



# TRB ANNUAL MEETING HIGHLIGHTS 2004

## **RENEWAL, SECURITY, FUNDING AND MORE** *2004 Annual Meeting Spotlights Research Goals and Achievements*

More than 9,000 transportation researchers, practitioners, and administrators representing government, industry, and academia from the United States and abroad gathered in Washington, D.C., January 11–15, 2004, to participate in the 83rd Annual Meeting of the Transportation Research Board. The five-day program, including more than 2,400 presentations in 500 sessions, 55 specialty workshops, 350 committee meetings, exhibits, and meet-the-author poster sessions offered attendees a variety of opportunities for information sharing and interaction. Three spotlight themes—Renewing the Transportation Infrastructure; Security: Measures That Can Make a Real Difference; and Funding: Reauthorization and Beyond—tied many of the diverse program sessions together. Details and highlights appear on the following pages.

*Annual Meeting  
photography by  
Cable Risdon  
Photography*



The Annual Meeting sessions were developed by the approximately 200 standing committees in TRB's Technical Activities Division. These committees have been reorganized into a new collection of Groups and Sections, enhancing the ability to address a variety of specific and crosscutting issues in transportation research. The TRB Technical Activities Division Council, which expanded to 11 group chairs with the reorganization, met midday Sunday (left to right): Freight Systems: Christina Casgar, U.S. DOT; Legal Resources: Brelend Gowan, California DOT; Marine: Larry Daggett, Waterway Simulation Technology, Inc.; Operations and Maintenance: Jonathan Upchurch, U.S. House of Representatives Transportation and

Infrastructure Committee; Aviation: Agam Sinha, MITRE Corporation; Planning and Environment: Neil Pedersen, Maryland State Highway Administration; Council Chair Anne Canby, Surface Transportation Policy Project; Public Transportation: Patricia McLaughlin, Moore Iacofano Golstman, Inc.; System Users: Barry Sweedler, Safety & Policy Analysis International; Design and Construction: Gale Page, Florida DOT; Policy and Organization: Katherine Turnbull, Texas Transportation Institute; Rail: Christopher Barkan, University of Illinois; Division Director Mark Norman; and Management and Leadership Section: Robert Johns, University of Minnesota.



Charles Howard, Washington State DOT (left), and Lance Neumann, Cambridge Systematics, Inc., chat before the Technical Activities Division All Chairs Meeting.



Richard Compton, National Highway Traffic Safety Administration (NHTSA), discusses risk factors for aggressive driving during a Human Factors Workshop.



Human Factors Luncheon keynote speaker Lois Thibault, U.S. Access Board, sits with Gihon Jordan, Philadelphia Department of Streets.



Planning Committee for the 37th Annual Human Factors in Transportation Workshop, which drew nearly 200 people to 9 all-day sessions (left to right): Gregory Davis, Federal Highway Administration (FHWA); Christopher Monk, NHTSA; Neil Lerner, WESTAT, Inc.; Thomas Raslear, Federal Railroad Administration (FRA); Richard Schwab, consultant; Fred Hanscom, Transportation Research Corporation; Harvey Sterns, University of Akron; Helmut Zwahlen, Ohio State University; Gihon Jordan, Philadelphia Department of Streets; Richard Pain, TRB Transportation Safety Coordinator; and Alexander Landsburg, U.S. Maritime Administration (MARAD).



Jeffrey Shane, Undersecretary of Transportation for Policy, leads administrators of the U.S. DOT in a panel discussion about the future role of the federal government in technology, transportation infrastructure renewal, financing, intermodal connectivity, freight movement, increasing productivity, aviation management, water transport, energy, and environmental programs. *From left:* Samuel

Bonasso, Research and Special Programs Administration; Jeffrey Runge, NHTSA; Mary Peters, FHWA; Annette Sandberg, Federal Motor Carrier Safety Administration; Shane; Emil Frankel, U.S. DOT; Allan Rutter, FRA; Jennifer Dorn, Federal Transit Administration (FTA); Deputy Administrator Robert Sturgell, Federal Aviation Administration (FAA); William Schubert, U.S. MARAD.



