of the

Citizen Planner Institute, Harrison created inclusive planning processes and training in sustainability, Smart Growth, and New Urbanism, and led hundreds of workshops for staff and elected officials, communities, nonprofits, and activists throughout the US. He served as a long-time board member, VP, and technical committee chair of the Association of Metropolitan Planning Organizations (AMPO), and was appointed by the US EPA Administrator to three terms on the National Advisory Council on Environmental Policy and Technology. Harrison is a member of the Virginia Governor's Commission on Climate Change, and a founding board member and technical committee chair of EarthCraft Virginia.

John Zamurs, Ph.D.

*Section Head, Air Quality and Energy Section, Environmental Science Bureau
New York State Department of Transportation, Albany, NY
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John's career with the New York State Department of Transportation spans over 25 years, where he currently heads the Air Quality and Energy Section in the Environmental Science Bureau. John holds a B.A. in meteorology from New York University and a M.S. and Ph.D. in atmospheric science from the State University of New York at Albany. John is the chair of the American Association of State Highway and Transportation Officials (AASHTO) Standing Committee on the Environment (SCOE) Air Quality, Climate Change and Energy Subcommittee, and represents NYSDOT on the Northeast Association of State Transportation Officials (NASTO) Air Quality Committee. He has been a member of the Transportation and Air Quality Committee of the Transportation Research Board, and has served on several National Cooperative Highway Research Project research panels, including some as chair. John is the DOT representative to Energy Coordinators Working Group, the staff level representative to New York's Energy Planning Board, and has written numerous papers in the transportation air quality field.

Jenny Noonan – Teleconference Moderator

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CTE is pleased to have the support of EPA and Jenny's assistance to moderate this teleconference on Transportation and Climate Change. Jenny has worked for EPA since 1997 on topics ranging from regional strategies to reduce air pollution in the Eastern US to community involvement in the PCB clean up of the Hudson River. In her current job, Jenny serves as a senior advisor to the Office Director, prepares EPA witnesses for testimony before Congress, and communicates with the public about the voluntary programs and air pollution regulations that her office issues each year. Jenny recently hosted an EPA teleconference on "Climate and Air Quality: Applications for Air Quality Professionals" which is available online at www.cte.ncsu.edu/cte/TechTransfer/Teleconferences/epabroadcasts.asp.

BROADCAST TECHNICAL INFORMATION

Transportation and Climate Change: Time to Think, Plan, Mitigate, and Adapt

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1:00 – 3:00 PM ET

To Submit Questions / Comments for Panelists

Toll Free Call-In Number	(888) 228-6736
Fax Number – please use enclosed Fax Sheet	(919) 715-3569
Email Address	cte_email@ncsu.edu Please type “TC-43” in your email subject header.
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Technical Support Contacts

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Fax To: (919) 715-3569

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Please check whether this is a comment or a question for the panelist(s).

Comment

Question for: _____

Would you like to state your question or comment on the air? ___YES ___NO
(If "YES," please write your phone number below and CTE will attempt to call you during the broadcast.)

Provide the following information.

Name: _____ Title: _____

Agency: _____

Site (City/State): _____ Phone (Current Location): _____

Fax: _____ Email: _____

Please write your question or comment in bold, legible print in the box below.

BIBLIOGRAPHY

CTE National Broadcast Program No. TC-43

Transportation and Climate Change: Time to Think, Plan, Mitigate, and Adapt

The following bibliography represents a sampling of the published literature and/or websites relating to the program topic. We hope you find these resources helpful.

Primer on Transportation and Climate Change. American Association of State Highway and Transportation Officials (AASHTO), April 2008. PDF download from the AASHTO Web site.
<http://downloads.transportation.org/ClimateChange.pdf>

This primer is intended to provide an introduction to the issue of climate change and its implications for transportation policy in the United States, based on the most recent research in the field. Its purpose is to outline the current thinking of governmental agencies, researchers, and advocacy groups on the issue of climate change and transportation.

TRB Special Report 290: The Potential Impacts of Climate Change on U.S. Transportation. Committee on Climate Change and US Transportation, Transportation Research Board, National Research Council of the National Academies, May-June 2008. Available from the TRB Web site.
http://www.trb.org/news/blurb_detail.asp?id=8794

This report provides an overview of the scientific consensus on the current and future climate changes of particular relevance to U.S. transportation, including the limits of present scientific understanding as to the timing, magnitude, and geographic location of impacts. The report also identifies potential impacts on US transportation facilities and adaptation options; and offers recommendations for both research and actions that can be taken to prepare for climate change. The report summarizes previous work on strategies for reducing transportation-related emissions of carbon dioxide. Five commissioned papers used by the committee to help develop the report, a summary of the report are available online from the Transportation Research Board Web site.

The following **Intergovernmental Panel on Climate Change (IPCC) Assessment Reports** are available online at <http://www.ipcc.ch/ipccreports/assessments-reports.htm>.

Climate Change 2007: Synthesis Report. Summary for Policymakers. IPCC, November 2007.

