

Innovations in the Food System: Shaping the Future of Food

Moderator and Speaker Biographical Sketches

Welcome & Opening Remarks

Sylvia Rowe, M.A. (Food Forum chair), is President of SR Strategy, which addresses the science to communications to policy continuum on a broad range of global health, nutrition, food safety, and risk issues. Ms. Rowe is also an adjunct professor at the University of Massachusetts, Amherst and Tufts Friedman School of Nutrition Science and Policy. Previously, Ms. Rowe served as president and chief executive officer of the International Food Information Council (IFIC) and IFIC Foundation. During her eleven-year tenure, IFIC established itself as a leader in consumer research and consumer-based communications in nutrition, food safety, and health. Ms. Rowe has served on several Boards and Advisory Committee including as a member of the Roundtable on Obesity Solutions at the National Academy of Sciences, Engineering, and Medicine. Ms. Rowe is also a member of the International Women's Leadership Forum and the National Press Club among other professional groups. Ms. Rowe's background in media and expertise in issues management are reflected in her professional history as a producer and on-air host of several television and radio talk shows covering social, political, and economic and consumer issues. She also previously held positions in public relations, marketing, and membership development for several diverse associations. Ms. Rowe received a bachelor's degree from Wellesley College and a master's degree from Harvard University.

SESSION 1: Taking a Broad Look at the Food System

Jennifer Otten, Ph.D., M.S., R.D. (moderator), is Associate Professor in Environmental and Occupational Health Sciences, core faculty in the Nutritional Sciences Program, and affiliated with the University of Washington Center for Public Health Nutrition. Between 1998 and 2006, Dr. Otten served in various capacities for the Institute of Medicine (IOM) (now the Health and Medicine Division) of the National Academy of Sciences in Washington D.C., including as a study director and as the organization's first communications director. During this time, she managed and staffed the inaugural years of the Kellogg Health of the Public Fund and served as study director and co-editor for the IOM's report titled *Dietary Reference Intakes (DRIs): The Essential Guide to Nutrient Requirements*. Dr. Otten received her B.S. in nutritional sciences from Texas A&M University, her M.S. in nutrition communications from Tufts University, her Ph.D. in animal, nutrition, and food sciences from the University of Vermont, and completed a postdoctoral research fellowship at the Stanford Prevention Research Center in the Stanford University School of Medicine. She completed her dietetic internship at Massachusetts General Hospital, Boston.

Kate Clancy, Ph.D., is currently a food systems consultant, Visiting Scholar at the Center for a Livable Future Johns Hopkins University Bloomberg School of Public Health, Adjunct Professor at Tufts University, Visiting Teaching Professor at the Falk College, Syracuse University, and Senior Fellow in the Minnesota Institute for Sustainable Agriculture, University of Minnesota. Her resume includes positions at Cornell and Syracuse University and sabbatical appointments at the Universities of Wisconsin and Minnesota, the latter as a rotating endowed chair in 2007. She has worked as a nutrition and policy advisor at the Federal Trade Commission, and at several nonprofits, such as the Wallace Center. Dr. Clancy developed a graduate course on food systems in 1982 and since then has published, taught, spoken, and consulted widely on sustainable agriculture, food systems, and food policy with government agencies, universities, and nonprofits around the country. She coined the term and concept of "sustainable diets" in 1983, and continues to work on

that issue. She has served on many boards including the Society for Nutrition Education, Bread for the World, and the Institute for Alternative Agriculture. She was the deputy director of the USDA-funded seven-year EFSNE systems project in the Northeast United States, and engages with many initiatives including Agriculture of the Middle and It Takes a Region. She publishes a column in the *Journal of Agriculture, Food Systems and Community Development* on topics related to the application of systems concepts to food systems. Dr. Clancy earned her doctorate in nutrition at the University of California, Berkeley.

Roni Neff, Ph.D., Sc.M., is Associate Professor in the Johns Hopkins Bloomberg School of Public Health's departments of Environmental Health & Engineering and Health Policy & Management. She also directs the Food System Sustainability and Public Health program at the Johns Hopkins Center for a Livable Future, an academic center focused on food systems and public health. Dr. Neff's work is driven by concern about the challenges we confront in the effort to meet future food needs; about food's outsized impact on global environmental challenges; and about the inequities that threaten current and future food security. Her research, policy, and practice efforts focus in three main areas: 1) wasted food; 2) sustainable and plant-based diets; and 3) urban food system resilience. She has worked closely with the city of Baltimore to support their food system resilience planning, and is currently working to develop indicators for use in modeling and to enable cities to track progress. She uses qualitative and quantitative tools to explore the social and policy questions needed to understand and address these food system challenges, with particular focus on consumer behavior and communications. She is especially interested in grappling with the complex social realities that complicate well-meaning public health efforts. Dr. Neff edited the first-ever textbook on food systems and public health. She has led the American Public Health Association's Food & Environment Working Group and is currently on the board of the Agriculture, Food & Human Values Society, among other leadership roles. She received her A.B. from Brown University, master's degree from the Harvard T.H. Chan School of Public Health, and Ph.D. from the Johns Hopkins Bloomberg School of Public Health.

