Appendix D

List of Advisors and Panel Members

ENERGY ADVISORY COMMITTEE

Milton Katz, Chairman
Director, International Legal Studies, Harvard Law School

Thomas G. Ayers
President and Chairman of the Board
Commonwealth Edison Company
(Resigned)

Kenneth E. Boulding
Institute of Behavioral Science
University of Colorado

Eugene G. Fubini
Fubini Consultants, Ltd.
(Resigned)

John M. Leathers
Executive Vice President
Dow Chemical USA

Wassily Leontief
Department of Economics
New York University

George E. Mueller
President and Chairman of the Board
Systems Development Corporation

Gerard Pie\]
Publisher
Scientific American
(Resigned)

John Redmond
Executive Vice President (Retired)
Shell Oil Company

John C. Sawhill
President
New York University
(Resigned)

Chauncey Starr
President
Electric Power Research Institute

Direct Utilization of Coal Advisory Panel

Harry Perry, Chairman
Resources for the Future, Inc.

Mike Clark
Beckley, W. Va.

David Comey
Executive Director
Citizens for a Better Environment
(Deceased)

A. W. Deurbrouck
Coal Preparation and Analysis Laboratory
Department of Energy

Michael Enzi
Mayor
City of Gillette, Wyoming

Don Gasper
Director, Economic Studies
Consolidation Coal Co.

W. L. Johns
Engineering Department
E. I. du Pent de Nemours & Co.

Lorin Kerr
Director, equal Department of Occupational Health
United Mine Workers of America

George Land
AMAX Coal Corporation

Ed Light
West Virginia Citizens Action Group

Robert Lundberg
Commonwealth Edison
Paul Martinka
Morristown, N.J.

David Mastbaum
Staff Counsel
Environmental Defense Fund

Ralph Perhac
Program Manager
Electric Power Research Institute

Michael Rieber
Department of Mines and Geological Engineering
University of Arizona

Steve Shapiro
President, UMWA Local
New Hall, W. Va.

Ronald Surdam
Professor, Geology Department
University of Wyoming

Joanna Underwood
Executive Director
INFORM

Joseph Yancik
National Coal Association

Residential Energy Conservation Advisory Panel

John Gibbons, Chairman
Director, Environment Center
University of Tennessee
(Resigned)

John R. Andrews
Private Architect
Washington, D.C.

Robert E. Ashburn
Manager, Economic Research Department
Long Island Lighting Company

Edward Berlin
Leva, Hawes, Symington, Martin & Oppenheimer

Ellen Berman
Director, Energy Policy Project
Consumer Federation of America

Joel Darmstadter
Director, Energy Policy Project
Consumer Federation of America

77
Energy From Biological Processes
Advisory Panel

Thomas Ratchford, Chairman
Associate Executive Director
American Association for the
Advancement of Science

Henry Art
Environmental Studies
University of California at Santa Barbara

Stanley Barber
Department of Agronomy
Purdue University

John Benemann
Vacaville, Calif.

Paul Bente, Jr.
Executive Director
The Bio-Energy Council

Calvin Burwell
Oak Ridge National Laboratory

Robert Hirsch
EXXON Research and Engineering
Company

Robert Hodam
Hodam Associates
Sacramento, Calif.

Kip Hewlett
Georgia Pacific

Ralph Keinker
Monsanto Company

Dean Kleckner
President, Iowa Farm
Bureau Federation

Kevin Markey
Friends of the Earth

Jacques Maroni
Energy Planning Manager
Ford Motor Company

Michael Neushul
Marine Science Institute
University of California at
Santa Barbara

William Scheller
Department of Chemical Engineering
University of Nebraska

Kenneth Smith
Office of Appropriate Technology
State of California

Wallace Tyner
Department of Agricultural Economics
Purdue University

Liquefied Natural Gas (AEF)
Advisory Panel

Jerome E. Hass, Chairman
Graduate School of Business and
Public Administration
Cornell University

Seth Borgos
Director of Research
ACORN

Irvin C. Bupp, Jr.
Graduate School of Business
Administration
Harvard University

George Carameros
Chairman
El Paso LNG Company

Melvin A. Conant
Conant and Associates, Ltd.

James C. Cruse
Vice President
Policy and Analysis
U.S. Export-Import Bank

Todd M. Doscher
Department of Petroleum Engineering
University of Southern California

Michael R. Eaton
Sierra Club

Bruce M. Hannon
Director, Energy Research Group
University of Illinois

Michael Hogan
E. J. Rager & Associates

Max M. Levy
Vice President
Columbia LNG Corporation

William R. Robertson
Executive Secretary-Treasurer
Los Angeles County
Federation of Labor

Robert L. Solomon
Assistant Director
California Energy Resources
Conservation & Development
Commission

Macauley Whiting
The Dow Chemical Company

Solar Power Satellite Policy Issues
Advisory Panel

John P. Schaefer, Chairman
President
University of Arizona

Paul Craig
Professor of Applied Science
University of California at Davis

Eilene Galloway
Private Consultant
Washington, D.C.

Karl Gawell
Barboursville, Va.

Peter Glaser
Vice President
Arthur D. Little, Inc.

Jerry Grey
Administrator for Public Policy
American Institute of Aeronautics
and Astronautics

Grant Hansen
President, SDC Systems Group
SDC Corporation
Appendix D—List of Advisors and Panel Members

Russell (Deek) Hensley
Vice President–Technology
Diversified Business Division
Aetna Life and Casualty

John J. Sheehan
Legislative Director
United Steelworkers of America

Robert Uhrig
Vice President, Advanced Systems and Technology
Florida Power and Light

Frank von Hippel
Senior Research Physicist
Center for Energy and Environmental Studies
Princeton University

Maureen Lamb
Annapolis, Md.
J. C. Randolph
Director, Environmental Programs
School of Public and Environmental Affairs
Indiana University

INTERNATIONAL SECURITY AND COMMERCE

Nuclear War Effects Advisory Panel

David Saxon, Chairman
President
University of California

Donald Brennan
Director of National Security Studies
Hudson Institute, Inc.

Charles Cooper
Department of Biology
San Diego State University

Russell Dougherty, General
U.S. Air Force (Retired)

Sidney Drell
Deputy Director, Professor
Linear Accelerator
Stanford University

Richard Garwin
IBM Fellow
IBM Thomas J. Watson Research Center

Gene La Rocque
Rear Admiral, USN (Retired)
Director
Center for Defense Information

Cecil Leith
Director of A.A.P.D.
National Center for Atmospheric Research

J. David Linebaugh
U.S. Foreign Service (Retired)

J. Carson Mark
Los Alamos Laboratory

James Neel
University of Michigan Medical School

Jack Ruina
Department of Electrical Engineering
Massachusetts Institute of Technology

Harriet Scott
Self-employed

Huston Smith
School of Religion
Syracuse University

John Steinbruner
Director of Foreign Policy
The Brookings Institution

Jeremy Stone
Director
Federation of American Scientists

Hilary Whitaker
Director
Emergency Preparedness Project

National Governors Association

McGeorge Bundy, Chairman
New York University

Igor Birman
Consultant on Soviet Economics

Morris Bornstein
Department of Economics
University of Michigan

Lawrence J. Brainard
Vice President
Bankers Trust

Jonathan G. Bunge
Keck, Mahin, and Cate

Daniel Drucker
College of Engineering
University of Illinois at Urbana-Champaign

M. W. Duncan
President
Export Programs, Inc.

Pat Feltes
National International Relations Committee
League of Woman Voters

Thomas Finger
U.S.-China Relations Program
Stanford University

Frederick J. Fleron
Department of Political Science
State University of New York at Buffalo

Henry Forrest
Senior Vice President
Control Data Corporation

Elizabeth Jaeger
AFL-CIO

Rhoda H. Karpatic
Executive Director
Consumers Union of the United States, Inc.

Jan M. Lodal
Executive Vice President
American Management Systems, Inc.

J. Ray Pace
President
Baker World Trade, Inc.

Charles Phipps
Corporate Development
Texas Instruments, Inc.

Gertrude E. Schroeder
Department of Economics
University of Virginia

David D. Smith
Vice President
Eastern European Operations
Levi-Strauss, Inc.

