### Participants in OTA workshops

#### Animal Technology Workshop Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Phillips</td>
<td>(Co-leader) Project Director, Office of Technology Assessment, U.S. Congress, Washington, DC</td>
</tr>
<tr>
<td>Yao-chi Lu</td>
<td>(Co-leader) Senior Analyst, Office of Technology Assessment, U.S. Congress, Washington, DC</td>
</tr>
<tr>
<td>C. Eugene Allen</td>
<td>Professor and Associate Dean, College of Agriculture, University of Minnesota, St. Paul, MN</td>
</tr>
<tr>
<td>Howard Bachrach</td>
<td>Consultant, Agricultural Research Service, Plum Island Disease Center, U.S. Department of Agriculture, Greenport, NY</td>
</tr>
<tr>
<td>Roger Breeze</td>
<td>Director of Research, College of Veterinary Medicine, Washington State University, Pullman, WA</td>
</tr>
<tr>
<td>Keith Brown</td>
<td>Professor, Department of Poultry Science, Ohio State University, Wooster, OH</td>
</tr>
<tr>
<td>John Campbell</td>
<td>Professor, North Platte Agricultural Experiment Station, North Platte, NE</td>
</tr>
<tr>
<td>Dennis Campion</td>
<td>Research Leader, Animal Physiology Research, Richard B. Russell Research Center, U.S. Department of Agriculture, Athens, GA</td>
</tr>
<tr>
<td>B. Joe Conlin</td>
<td>Extension Dairy Specialist, University of Minnesota, St. Paul, MN</td>
</tr>
<tr>
<td>Larry Corah</td>
<td>Extension Beef Cattle Specialist, Kansas State University, Manhattan, KS</td>
</tr>
<tr>
<td>Nicholas Cross</td>
<td>President, Cattle Code America, Schiller Park, IL</td>
</tr>
<tr>
<td>Stanley E. Curtis</td>
<td>Professor, Department of Animal Science, University of Illinois, Urbana, IL</td>
</tr>
<tr>
<td>James R. Fischer</td>
<td>Associate Director, Agricultural Experiment Station, Michigan State University, East Lansing, MI</td>
</tr>
<tr>
<td>Harold Hafs</td>
<td>Vice President, Agricultural Research, Merck Institute for Therapeutic Research, Rahway, NJ</td>
</tr>
<tr>
<td>William Hansel</td>
<td>Liberty Hyde Bailey Professor of Animal Physiology, Department of Physiology, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY</td>
</tr>
<tr>
<td>Maynard Hogberg</td>
<td>(Swine group leader) Extension Swine Specialist, Michigan State University, East Lansing, MI</td>
</tr>
</tbody>
</table>
Alan Holiday
Vice-President for Research and Development
Farmland Industries
Kansas City, MO

Keith Hera
Farmer
Riverside, IA

Ronald Knutson (Dairy group leader)
Professor
Department of Agricultural Economics
Texas A&M University
College Station, TX

Sid E. Kunz
Research Leader
U.S. Livestock Insects Laboratory
Agricultural Research Service
U.S. Department of Agriculture
Kerrville, TX

Juliette Linzer
Research Assistant
Office of Technology Assessment
U.S. Congress
Washington, DC

Charles McGinnis
Farmer
Kinards, SC

John McKnight, Jr.
Farmer
Searcy, AR

A.J. Muehling
Professor
Agricultural Engineering Extension Specialist
Agricultural Engineering Department
University of Illinois
Urbana, IL

John Nye
Professor
Agricultural Engineering Department
Purdue University
West Lafayette, IN

P.A. Oltenacu
Associate Professor of Systems Analysis
Department of Animal Science
Cornell University
Ithaca, NY

B.I. Osburn
Professor of Pathology
Associate Dean of Research
School of Veterinary Medicine
University of California
Davis, CA

John Paterson
Associate Professor
Animal Science Research Center
University of Missouri
Columbia, MO

Wilson G. Pond
Research Leader
Agricultural Research Service
Roman L. Hruska U.S. Meat Animal Research Center
U.S. Department of Agriculture
Clay Center, NE

Rod Preston
Thornton Distinguished Professor
Department of Animal Sciences
Texas Tech University
Lubbock, TX

Hoyle B. Puckett
Research Leader
ARS-USDA
University of Illinois
Urbana, IL

Allan Rahn (Poultry group leader)
Professor
Department of Animal Science
Michigan State University
East Lansing, MI

Dave Reed
Director of Clinical Research and Immunology
Molecular Genetics, Inc.
Minnetonka, MN