A well-attended session, presided over by Barbara Sisson, FTA, featured discussion on the importance of cost-benefit analysis in selecting the appropriate technology for transit bus applications. Participants described the decision-making process involved in selecting transit technology to meet a system's operational and business needs. The session highlighted current FTA efforts to compile information and insights from the bus rapid transit initiative that can help local planners and officials contemplating BRT for solving local community transportation problems.



Staff members from the U.S. House of Representatives and the U.S. Senate provided their prognostications on when reauthorization of federal-aid transportation programs may arrive, what it may include, and issues that will need to be addressed. Jeff Squires, Senate Environment and Public Works Committee; Sarah Kline, Senate Banking Committee; and Debbie Hersman, Senate Commerce Committee, share a light moment during the panel discussion. (Not pictured: House Transportation and Infrastructure Committee staff members Jonathan Upchurch, presiding, Clyde Woodle, and Joyce Rose.)



(Left to right): Richard de Neufville, Massachusetts Institute of Technology (MIT); Jasenka Rakas, University of California–Berkeley, presiding; Agam Sinha, MITRE Corporation; Herman Rediess, FAA; and Robert Jacobsen, National Aeronautics and Space Administration, examine present and future aviation research and development. The renewal spotlight session focused on worldwide airport design challenges, new technologies, and methodologies and concepts developed for the National Airspace System.



Doctoral Student Research in Transportation Geotechnics Workshop provided recent and upcoming geotechnical Ph.D. students the opportunity to showcase their research. Yanfeng Li, Texas A&M University, presents his paper, “Breakaway Cable Terminal as a New Instrument for Quick Evaluation of Compaction.”



William Withuhn, Smithsonian Institution, presides over a session recognizing the centennial achievements of American Automobile Association, Ford, Buick, and Harley-Davidson. Presenters examined the innovations in transportation that propelled these organizations at the beginning of the last century.



The Blue Ribbon Panel on Bridge and Tunnel Security presented strategies for improving security after September 11, 2001, and offered design guidance for highway bridge and tunnel infrastructure: (left to right) John Gerner, FHWA; Jeremy Isenberg, Weidlinger Associates; Henry Hungerbeeler, Missouri DOT; James Roberts, consultant; Joseph Englot, Port Authority of New York and New Jersey; John Kulicki, Modjeski and Masters, Inc.; George Clendenin, Virginia DOT; James Cooper, consultant; Steven Ernst, FHWA; Mary Lou Ralls, Texas DOT; and Harold Rogers, Jr., Pennsylvania DOT.



From left: William Black, National Security Agency; Daniel O’Neil, CRADA International, Inc., presiding; Robert Gallamore, Northwestern University; and Yacov Y. Haimes, University of Virginia, participate in spotlight workshop designed to raise awareness about cyberterrorism and cybersecurity by examining information assurance and the interdependencies of transportation modes. The workshop concluded with an interactive forum to identify current initiatives and options available to the transportation community. (Not pictured: Lindor Henrickson, Science Applications International Corporation, presiding.)



Alfonso Martinez-Fonts, Jr., U.S. Department of Homeland Security, discusses cost-benefit analysis of hazardous materials transportation security at a session on Wednesday.



Alternative freight corridor planning, development, funding, and management are rapidly emerging freight issues; however, the tools available to support the development of alternative corridors are still in the early stages of development. Emil Frankel, U.S. DOT, discusses efforts to fund alternative freight capacity, including rail and water options, during a funding spotlight session.



Roger Clarke, Alberta Vehicle Safety and Carrier Services, Canada, discusses international examples of motor carrier safety during a session on efforts at self-regulation in the trucking industry.



Panelists for session addressing freight-community relations, (left to right): Steven Eisenach, Norfolk Southern Corporation; Anne Strauss-Wieder, consultant; Stacey Jones, Port of Los Angeles; Margaret Campbell Jackson, Howard/Stein-Hudson Associates, presiding; Richard Hollingsworth, Gateway Cities Partnership, Inc.



Conrad Ruppert, Amtrak, speaks about track upgrade for high-speed and heavy-axle load trains at a session on advances in railway design, construction, and maintenance. Other rail sessions focused on railroad investment, particularly public investment in private rail infrastructure.



