



Innovations in the Food System: Shaping the Future of Food

Food Forum Workshop

August 7-8, 2019

The National Academy of Sciences Building, Lecture Room
2101 Constitution Avenue, NW, Washington, DC

DAY 1. August 7. 8:30 AM – 5:30 PM

- 8:30 AM** **Welcome & Opening Remarks**
Sylvia Rowe, Food Forum Chair, SR Strategy, LLC
- 8:40 AM** **SESSION 1: Taking a Broad Look at the Food System**
Moderator: Jennifer Otten, Planning Committee Member, University of Washington
- The Usefulness of Systems Approaches in Addressing Food Systems Innovations**
Kate Clancy, Johns Hopkins University
- Future of the Future of Food Systems**
Roni Neff, Planning Committee Member, Johns Hopkins University
- 10-minute Discussion/Q&A**
- 9:30 AM** **SESSION 2: Game-changing Innovations in Food Production, Processing, and Packaging, and Implications for Food Systems**
Session Moderator: Helen Jensen, Planning Committee Member, Iowa State University
- Food Systems Linkage to Rural Economic Development**
Becca Jablonski, Colorado State University
- Urban Food System Innovations—Multiscale Modeling and Action Analysis**
Anu Ramaswami, Princeton University
- Blockchain and Implications for the Food System**
Dawn Jutla, Peer Ledger Inc.
- 15-minute Discussion/Q&A**
- 10:45 AM** **15-MINUTE BREAK**

11:00 AM **SESSION 3: Game-changing Innovations in *Alternative Food Production* and Implications for Food Systems**
Moderator: Naomi Fukagawa, Planning Committee Member, U.S. Department of Agriculture

How Game-Changing is Alternative Food Production for the Entire Food System?

Jan Dutkiewicz, Johns Hopkins University

Alternative Food Production Systems: The Science and Implications

James Reecy, Iowa State University

Alternative Food Production: Consumer Concerns

Michael Hansen, Consumer Reports

15-minute Discussion/Q&A

12:15 PM **LUNCH**

1:30 PM **SESSION 4: Game-changing Innovations in *Food Distribution* and Implications for Food Systems**

Moderator: Helen Jensen, Planning Committee Member, Iowa State University

Innovations in Logistics

Michelle Miller, University of Wisconsin

Innovations in Food Packaging

Claire Sand, Packaging Technology and Research, LLC

Considerations for the Use of Autonomous Vehicles and Drones in Sustainable Food Distribution

Brent Heard, University of Michigan

15-minute Discussion/Q&A

2:45 PM **15-MINUTE BREAK**

3:00 PM **SESSION 5: Game-changing Innovations in *Food Marketing and Food Value Chains* and Implications for Food Systems**

Moderator: Christina Khoo, Planning Committee Member, Ocean Spray Cranberries, Inc.

Water/Land-use: Considerations for Feasibility of Value Chains and the Food System

Christian Peters, Tufts University

Innovations for Supporting Contracting in Supply Chains

Jill McCluskey, Washington State University

Production Claims and Consumer Behavior/Marketing Channels

Brenna Ellison, University of Illinois Urbana-Champaign

15-minute Discussion/Q&A

4:15 PM EXPLORING CASES OF FOOD SYSTEM EVOLUTION: FEDERAL GOVERNMENT AND BUSINESS

Moderator: Jennifer Otten, Planning Committee Member, University of Washington

How Food Systems are Evolving within Federal Programs

Tricia Kovacs, U.S. Department of Agriculture

The Food Asset Potential

Thomas McQuillan, Baldor Specialty Foods

~30-minute Discussion/Q&A

5:30 PM ADJOURN DAY 1

DAY 2, August 8, 8:30 AM – 12:00 PM

8:30 AM Welcome & Opening Remarks

Sylvia Rowe, Food Forum Chair, SR Strategy, LLC

8:35 AM BRIEF RECAP OF DAY 1

Jean Halloran, Planning Committee Member, Consumer Reports

8:45 AM SESSION 6: Game-changing Innovations in *Food Data and Analytics* and Implications for Food Systems

Moderator: Christina Khoo, Planning Committee Member, Ocean Spray Cranberries, Inc.