SESSION 2: Game-changing Innovations in Food Production, Processing, and Packaging, and Implications for Food Systems

Helen H. Jensen, Ph.D. (moderator), is Professor Emerita of Economics at Iowa State University and affiliated with the Center for Agricultural and Rural Development (CARD). CARD is an internationally recognized research center that addresses issues of the food, agricultural, and natural resource sectors. Her research addresses the economics and design of food and nutrition programs and policies, food insecurity, food demand and markets, and food safety regulations and builds on strong, interdisciplinary collaborations. For nearly 30 years, she led a research program in CARD that applies economic theories to problems related to food and nutrition policies, including evaluations of the costs and effectiveness of nutritional and dietary interventions and policies. She was elected Fellow of the Agricultural and Applied Economics Association (AAEA) in 2012. She has served on several committees of the National Academies of Sciences, Engineering, and Medicine, including the recent committee on Science Breakthroughs to Advance Food and Agricultural Research, and Institute of Medicine Committee to Review the WIC Food Packages, and was a member of the WHO Initiative to Estimate the Global Burden of Foodborne Diseases, Foodborne Disease Burden Epidemiology Reference Group (Policy Subgroup). Dr. Jensen holds a B.A. in economics from Carleton College, a M.S. in agricultural economics from the University of Minnesota, and Ph.D. in agricultural and applied economics from the University of Wisconsin-Madison.

Becca Jablonski, Ph.D., is Assistant Professor and Food Systems Extension Economist in the Department of Agricultural and Resource Economics at Colorado State University. As part of her position, she facilitates the Colorado Governor's Food Systems Advisory Council and is a co-leader of Colorado State University's Food Systems Extension Team. Dr. Jablonski's research and extension program is comprised of two primary components: 1) evaluating the farm and ranch profitability impacts of sales through non-commodity markets (e.g., local food markets, certification, or other product differentiation strategies); and 2) assessing the community economic impacts of food system policies, investments, and programs. Dr. Jablonski holds a Ph.D. from Cornell University.

Anu Ramaswami, Ph.D., is Professor at Princeton University in the departments of India studies, civil and environmental engineering, and at the Princeton Environmental Institute. She is an interdisciplinary environmental engineer recognized as a pioneer and leader on the topic of sustainable urban systems. Her work takes a whole urban systems approach, exploring how seven key sectors—that provide water, energy, food, buildings, mobility, connectivity, waste management and green/public spaces—shape human and environmental wellbeing, from local to global scales. She brings expertise across multiple disciplines: environmental science and engineering, industrial ecology, public health and public affairs, with a human-centered and systems approach. She was appointed in August 2019 as the inaugural director of the M.S. Chadha Center for Global India at the Princeton Institute of International and Regional Studies. She is also the Lead PI and Director of the NSF-supported Sustainable Healthy Cities Network, which spans nine universities and engages with several cities across the U.S. and internationally on topics related to urban infrastructure. Dr. Ramaswami is a member of the UN Environment's International Resource Panel and the National Science Foundation's Advisory Committee for Environmental Research and Education (AC-ERE), and has been elected chair of the 2020 Gordon Research Conference on Industrial Ecology. She received her B.S. in chemical engineering from the Indian Institute of Technology Madras in Chennai and her Ph.D. in civil and environmental engineering from Carnegie Mellon University.

