

# Appendixes



Meeting of the Advisory Panel for the OTA assessment of Approaches to Wetlands Use. Seated at the head table (top of photo) are Robert Niblock, Manager of OTA Programs on Oceans and Environment; William Barnard, OTA Project Director of the Wetlands Assessment; William H. Patrick, Jr., Chairman of the Advisory Panel and Director of the Laboratory for Wetland Soils and Sediment, Louisiana State University; and John Andelin, Jr., Assistant Director, OTA Division of Science, Information, and Natural Resources. The Advisory Panel includes representatives from industry, academia, State and local government, and environmental groups

## Appendix A

### List of Advisors and Panel Members

#### ENERGY, MATERIALS, AND INTERNATIONAL SECURITY DIVISION

##### Energy Program

<p style="text-align: center;"><b>Industrial and Commercial Cogeneration Advisory Panel</b></p> <p><b>James J. Stukel</b>, <i>Chairman</i> Director Public Policy Program College of Engineering University of Illinois</p> <p><b>Roger Blobaum</b> Roger Blobaum &amp; Associates</p> <p><b>William H. Corkran</b> General Manager The Easton Utilities Commission</p> <p><b>Claire T. Dedrick</b> Air Resources Board State of California</p> <p><b>Steven Ferrey</b> Energy Counsel National Consumer Law Center, Inc.</p> <p><b>Todd La Porte</b> Institute of Government Studies University of California</p> <p><b>Evelyn Murphy</b> c/o Evelyn Murphy Committee</p> <p><b>Theodore J. Nagel</b> Senior Executive Vice President American Electric Power Service Corp.</p> <p><b>Thomas W. Reddoch</b> Oak Ridge National Laboratory</p> <p><b>Bertram Schwartz</b> Senior Vice President Consolidated Edison Co. of New York</p> <p><b>Harry M. Trebing</b> Director, Institute of Public Utilities Michigan State University</p> <p><b>Thomas F. Widmer</b> Vice President Engineering Thermo Electron Corp.</p> <p><b>Robert H. Williams</b> Center for Environmental Studies Princeton University</p> <p style="text-align: center;"><b>The Energy Efficiency of Buildings in Cities Advisory Panel</b></p> <p><b>William Reilly</b>, <i>Chairman</i> Conservation Foundation</p>	<p><b>Francis Hooks Burr</b> Attorney, Ropes &amp; Gray</p> <p><b>Vernon Friason</b> F &amp; H Services</p> <p><b>Lenneal Henderson</b> Howard University</p> <p><b>Michael Hogan</b> Hogan Associates</p> <p><b>George Latimer</b> Mayor, City of St. Paul</p> <p><b>Hewitt Lovelace</b> Public Safety Director</p> <p><b>Neal R. Peirce</b> Contributing Editor National Journal</p> <p><b>George Peterson</b> Director of Public Finance The Urban Institute</p> <p><b>John H. Robson</b> Vice President Marquette Fuels, Inc.</p> <p><b>Terry L. Sinnott</b> Commercial Sales Manager San Diego Gas &amp; Electric</p> <p><b>Victoria J. Tschinkel</b> Secretary Department of Environmental Regulation State of Florida</p> <p><b>James A. Walker</b> Commissioner Energy Resources Conservation and Development Commission Office of the Commissioners</p> <p><b>Joseph E. Widmayer</b> Executive Vice President Complete Building Services, Inc.</p> <p style="text-align: center;"><b>Industrial Energy Use Advisory Panel</b></p> <p><b>Herbert Fusfeld</b> Director Center for Science and Technology Policy New York University</p> <p><b>E. Milton Bevington</b> President Servidyne, Inc.</p>
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Harold Bogart  
Carlton Burt  
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Environmental Policy Institute  
William Cunningham  
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Dow Chemical Co.  
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Harvey Morris Associates  
John Myers  
Department of Economics  
Southern Illinois University  
Rudolph G. Penner  
Resident Scholar  
American Enterprise Institute  
R. B. Pool  
Kaiser Aluminum & Chemicals Corp.  
Rosalie Wolf  
International Paper Co.  
  
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Inland Steel Co.  
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Jerry Houck  
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Joe Kotelchuck  
Roy Leidner  
Bethlehem Steel Corp.  
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George Dilworth  
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Linn Draper  
Gulf States Utilities  
Fritz Heimann  
General Electric Co.  
Leonard Hyman  
Merrill Lynch, Pierce, Fenner & Smith  
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● Attended both workshops.