Seymour Weiss
Sy Corporation
Taggants Advisory Panel
Sanford Kadish, Chairman
Dean, School of Law
University of California at Berkeley
Tom Ashwood
Air Line Pilots Association
Jerome S. Brewer
President
J. S. Brewer & Associates, Inc.
Charles E. Calfee
Special Agent
Federal Bureau of Investigation
Michael Clancy
Program Director
U.S. Conference of Mayors
Robert Dimock
Mine Manager
Utah Copper Division
Kennebec Copper
Ernest H. Evans
Research Associate
The Brookings Institution
Henry Eyring
Department of Chemistry
University of Utah
Eugene H. Oyster
Los Alamos Scientific Lab
Rona M. Fields
Consultant in Psychology
Alexandria, Va.
Gary L. Hendrickson
Dane County Sheriff’s Department
Madison, Wis.
Robert E. Hodgden
President
Powder Co. Inc., and Pyrodex Corp.
Neal Knox
Executive Director
National Rifle Association
Institute for Legislative Action
Lynn Limmer
Director, Department of Public Safety
Dallas-Fort Worth Airport
Alexander v. d. Luft
Director
E. 1. du Pent de Nemours & Co.

Lewis T. Marks
Vice President, Operations
Atlas Powder Co.
Hugh M. McGowan
Supervisor Bomb Squad
New York, NY.
William T. Poe
Supervisor, Explosives & Firearms
Control Unit
Louisiana State Police
Theodore J. Sullivan
Naval Surface Weapons Center
Robert W. van Dolah
Private Consultant
Pittsburgh, Pa.
Charles O. Williams
Olin Corporation

Electronics Advisory Panel
Katherine Seelman, Chairperson
National Council of Churches
Division of Church & Society
Jack C. Acton
Staff Executive, Sector Planning
General Electric Company
Steve Beckman
Research Associate
International Union of Electrical,
Radio & Machine Workers
A. Terry Brix
Market Coordinator
Battelle-Northwest Laboratories
Richard P. Case
Director of Technical Operations
IBM Corporation
Ruth Schwartz Cowan
Associate Professor of History
State University of New York at Stony Brook
William Kay Dairies
Executive Vice President
American Retail Federation
Leonard Dietch
Vice President, Product Development
Zenith Radio Corporation
Isaiah Frank
William Clayton Professor of
International Economics
Johns Hopkins University
F. Willard Griffith II
Chairman and CEO
GC International
Robert R. Johnson
Vice President, Engineering
Burroughs Corporation
Richard A. Kraft
President
Matsushita Industrial Co.
E. Floyd Kvasmme
Vice President and General Manager
Semiconductor Division
National Semiconductor Corporation
Geraldine McArdle
Board Member
Consumer Federation of America
Charles Phipps
Assistant Vice President, Corporate
Development
Texas Instruments, Inc.
K. M. Poole
Head, Integrated Circuit Planning
Department
Bell Telephone Laboratories
Benjamin M. Rosen
Vice President
Morgan Stanley & Co., Inc.
Kate Wilhelm
Author
Robert B. Wood
Director of Research
International Brotherhood of Electrical
Workers
Michael Y. Yoshino
Professor of Business Administration
Harvard Business School
MATERIALS ADVISORY COMMITTEE

James Boyd, Chairman
Private Consultant

Earl H. Beistline
Dean, School of Mineral Industry
University of Alaska

Seymour L. Blum
Vice President-Program Development
Northern Energy Corporation

Lyon K. Caldwell
Department of Political Science
Indiana University

Robert L. Coble
Department of Metallurgy
Massachusetts Institute of Technology

Lloyd M. Cooke
Vice Chairman
Economic Development Council of New York City, Inc.

Frank Fernbach
Retired Assistant to the President
United Steelworkers of America

James H. Gary
Chemical and Petroleum Refining Dept.
Colorado School of Mines

Edwin A. Gee
President
International Paper Company

Bruce Hannon
Director, Energy Research Group
University of Illinois

Julius Harwood
Director, Materials Sciences Laboratory
Ford Motor Company

Franklin P. Huddle
Senior Specialist
Congressional Research Service

Elburt F. Osborn
Distinguished Professor
Carnegie Institution of Washington

Richard B. Priest
Assistant National Manager
Merchandise Development and Testing Laboratories
Sears, Roebuck & Company

Nathan E. Promise
Executive Director Emeritus
National Materials Advisory Board
National Academy of Sciences

Lois Sharpe
Environmental Coordinator
League of Women Voters Education Fund

Raymond L. Smith
President
Michigan Technological University

Simon D. Strauss
Vice Chairman
ASARCO, Inc.

George A. Watson
Executive Director
Ferroalloys Association

Lois Sharpe, Chairman
Environmental Coordinator
League of Women Voters Education Fund

James Boyd, ex officio
Private Consultant

Frank Fernbach
Retired Assistant to the President
United Steelworkers of America

Bruce Hannon
Director, Energy Research Group
University of Illinois

Talbot Page
California Institute of Technology
Environmental Quality Laboratory

Simon Strauss
Vice Chairman
ASARCO, Inc.

Marion Clawson
Consultant
Resources for the Future, Inc.

John McComb
Sierra Club

Leo Miller
Vice President
Minerals Exploration Division
Texagulf, Inc.

Analyses of Laws Governing Access Across Federal Lands Advisory Panel

Earl Beistline, Chairman
Dean, School of Mineral Industry
University of Alaska

Roger Allington
Land and Engineering Officer
Sealska Corporation

James Boyd, ex officio
Private Consultant

Charles Clusen
Conservation Director
Sierra Club

John Katz
Chief Counsel, Federal-State Land Use Planning Commission for Alaska

Elburt Osborn
Distinguished Professor
Carnegie Institution of Washington

Management of Fuel and Nonfuel Minerals in Federal Land Advisory Panel

Elburt Osborn, Chairman
Distinguished Professor
Carnegie Institution of Washington

Walter Ackerman
Administrator, Land Quality Division
Department of Environmental Quality
State of Wyoming

Earl Beistline
Dean, School of Mineral Industry
University of Alaska

James Boyd, ex officio
Private Consultant

Nathan E. Promise, Chairman
Executive Director Emeritus
National Materials Advisory Board
National Academy of Sciences

Seymour Blum
Vice President-Program Development
Northern Energy Corporation

James Boyd, ex officio
Private Consultant

Edwin Gee
President, International Paper
Farno L. Green  
Executive Engineer  
Manufacturing Development  
General Motors Company

Julius Harwood  
Director  
Materials Sciences Lab.  
Ford Motor Company

Paul Lerman  
Associate Professor  
Fairleigh Dickinson University

Richard Priest  
Assistant National Manager  
Merchandise Development & Testing Laboratories  
Sears, Roebuck & Company

Oil Shale Advisory Panel

James H. Gary, Chairman  
Chemical and Petroleum Refining Dept.  
Colorado School of Mines

William Brennan  
Rancher

James Boyd, ex officio  
Private Consultant

Roland Fischer  
Secretary/Engineer  
Colorado River Water Conservation District

John D. Haun  
Department of Geology  
Colorado School of Mines

Carolyn A. Johnson  
Public Lands Institute

Sidney Kate]  
College of Mineral & Energy Resources  
West Virginia University

Estella Leopold  
Director, Quaternary Research Center  
University of Washington

Charles H. Prien  
Senior Research Fellow  
University of Denver Research Institute

John F. Redmond  
Private Consultant

Richard D. Ridley  
Vice President for Marketing  
Occidental Oil Shale, Inc.

Raymond L. Smith  
President  
Michigan Technological University

Thomas W. Ten Eyck  
Vice President for Community, Government, and Public Affairs  
Rio Blanco Oil Shale Project

Wallace Tyner  
Department of Agricultural Economics  
Purdue University

Glen D. Weaver  
Department of Economics  
Colorado State University

Federal Coal Leasing Advisory Panel

Lynton Caldwell, Chairman  
Department of Political Science  
Indiana University

James Boyd, ex officio  
Private Consultant

Thomas France  
Private Consultant

James R. Jones  
Director of Environmental Quality  
Peabody Coal Company

Robert Lang  
Plant Science Division  
University of Wyoming

Jonathan Lash  
Senior Project Attorney

Natural Resources Defense Council, Inc.

Alfred Petrick, Jr.  
Petrick Associates

Jack Simon  
Director  
Illinois State Geological Survey

Gary Tabak  
Assistant Manager  
Western Fuels Association, Inc.

Joseph Yancik  
Vice President  
Research & Technical Services  
National Coal Association

Impact of Technology on the Competitiveness of the U.S. Steel Industry Assessment Advisory Panel

Gordon Geiger, Chairman  
Professor and Head  
Department of Metallurgical Engineering  
University of Arizona

Edmund Ayoub  
Research Director  
United Steelworkers of America

Howard O. Beaver  
President  
Carpenter Technology Corporation

James Cannon  
Research Director  
Citizens for a Better Environment

Robert W. Crandall  
Senior Fellow  
The Brookings Institution

Milton Deaner  
Vice President, Engineering  
National Steel Corporation

Stewart G. Fletcher  
Senior Vice President  
American Iron and Steel Institute

William B. Hudson  
Executive Vice President, Planning and Development  
The McKee Corporation

Robert R. Irving  
Senior Technical Editor  
Iron Age Magazine

F. Kenneth Iverson  
President, NUCOR Corporation

Betty Jardine  
League of Women Voters

Ruth Macklin  
The Hastings Center

Peter F. Marcus  
First Vice President and Director  
Paine, Webber, Mitchell, Hutchins, Inc.