Scaling Food Waste Prevention Globally Through Measurement and Analytics

Steve Finn, Leanpath

Innovations to Mitigate Food Waste: From the Farm to the Consumer

Norbert Wilson, Tufts University

Modeling the Nutritional Implications of Food Waste Mitigation

Brad Rickard, Cornell University

15-minute Discussion/Q&A

- 10:00 AM** **SESSION 7: Game-changing Innovations in *Food Access and Affordability* and Implications for Food Systems**
Moderator: Roni Neff, Planning Committee Member, Johns Hopkins University
- Redesigning Food Access**
Nevin Cohen, City University of New York
- Black Church Food Security Network**
Rev. Dr. Heber Brown, III, Pleasant Hope Baptist Church, Baltimore, MD
- Food Quality in Food Assistance/Emergency Food**
Rhonda Gonzalez, Community Food Bank of Southern Arizona
- 15-minute Discussion/Q&A**
- 11:15 AM** **15-MINUTE BREAK**
- 11:30 AM** **WORKSHOP CLOSING DISCUSSION: EVOLUTION AND REVOLUTION OF OUR FOOD SYSTEMS**
Moderator: Naomi Fukagawa, Planning Committee Member, U.S. Department of Agriculture
- Panelists:**
Jean Halloran, Planning Committee Member, Consumer Reports
Helen Jensen, Planning Committee Member, Iowa State University
Christina Khoo, Planning Committee Member, Ocean Spray Cranberries, Inc.
Roni Neff, Planning Committee Member, Johns Hopkins University
Jennifer Otten, Planning Committee Member, University of Washington
- 12:00 PM** **ADJOURN WORKSHOP**

Planning Committee

Yvette Cabrera, M.A.

Project Manager
Food Matters
Natural Resources Defense Council, Inc.

Christina Khoo, Ph.D.

Director
Research Sciences
Ocean Spray Cranberries, Inc.

Naomi K. Fukagawa, M.D., Ph.D.

Director
Beltsville Human Nutrition Research Center
Agricultural Research Service
U. S. Department of Agriculture

Roni Neff, Ph.D., Sc.M.

Associate Professor
Department of Environmental Health and
Engineering
Director
Food System Environmental Sustainability and
Public Health
Center for a Livable Future
Johns Hopkins University

Jean Halloran, B.A.

Director
Food Policy Initiatives
Consumer Reports

Jennifer Otten, Ph.D., M.S., R.D.

Associate Professor
Environmental and Occupational Health
Sciences
University of Washington

Helen H. Jensen, Ph.D., M.S.

Professor Emerita
Department of Economics
Iowa State University
Center for Agricultural & Rural Development

The Food Forum convenes scientists, administrators, and policymakers from academia, government, industry, and public sectors on an ongoing basis to discuss problems and issues related to food, food safety, and regulation and to identify possible approaches for addressing those problems and issues. The Forum provides a rapid way to identify areas of concordance among these diverse interest groups. It does not make recommendations, nor does it offer specific advice. It does compile information, develop options, and bring interested parties together.

The Food and Nutrition Board (FNB) established the Food Forum in 1993 to allow selected science and technology leaders in the food industry, top administrators in the federal government, representatives from consumer interest groups, and academicians to periodically discuss and debate food and food related issues openly and in a neutral setting. The Forum provides a mechanism for these diverse groups to identify possible approaches for addressing food and food safety problems and issues surrounding the often complex interactions among industry, academia, regulatory agencies, and consumers.

About the FNB: The FNB falls within the Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine. The Academies are private, nonprofit institutions that provide independent, objective analysis and advice to the nation to solve complex problems and inform public policy decisions related to science, technology, and medicine. The Academies operate under an 1863 congressional charter to the National Academy of Sciences, signed by President Lincoln.

<http://www.nationalacademies.org/foodforum>