Robert Reining
Analyst
Office of Technology Assessment
U.S. Congress
Washington, DC
Plant, Soil, and Water Technology Workshop Participants

Michael Phillips (Co-leader)
Project Director
Office of Technology Assessment
U.S. Congress
Washington, DC

Yao-chi-Lu (Co-leader)
Senior Analyst
Office of Technology Assessment
U.S. Congress
Washington, DC

Delmar Akerlund
Farmer
Valley, NE

Martin Alexander
Professor of Soil Microbiology
Department of Agronomy
Cornell University
Ithaca, NY

Joseph A. Berry
Staff Member
Plant Biology Department
Carnegie Institution of Washington
Stanford, CA

Larry L. Boersma
Professor of Soil Physics
Department of Soil Science
Oregon State University
Corvallis, OR

J.A. Browning
Chairman
Department of Plant Sciences
Texas A&M University
College Station, TX

Bill Burrows
Manager
Product Systems Research
Deere & Co.
Moline, IL

John A. Chapman
Vice President
Engineering, Irrigation Division
Valmont Industries
Valley, NE
App. C—Participants in OTA Workshops

Louie J. Chapman
Head
Extension Agronomy
Auburn University
Auburn, AL

C.H. Davis
Director of Chemical Division
National Fertilizer Development Center
Tennessee Valley Authority
Muscle Shoals, AL

Lynn Forster (Corn group leader)
Associate Professor
Department of Agricultural Economics and Rural Sociology
Ohio State University
Columbus, OH

George R. Foster
Hydraulic Engineer
National Soil Erosion Lab
ARS-USDA
Purdue University
West Lafayette, IN

Robert Fraley
Manager
Plant Molecular Biology Group
Monsanto Agriculture Products Co.
St. Louis, MO

Charles Francis
Professor
Department of Agronomy
University of Nebraska
Lincoln, NE

Nicholas M. Frey
Director, Department of Bio-Technology Research
Pioneer Hi-Bred, Inc.
Johnston, IA

Arthur Gerlow (Rice group leader)
Economist
Texas A&M University
Bryan, TX

Don W. Graffis
Professor
Extension Agronomist
University of Illinois
Urbana, IL

W.R. Guthrie
Vice President
Agricultural Research
Butler Manufacturing Co.
Grandview, MO

Robert Hall
Assistant Professor
Extension Agronomist
Plant Science Department
Brookings, SD

Paul Hedin
Research Leader
Chemistry Research Unit
Boll Weevil Research Laboratory
ARS-USDA
Mississippi State, MS

Alan Holiday
Vice President for Research and Development
Farmland Industries
Kansas City, MO

Bobby A. Huey
Extension Agronomist
University of Arkansas
Stuttgart, AR

Robert Jolly (Soybeans group leader)
Associate Professor
Department of Economics
Iowa State University
Ames, IA

George Kennedy
Associate Professor
Department of Entomology
North Carolina State University
Raleigh, NC

John Knepler
Manager, Design Engineering
DICKEY-john, Corp.
Auburn, IL

Ron Lacewell (Cotton group leader)
Professor
Department of Agricultural Economics
Texas A&M University
College Station, TX
William Liebhardt
Assistant Director
Rodale Research Center
Kutztown, PA

Juliette Linzer
Research Assistant
Office of Technology Assessment
U.S. Congress
Washington, DC

Chester G. McWhorter
Chief, Southern Weed Science Laboratory
Agricultural Research Service
Delta State Research Center
U.S. Department of Agriculture
Stoneville, MS

Thomas A. Miller (Wheat group leader)
Research Leader
ERS-USDA
Colorado State University
Fort Collins, CO

Page W. Morgan
Professor of Plant Physiology
Department of Plant Sciences
Texas A&M University
College Station, TX

Louis G. Nickell
Vice President of Research and Development
Velsicol Chemical Co.
Chicago, IL

Paul Nixon
Agricultural Engineer
Soil and Water Conservation Research
Agricultural Research Service
U.S. Department of Agriculture
Weslaco, TX

Bob Nowatzki
Farmer
Langdon, ND

James H. Palmer
Extension Agronomist
Professor of Agronomy and Soils
Clemson University
Clemson, SC

Buford Perry
Farmer
Lake Providence, LA

Robert Reining
Analyst
Office of Technology Assessment
U.S. Congress
Washington, DC

Barry Richmond
Assistant Professor
Dartmouth College
Hanover, NH

William Riddle
Research Leader
Food and Agricultural Economics
Battelle Columbus Laboratories
Columbus, OH