Mary Ann Ritter  
Manager, Purchasing, Forward Planning, and Research  
General Motors Corporation

Roger E. Shields  
Vice President, International Economics Department  
Chemical Bank

Edward A. Stanton  
Director, Human Development-social Action  
Diocese of Youngstown Catholic Charities

Caroline Ware  
National Consumers League

*Deceased, April 1979
FOOD AND RENEWABLE RESOURCES ADVISORY COMMITTEE

Martin E. Abel, Chairman
Senior Vice President, Schnittker Associates (Resigned)
Johanna Dwyer, Vice Chairman
Director, Frances Stern Nutrition Center
New England Medical Center

David Call
College of Agriculture and Life Sciences
Cornell University
(Resigned)

Cy Carpenter
President
Minnesota Farmers Union

Eliot Coleman
Director, Coolidge Center for the Study of Agriculture

Almeta Edwards Fleming
Teacher Coordinator
Florence, S. C., School District

Lorne Greene
Chairman, American Freedom From Hunger Foundation

Richard L. Hall
Vice President, Science and Technology
McConnell & Company, Inc.

Laura Heuser
Agricultural Council of America

Arnold Mayer
Legislative Representative
Amalgamated Meat Cutters and Butcher Workmen of North America

Max Milner
Executive Officer
American Institute of Nutrition

Robert O. Nesheim
Vice President, Science and Technology
The Quaker Oats Company

Kathleen O’Reilly
Director
Consumer Federation of America

R. Dennis Rouse
Dean, School of Agriculture
Auburn University

Lauren Seth
Agricultural Consultant
(Resigned)

Thomas Sporleder
Professor of Agricultural Economics
Texas A&M University

Sylvan Wittwer
Director and Assistant Dean
College of Agriculture and Natural Resources
Michigan State University

Global Food Futures Advisory Panel

Martin E. Abel
Senior Vice President
Schnittker Associates

Howard Baumann
Vice President
Science and Technology
The Pillsbury Company

Paul Bente
Executive Director
Bioenergy Council

C. O. Chichester
The Nutrition Foundation, Inc.

Milo Cox
School of Renewable Natural Resources
University of Arizona

Johanna Dwyer
Director
Frances Stern Nutrition Center
New England Medical Center

Norge Jerome
Associate Professor of Community Health
University of Kansas Medical Center

Omer Kelley
Agriculture Consultant

Mihajlo D. Mesarovic
Department of Systems Engineering
Case Western Reserve University

Peter Oran
Deputy Director, International Food Policy Research Institute

Dan Padberg
Head, Department of Agricultural Economics
University of Illinois

Nevin Scrimshaw
Head, Department of Nutrition and Food Sciences
Massachusetts Institute of Technology

Walter W. Wilcox
Agriculture Consultant

Beverly Winikoff
Population Council

Sylvan Wittwer
Director and Assistant Dean
College of Agriculture and Natural Resources
Michigan State University

Pest Management Strategies Advisory Group

R. Dennis Rouse, Chairman
Dean, School of Agriculture
Director, Agricultural Experiment Station
Auburn University

Perry Adkisson
Department of Entomology
Texas A&M University

Phillip Alampi
Secretary of Agriculture
State of New Jersey

J. Lawrence Apple
Assistant Director
Agricultural Experiment Station
North Carolina State University

O. C. Burnside
Agricultural Experiment Station
University of Nebraska
Annual Report to the Congress for 1979

Brian Croft  
Entomology Department  
Michigan State University

John C. Davies  
Department of Epidemiology and Public Health  
University of Miami School of Medicine

Boysie E. Day  
Agricultural Experiment Station  
University of California

W. E. Fry  
Department of Plant Pathology  
Cornell University

Maureen Hinkle  
Environmental Defense Fund

Paul Hoch  
Director, Richmond Research Center  
Stauffer Chemical Company

Donald M. Huber  
Department of Botany and Plant Pathology  
Purdue University

Marion Moses  
Environmental Sciences Laboratory  
Mount Sinai School of Medicine

John Reese  
Farmer  
Alexandria, Ohio

Ray F. Smith  
Department of Entomological Sciences  
University of California

Peter Sullivan  
Research Specialist  
National Wildlife Federation

John Thomas  
Department of Entomology  
Texas A&M University

H. David Thurston  
Department of Plant Pathology  
Cornell University

Samuel Turnipseed  
Department of Entomology and Economic Zoology  
Edisto Experiment Station  
Clemson University

Don Anderson  
President  
Texas Pest Management Association

Edwin A. Crosby  
Senior Vice President  
National Food Producers Association

Lynn Davis  
Cooperative Extension Service  
University of Georgia

Robert E. Hamman  
Manager, Government Relations  
CIBA-GEIGY Corporation

Blanche Haning  
Department of Plant Pathology  
Interdepartmental Pest Management Program  
North Carolina State University

Bruce Hawley  
Assistant Director, National Affairs  
American Farm Bureau Federation

Maureen Hinkle  
Environmental Defense Fund

Ellery Knake  
Department of Agronomy  
University of Illinois

L. D. Newsom  
Department of Entomology  
Louisiana State University

Earle S. Raun  
President  
Pest Management Consultants

John Siddall  
Vice President, Scientific Affairs  
Zoecon Corporation

Jerry Weekman  
Specialist in Charge  
Entomology Extension  
North Carolina State University

Pest Management Strategies
Great Plains Wheat Belt Regional Work Group

O. C. Burnside, Chairman  
Professor, Agricultural Experiment Station  
Department of Agronomy  
University of Nebraska

William Baxter, Ben Schole  
Game and Parks Commission  
Lincoln, Nebr.

Charles R. Fenster  
Crop Production Specialist  
University of Nebraska

Jimmy Hatchett  
Entomologist, USDA  
Department of Entomology  
Kansas State University

Glenn Helmers  
Department of Agricultural Economics  
University of Nebraska

Elmer G. Heyne  
Department of Agronomy  
Kansas State University

John B. Rowell  
Research Leader  
Cereal Rust Laboratory  
University of Minnesota

Pest Management Strategies
Central Corn Belt Regional Work Group

Donald D. Huber, Chairman  
Associate Professor, Department of Botany and Plant Pathology  
Purdue University

Samuel R. Aldrich  
Assistant Director  
Illinois Agricultural Experiment Station  
University of Illinois, Urbana

Michael Boosalis  
Chairman, Department of Plant Pathology  
University of Nebraska

Eileen Choffnes  
Citizens for Better Environment

Vivan Jennings  
Extension Weed Control Specialist  
Department of Botany and Plant Pathology  
Iowa State University

William H. Luckmann  
Head, Section of Economic Entomology, Natural History Survey  
Head, Section of Agricultural Entomology  
University of Illinois, Urbana

Charles R. Taylor  
Assistant Professor  
Department of Agricultural Economics  
Texas A&M University

Frank T. Turpin  
Associate Professor of Entomology  
Purdue University

Herman Warren  
Department of Botany and Plant Pathology  
Purdue University
Appendix D – List of Advisors and Panel Members

Marcus Zuber
Department of Agronomy
University of Missouri

Pest Management Strategies
Northern Deciduous Tree-Fruits
Regional Work Group

Brian Croft, Chairman
Professor, Entomology Department
Michigan State University

J. L. Anderson
Department of Plant Science
Utah State University

Donald Elfving
Pomology Department
Cornell University

John Gilpatrick
Department of Plant Pathology
New York State Agricultural Experiment Station

Stanley C. Hoyt
Tree Fruit Research Center
Wenatchee, Wash.

Richard Norton
Farm and Home Center
Spencerport, N.Y.