Toshiyuki Yokota, World Bank, presents research on "Roadside Rest Areas: Road Infrastructure to Raise Regional Economy and Empower Communities," during a session on Traffic Operations and Design in Asia.



A panel of National Transportation Safety Board officials discussed a list of most-wanted safety improvements, including medical certification of commercial vehicle operators, increasing bus crashworthiness, positive train control, enhanced vehicle recording devices, preventing runway incursions, and reducing hard-core drinking and driving. Panelists included (from left): Joe Osterman, Sandy Rowlett, Bob Chipkevich, Chairman Ellen Engleman Conners, Kevin Quinlan, and Jim Cash. (Not pictured is Mitchell Garber.)



Govert Sweere, Netherlands Ministry of Transport, presides over session on innovations in pavement rehabilitation and maintenance. Other topics covered in Pavement Management sessions included rigid and flexible pavement design, pavement strength and deformation characteristics, pavement monitoring and evaluation, and pavement surface properties.

## POSTERS &



Meeting participants peruse the exhibit for Rutgers University's Center for Advanced Infrastructure & Transportation, detailing multimodal transportation infrastructure systems research.



The Exhibit Hall at the Marriott housed recent research projects and products of TRB sponsors and sustaining affiliates. Above: the American Association of State Highway and Transportation Officials (AASHTO) publications exhibit.



The National Crash Analysis Center, a collaborative effort between George Washington University, FHWA, and NHTSA, showcases automotive and highway research at its exhibit.



Hiromitsu Yajima, Institute of Behavioral Sciences, shares his research, "Yokohama North-West Corridor Project," with Linda Weaver Beacham, Schemmer Associates, during the Public Involvement Poster Session at the Shoreham.

Meet-the-Author Poster Sessions at all three hotels provided participants with an opportunity to interact with authors in a more personal setting than the conventional lecture. Above: The well-attended Environmental Mega Poster Session at the Washington Hilton. Below: Mark Muriello, Port Authority of New York and New Jersey, explains traffic management results from value toll pricing.



# INTERSECTIONS



From left: David Boyce, Northwestern University, meets with Natacha Thomas and Xiaozhao Lu, University of Rhode Island.



From left: Public Transportation Section Chair Patricia McLaughlin, Moore Iacofano Golstman, Inc., provides information about TRB committees to MIT students Michael Hanowsky and James Sorensen.



First-ever undergraduate recipient of the Eisenhower Grant, Jason West, University of Texas—San Antonio, meets with Jeff Keaton, AMEC Earth & Environmental, Inc. and Chair of Geology and Properties of Earth Materials Section, during the New and Young Attendees Welcome and Networking Reception. After a short presentation on how to navigate the meeting, newcomers mingled with committee chairs present.



Colleagues page through Annual Meeting Final Program to strategize which sessions to attend.



Vijay Kornala, Kansas State University, reviews recruitment materials with Jeffrey Smithline, URS Corporation, in the Employment Room in the Marriott.



From left: James Bonneson, Texas Transportation Institute (TTI); Jake Kononov, Colorado DOT; and Karl Zimmerman, TTI; view research on a laptop.



Andreia Simoes and Margarida Coelho of Portugal read through materials before the New and Young Attendees Welcome and Networking Reception.



James Crites, Dallas—Fort Worth International Airport (right), talks with TRB Senior Program Officer Thomas Menzies, during the Aviation Chairs Lunch on Tuesday.

## CHAIRMAN'S LUNCHEON

The program for the Chairman's Luncheon, hosted by 2003 Executive Committee Chair Genevieve Giuliano, included the introduction of new Executive Committee members and officers, an address by featured speaker David Billington, Princeton University, and presentation of TRB's most prestigious awards.



E. Dean Carlson, Carlson Associates, accepted the W.N. Carey, Jr., Distinguished Service Award for his outstanding leadership and service to transportation research and to TRB. Throughout his career, the former FHWA Executive Director and Kansas Secretary of Transportation has championed the importance of research in improving the performance, cost effectiveness, and safety of the nation's highway system. A strong supporter of TRB programs, Carlson has been active in TRB for more than 20 years and served as Executive Committee Chair in 2002. He has contributed to both the original and Future Strategic Highway Research Program. He was elected to the National Academy of Engineering in 2001.