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 Sam Wells  
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 The Wilson Center  
 Smithsonian Institution  
 William L. Weirich  
 Medical Advisor  
 Hospital Corp. of America

MX Missile Basing Advisory Panel  
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 Air Force Association  
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 Professor and Deputy Director  
 Stanford Linear Accelerator Center  
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\* Ex-officio member from the OTA Technology Assessment Advisory Council.

**Jerome Wiesner\***  
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## Materials Program

<p><b>Nonnuclear Industrial Hazardous  Waste Advisory Panel</b></p> <p><b>Sam Gusman, <i>Chairman</i></b>  <b>Senior Associate</b>  <b>Conservation Foundation</b></p> <p><b>David Boltz</b>  <b>Director, Solid Waste Control</b>  <b>Environmental Control Division</b>  <b>Bethlehem Steel Corp.</b></p> <p><b>Frank Collins*</b>  <b>Physical Chemist and Consultant</b>  <b>Oil, Chemical &amp; Atomic Workers</b>  <b>International Union</b></p> <p><b>Stacy Daniels</b>  <b>Environmental Sciences Research</b>  <b>Laboratory</b>  <b>Dow Chemical, U.S.A.</b></p> <p><b>Jeffrey Diver</b>  <b>Senior Environmental Counsel</b>  <b>Waste Management, Inc.</b></p> <p><b>Philippa Foot</b>  <b>Department of Philosophy</b>  <b>University of California, Los Angeles</b></p> <p><b>Morton Friedman</b>  <b>Director, Research</b>  <b>Hazardous Waste and Resource Recovery</b>  <b>N.J. Department of Environmental</b>  <b>Protection</b></p> <p><b>Thomas H. Goodgame</b>  <b>Director of Corporate Environmental</b>  <b>Control</b>  <b>Research and Engineering Center</b>  <b>Whirlpool Corp.</b></p> <p><b>Diane Graves</b>  <b>Conservation Chairman</b>  <b>N.J. Chapter of the Sierra Club</b></p> <p><b>Rolf Hartung</b>  <b>School of Public Health</b>  <b>University of Michigan</b></p> <p><b>Robert L. Judd</b>  <b>Director</b>  <b>Office of Appropriate Technology</b></p>	<p><b>Kenneth S. Kamlet</b>  <b>Director, Pollution and Toxic</b>  <b>Substances Division</b>  <b>National Wildlife Federation</b></p> <p><b>Terry Lash</b>  <b>Science Director</b>  <b>Scientists' Institute for Public Information</b></p> <p><b>David Lennett</b>  <b>Attorney</b>  <b>Environmental Defense Fund</b></p> <p><b>Joe J. Mayhew</b>  <b>Manager of Solid Waste Programs</b>  <b>Chemical Manufacturers Association</b></p> <p><b>Randy Mott</b>  <b>Attorney</b>  <b>Hazardous Waste Treatment Council</b></p> <p><b>John M. Mulvey</b>  <b>Director of Engineering Management</b>  <b>Systems</b>  <b>Princeton University</b>  <b>School of Engineering/Applied Science</b></p> <p><b>Delbert Rector</b>  <b>Chief, Environmental Services Division</b>  <b>Michigan Department of Natural</b>  <b>Resources</b></p> <p><b>Gerard Addison Rohlich</b>  <b>LBJ School of Public Affairs</b>  <b>University of Texas at Austin</b></p> <p><b>Reva Rubenstein</b>  <b>Manager of the Institute of Chemical</b>  <b>Waste Management</b>  <b>National Solid Wastes Management</b>  <b>Association</b></p> <p><b>Bernard Simonsen</b>  <b>Vice President</b>  <b>IT Corp.</b></p> <p><b>George M. Woodwell</b>  <b>Director of the Ecosystems Center</b>  <b>Marine Biological Laboratory</b></p>
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● Resigned Sept. 30, 1982.

