Appendix B List of Advise- and Panel Members*

ENERGY, MATERIALS, AND INTERNATIONAL SECURITY DIVISION

Technology and Economic Transition

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Energy and Materials Program

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William Lilley, III Vice President for Corporate Affairs CBS

George Minot Senior Vice President CompuServe, Inc.

Dorothy Nelkin Professor of Sociology Cornell University James A. Nelson State Librarian and Commissioner Kentucky Department of Libraries and Archives John Shattuck

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Patricia Sturdivant Associate Superintendent Houston Independent School District

Sherry Turkle Associate Professor of Sociology Massachusetts Institute of Technology

Jack Valenti President Motion Picture Association of America. Inc. Vivian Weil

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Martha Williams Professor of Information Science University of Illinois

Workshop: Economics

Christopher Burns Christopher Burns, Inc.

Curtis Priest Center for Policy Alternatives Massachusetts Institute of Technology

A. Alan Schmid Professor Department of Agricultural Economics Michigan State University

Workshop: Impact of Information Technologies on the Creative Process

Theodore Bikel President Emeritus Actors Equity

Milton Glaser Graphic Artist

Richard Green Musician

James Hammerstein Stage Director Joyce Hankansson President Hankansson Associates

David McCune President The Proteus Group, Inc.

Ann-Byrd Platt Writer

Frederick Pohl Writer

Anna Sofaer Indendent Film Producer and Artist

Bill Weems Photographer

George David Weiss President The Songwriters Guild

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Lois Martin
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Robert M. Peabody Assistant Vice President and Director of Office Automation Mutual of Omaha

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Robert Ellis Smith Editor and Owner Privacy Journal

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Ralph E. Upton, Jr. Director St. Augustine Technical Center

Workshop: Supercomputers

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Sidney Fernback Consultant Control Data Corp.

Robert Gillespie Consultant Gillespie Folkner & Associates

Paul Schneck Director Supercomputer Research Center Institute for Defense Analysis

Jacob Schwartz Director Division of Computer Sciences Courant Institute of Mathematical Sciences New York University Joe Wyatt Chancellor Vanderbilt University

> Workshop: Societal Impacts of Artificial Intelligence

Hubert Dreyfus Philosophy Department University of California, Berkeley

Rob Kling Professor Information and Computer Science University of California, Irvine

Walter Lowen Department of Systems Science University Center at Binghamton State University of New York

Mitchell Marcus Technical Staff AT&T Bell Laboratories

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Sherry Turkle Professor Massachusetts Institute of Technology

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Oceans and Environment Program

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Frank Collins Consultant

Floyd Culler president Electric Power Research Institute

J. William Futrell president Environmental Law Institute

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William W. Hambleton Director Kansas Geological **Survey**

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Terry Lash Deputy Director Department of Nuclear Safety State of Illinois

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Jeanne Malchon State Senator State of Florida Peter Montague Center for Environmental Studies Princeton University

Glenn Paulson Vice President for Science National Audubon Society

Howard Raiffa Frank P. Ramsey Professor of Managerial Economics Harvard Business School

William A. Thomas Consultant American Bar Foundation

Mason Willrich Vice President—Corporate Planning Pacific Gas & Electric Co.

Donald Wodrich Rockwell International-Hanford Operations

John Yasinsky General Manager Advanced Power Systems Divisions Westinghouse Electric Corp.

Protecting the Nation's Groundwater From Contamination Advisory Panel

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Perry McCarty Chairman Department of Civil Engineering Stanford University

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Wastes in the Marine Environment: Their Management and Disposal Advisory Panel

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Susan Peres Emergency Management Specialist Technology Hazards Division Federal Emergency Management Administration Robert Philpot Transportation Program Branch Chief U.S. Department of Energy Kenneth L. Pierson Director Bureau of Motor Carrier Safety Federal Highway Administration U.S. Department of Transportation Dennis L. Price Director Safety Projects Office Virginia Polytechnic Institute Vallary Sandstrom Acting Chief, Programs Liaison Branch Research and Special Programs Administration Office of Hazardous Materials Transportation U.S. Department of Transportation Bruce Smith Assistant Chief Colerain Township Fire Department Cincinnati, OH Charles Wright Training Officer Union Pacific Railroad Workshop: Nuclear Materials Packaging Roger Kasperson, Chair Center for Technology, Environment and Development Clark University George C. Allen Jr. Supervisor, Transportation Systems Development and Testing Division Transportation Technical Center Sandia National Laboratories Robert Anderson Manager of Cask and Transportation Systems Engineering Chem-Nuclear Systems, Inc. Lindsay Audin Mechanical Engineer Goldman, Sokolov, Copeland, P.C.

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Workshop: Nonnuclear Containers

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Fred Krysel Chief Engineer Polar Tank Trailer

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Thomas A. McKenna Senior Supervisor Materials & Logistics Department E. 1. du Pent de Nemours & Co.