Alan Altshuler, Harvard University, received the Roy W. Crum Distinguished Service Award for his significant contributions to research on transportation planning and policy. A noted political scientist, Altshuler served as Massachusetts' first Secretary of Transportation and Construction. Through his seminal books, such as *The City Planning Process*, *The Urban Transportation System: Politics and Policy Innovation*, and

*Mega-Projects: The Changing Politics of Urban Public Investment*, he has cast new light on the transportation decision-making process. He served on the TRB Executive Committee from 1985 to 1988.



Shirley Clair McCall, Cardozo Senior High School, Washington, D.C., was honored with the Sharon D. Banks Award for Innovative Leadership in Transportation for her outstanding accomplishments in transportation education. McCall coordinates the Transportation and Technology Academy (TransTech) at Cardozo in an effort to encourage inner-city students to consider higher

education, employment, and careers in transportation. TransTech provides students with mentoring, summer internships, regular student work assignments, and career development activities. McCall, who helped found TransTech in 1991, has set high academic standards; 85 percent of the more than 200 students who have completed the program have gone to college.

## Princeton Engineering Professor Provides a Lesson in Bridge Design

David Billington, Gordon Y. S. Wu Professor of Engineering at Princeton University, presented a multimedia lecture on the history and aesthetics of bridge design as the featured speaker at the Chairman's Luncheon. Billington employed a lively slide show and a quick wit to narrate bridge construction during the past 250 years. He urged the continued use of innovative design and construction techniques and called on attendees to view bridges as works of art.

Billington has served as a member of the Princeton faculty for more than 40 years and as director of the university's Program on Architecture and Engineering since 1990. A pioneering educator and author, Billington has taught undergraduate and graduate courses in structures to engineers and architects and has introduced three permanent introductory courses on engineering at Princeton. One of these, Structures and the Urban Environment, has been offered regularly since 1974 and frequently has had the highest enrollment of any course offered by the School of Engineering and Applied Science, attracting large numbers of liberal arts students. This course, which was the basis of his lecture, considers structural engineering as an art form parallel to, but independent from, architecture.

His lectures and teaching exhibitions have earned him national and international recognition. The title of one of the teaching exhibits neatly summarized Billington's main theme: The Interaction of Engineering and Politics Has Transformed the United States over the Past 250 Years. This theme has unfolded in a series of major books, including *The Tower and the Bridge: The New Art of Structural Engineering*, *The Innovators: The Engineering Pioneers Who Made America Modern*, three books on the work of Robert Maillart, and *The Art of Structural Design: A Swiss Legacy*. Billington is widely recognized for his contributions to the design of thin-shell concrete structures, the subject of an early book.

Recipient of many awards, Billington received the National Science Foundation Director's Distinguished Teaching Scholar Award in 2003. He was elected to the National Academy of Engineering in 1986, and more recently was elected a Fellow of the American Academy of Arts and Sciences, an Honorary Member of the American Society of Civil Engineers, and an Honorary Member of the American Concrete Institute.



David Billington met personally with Cardozo Senior High School students in the TransTech program. Their program coordinator, Shirley McCall, 2003 recipient of the Banks Award, is in the background, left.



From left: 2003 Woods Award winners McVay, Consolazio, and Lehr; 2003 Burggraf Award winner Vandembossche; Technical Activities Council Chair Anne Canby; 2003 TRB Executive Committee Chair Genevieve Giuliano; and 2003 Mickle Award winners Lord, Lyon, McGee, and Persaud.

## Award-Winning Papers in Print

During the Chairman's Luncheon, awards were presented to the outstanding papers published in the 2003 series of the *Transportation Research Record: Journal of the Transportation Research Board*. The K.B. Woods Award for the outstanding paper in the field of design and construction of transportation facilities was presented to Gary Consolazio, G. Benjamin Lehr, and Michael McVay of the University of Florida for their paper, *Dynamic Finite Element Analysis of Vessel-Pier-Soil Interaction During Barge Impact Events*. Published in *Transportation Research Record No. 1849*, the paper describes dynamic tests for computing lateral impact loads necessary for highway bridge design.