Wood: The Material, The Resource  
Advisory Panel

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Dean  
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## HEALTH AND LIFE SCIENCES DIVISION

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## Food and Renewable Resources Program

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Lester Thurow  
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Massachusetts Institute of Technology  
George H. Tomlinson, II  
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Wetlands Advisory Panel

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Sea Pines Co.  
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Wildlife Management Institute  
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University of Massachusetts  
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Port of Grays Harbor  
Jay A. Leitch  
Department of Agricultural Economics  
North Dakota State University  
Ralph Manna, Jr.  
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Department of Environmental  
Conservation  
William Manning  
Louisiana Land & Exploration Co.  
Eric Metz  
California Coastal Commission  
Mark Rey  
National Forest Products Association  
Laurence Sirens  
President  
Maryland Waterman's Association  
Hobart G. Truesdell, 11  
President, First Colony Farms  
Daniel E. Willard  
School of Public and  
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National Wetlands Technical "Council

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Center for Environmental Studies  
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John R. Clark Hickory Landing Beatrice H. Holmes Environmental Law Institute John A. Kadlec Department of Wildlife Biology Utah State University Jon A. Kusler Chester, Vt. Joseph S. Larson Chairman, Department of Forestry and Wildlife Management University of Massachusetts Orie L. Loucks The Institute of Ecology Butler University William A. Niering Biology Department Connecticut College Eugene P. Odum Center for Ecology University of Georgia J. Henry Sather Malcomb, Ill. Gilbert F. White Institute of Behavioral Science University of Colorado Assessment of Maritime Trade and Technology Advisory Panel Leslie Kanuk, <i>Chairman</i> Professor of Marketing Baruch College Vera Alexander Director, Division of Marine Science University of Alaska Richard F. Brunner Senior Operating Officer Avondale Shipyards, inc.	Paul J. Burnsky President Metal Trades Department AFL/CIO H. Clayton Cook, Jr. Partner Cadwalader, Wickersham, & Taft J. P. Elverdin President Navies Corp. Peter J. Finnerty Vice President for Public Affairs Sea-Land Industries Jack Goldstein Vice President and Economist Overseas Shipholding Group, Inc. R. J. Lowen President Masters, Mates & Pilots of America C. M. Lynch President ARCO Marine Inc. David L. Pearson Chief of Engineering General Dynamics Corp. Eugene K. Pentimonti Vice President, Engineering American President Lines, Ltd. Paul F. Richardson Paul F. Richardson Associates, Inc. John P. Scally Manager of Export Transportation General Electric Co. Lawrence A. Smith President Lockheed Shipbuilding Co.
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## Space, Transportation, and Innovation Program

Space Science Research in the United States  <i>Workshop Attendees</i> John W. Townsend, Jr., <i>Chairman</i> President Fairchild Space & Electronics Co. Alastair G. W. Cameron Harvard College Observatory Thomas M. Donahue Department of Atmospheric and Ocean Sciences University of Michigan	Herbert Friedman National Academy of Sciences Riccardo Giacconi Space Telescope Science Institute Johns Hopkins University Louis J. Lanzerotti Bell Laboratories Robert M. MacQueen High Altitude Observatory National Center for Altitude Research Harold Masursky Astrogeologic Studies U.S. Geological Survey
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Frederick Scarf  
 TRW Systems  
 Erick O. Schonstedt  
 Schonstedt Instrument Co.  
 Bradford A. Smith  
 Department of Planetary Sciences  
 University of Arizona  
 Edward C. Stone, Jr.  
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 James A. Van Allen  
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 University of Iowa  
 A. Thomas Young  
 Vice President for Research and  
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 Martin Marietta Aerospace  
  
 Civilian Space Stations  
 Soviet Space *Station Activities*  
*Workshop Attendees*  
 Craig Covault  
 Aviation Week & Space Technology  
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 Associate Deputy Administrator  
 National Aeronautics and  
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 Merton Davies  
 The Rand Corp.  
 Ed Ezell  
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 Smithsonian Institution  
 John R. Hilliard  
 Air Force Systems Command  
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 McDonnell Douglas Astronautics  
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 The Analytic Sciences Corp.  
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 American Broadcasting Co.  
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 Corporate Planning & Development  
 General Electric Co.  
 Arnold Frutkin  
 Director, Market Development  
 Pacific-Canada Division  
 The Burroughs Corp.  
 Eilene Galloway  
 Honorary Director  
 International Institute of Space Law of  
 the  
 International Astronautical  
 Federation  
 Ivan Getting  
 Consultant

Jerry Grey  
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 American Institute of Aeronautics and  
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 Center for Earth and Planetary Physics  
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 Chairman and Chief Executive Officer  
 E G & G, Inc.  
 Thomas O. Paine  
 President and Chief Operating Officer  
 Northrop Corp.  
 Merton J. Peck  
 Chairman, Department of Economics  
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 Senior Specialist, Space and  
 Transportation  
 Congressional Research Service  
 Library of Congress  
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 Martin Summerfield  
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 Center  
 University of Wisconsin  
 Anthony F. C. Wallace  
 Professor, Department of Anthropology  
 University of Pennsylvania  
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 Professor  
 Department of Geography  
 University of Georgia