Sherman Thompson
Department of Plant Pathology
University of California, Berkeley

Pest Management Strategies
Vegetable Crops Department
Cornell University

Joe B. Sieczka
Vegetable Crops Department
Cornell University

Dwayne Smith
Extension Economist
Cooperative Extension Service
Presque Isle, Maine

Robert Sweer
Vegetable Crops Department
Cornell University

Pest Management Strategies
California Vegetables
Regional Work Group

Boysie E. Day, Chairman
Professor, Agricultural Experiment Station
Department of Plant Pathology
University of California, Berkeley

Raymond C. Grogan
Department of Plant Pathology
University of California, Davis

Lyn Hawkins
Economic Entomologist
IPM Unit
California Department of Food and Agriculture

W. Harry Lange
Department of Entomology
University of California, Davis

Oscar A. Lorenz
Chairman, Department of Vegetable Crops
University of California, Davis

Gordon Rowe
Giannini Foundation of Agricultural Economics
University of California, Berkeley

Lari Sheehan
Interjurisdictional Liaison Officer
Integrated Planning Office
County of San Diego, California

Pest Management Strategies
Soybeans in the Southeast
Regional Work Group

Samuel Turnipseed, Chairman
Department of Entomology and Economic Zoology
Edisto Experiment Station
Clemson University

Paul Backman
Department of Botany and Microbiology
Auburn University

Gerald Carlson
Department of Economics and Business
North Carolina State University

Jacqueline E. Jacobs
Executive Director
South Carolina Wildlife Federation

Jim Jones
Department of Agricultural Engineering
University of Florida

Stephen Lewis
Department of Plant Pathology
Clemson University

L. D. Newsom
Department of Entomology
Louisiana State University

Harold Walker
Department of Agronomy and Soils
Auburn University

Pest Management Strategies
Cotton and Sorghum Pests in Texas
Regional Work Group

John G. Thomas, Chairman
Department of Entomology
Texas A&M University

Luther S. Bird
Department of Plant Sciences
Texas A&M University

James R. Cate
Department of Entomology
Texas A&M University

Guy L. Curry
Department of Industrial Engineering
Texas A&M University

Richard A. Fredrickson
Department of Plant Sciences
Texas A&M University

Raymond E. Frisbie
Department of Entomology
Texas A&M University

Albert W. Hartstack
Cotton Pest Control and Methods Research Group
SEA-Research, USDA

Stephen Lewis
Department of Plant Pathology
Clemson University

Lari Sheehan
Interjurisdictional Liaison Officer
Integrated Planning Office
County of San Diego, California

Pest Management Strategies
Soil and Water Conservation
Research

Paul Backman
Department of Botany and Microbiology
Auburn University

Gerald Carlson
Department of Economics and Business
North Carolina State University

Jacqueline E. Jacobs
Executive Director
South Carolina Wildlife Federation

Jim Jones
Department of Agricultural Engineering
University of Florida

Stephen Lewis
Department of Plant Pathology
Clemson University

L. D. Newsom
Department of Entomology
Louisiana State University

Harold Walker
Department of Agronomy and Soils
Auburn University

Pest Management Strategies
Cotton and Sorghum Pests in Texas
Regional Work Group

John G. Thomas, Chairman
Department of Entomology
Texas A&M University

Luther S. Bird
Department of Plant Sciences
Texas A&M University

James R. Cate
Department of Entomology
Texas A&M University

Guy L. Curry
Department of Industrial Engineering
Texas A&M University

Richard A. Fredrickson
Department of Plant Sciences
Texas A&M University

Raymond E. Frisbie
Department of Entomology
Texas A&M University

Albert W. Hartstack
Cotton Pest Control and Methods Research Group
SEA-Research, USDA

Stephen Lewis
Department of Plant Pathology
Clemson University

Lari Sheehan
Interjurisdictional Liaison Officer
Integrated Planning Office
County of San Diego, California

Pest Management Strategies
Soil and Water Conservation
Research

Paul Backman
Department of Botany and Microbiology
Auburn University

Gerald Carlson
Department of Economics and Business
North Carolina State University

Jacqueline E. Jacobs
Executive Director
South Carolina Wildlife Federation

Jim Jones
Department of Agricultural Engineering
University of Florida

Stephen Lewis
Department of Plant Pathology
Clemson University

L. D. Newsom
Department of Entomology
Louisiana State University

Harold Walker
Department of Agronomy and Soils
Auburn University

Pest Management Strategies
Cotton and Sorghum Pests in Texas
Regional Work Group

John G. Thomas, Chairman
Department of Entomology
Texas A&M University

Luther S. Bird
Department of Plant Sciences
Texas A&M University

James R. Cate
Department of Entomology
Texas A&M University

Guy L. Curry
Department of Industrial Engineering
Texas A&M University

Richard A. Fredrickson
Department of Plant Sciences
Texas A&M University

Raymond E. Frisbie
Department of Entomology
Texas A&M University

Albert W. Hartstack
Cotton Pest Control and Methods Research Group
SEA-Research, USDA

Stephen Lewis
Department of Plant Pathology
Clemson University

Lari Sheehan
Interjurisdictional Liaison Officer
Integrated Planning Office
County of San Diego, California

Pest Management Strategies
Soil and Water Conservation
Research
Drugs in Livestock Feed Advisory Panel

Environmental Monitoring Advisory Panel

Environmental Conservation Research
Continental Oil Company

Richard Anderson
Chairman, Statistics Department
University of Kentucky

John Bourke
Director, Analytical Division
Food Science Department
Cornell University

Vaughan Bowen
Senior Scientist
Woods Hole Oceanographic Institute

Shirley Briggs
Executive Director
Rachel Carson Trust for the Living Environment, Inc.

Leon Chesnin
Professor, Department of Agronomy
University of Nebraska

William Cooper
Professor, Department of Zoology
College of Natural Science
Michigan State University

John Davies
Chairman, Department of Entomology and Public Health
School of Medicine
University of Miami

Blake Early
Legislative Director
Environmental Action, Inc.

Edward Elkins
Director, Chemistry Division
Washington Research Laboratory
National Food Processors Association

Ronald J. Hingle
Administrator, Food and Drug Control Unit
Bureau of Environmental Services
Office of Health Services and Environmental Quality
State of Louisiana

S. Roy Koirtyohann
Environmental Trace Substances Center
University of Missouri

Charles Krister
Retired Manager
Biochemical Department
E. I. du Pont de Nemours & Co.

John Laseter
Director
Center for Bio-Organic Studies
University of New Orleans

John Martin
Director
Moss Landing Marine Laboratories

Rebecca Sharitz
Associate Research Professor
Savannah River Ecology Laboratory
University of Georgia
Appendix D–List of Advisors and Panel Members

Gerald Ward
Professor
Department of Animal Science
Colorado State University

Environmental Tolerance
Advisory Panel

James Anderson
Manager for Material Safety
Allied Chemical Corporation

Louise Burke
Executive Director
Consumer Council of Virginia Foundation
Consumer Council of Virginia, Inc.

Kenneth Crump
Department of Mathematics and Statistics
Louisiana Tech University

Donald Epp
Associate Professor
Department of Agricultural Economics and Rural Sociology
Pennsylvania State University

Frederick Halbert
Dairy Farmer
Delton, Mich.

Joseph Highland
Chairman, Toxic Chemicals Program
Environmental Defense Fund

Robert Jackson
Assistant State Health Commissioner
Director, Office of Health Protection and Environmental Management
Health Department
Commonwealth of Virginia

Kazuo K. Kimura
School of Medicine
Wright State University

Marvin Legator
Director, Division of Environmental Toxicology
Department of Preventive Medicine and Community Health
University of Texas Medical Branch

David Lindsay
Technical Secretary
Steering Group on Food Surveillance
Ministry of Agriculture, Fisheries, and Food
London, England

Roy Martin
Director
Science & Technology
National Fisheries Institute, Inc.

Richard Merrill
Professor
School of Law
University of Virginia

Joseph Rosen
Department of Food Science
Rutgers University

John Rust
Professor Emeritus
Pharmacology/Radiology
University of Chicago

Gary Van Gelder
College of Veterinary Medicine
University of Missouri

John Van Ryzin
The RAND Corporation

Open Shelf-Life Dating of Food
Advisory Panel

Jane Anderson
Director of Consumer Affairs
American Meat Institute

Jules Bauerman
Director of Food Technology
H. W. Longacre, Inc.