The Fred Burggraf Award recognizes excellence in transportation research by researchers 35 years of age or younger whose papers have been published under the sponsorship of any Technical Activities Division standing committee. The 2003 recipient, Julie Vandembossche, University of Pittsburgh, authored *Performance Analysis of Ultrathin Whitetopping Intersections on US-169: Elk River, Minnesota*, published in *Transportation Research Record No. 1823*. The study endorsed ultrathin whitetopping as a viable option when the hot-mix asphalt maintains uniform thickness and there is no sign of stripping and raveling.

The D. Grant Mickle Award for the outstanding paper in the field of operation, safety, and maintenance of transportation facilities was presented to Bhagwant Persaud, Ryerson University; Hugh McGee, Bellomo McGee, Inc.; Craig Lyon, Ryerson University; and Dominique Lord, Texas A&M University, for their paper, *Development of a Procedure for Estimating Expected Safety Effects of a Contemplated Traffic Signal Installation*. Published in *Transportation Research Record No. 1840*, the paper describes a process for improving safety warrants for the installation of traffic signals and examines the impact of safety issues on the decision-making process.



**HONORING A FRIEND**—Lester Hoel, University of Virginia, with wife, Unni, and daughter, Sonja, at the Executive Committee reception honoring him as outgoing TRB Division Chair for National Research Council (NRC) Oversight. In his many contributions to TRB spanning more than 35 years, Hoel has served as Technical Activities Council Chair, Executive Committee Chair, and as a member or chair of more than 30 committees and panels. He spent an unprecedented nine years as chair of the TRB Executive Committee's Subcommittee for NRC Oversight. In that position, Hoel handled a large volume of committee and panel approvals and reports requiring review, with characteristic depth, detailed understanding, and good humor.

## Jones Delivers Resounding Support for Context-Sensitive

The 13th recipient of the Thomas B. Deen Distinguished Lectureship, Richard Jones, retired Federal Highway Administration (FHWA) Regional Counsel, addressed the issue of tort liability concerns in context-sensitive design, January 12, 2004. Jones's lecture supported the context-sensitive design philosophy, which has been described as among the most significant concepts to emerge in highway project planning, design, and construction in recent years.

Context-Sensitive Design: Will the Vision Overcome Liability Concerns? examined the continuing concern that flexing design standards and guidelines would increase exposure to tort liability, because safety would be compromised. Jones, who retired in 1994 as FHWA's Counsel for Region 8 (Denver, Colorado), concluded that the vision of design excellence invoked by context-sensitive design principles will overcome the threat of liability.

What is envisioned is a process that results in a transportation project reflecting community consensus on purpose and need, with project features addressing equally: safety, mobility, and preservation of scenic, aesthetic, historic, and environmental resources. It involves policy judgments in the balancing of competing interests, Jones observed. Supporting his claim, he noted that Congress has established public policy clearly demonstrating that safety, a primary consideration in design, should be balanced with mobility, protection, and enhancement of the natural environment and preservation of community values.

I suggest that such public policy, because it reflects the public interest, will influence changes in tort law to better accommodate [context-sensitive design] processes, reducing liability exposure in both the short term and the long term, Jones explained. Solid documentary evidence, showing that context-sensitive design decisions involve a conscious balancing of public policy factors, is necessary to win favorable appellate decisions in the long term and individual cases in the short term, Jones maintained. The evidence will establish design immunity or explain and prove the reasonableness of design decisions based on the context within which they were made.

The lecture will be published in a volume of the 2004 series of the *Transportation Research Record: Journal of the Transportation Research Board*.

During his nearly 30 years with FHWA, Jones was involved in high-visibility legal activities, including litigating tort liability issues. As Regional Counsel, he served as the principal legal adviser for the six-state Federal Aid Highway program region, the six-state Office of Motor



Jones: "Reflecting Community Consensus."

Carriers region, and the Central Federal Lands Division, representing the agency's Chief Counsel in all legal matters including litigation arising from program, prosecutorial, and procurement activities. One of Jones' primary roles was to assure compliance with environmental requirements under the National Environmental Policy Act and other federal statutes and regulations protecting the natural and human environment. He was responsible for the legal sufficiency review of environmental impact statements for highway projects.