This is the summary of the Fourth Assessment Report prepared by the IPCC. Assessment Reports are produced at regular intervals providing comprehensive scientific, technical and socio-economic information relevant for the understanding of human induced climate change, potential impacts of climate change and options for mitigation and adaptation. The IPCC is a scientific intergovernmental body convened by the World Meteorological Organization (WMO) and the United Nations Environment Programme (UNEP).

Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. IPCC, April 2007.

This report describes GHG emissions by sector and describes a range of policies to reduce emissions. Various strategies are evaluated for their potential effectiveness. Note Chapter 5, "Transport and its infrastructure", and Chapter 13, "Policies, instruments and co-operative arrangements".

Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. IPCC, April 2007.

This report describes the vulnerabilities to various climate change impacts. Contains little specific to transportation or transportation infrastructure, but does describe general methodologies for evaluating adaptation strategies and vulnerabilities. Note Chapter 7, "Industry, settlement and society".

Integrating Climate Change into the Transportation Planning Process. Prepared by ICF International for the Federal Highway Administration, July 2008. PDF download from the FHWA Web site. <http://www.fhwa.dot.gov/hep/climatechange/climatechange.pdf>

This report explores the possibilities for integrating climate change considerations into long-range transportation planning at state DOTs and MPOs. It outlines short- and long-term strategies for addressing climate change. The report reviews the experience of a number of DOTs and MPOs that are already incorporating climate change into their transportation planning processes and identifies their successes as well as challenges faced by these agencies.

Transportation and Climate Change News. Office of Planning, Environment and Realty, FHWA. Monthly electronic newsletter. Current and previous editions of the newsletter available at the FHWA Web site. <http://www.fhwa.dot.gov/hep/climatechange/newsletter/index.htm>

This monthly newsletter includes up-to-date information on issues related to transportation and climate change. Listings include regulatory and rule-making updates, recently released reports, workshops, pilot projects, and current planning efforts across the country.

Cap and Trade. Clean Air Markets, EPA, August 2008. Documents available for download from the EPA Web site. <http://www.epa.gov/airmarkt/cap-trade/index.html>

This website provides basic information on cap and trade programs and the underlying economic principles of these market-based policy tools. Some propose using a cap and trade approach to regulating GHG emissions. Information on current cap and trade programs in the US also posted.

Impacts of Climate Change and Variability on Transportation Systems and Infrastructure: Gulf Coast Study, Phase I. Prepared by Cambridge Systematics for the USDOT Center for Climate Change and Environmental Forecasting, March 2008. PDF download from the USDOT Web site. http://climate.dot.gov/publications/impact_of_climate_change/pdf/entire.pdf

The DOT Center is partnering with the U.S. Geological Survey to undertake a multi-year research program to study how short and long-term changes in climate could affect transportation systems in the U.S. central Gulf Coast region, and how transportation decision-makers could address possible impacts. This report outlines how changes in temperature, precipitation, storm events, and other aspects of the climate could affect the nation's roads, airports, rail, transit systems, pipelines, ports, and waterways. The report focuses on potential impacts to the U.S. central Gulf Coast between Galveston, Texas, and Mobile, Alabama.

Effects of Sea Level Rise on National Transportation Infrastructure. Prepared by ICF International for the USDOT Center for Climate Change and Environmental Forecasting, August 2008. Report available for download from the USDOT Web site. http://www.climate.dot.gov/publications/potential_impacts_of_global_sea_level_rise/index.html

The study uses multiple data sources to quantify the potential impact of sea level rise on land and transportation infrastructure in coastal areas of the eastern United States. The analysis is based on (1) digital elevation models (DEMs) to describe the elevation in the coastal areas and create tidal surfaces to describe the current sea water levels; (2) land and transportation infrastructure that, without protection, will be inundated regularly by the ocean or be at risk of periodic inundation due to storm surge; and (3) statistics demonstrating the potential extent of inundated and at-risk land surge at given temporal intervals.

VISION 2040. People – prosperity – planet. The Growth Management, Environmental, Economic, and Transportation Strategy for the Central Puget Sound Region. Puget Sound Regional Council, April 2008. PDF download from the PSRC Web site.

<http://www.psrc.org/projects/vision/pubs/vision2040/index.htm>

This document is the long-range comprehensive planning document for the Puget Sound (Seattle, WA) Region. It closely links social, economic, and environmental goals. The plan includes the goal of reducing the region's overall production of elements that contribute to climate change. The region will have specific multicounty planning policies to address greenhouse gas production and climate change. *Destination 2030* is the region's long-range transportation plan, currently being updated to align with *VISION 2040*.

2002 State Energy Plan and Final Environmental Impact Statement. New York State Energy Research and Development Authority, June 2002. The 2002 plan and subsequent updates available for download from the NYSERDA website.

http://www.nysesda.org:80/Energy_Information/energy_state_plan.asp

The Energy Plan is New York State's blueprint for energy decision making. It includes strategies to position New York to take advantage of technological and market developments in the energy sector. The plan strongly connects an energy-efficient transportation system with the complementary goals of fostering economic development, improving environmental quality, and increasing overall energy efficiency. The plan was updated in 2005 and second update is underway in 2008.