Lowrie M. Beacham
Special Advisor to the President
National Food Processors Association

John Bennett
Chief, Weights & Measures Division
Department of Consumer Protection
State of Connecticut

Judy Braiman-Lipson
President
Empire State Consumers Association

Chambers Bryson
Chief, Food and Drug Section
Department of Health
State of California

Mahlon Burnette
Director of Scientific Affairs
Grocery Manufacturers of America

Carl D’Alessandro, ex officio
Assistant to the Administrator
Food Safety and Quality Service
U.S. Department of Agriculture

John DeMoss
Executive Director
Virginia Food Dealers Association

John Farquhar
Vice President, Education and Technology
Food Marketing Institute

G. William Fouse
Chief, Division of Milk Sanitation
Bureau of Foods and Chemistry
Department of Agriculture
Commonwealth of Pennsylvania

Edward Heffron
Chief, Food Inspection Division
Department of Agriculture
State of Michigan

Herman Kammerman
Director, Office of Consumer Affairs
Cleveland, Ohio

James Kirk, Chairman
Department of Food Science and Human Nutrition
University of Florida

Gary Kushner
Attorney at Law
Leighton, Conklin, and Lemov

Theodore Labuza
Professor, Department of Food Science and Nutrition
University of Minnesota

Amihud Kramer
Professor, Department of Horticulture
University of Maryland

Darryl Lund
Professor, Department of Food Science
University of Wisconsin

Roy Martin
Director of Science and Technology
National Fisheries Institute

Stan McHugh
Vice President
American Bakers Company

George Michael
Director, Division of Food and Drugs
Department of Public Health
Commonwealth of Massachusetts

Sharon Morganstern
Assistant to the President
National American Wholesale Grocers Association

Jeffrey Odum, ex officio
Staff Assistant, Committee on Laws and Regulations
National Conference on Weights & Measures

National Bureau of Standards
Impacts of Applied Genetics
Non-Human Applications
Advisory Panel

J. E. Legates, Chairman
Dean, School of Agriculture and Life Sciences
North Carolina State University

Ronald E. Cape
Cetus Corporation

Peter S. Carlson
Michigan State University

Nina V. Fedoroff
Department of Embryology
Carnegie Institution of Washington

G. June Goodfield
The Rockefeller University

Harold P. Green
The National Law Center
The George Washington University

Halsted R. Holman
Stanford University Medical School

M. Sylvia Krekel
Health and Safety Office
Oil, Chemical, and Atomic Workers International Union

Oliver E. Nelson, Jr.
Laboratory of Genetics
University of Wisconsin

David Pimental
Department of Entomology
Cornell University

Morton Shaevel
Vice President for Research and Development
Freezer Queen Foods, Inc.

Gary Smith
Professor, Department of Animal Science
Texas A&M University

Jeri Smith-Fornara
Arizona Consumers Council

Thomas Sporleder
Professor, Department of Agricultural Economics
Texas A&M University

GENETICS AND POPULATION

Robert Weaver
Department of Agricultural Economics
Pennsylvania State University

James A. Wright
Pioneer Hi-Bred International
Plant Breeding Division

Norton D. Zinder
The Rockefeller University

Population Advisory Panel

Leona Baumgartner
Martha’s Vineyard, Mass.

Wilbur J. Cohen
School of Education
University of Michigan

Cyril Crocker
Howard University School of Medicine

Arthur Dyck
Harvard Divinity School

Julia Henderson
Warwick, N.Y.

William N. Hubbard, Jr.
President
The Upjohn Company

Snehendu B. Kar
School of Public Health
University of California

Nathan Keyfitz
Harvard University Center for Population Studies

Joe Suter
Assistant Supervisor
Dairy and Food Division
State of Washington

Dale Watson
Vice President for Produce Merchandising
Great A&P Tea Company

Ruth Yannatta
California Citizens Action Group

Philip R. Lee
Director, Health Policy Program
School of Medicine
University of California

Marjory Mecklenburg
President
American Citizens Concerned for Life

Deborah Oakley
School of Nursing
University of Michigan

Kenneth J. Ryan
Boston Hospital for Women

Nafis Sadik
United Nations Fund for Population Activities

Susan Scrimshaw
School of Public Health
University of California

Carol Tauer
Department of Philosophy
College of St. Catherine

Faye Wattleton
President
Planned Parenthood Federation of America
HEALTH ADVISORY COMMITTEE

Frederick Robbins, Chairman
Dean, School of Medicine, Case Western Reserve University

Stuart H. Altman
Dean, Florence Heller School
Brandeis University

Robert M. Ball
Senior Scholar
Institute of Medicine
National Academy of Sciences

Bernard Barber
Professor
Department of Sociology
Columbia University
(Term ended 7/79)

Lewis Butler
Health Policy Program
University of California

Kurt Deuschle
Professor
Mount Sinai School of Medicine

Zita Fearon
Consumer Commission on the
Accreditation of Health Services, Inc.

Rashi Fein
Professor
Center for Community Health and
Medical Care
Harvard Medical School

Melvin Glasser
Director
Social Security Department
United Auto Workers of America

Patricia King
Professor
Georgetown Law Center

Sidney Lee
Associate Dean
Community Medicine
McGill University

Mark Lepper
Vice President for inter-Institutional
Affairs
Rush-Presbyterian Medical School
St. Luke's Medical Center

C. Frederick Mosteller
Professor and Chairman
Department of Statistics
Harvard University

Beverlee Myers
Director
Department of Health Services
State of California

Helen E. Nelson
President
Consumers Research Foundation
(Term ended 7/79)

Mitchell Rabkin
General Director
Beth Israel Hospital

Charles A. Sanders
General Director
The Massachusetts General Hospital
(Term ended 7/79)

Kerr L. White
Deputy Director, Health Sciences
Rockefeller Foundation

Cost-Effectiveness of Medical
Technologies Advisory Panel

John R. Hogness, Chairman
President
Association for Academic Health Centers

Stuart H. Altman
Dean, Florence Heller School
Brandeis University

James L. Bennington
Chairman, Department of Anatomic
Pathology and Clinical Laboratories
Children's Hospital in San Francisco
Clinical Associate
Professor of Pathology
University of California. San Francisco

John Chase
Associate Dean for Clinical Affairs
University of Washington School of Medicine

Joseph Fletcher
Visiting Scholar
Medical Ethics
School of Medicine
University of Virginia

Clark C. Havighurst
Professor of Law
School of Law
Duke University

Sheldon Leonard
Manager, Regulatory Affairs
General Electric Company

Barbara J. McNeil
Department of Radiology
Peter Bent Brigham Hospital

Robert H. Moser
Executive Vice President
American College of Physicians

C. Frederick Mosteller
Professor and Chairman
Department of Statistics
Harvard University

Robert M. Sigmond
Advisor in Hospital Affairs
Blue Cross of Greater Philadelphia

Jane Sisk Willems
VA Scholar
Veterans Administration

Psychotherapy Review
Advisory Panel

Jerome Frank
Professor Emeritus of Psychiatry
Phelps Clinic
Johns Hopkins Hospital
Donal Klein  
New York State Psychiatric Institute  
Beverly Long  
National Mental Health Association  
Thomas McGuire  
Assistant Professor of Economics  
Department of Economics  
Boston University  
Morris Parloff  
Chief, Psychotherapy and Behavioral  
Intervention Section  
National Institute of Mental Health  
Hans Strupp  
Department of Psychology  
Vanderbilt University  
Gary VandenBos  
Administrative Officer  
Mental Health Policy  
American Psychological Association

Carcinogenesis Advisory Panel

Norton Nelson, Chairman  
Professor, Department of Environmental  
Medicine  
New York University Medical School  
David Axelrod  
Commissioner of Health  
New York State Department of Health  
Peter A. A. Berle  
Butzel and Kass  
New York, N.Y.  
Theodore L. Cairns  
E. 1. du Pent de Nemours & Co.  
(Retired)  
Paul F. Deisler, Jr.  
Vice President, Health, Safety,  
and Environment  
Shell Oil Company  
George S. Dominguez  
Director, Government Relations  
Health and Environment  
CIBA-GEIGY Corporation  
A. Myrick Freeman  
Department of Economics  
Bowdoin College

Robert H. Harris  
Environmental Defense Fund  
(Resigned)  
Priscilla W. Laws  
Dickinson College  
Michael Wright  
Safety and Health Department  
United Steel Workers of America  
Mark Lepper  
Vice President for Evaluation  
Rush-Presbyterian Medical School  
St. Luke's Medical Center  
Brian MacMahon  
Harvard School of Public Health  
Elizabeth C. Miller  
McCord laboratory for Cancer  
Research  
University of Wisconsin  
(Resigned)  
Robert A. Neal  
Director of Center in Environmental  
Toxicology  
Vanderbilt University School of Medicine  
Vaun A. Newill  
Research & Environmental Health  
Division  
EXXON Corporation  
William J. Nicholson  
Environmental Sciences Laboratory  
Mount Sinai School of Medicine  
R. Talbot Page  
California Institute of Technology  
Margaret Seminario  
Industrial Hygenist–AFL/CIO  
Department of Occupational Safety  
and Health  
Alice S. Whittemore  
Division of Epidemiology  
Stanford University School of Medicine