Since retiring from FHWA, Jones has served as a legal and transportation consultant, specializing in compliance with environmental requirements and in issues arising from highway transportation projects, including those on American Indian lands. He has served as special counsel for several megaprojects in Colorado; has advised on legal aspects of a World Bank—FHWA study on India's National Highway System; and has authored five articles for the National Cooperative Highway Research Program's Continuing Legal Research project.

The Thomas B. Deen Distinguished Lectureship is an annual award that recognizes the career contributions and achievements of an individual in one of the areas covered by TRB's Technical Activities Division. Honorees are provided the opportunity to present an overview of their technical area, including its evolution, present status, and prospects for the future.

## EXECUTIVE COMMITTEE SESSIONS

### Townes Guides 2004 Executive Committee

Michael Townes, President and Chief Officer of Hampton Roads Transit, Virginia, received the gavel as the 2004 Chair of the TRB Executive Committee from his predecessor Genevieve Giuliano during the Chairman's Luncheon.

A 20-year veteran leader in public transportation, Townes has been active in TRB for many years. He chaired the Transit Cooperative Research Program (TCRP) Oversight and Project Selection Committee and has served on several TCRP project panels. He also chaired the TRB Committee for the National Transit Database Study and has contributed his expertise to several other policy study committees. A member of the TRB Executive Committee since 2000, Townes serves on its Subcommittee for National Research Council Oversight and the Subcommittee on Planning and Policy Review.

Townes currently is a member of the Board of Directors of the Virginia High-Speed Rail Development Committee and is Chairman of the Norman Mineta Transportation Institute Board of Trustees and of the American Public Transportation Association's (APTA) Legislative Committee. In 1999, Townes was selected as the first president and chief executive officer of Hampton Roads Transit, a consolidated commission formed after the merger between the Peninsula Transportation District Commission (PENTRAN) and the Tidewater Transportation District Commission. While Townes was executive director of PENTRAN, the commission was honored with Virginia's Outstanding Public Transportation System Achievement Award and the APTA Public Transportation System Outstanding Achievement Award.

TRB's Vice Chair for 2004 is Joseph Boardman, Commissioner of New York State DOT.



2004 Executive Committee Chair Michael Townes hugs his predecessor Genevieve Giuliano following the gavel presentation at the close of the Chairman's Luncheon.



TRB Senior Program Officer Anne Brach discusses the Future Strategic Highway Research Program; an interim plan was outlined in NCHRP Report 510.



Cooperative Research Programs Director Robert Reilly (left), with Catherine Ross, Georgia Institute of Technology, responds to a question about program expansion.



2000 Executive Committee Chair Martin Wachs, University of California-Berkeley, offers insights during the TRB Executive Committee Winter Business Meeting.



The TRB Executive Committee Subcommittee for National Research Council Oversight works to ensure that TRB committee appointments and reports conform to high standards of the National Academies (left to right): Executive Director Robert Skinner, Jr.; C. Michael Walton, University of Texas-Austin (Subcommittee Chair); 2004 Executive Committee Vice Chair Joseph Boardman, New York State DOT; 2003 Chair Genevieve Giuliano, University of Southern California; 2004 Chair Michael Townes, Hampton Roads Transit; Associate Executive Director Suzanne Schneider; and John Craig, Nebraska Department of Roads.

## EXECUTIVE COMMITTEE SESSIONS



The Executive Committee policy session focused on the interrelationship between global climate change and transportation. Expert panelists included (left to right) Michael MacCracken, Climate Institute, who assessed research on “The State of Climate Change Science”; Virginia Burkett, U.S. Geological Survey National Wetlands



Research Center, who discussed the “Potential Impacts of Climate Change and Variability on Transportation in the Gulf Coast/Mississippi Delta Region”; George Eads, Charles River Associates, Inc., who detailed “The Transportation Community’s Options for Reducing Greenhouse Gas Emissions: Economic and Political

Constraints”; and Lee Schipper, the World Resources Institute Center for Transport and the Environment, who presented his research, “Looking at the CO<sub>2</sub>/Transport Problem Through the Right End of the Telescope: A Challenge to the Nontransportation Community.”