Impact of Advanced Air Transport  
 Technology Advisory Panel  
 Robert W. Simpson, *Chairman*  
 Flight Transportation Laboratory  
 Massachusetts Institute of Technology  
 Jane H. Bartlett  
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 Arlington League of Women Voters  
 Ray E. Bates  
 Vice President  
 Douglas Aircraft Co.  
 John G. Borger  
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 Pan American World Airways, Inc.  
 Norman Bradburn  
 Director  
 National Opinion Research Center  
 Frederick W. Bradley, Jr.  
 Vice President  
 Citibank, N.A.  
 Secor D. Browne  
 Secor D. Browne Associates, Inc.  
 F. A. Cleveland  
 Vice President, Engineering  
 Lockheed Aircraft Corp.  
 Elwood T. Driver  
 Former Vice Chairman  
 National Transportation Safety Board  
 James C. Fletcher  
 Federal & Special Systems Group  
 Burroughs Corp.  
 William K. Reilly  
 President  
 The Conservation Foundation  
 David S. Stempler  
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 Committee of the Board of Directors  
 Airline Passengers Association, Inc.  
 Janet St. Mark  
 President  
 SMS Associates  
 John Wild  
 Executive Director  
 National Transportation Policy Study  
 Commission\*  
 Holden W. Withington  
 Vice President, Engineering  
 Boeing Commercial Airplane Co.

● Deceased.

● Commission was dissolved Dec. 31, 1979.

Michael Yarymovych  
Vice President, Engineering  
Rockwell International

**Observers:**

Charles R. Foster  
Associate Administrator for  
Aviation Standards  
Federal Aviation Administration

James J. Kramer\*\*  
Associate Administrator for  
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*Air Service to Small Communities  
Working Group*

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David Brewster  
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Tulinda Deegan  
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Engineering  
Douglas Aircraft Co.

Jack I. Hope  
President  
HAECO, Inc.

William Sens (Retired)  
Pratt & Whitney Engine Co.

Armand Sigalla  
Chief, Technology Preliminary Design  
Boeing Commercial Airplane Co.

John Wesler  
Director of Environment and Energy  
Federal Aviation Administration

Bruce R. Wright  
John Claus

Lockheed California Co.

*Airport and Air Traffic Control  
System Advisory Panel*

Raymond L. Bisplinghoff, *Chairman*  
Vice President and Director of R&D  
Tyco Laboratories

Jesse Borthwick  
Executive Director  
National Association of Noise Control  
Officials

Secor D. Browne  
Secor D. Browne Associates, Inc.

Jack Enders  
President  
Flight Safety Foundation, Inc.

Robert Everett  
President

The Mitre Corp.  
Matthew Finucane  
Director

Aviation Consumer Action Project

William T. Hardaker  
Assistant Vice President  
Air Navigation/Traffic Control  
Air Transport Association

. \*Resigned from panel during conduct of study after leaving NASA.

William Horn, Jr. National Business Aircraft Association, Inc.	David J. McGowan Manager, Systems Operations General Aviation Manufacturers Association
Jack D. Howell Air Line Pilots Association International	Robert E. Monroe Vice President for Data Research Aircraft Owners & Pilots Association
Alton G. Keel, Jr. Assistant Secretary of the Air Force Research, Development and Logistics	Barney Parrella Manager, Airport Planning and Development
Clifton A. Moore General Manager Department of Airports City of Los Angeles	Air Transport Association
Thomas L. Oneto Planning Officer Aircraft Owners & Pilots Association	Gilbert F. Quinby Consultant
Robert E. Poli President Professional Air Traffic Controllers Association	John Slowik Vice President Airline and Aerospace Department Citibank, N.A.
Gilbert F. Quinby Consultant	<i>Computer and Communication Technologies Workshop Attendees</i>
David S. Stempler Airline Passenger Association	H. Clark Stroupe, <i>Chairman</i> Vice President Booz-Allen & Hamilton, Inc.
Janet St. Mark President SMS Associates	Mike Ball Department of the Air Force
Richard Taylor Vice President Boeing Commercial Airplane Co.	Paul Baran President CableData Associates
David Thomas Consultant General Aviation Manufacturers Association	W. W. Buchanan Senior Associate SES
Review of the FAA 1982 National Airspace System Plan	James Burrows Director, Institute for Computer Science and Technology National Bureau of Standards
Growth Scenarios <i>Workshop Attendees</i>	Anthony Csicseri U.S. General Accounting Office
Robert W. Simpson, <i>Chairman</i> Professor Flight Transportation Laboratory Massachusetts Institute of Technology	George Litchford President Litchford Electronics
Samuel C. Colwell Director of Market Planning Fairchild Industries, Inc.	Gilbert F. Quinby Consultant
Herman Gilster Manager, Traffic and Economic Forecasting	Harrison Rowe Bell Laboratories
Boeing Commercial Airplane Co.	Robert W. Simpson Flight Transportation Laboratory Massachusetts Institute of Technology
David Lewis Principal Analyst Natural Resources and Commerce Division	Willis Ware The Rand Corp.
Congressional Budget Office	<i>The National Airspace System Plan Conference Attendees</i>