Dawn Jutla, Ph.D., M.Sc., is Founder, President, and Board Chair of Peer Ledger, a company founded in 2016. The company makes the MIMOSI SaaS application for Responsible Sourcing, which is built on Hyperledger Fabric, an open source Blockchain platform in the Hyperledger family. MIMOSI on Hyperledger Fabric enables organizations to collaboratively track and trace food, livestock, and other items across all tiers of their supply chains in seconds. Leveraging the blockchain's single source of truth and immutability properties, complementary materials authentication and IoT technologies, the MIMOSI application's new multi-tier supply chain transparency and smart contracts provide further controls to help counteract food or materials' fraud and fight modern slavery and environmental harms. Dr. Jutla spent 20+ years doing multi-disciplinary R&D in computer science and business at the Sobey School of Business where she founded the Master of Technology Entrepreneurship and Innovation (MTEI) program 7 years ago. She currently holds the post of the Scotiabank Professor of Technology Entrepreneurship and Innovation. Over her career, she has co-authored over 90 peer-reviewed scientific publications, and earned a World Technology Award for IT Software in the Individual Category for her R&D contributions to online privacy. She is a co-author of a Pearson IT Professional Series book entitled: *e-Business Readiness: A Customer-Focused Framework*. Dr. Jutla has 15 years of cumulative Board experience across several industries. She has served as a Director of OASIS, a U.S. headquartered international standards consortium, a Governor of Saint Mary University (Canada), and a Director on the Board of the IWK Health Centre. Dr. Jutla received her master's and Ph.D. degrees in computer science, in the areas of distributed shared memory and multi-view access control respectively, from the Technical University of Nova Scotia/Dalhousie University.

SESSION 3: Game-changing Innovations in Alternative Food Production and Implications for Food Systems

Naomi K. Fukagawa, M.D., Ph.D. (moderator), is Director of the USDA Beltsville Human Nutrition Research Center, in Beltsville, MD. Dr. Fukagawa previously served as professor of medicine and acting director of the Gerontology Unit at the University of Vermont in Burlington, VT. Dr. Fukagawa is a board-certified pediatrician and an expert in nutritional biochemistry and metabolism, including protein and energy metabolism; oxidants and antioxidants; and the role of diet in aging and chronic diseases, such as diabetes mellitus. She has served on numerous NIH review panels, served as chairman of the NIH study section for General Clinical Research Centers and completed a 5-year term on the NIH Integrated Physiology of Obesity and Diabetes Study Section. Her membership in the American Society for Clinical Investigation, election as President of the American Society for Clinical Nutrition (American Society for Nutrition), and service as an Associate Editor for the American Journal of Clinical Nutrition, as Editor-in-Chief of Nutrition Reviews, and as Vice-Chair of the 2010 Dietary Guidelines Advisory Committee of the USDA and HHS speak to her national/international recognition. Her clinical training included residency at the Children's Hospital of Philadelphia, University of Pennsylvania, chief residency at the University of Vermont, and nutrition/ gerontology fellowships at the Children's Hospital and Beth Israel Hospital, Harvard Medical School. Dr. Fukagawa has maintained an active research laboratory where her work ranges from cells and animals to in vivo studies in human volunteers. Her present work focuses on the impact of environmental stressors (metabolic or physical) on human health, specifically the health effects of exposure to petrodiesel and biodiesel exhaust. She received her Ph.D. from the Massachusetts Institute of Technology in Cambridge and her M.D. degree from Northwestern University.

Jan Dutkiewicz, Ph.D., M.Phil., M.A., M.B.A., is the Connie Caplan Post-Doctoral Fellow in American Politics at Johns Hopkins University. His research examines the relationship between corporate and political power in the American food system. Dr. Dutkiewicz's scholarly work has been published in an interdisciplinary range of academic journals, he has written for newspapers including *The Guardian* and *The Washington Post*, and his research has been covered by *The Wall Street Journal* and *Pacific Standard* among other major news outlets. He has just completed the manuscript of his first book, *Capitalist Pigs*, which examines how the American meat industry shapes policy and politics, food choices, and ethical debates about farmed animals in the contemporary United States. Dr. Dutkiewicz holds a M.A. from Victoria University, a M.B.A. from Carleton University, and a Ph.D. and M.Phil. in politics from the New School for Social Research.

James Reecy, Ph.D., M.S., currently serves as Associate Vice President for Research where he oversees the Office of Sponsored Programs Administration and internal funding programs and fosters the development of interdisciplinary teams at Iowa State University. He joined the faculty of Iowa State University in February of 1999 and is currently a Professor in the Department of Animal Science. He served as the Director of the Office of Biotechnology, which administered 10 fee-for-service core facilities for 10 years. Dr. Reecy currently is the NRSP-8 database coordinator, where he leads national efforts to improve the computational resources available for genomics research on livestock species. In addition, he is currently serving as a 2018 Association of Public and Land Grant Universities (APLU) Council on Research Fellow. During his career, Dr. Reecy has worked on problems in ruminant nutrition, skeletal muscle growth and development, embryonic heart development, beef and mouse molecular and quantitative genetics, and livestock bioinformatics. His lab has worked on beef cattle molecular genetics with a focus on improving the nutrient content of beef and health of cattle, as well as, the development of database resourced to facilitate genomics

research. Dr. Reecy received a B.S. degree from South Dakota State University, a M.S. degree from the University of Missouri, Columbia, and a Ph.D. degree from Purdue University.