AASHTO President John Njord, Utah DOT, is one of the seven new members of the Executive Committee, along with Douglas Duncan, FedEx Freight; James Hertwig, Landstar Logistics, Inc.; Sue McNeil, University of Illinois–Chicago; Philip Shucet, Virginia DOT; C. Michael Walton, University of Texas–Austin; and Linda Watson, Corpus Christi Regional Transportation Authority.

### Leaders at Work



Anne Canby, Chair of the Technical Activities Council, holds an informal meeting in the lobby of the Shoreham.



TRB Executive Director Robert Skinner, Jr., converses with Anthony Kane, Director of Engineering and Technical Services for AASHTO Committees.

## EMERITUS MEMBERSHIP

TRB's emeritus membership category recognizes the significant, long-term contributions of individuals who have provided exemplary leadership and service on the Board's standing committees. The 2004 group of honorees, recognized at the Annual Meeting, are listed below.

### **Technical Activities Council**

**Kumares C. Sinha**  
International Activities

Structural Fiber-Reinforced  
Plastics  
**Billy G. Connor**  
Frost Action

### **Policy and Organization**

**Elizabeth A. Deakin**  
Transportation and Land  
Development

**Braja M. Das**  
Chemical and Mechanical  
Stabilization

### **Harvey Knauer**

Transportation-Related Noise  
and Vibration

**Barry J. Dempsey**  
Subsurface Drainage

### **Frank S. Koppelman**

Passenger Travel Demand  
Forecasting

**Deborah J. Goodings**  
Modeling Techniques in  
Geomechanics

### **Abba G. Lichtenstein**

Historic and Archeological  
Preservation in Transportation

**William H. Hansmire**  
Tunnels and Underground  
Structures

### **Alan E. Pisarski**

Urban Transportation Data and  
Information Systems

**Lynne H. Irwin**  
Low-Volume Roads

### **Gordon A. Shunk**

Transportation Planning  
Applications

**Dennis M. Labelle**  
Utilities

### **Douglas L. Smith**

Environmental Analysis in  
Transportation

**R. Gordon McKeen**  
Engineering Behavior of  
Unsaturated Soils

### **Darwin G. Stuart**

Transportation Programming,  
Planning, and Systems  
Evaluation

**Edward G. Nawy**  
Properties of Concrete

### **S. Ling Suen**

Accessible Transportation and  
Mobility

### **Thomas L. Weck**

Environmental Analysis in  
Transportation

### **Planning and Environment**

**David J. Forkenbrock**  
Transportation and Economic  
Development

### **Design and Construction**

**Craig A. Ballinger**



Richard Miller, Chair of the Committee on Properties of Concrete (right), honors the long-term contributions of Edward Nawy.

**A. Keith Turner**  
Engineering Geology

**Thomas J. Yager**  
Surface Properties, Vehicle  
Interaction

**Ken F. Kobetsky**  
Traffic Control Devices

**Roger E. Smith**  
Pavement  
Management

**Thomas F. Zimmie**  
Physicochemical Phenomena  
in Soils

**Yash Paul Virmani**  
Corrosion

### **Operations and Maintenance**

**Daniel Brand**  
Intelligent Transportation  
Systems

### **Legal Resources**

**Richard W. Bower**  
Transportation Law

**John W. Bugler**  
Sealants and Fillers for Joints  
and Cracks

### **System Users**

**John W. Palmer**  
Operator Education  
and Regulation

### **Public Transportation**

**Jack W. Boorse**  
Light Rail Transit

**Donald O. Eisele**  
Light Rail Transit

**Thomas F. Larwin**  
Light Rail Transit

**Roy E. Lave**  
Paratransit

**Walter E. Zullig, Jr.**  
Commuter Rail  
Transportation

### **Aviation**

**John W. Fischer**  
Aviation Economics  
and Forecasting

**Norman D. Witteveen**



Engineering Geology Chair Thomas Badger, Washington State DOT (left), with emeritus member A. Keith Turner, Colorado School of Mines.