Technologies for Estimating  
Physician Supply and Requirements  
Advisory Panel

E. Harvey Estes, Chairman  
Department of Community and Family  
Medicine  
Duke University School of Medicine  
E. B. Campbell  
Executive Vice President  
Lane College  
Kurt Deuschle  
Professor  
Mount Sinai School of Medicine  
Margaret Gordon  
Carnegie Council on Higher Education  
Jack Hadley  
Urban Institute  
John Hatch  
School of Biomedical Education  
City College of New York  
Lauren LeRoy  
Senior Analyst  
Health Policy Program  
University of California  
Charles Lewis  
Department of Medicine  
UCLA School of Medicine  
Beverlee Myers  
Director  
Department of Health Services  
State of California  
Ted Phillips  
Associate Dean for Academic Affairs  
School of Medicine  
University of Washington  
Jane Record  
Senior Economist  
Kaiser Foundation  
Health Services Research Center  
Uwe Reinhardt  
Woodrow Wilson School  
Princeton University  
Alvin Tarlov  
Department of Medicine  
University of Chicago  
John Wennberg  
Department of Community Medicine  
Dartmouth College
NATIONAL R&D PRIORITIES AND POLICIES

National Laboratories Advisory Panel

Leo Goldberg, Chairman
Director, Americas
Kitt Peak National Observatory

Preston T. Bankston
Deputy Director
Office of Science and Technology
Mississippi Fuel & Energy Management Commission

Richard S. Berry
Professor
Fearle Chemistry Laboratory
University of Chicago

Lewis M. Branscomb
Vice President & Chief Scientist
IBM Corporation

Harvey Brooks
Benjamin Pierce Professor of Technology and Public Policy
Aiken Computation Lab
Harvard University

Solomon J. Buchsbaum
Executive Vice President
Customer Systems
Bell Telephone Laboratories

Robert A. Charpie
Vice President
Cabot Corporation

Donald W. Collier
Senior Vice President
Corporate Strategy
Borg-Warner Corporation

Martin Goland
President
Southwest Research Institute

Jerry Grey
Executive Vice President
Aiken Computation Lab
Harvard University

David J. Fogarty
Senior Vice President
Southern California Edison Company

Victor H. Frankel
Director, Center for Science & Technology Policy
Graduate School of Public Administration
New York University

R. Eugene Goodson
Director, Institute for Interdisciplinary Engineering Studies
Purdue University

Peter Barton Hutt
Director of Orthopedics
University of Washington

Herbert I. Fusfeld
Director, Office of Research and Support
University of Washington

Robert M. Collins
President & Chairman of the Board
Cobe Laboratories, Inc.

David J. Fogarty
Senior Vice President
Southern California Edison Company

Victor H. Frankel
Director, Center for Science & Technology Policy
Graduate School of Public Administration
New York University

R. Eugene Goodson
Director, Institute for Interdisciplinary Engineering Studies
Purdue University

Peter Barton Hutt
Director, Office of Research and Support
University of Washington

Herbert I. Fusfeld
Director, Office of Research and Support
University of Washington

Robert M. Collins
President & Chairman of the Board
Cobe Laboratories, Inc.

David J. Fogarty
Senior Vice President
Southern California Edison Company

Victor H. Frankel
Department of Orthopedics
University of Washington

R. Eugene Goodson
Director, Institute for Interdisciplinary Engineering Studies
Purdue University

Peter Barton Hutt
Covington and Burling

Joseph T. Ling
Vice President for Environmental Engineering and Pollution Control
3M Company

Claire Nader
Private Consultant

Roger G. Nell
Director, Division of Humanities and Social Sciences
California Institute of Technology

Frederick J. Rarig
Vice President and Associate General Counsel
Rohm and Haas Company

Russell E. Train
President
World Wildlife Fund, Inc.

Charles H. Tupper
Director, Safety Department
International Brotherhood of Electrical Workers

Jacqueline Warren
Environmental Defense Fund

James W. Young
Manager of Regulatory Affairs
Zoecon Corporation

Technology for Local Development Advisory Panel

Roger Blobaum
President
Roger Blobaum and Associates

George Burrill
Co-Director
Center for Studies in Food Self-Sufficiency

Patricia Cloherty
President
Tessler & Cloherty, Inc.

John Hammock
Executive Director
ACCION International

Mary Houghton
Executive Vice President
South Shore National Bank

Byron Kennard
Community Organizer

David Lawrence
Chairman of the Executive Committee
Boettcher & Company

William Nicolson
Counsel

Lynn Preston
Acting Head, Problem Analysis Group
National Science Foundation

Lola Redford
President
Consumer Action Now
Annual Report to the Congress for 1979

Constantine Safilios-Rothschild
Professor of Human Development
Pennsylvania State University

Steve Serfling
President
Solar AquaSystems, Inc.

Martha Stuart
President
Martha Stuart Communications, Inc.

Dan Tessler
Chairman
Tessler & Cloherty, Inc.

Richard P. Taub
Associate Professor & Chairman of Public Affairs
University of Chicago

Sean Wellesley-Miller
Assistant Professor of Environmental Control
Massachusetts Institute of Technology

Appropriate Technology Task Force

Lola Redford, Chairperson
Consumer Action Now

Tom Bender
Freelance Writer, Energy & Technology

Robert S. Browne
Director, President of the Board
Black Economic Research Center

Wilson Clark
Energy Advisor
The Governor’s Office
State of California

Kye Cochran
Coordinator
Alternative Energy Resources Organization

John Cole
Author & Contributing Editor
The J. G. Press, Inc.

Hazel Henderson, ex officio
Member, Technology Assessment Advisory Council of OTA

Karl Hess
Author, Community Technology (Harper & Row)

Joyce A. Hughes
Professor of Law
Northwestern University School of Law

Byron Kennard, ex officio
Community Organizer

Elizabeth Kingman
Consultant in Energy Communication

Merle Lefkoff, ex officio
Senior Partner
Eplan, Roark, Lefkoff and Allen (ERLA)

Arthur S. Obermayer, ex officio
President, Chairman of the Board
MOLECULON Research Corporation

Thomas Sheridan
Professor of Engineering and Applied Psychology
Massachusetts Institute of Technology

Henryk Skolimowski
Professor of Philosophy
Department of Humanities
College of Engineering
University of Michigan

Barry Stein
President
Goodmeasure, Inc.

Charles B. Tisdale
Federal Coordinator
Cities in Schools Program

Nancy Jack Todd
Co-Director
The New Alchemy Institute

Disposal of Nuclear Wastes Advisory Panel

Hans Frauenfelder, Chairman
Department of Physics
University of Illinois

Seymour Abrahamson
Department of Zoology
University of Wisconsin

Kenneth Boulding
Professor
American Association for the Advancement of Science

Frank Collins
Oil, Chemical, and Atomic Workers International Union

Floyd Culler
President
Electric Power Research Institute

J. William Futrell
School of Law
University of Georgia

Edward Goldberg
Professor
Scripps Institute of Oceanography
University of California

William W. Hambleton
Director
Kansas Geological Survey
The University of Kansas

G. W. Hardigg
Vice President and General Manager
Advanced Power Systems Divisions
Westinghouse Electric Corporation

Harriet Keyserling
Member of the House
State of South Carolina

OCEANS

J. William Futrell
School of Law
University of Georgia

Edward Goldberg
Professor
Scripps Institute of Oceanography
University of California

William W. Hambleton
Director
Kansas Geological Survey
The University of Kansas

G. W. Hardigg
Vice President and General Manager
Advanced Power Systems Divisions
Westinghouse Electric Corporation

Harriet Keyserling
Member of the House
State of South Carolina

Terry Lash
Staff Scientist
Natural Resources Defense Council, Inc.

Kai Lee
Institute for Environmental Studies
University of Washington

Jean Malchon
Pinellas County Commissioner
State of Florida

Peter Montague
Center for Environmental Studies
Princeton University

Glen Paulson
Vice President for Science
National Audubon Society
Howard Raiffa  
Professor, John F. Kennedy School of Government  
Harvard Business School  
Harvard University

William A. Thomas  
American Bar Foundation  
Mason Willrich  
Vice President, Corporate Planning  
Pacific Gas & Electric Company

Donald Wodrich  
Director, Rockwell International Waste Program  
Richland National Laboratory

### TELECOMMUNICATION AND INFORMATION SYSTEMS

**Telecommunication Advisory Panel**

Richard B. Marsten, *Chairman*
Professor of Engineering  
The City College of the City University of New York

L. E. Adams  
Executive Vice President  
Armed Forces Communications and Electronics Association

Roger C. Aude  
Executive Officer  
International Communications Association

Ruth Baker  
Attorney at Law  
Cohn & Marks Law Firm

K. Woodward Benekert  
Chairman of the Board of the U.S. Transmission Systems International Telephone & Telegraph Corporation

A. G. W. “Jack” Biddle  
President  
Computers & Communications Industry Association

James B. Booe  
Assistant to the President  
Communications Workers of America

Kurt Borchardt  
Harvard Program on Information Resources Policy  
Harvard University

Warren Braren  
Associate Director  
Consumers Union

Willard T. Carleton  
Department of Finance  
University of North Carolina

Joseph V. Charyk  
President  
Communications Satellite Corporation

Harry Dannals  
President  
American Radio Relay League

Lee L. Davenport  
Vice President, Chief Scientist  
General Telephone & Electronic Corporation

Francis DeRosa  
Vice President  
General Counsel, Law and Regulatory Affairs

William D. English  
Vice President  
Satellite Business Systems

James Fellow  
President  
National Association of Educational Broadcasting

Emanuel Fthenakis  
President  
American Satellite Corporation

George Gray  
Special Representative for Government Relations  
National Association of Broadcasters

Jerry Grey  
Administrator for Public Policy  
American Institute of Aeronautics and Astronautics

Walter R. Hinchman  
Walter Hinchman Associate, Inc.  
Edward W. Hummers, Jr.  
President  
Federal Communications Bar Association

Manley Irwin  
Professor  
Whittemore School of Business and Economics  
University of New Hampshire

Charles P. Johnson  
Vice President  
IDCMA  
General Data Communications Industries, Inc.