Donald Monroe Principal Surveyor American Bureau of Shipping James O'Steen Chief, Engineering Branch Materials Transportation Bureau Office of Hazardous Materials Regulation Research and Special Programs Administration U.S. Department of Transportation Earl A. Phillips Vice President, Engineering Development Union Tank Car Co. Richard E. Phillips Engineer for Transportation Equipment Ethyl Corp. Harlan Pierson Member Maine State Police Edward W. Pritchard Engineer, Maintenance Programs Division Safety Office Federal Railroad Administration U.S. Department of Transportation Paul Seay Chief of Engineering Branch (retired) Office of Hazardous Materials Regulation Materials Transportation Bureau U.S. Department of Transportation Patrick J. Student Hazardous Materials and Environmental Protection Missouri Pacific Railroad Co. Robert L. Temper Hazardous Materials Packaging Mallinckrodt, Inc. Workshop: Sister Congressional Agencies James Blume Issue Area Planning Director/ Transportation General Accounting Office Daniel Carroll Assistant Analyst Natural Resources and Commerce Congressional Budget Office Edward Morahan

Evaluator General Accounting Office

Vincent Price Evaluator General Accounting Office Paul Rothberg Specialist in Science and Technology Science Policy Research Division Congressional Research Service

Kenneth Rubin Principal Analyst National Resources and Commerce Congressional Budget Office

Janie Wishart Principal Analyst Natural Resources and Commerce Congressional Budget Office

Science Policy Workshop: Government Funding of Research as an Investment

Harvey Averch Professor Economics and Government Funding University of Maryland

Henry Hertzfeld Professor Consultant in Economics and Legal Issues in Research and Development

J. David Roessner Technology and Science Policy Program Social Science Department Georgia Institute of Technology

Nestor Terleckyj Director Center for Socio-Economic Analyses National Planning Association

Science Policy Workshop: Demographic Trends and the Scientific and Engineering Work Force

Jerrier A. Haddad Consultant National Research Council

Lee Hansen Professor Department of Economics University of Wisconsin, Madison

Lilli S. Hornig Executive Director Higher Education Resource Services Wellesley College

Luther S. Williams President Atlanta University Dael Wolfle Professor Graduate School of Public Affairs University of Washington, Seattle

Science Policy Workshop: The Education and Employment of Scientists and Engineers

Susan Berry man The Rand Corp.

Radford Byerly Science Consultant Committee on Science and Technology U.S. House of Representatives

Lloyd Cooke Consultant

Michael Crowley Study Group Director Division of Science Resource Studies National Science Foundation

Charles Dickens Director Division of Science Resource Studies National Science Foundation

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Diana Dutton Professor Health Services Research Stanford University School of Medicine

Harold P. Green Associate Dean for Post J.D. Studies The National Law Center George Washington University

Clifford Grobstein Professor Biological Science and Public Policy University of California, San Diego

Irving S. Johnson Vice President of Research Lilly Research Laboratories

Jonathan A. King Professor of Molecular Biology Massachusetts Institute of Technology

Alan McGowan President Scientists' Institute for Public Information

John Shattuck Vice President of Government, Community and Public Affairs Harvard University

Workshop #1: Automation and Robotics for the Space Station Thomas Sheridan, *Chair* Department of Mechanical Engineering Massachusetts Institute of Technology

Richard Baxter First Secretary, Technology Embassy of the United Kingdom

Richard Carlisle Space Station Program NASA Headquarters

Frank Cevasco Director, NATO Affairs Office of the UnderSecretary of Defense for Research and Engineering

W,F. Cockburn Science Counselor Embassy of Canada

W.M. Evans Director, Space Policy and Plans Ministry of State for Science and Technology Canada Lyn Gordon-Winkler Assistant for External Affairs NASA Johnson Space Center Helmut Hardegen Deputy Director Institute for Flightguidance DFVLR Federal Republic of Germand Max Honey Technical Assistant Systems Engineering and Integration Office Space Station Program NASA Johnson Space Center Alan C. Holt Space Station Customer Integration Office NASA Johnson Space Center Louis Laidet Scientific Attache for Space Affairs Embassy of France Enzo Letico Washington Office PSN/CNR-Italian National Space Plan Savi Sachdev Manager, Systems Engineering SPAR Aerospace Ltd., RMS Division Canada Workshop #2: Automation and Robotics for the Space Station Thomas Sheridan, Chair Professor Department of Mechanical Engineering Massachusetts Institute of Technology James Albus Chief Industrial Systems Division National Bureau of Standards Dean Brown President Picodyne Corporation Robert Canon Chairman Department of Aeronautics and Astronautics Stanford University Rodger Cliff Chief Scientist Defense Advanced Research Projects Agency

David Criswell California Space Institute University of California, San Diego

Jon Erickson Manager Artificial Intelligence and Information Sciences NASA Johnson Space Center

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Henry Lum Chief Information Sciences Office NASA Ames Research Center

Ross Pepper Research Scientist Naval Oceans Systems Center

Charles Rosen Chief Scientist Machine Intelligence Corp.

Carl Ruoff Member of Staff Jet Propulsion Laboratory

Amy L. Toussaint Specialist En Engineer Artificial Intelligence Boeing Aerospace Corp.

Workshop: Strengths and Weaknesses of Standardized Tests: State by State Comparisons John T. Guthrie Director, Center for Educational Research and Development College of Education University of Maryland Ronald K. Hambleton School of Education University of Massachusetts Gary Phillips Chief, Research Evaluation and Statistical Services Office of Management Information Systems Maryland State Department of Education John P, Poggio School of Education University of Kansas Ed Roeber Supervisor, MEAP Michigan Department of Education Paul D. Sandifer Director, Office of Research State Department of Education South Carolina Workshop: Strengths and Weaknesses of Standardized Tests: Mathematics Review Gordon Lewis Mathematics Supervisor Washington, DC, Public Schools Alice Morgan-Brown Divison of Secondary Education Office of Mathematics Baltimore Public Schools Thomas J. Nuttall Consultant James Wilson Department of Mathematics Education University of Georgia Workshop: Strengths and Weaknesses of Standardized Tests: Reading Review peter Callahan Consultant Irwin Kirsch Director of Adult Literacy Princeton, NJ Dorothy B. Nave Director of Curriculum Dorchester County Board of Education Karen K. Wixson Professor School of Education University of Michigan