Bill Robertson
Farmer
Holly Ridge, MS

Robert L. Schafer
Research Leader
Tillage Research
National Tillage Machinery Laboratory
U.S. Department of Agriculture
Auburn, AL

Lyle Schertz
Senior Economist
Economic Research Service
U.S. Department of Agriculture
Washington, DC

James W. Searcy
Research Manager
E.I. du Pont de Nemours & Co.
Stine-Haskell Research Center
Newark, DE

B. Stout
Professor
Agricultural Engineering Department
Texas A&M University
College Station, TX

E.D. Threadgill
Associate Professor
Agricultural Engineering Department
Coastal Plain Experimental Station
University of Georgia
Tifton, GA

Larry Williams
Farmer
Hoopeston, IL
Agricultural Structure and Natural Environment and Resources
Workshop Participants

Resource Persons

Robert Fraley
Manager
Plant Molecular Biology Group
Monsanto Agriculture Products Co.
St. Louis, MO

Charles Francis
Professor
Department of Agronomy
University of Nebraska
Lincoln, NE

William Hansel
Liberty Hyde Bailey Professor of Animal Physiology
Department of Physiology
New York State College of Veterinary Medicine
Cornell University
Ithaca, NY

B.I. Osburn
Professor of Pathology
Associate Dean of Research
School of Veterinary Medicine
University of California
Davis, CA

William Riddle
Research Leader
Food and Agricultural Economics
Battelle Columbus Laboratories
Columbus, OH

Jeffrey Ruckman
Engineer
Food and Agricultural Economics
Battelle Columbus Laboratories
Columbus, OH

Agricultural Structure Group

Michael Boehlje (Co-leader)
Professor and Head
Department of Agricultural and Applied Economics
University of Minnesota
St. Paul, MN

Boyd Buxton
Economist
ERS-USDA
University of Minnesota
St. Paul, MN

James Cothern
Extension Economist
Department of Agricultural Economics
University of California
Davis, CA

Lynn Forster
Associate Professor
Department of Agricultural Economics and Rural Sociology
Ohio State University
Columbus, OH

Gene Futrell
Professor
Department of Economics
Iowa State University
Ames, IA

Harold Harris
Professor
Department of Agricultural Economics
Clemson University
Clemson, SC

Lester Myers
Branch Chief
Food Economics
Economic Research Service
U.S. Department of Agriculture
Washington, DC

George Mew
Industry Analyst
Farmland Industries
Kansas, City, MO

Allan Rahn
Professor
Department of Animal Science
Michigan State University
East Lansing, MI

Michael Phillips (Co-leader)
Project Director
Office of Technology Assessment
U.S. Congress
Washington, DC

Thomas Sporleder (Co-leader)
Professor
Department of Agricultural Economics
Texas A&M University
College Station, TX
Lyle Schertz  
Senior Economist  
Economic Research Service  
U.S. Department of Agriculture  
Washington, DC

Lee Schrader  
Professor  
Department of Agricultural Economics  
Purdue University  
West Lafayette, IN

Ronald Ward  
Professor  
Department of Food and Resource Economics  
University of Florida  
Gainesville, FL

Dellworth Gardner  
Professor  
Department of Agricultural Economics  
University of California  
Davis, CA

Clyde Kiker  
Associate Professor  
Department of Food and Resource Economics  
University of Florida  
Gainesville, FL

Randall Kramer  
Associate Professor  
Department of Agricultural Economics  
Virginia Polytechnic Institute  
Blacksburg, VA

James Moore  
Associate Professor  
Agricultural Engineering Department  
Oregon State University  
Corvallis, OR

Ford Runge  
Assistant Professor  
Department of Agricultural and Applied Economics  
University of Minnesota  
St. Paul, MN

Ray Supalla  
Associate Professor  
Department of Agricultural Economics  
University of Nebraska  
Lincoln, NE

Robert Todd  
Professor and Head  
Department of Microbiology  
South Dakota State University  
Brookings, SD

Natural Environment and Resources Group

James Hite (Co-leader)  
Professor  
Department of Agricultural Economics  
Clemson University  
Clemson, SC

Yao-chi-Lu (Co-leader)  
Senior Analyst  
Office of Technology Assessment  
U.S. Congress  
Washington, DC

Robert Fraley  
Manager  
Plant Molecular Biology Group  
Monsanto Agricultural Products Co.  
St. Louis, MO

Charles Francis  
Professor  
Department of Agronomy  
University of Nebraska  
Lincoln, NE