Jack Kinn  
Staff Director  
Institute of Electrical and Electronics Engineers

Lane Kirkland  
President  
American Federation of Labor & Congress of Industrial Organizations

Jo Ann Klimschot  
Research Associate  
Common Cause

Arthur Korff  
Director of Cable Television Department  
International Brotherhood of Electrical Workers

Norman Lerner  
President  
Transcom Inc.

Richard Long  
Executive Director  
North American Telephone Association

George Mansur  
President  
Aeronautical Radio, Inc.

Donald C. Matthews  
General Executive Officer of Communications Telecommunications Consumer Coalition

United Church of Christ

Billy B. Oliver  
Vice President, Engineering Planning  
AT&T Long Lines Department

Billy B. Oxley  
Senior Vice President for Distribution  
National Public Radio

Edward W. Page, ex officio  
Department of Computer Science  
Clemson University

George E. Pickett  
Executive Vice President  
USITA

Russell Pipe  
Translational Data Report

Ithiel De Sola Pool  
Department of Political Science  
Massachusetts Institute of Technology
Paul Reardon  
Deputy Director  
Economic Policy Center  
Chamber of Commerce of the U.S.

Michael Ridder  
Association President  
Commodity News Service

Bert Roberts  
Senior Vice President  
MCI Telecommunications Corporation

Lawrence Roberts  
President  
Telenet Communications Corporation

Robert L. Schmidt  
President  
National Cable Television Association

John Shattuck  
Director  
American Civil Liberties Union

Samuel Simon  
Executive Director  
National Citizens Committee for Broadcasting

Larry Singer  
Attorney at Law  
Sager & Singer

John Sodolski  
Vice President  
Electronics Industry Association

Reinhard Stamminger  
President  
Future Systems, Inc.

Bernard Strassburg  
Private Consultant

Robert Sutliff  
Representative for the Governor’s Office of New York  
Chief Systems Planner  
New York Public Service Commission

Harry M. Trebing  
Director  
Institute of Public Utilities  
Graduate School of Business Administration  
Michigan State University

Carver L. Washburn  
Vice President for Business Development  
Western Union Corporation

Ron Wheatley  
Computer and Business Equipment Manufacturers Association

Val J. Williams  
President  
National Association of Business and Educational Radio

Lee Wing  
Executive Director  
North Carolina Agency for Public Telecommunication  
Department of Administration

Elizabeth L. Young  
President  
Public Service Satellite Consortium

Edward W. Page, Chairman  
Department of Computer Science  
Clemson University

Paul Baran  
Cabledata Associates  
John Clark  
Director, Space Applications and Technology  
RCA Corporation

Douglas Crombie  
Director  
Institute for Telecommunication Sciences/NTIA  
U.S. Department of Commerce

Burton I. Edelson  
Vice President of Systems Technology  
COMSAT Corporation

Robert K. Geiger  
Director, Development  
Martin-Marietta Aerospace

Dean Gillette  
Executive Director  
Bell Telephone Laboratories

Richard G. Gould  
President  
Telecommunication Systems

Richard Marsten  
Professor of Engineering  
The City College of the City University of New York

Gregory E. Masterson  
Assistant Technical Director  
Computer Systems  
ITT, Telecommunications Technology Center

Al Paladino  
Deputy Director, TOTC  
GTE Laboratories

Wilbur Pritchard  
President  
Satellite Systems Engineering, Inc.

Joe Sobala  
NASA Headquarters

David L. Solomon  
Deputy Assistant, Technical Policy & Operations  
Office of the Secretary of Defense

Harry J. Talberth  
Group Leader  
Communications Engineering  
The MITRE Corporation

Sysan Nycum, Chairperson  
Attorney at Law  
Chickening & Gregory

Roy Amara  
President  
Institute for the Future

Paul Baran  
President  
Cabledata Associates

Kent Colton  
Graduate School of Management  
Institute of Government Service  
Brigham Young University

Donald Dunn  
Engineering-Economic Systems Department  
Stanford University

Lawrence J. Gervais  
National Vice President  
American Postal Workers Union  
AFL-CIO

Maurice W. Gregg  
Senior Vice President, Finance  
The Gap Stores, Inc.

Jeremiah Gutman  
Attorney at Law  
Levy, Gutman, Goldberg & Kaplan

J. Robert Harcharik  
President  
TYMNET, Inc.
Appendix D — List of Advisors and Panel Members

Fred W. Warden
Director, Telecommunication Relations IBM
Willis Ware
The RAND Corporation
Iram Weinstein
System Planning Corporation
Alan F. Westin
Graduate Faculties for Political Science
Columbia University

Electronic Funds Transfer Advisory Panel

Kent Colton, Chairman
Graduate School of Management
Institute of Government Service
Brigham Young University
Wayne Boucher
Center for Futures Research
Graduate School of Business Administration
University of Southern California
Roland R. Eppley, Jr.
President
Eastern States Bank Card Association
John Fisher
Senior Vice President
First Bank Group of Ohio, Inc.
Maurice W. Gregg
Senior Vice President, Finance
The Gap Stores, Inc.
Jeremiah Gutman
Attorney at Law
Levy, Gutman, Goldberg & Kaplan
Jerry Hogan
Consumer Federation of America
Michael Levine
Citi-Bank
Allen Lalis
President
Electronic Banking Incorporated
John McDonnell, Jr.
Eastern Regional Manager
TYMNET, Inc.
Susan Nycum
Attorney at Law
Chickening & Gregory
William Riley
Grand Island, Nebr.
James Rule
Department of Sociology
State University of New York

Jerry Svigals
IBM
Willis Ware
The RAND Corporation
Bob Zimmer
Counsel
Electronic Money Council

National Information Systems
Technology Advisory Panel

Paul Baran, Chairman
President
Cabledata Associates
Craig Fields
Senior Program Manager
ARPA
Dean Gillette
Executive Director
Systems Research Division
Bell Telephone Laboratories
Vico Henriques
CBEMA
Lance Hoffman
Department of Electrical, Engineering, and Computer Science
School of Engineering and Applied Science
The George Washington University
Kas Kalba
President
Kalba Bowen Associates, Inc.

Daniel McCracken
President
Association for Computing Machinery

Richard M. Schmidt
American Society of Newspaper Editors
Robert P. Smith
Research & Development Department
U.S. Postal Service
Sherry Turkle
School of Humanities and Social Sciences
Massachusetts Institute of Technology
Ron Uhlig
Manager, Business & Services Planning
Bell Northern Research Lab
Jacques Vallee
President
INFOMEDIA
Carl Vorlander
Executive Director
National Association of State Information Systems

Paul Baran, Chairman
President
Cabledata Associates
Craig Fields
Senior Program Manager
ARPA
Dean Gillette
Executive Director
Systems Research Division
Bell Telephone Laboratories
Vico Henriques
CBEMA
Lance Hoffman
Department of Electrical, Engineering, and Computer Science
School of Engineering and Applied Science
The George Washington University
Kas Kalba
President
Kalba Bowen Associates, Inc.

Daniel McCracken
President
Association for Computing Machinery

Richard M. Schmidt
American Society of Newspaper Editors
Robert P. Smith
Research & Development Department
U.S. Postal Service
Sherry Turkle
School of Humanities and Social Sciences
Massachusetts Institute of Technology
Ron Uhlig
Manager, Business & Services Planning
Bell Northern Research Lab
Jacques Vallee
President
INFOMEDIA
Carl Vorlander
Executive Director
National Association of State Information Systems

Paul Baran, Chairman
President
Cabledata Associates
Craig Fields
Senior Program Manager
ARPA
Dean Gillette
Executive Director
Systems Research Division
Bell Telephone Laboratories
Vico Henriques
CBEMA
Lance Hoffman
Department of Electrical, Engineering, and Computer Science
School of Engineering and Applied Science
The George Washington University
Kas Kalba
President
Kalba Bowen Associates, Inc.