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 COMSAT World Systems  
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 Airline Pilots Association  
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 National Transportation Safety Board  
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 Deputy for Transportation and  
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 U.S. Air Force  
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 Aviation Consumer Action Project  
 Rod Gilstrap  
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 Public Employees Department  
 AFL-CIO  
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 Command Airways  
 Gilbert F. Quinby  
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 Airport Operators Council International  
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 Science and Public Policy Program  
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 E. I. du Pont de Nemours & Co.  
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 Charilyn Cowan  
 Staff Director, Committee on  
 Transportation, Commerce and  
 Technology  
 National Governors' Association  
 Thomas J. Deane  
 Vice President, Operating Facilities  
 Avis Rent-A-Car, Inc.



John Drake Professor Purdue University	Interest Participation in the Regulatory Decision Process: Lessons Learned From Two LNG Safety Standards <i>Workshop Attendees</i>
William Garrison Institute of Transportation Studies University of California, Berkeley	Robert K. Arvedlund Federal Energy Regulatory Commission
Aaron Gellman President Gellman Research	Robert Bedell Deputy General Counsel Office of Management and Budget
John Glover Supervisor, Transportation Planning Port of Oakland	Daniel E. Bensing Professional Staff Senate Committee on Governmental Affairs
Leonard Griggs Airport Director Lambert St. Louis International Airport	Richard Breeden Counsel Office of the Vice President
Richard L. Harris Vice President, Public Finance First Boston Corp.	Neil Eisner Assistant General Counsel U.S. Department of Transportation
Jack R. Hunt President Embry-Riddle Aeronautical University	Gary Gregory Marine Technology and Hazardous Materials Division U.S. Coast Guard
Richard Judy Director of Aviation Dade County	Philip J. Harter Harter & DeLong
Alfred Kahn Professor Cornell University	George K. Horvath Manager, Government Relations National Fire Protection Association
Leonard Martin Vice President, Passenger Services Piedmont Airlines	David Pritzker Administrative Conference of the United States
Dorn McGrath Department of Urban and Regional Planning	Alan Roberts Materials Transportation Bureau U.S. Department of Transportation
George Washington University	Leon D. Santman Director, Materials Transportation Bureau U.S. Department of Transportation
Sonny Najera Director Arizona Division of Aeronautics	James H. Stannard, Jr. Chairman, NFPA LNG Technical Committee
Edmund Nelle, Jr. President Butler Aviation International	David A. Swankin Swankin & Turner
Jan Roskam Professor University of Kansas	Gregory Tassey Senior Economist, Planning Office National Bureau of Standards
Forrest C. Six vice President Ralph M. Parsons Co.	Ronald C. Van Meerbeke Columbia LNG Corp.
William Supak Aviation Director Port of Portland	Kenneth Young U.S. Environmental Protection Agency
William Wilson Vice President, Properties and Facilities Federal Express Corp.	

Technology, Innovation, and Regional  
Economic Development

*Planning Workshop Attendees*

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The Brookings Institution

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Senate Committee on Commerce,  
Science,  
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House Committee on Science and  
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Washington Office of the Governor  
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Albert Paladino  
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Advanced Technology Ventures

William Scheirer  
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Office of Economic Research  
Small Business Administration

Kenneth Sherman  
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Assistant General Manager  
Tennessee Valley Authority

Milton D. Stewart  
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Roger Vaughan  
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Robert Wise  
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