Daniel McCracken
President
Association for Computing Machinery

Richard M. Schmidt
American Society of Newspaper Editors
Robert P. Smith
Research & Development Department
U.S. Postal Service
Sherry Turkle
School of Humanities and Social Sciences
Massachusetts Institute of Technology
Ron Uhlig
Manager, Business & Services Planning
Bell Northern Research Lab
Jacques Vallee
President
INFOMEDIA
Carl Vorlander
Executive Director
National Association of State Information Systems
National Crime Information Center
Advisory Panel

Arthur S. Miller, Chairman
Professor Emeritus of Law
The National Law Center
The George Washington University

Gerald Caplan, Vice Chairman
The National Law Center
The George Washington University

Joe Armstrong
Armstrong Associates

Jerry Berman
Legislative Counsel
American Civil Liberties Union
Washington Office

Robert Gallati
College of Criminal Justice
Northeastern University

Lance Hoffman
Department of Electrical, Engineering, and Computer Science
School of Engineering and Applied Science
The George Washington University

John Kennedy
Scientists Institute for Public Information

Steve Koldney
Executive Director
SEARCH Group, Inc.

Barry Mahoney
VERA Institute of Justice
Inner London Probation and After-Care Service

Jeffrey A. Meldman
Sloan School of Management
Massachusetts Institute of Technology

Arthur R. Miller
The Law School
Harvard University

J. Francis Pohlhaus
Counsel
National Association for the Advancement of Colored People

James Rule
Department of Sociology
State University of New York

Richard M. Schmidt
American Society of Newspaper Editors

Carl Vorlander
Executive Director
National Association for State Information Systems

Iram Weinstein
System Planning Corporation

Elyce Zenoff
The National Law Center
The George Washington University

TRANSPORTATION

Automobile Assessment Advisory Panel

R. Eugene Goodson, Chairman
Institute for Interdisciplinary Engineering Studies
Purdue University

William G. Agnew
Technical Director
General Motors Research Laboratories

Leo Blatz
Executive Officer
ESSO Inter-America, Inc.

John J. Byrne
Chairman of the Board
GEICO and Affiliates

B. J. Campbell
Highway Safety Research Center
University of North Carolina
(Resigned)

Anne P. Carter
Department of Economics
Brandeis University
(Resigned)

Frank W. Davis, Jr.
Transportation Center
University of Tennessee

Clarence Ditlow, III
Center for Auto Safety
(Resigned)

Lament Eltinge
Director of Research
Eaton Corporation Research Center

Norman Emerson
Executive Assistant to the Mayor
City of Los Angeles

William Haddon, Jr.
President
Insurance Institute for Highway Safety
(Resigned)

Kent Joscelyn
Highway Safety Research Institute
University of Michigan

Joshua Menkes
National Science Foundation

Wilfred Owen
The Brookings Institution

Archie H. Richardson
President
Auto Owners Action Council

Angela Rooney
Upper Northeast Coordinating Council

Richard H. Shackson
Assistant Director
Transportation Energy Conservation Policy

S. Fred Singer
Professor of Environmental Sciences
University of Virginia

Lawrence J. White
Council of Economic Advisors
Executive Office Building of the White House

Howard Young
United Auto Workers

Advanced Group Rapid Transit Advisory Panel

Michael A. Powills, Jr., Chairman
Senior Vice President
Barton -Aschman Associates, Inc.

J. Edward Anderson
Director of Industrial Engineering
University of Minnesota

Robert A. Burco
President
Public Policy Research Associates
Appendix D–List of Advisors and Panel Member

Catherine Burke
School of Public Administration
University of Southern California

Lawrence Dallam
Director of Transportation Planning
Twin Cities Metropolitan Council

Julie H. Hoover
Manager of the Planning Division
Parsons, Brinckerhoff, Quade, and Douglas

George Krambles
Executive Director
Chicago Transit Authority

Robert A. Makofski
Applied Physics Laboratory
The Johns Hopkins University

Impact of Advanced Air Transport Technology Advisory Panel

Robert W. Simpson, Chairman
Director, Flight Transportation Laboratory
Massachusetts Institute of Technology

Jane H. Bartlett
President
Arlington League of Women Voters

Ray E. Bates
Vice President
Douglas Aircraft Company

Norman Bradburn
National Opinion Research Center

Frederick Bradley
Vice President
Citibank, N.A.

John G. Borger
Vice President of Engineering
Pan American World Airways, Inc.

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

F. A. Cleveland
Vice President, Engineering
Lockheed Corporation

Elwood T. Driver
Vice Chairman
National Transportation Safety Board

James C. Fletcher
Burroughs Corporation

William K. Reilly
President
Conservation Foundation

Harold J. Salfen
Executive Director
Airline Passengers Assoc., Inc.

Robert W. Simpson
Director, Flight Transportation Laboratory
Massachusetts Institute of Technology

David S. Stempler
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 Company

Michael Yarymovych
Vice President, Engineering
Rockwell International

Observers:

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

James J. Kramer
Associate Administrator for Aeronautics and Space Technology
National Aeronautics and Space Administration

Advanced High-Speed Aircraft Working Group

Richard Alpagh
Chief, Nonhighway Transportation Branch
Department of Energy

Jane H. Bartlett
President
Arlington League of Women Voters

Frederick Bradley
Vice President
Citibank, N.A.

Richard D. Fitzsimmons
Director, Advanced Program Planning
Douglas Aircraft Company

Jack I. Hope
General Manager, International Engine Group
General Electric Company

William Sens
Pratt and Whitney Engine Company

Armand Sigalla
Chief, Technology Preliminary Design
Boeing Commercial Airplane Company

John Wesler
Acting Director for Environment and Energy
Federal Aviation Administration

Bruce R. Wright
Lockheed California Company

Finance and Program Alternatives Working Group

Jane Bartlett
President
Arlington League of Women Voters

Charles L. Blake
Chief, Airport Group
Federal Aviation Administration

Fredrick Bradley
Vice President
Citibank N.A.

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

Richard D. Fitzsimmons
Director, Advanced Program Planning
Douglas Aircraft Company

Jack I. Hope
General Manager, International Engine Group
General Electric Company

William Sens
Pratt and Whitney Engine Company

Armand Sigalla
Chief, Technology Preliminary Design
Boeing Commercial Airplane Company

Robert W. Simpson
Director, Flight Transportation Laboratory
Massachusetts Institute of Technology

David S. Stempler
Airline Passengers Association, Inc.

Barney Vierling
Retired, Formerly with the U.S. SST Program Manager

John Wesler
Acting Director for Environment and Energy
Federal Aviation Administration
Low-Density Working Group
Raymond A. Ausrotas
Flight Transportation Laboratory
Massachusetts Institute of Technology
Jane H. Bartlett
President
Arlington League of Women Voters
David Brewster
Babcock and Schmid Associates, Inc.
Tulinda Deegan
Director, Government Relations
Commuter Airlines Association of America
Marcy Fannon
Retired, Formerly Vice President
Eastern Airlines
Joseph M. Fugere
President
Pilgrim Airlines
Stanley Green
General Aviation Manufacturers Association
Harry W. Johnson
General Aviation Office
NASA Headquarters
Adib Kanafani
Institute of Transportation Studies
University of California
David S. Stempler
Airline Passengers Association, Inc.
Janet St. Mark
President
SMS Associates, Inc.
Shirley Ybarra
Simat, Helliesen, and Eichner

Air Cargo Working Group
Keith G. Brady
Manager, Innovative Concepts Development
Boeing Commercial Airplane Company
Douglas A. Fisher
Assistant General Manager
Emery Air Freight
Joel H. Fisher
Director and Washington Counsel
Seaboard World Airlines
E. R. Hichens
Manager, Traffic Systems
Sears Roebuck and Company
William H. Kuhlman
Douglas Aircraft Company
Dennis J. Marshall
Manager, Development and Operation Engineering
Federal Express Corporation
William T. Mikolowsky
Manager, Operation Research Department
Lockheed Georgia Company
George A. Pasquet
Scott Air Force Base
William F. Pieper
Director, Technology Development
Flying Tiger Line
Ray Siewert
Technical Specialist for Aeronautical Technology
Pentagon
Nawal K. Taneja
Massachusetts Institute of Technology
Matthew M. Winston
NASA Langley Research Center
Shirley Ybarra
Simat, Helliesen, and Eichner