Michael Hansen, Ph.D., is Senior Scientist Advocacy with Consumer Reports, where he has worked for more than 25 years. He develops policy, testifies at hearings in Washington, D.C., many states, and Canada, and has prepared comments on many proposed U.S. governmental rules and regulations on a variety of critical food safety and environmental health issues, including genetic engineering, mad cow disease, antibiotic use in agriculture. He also speaks on CR's concerns on these issues at meeting and conferences throughout the world. Additionally, he represents Consumers International, a federation of more than 200 consumer organizations in 110 countries, at Codex Alimentarius, the food standard setting organization of the United Nations, and other international fora. Dr. Hansen has served as an international expert on three different FAO/WHO Joint Expert Committees (1998, 2003, and 2007) that have dealt with genetic engineering and food safety assessments from food derived from genetically engineered animals. Dr. Hansen received his undergraduate degree from Northwestern University and his doctorate from the University of Michigan. He did post-graduate study at the University of Kentucky on the impacts of biotechnology on agricultural research.

SESSION 4: Game-changing Innovations in Food Distribution and Implications for Food Systems

Helen H. Jensen, Ph.D. (moderator), see biosketch in SESSION 2.

Michelle Miller, M.S., is Researcher and Associate Director at the Center for Integrated Agricultural Systems, the sustainable agriculture research center on the University of Wisconsin-Madison campus. She is a practicing economic anthropologist engaged in participatory action research with farmers and their communities. She was in the first cohort of the Donella Meadows Leaders Fellowship at the Sustainability Institute. In the 1990s, Ms. Miller worked for the World Wildlife Fund on agricultural pollution prevention. Since 2000, she has worked with fruit growers to assist them in their efforts to reduce pesticide risk and build regional markets. Her current projects focus on agriculture of the middle and regional food economies, food freight transportation and logistics, labor and land tenure, perennial agriculture, resiliency and climate change. She serves on the National Academies of Sciences, Engineering, and Medicine's Transportation Research Board's subcommittee on agricultural freight and Google's Refresh: Food + Tech panel. Ms. Miller holds a M.S. in environmental studies from the University of Wisconsin-Madison.

Claire Sand, Ph.D., M.S., is Owner and Founder of Packaging Technology and Research, LLC, and an Adjunct Professor at the University of Minnesota, Michigan State University, and CalPoly, as well as *Food Technology's* monthly Packaging columnist. She is a Global Packaging Leader with 30+ years of broad experience in the food science and packaging spectrum. She leads food packaging efforts involving packaging solutions to food waste and more sustainable packaging, as well as provides compelling technology business cases and implementation roadmaps to ease the path of innovative technologies. She is an IFT Fellow, serves on numerous Editorial Boards, is the author of the *Packaging Value Chain*, and is co-chair of pacfoodWaste. Claire has held previous positions in basic research, development market research, and marketing in Germany, Colombia, and Thailand and at Total Quality Marketing, Nestle, General Mills, Kraft Heinz, Safeway, and in academia. Dr. Sand holds a B.S. and M.S. in packaging from Michigan State University and a doctorate degree in food science and nutrition from the University of Minnesota.

Brent Heard is a Ph.D. Candidate with the Center for Sustainable Systems at the University of Michigan's School for Environment and Sustainability. Mr. Heard's work examines the sustainability implications of emerging technologies in the food system. He recently published a comparative life cycle assessment of meal kits and grocery store meals, and has also published research assessing the environmental impacts of autonomous vehicles in the food supply chain, as well as the effects of refrigerated supply chain introduction in developing food systems. Additionally, he has worked as a consultant and Sustainability Fellow for the National Academies of Sciences, Engineering, and Medicine's Science and Technology for Sustainability Program. Mr. Heard's Ph.D. advisor is Dr. Shelie Miller, and he received a B.S. from Carnegie Mellon University with a double major in economics and environmental policy and a minor in technology and policy.

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

Christina Khoo, Ph.D. (moderator), is Director of Research Sciences at Ocean Spray Cranberries, Inc., managing the research sciences group to develop a strategy for health platform to support cranberry health benefits and strengthen the Ocean Spray Brand. Her current focus is on urinary tract health, maintaining heart health, and improving lipid profile, obesity, inflammation and immune function. Dr. Khoo is also responsible for the pesticide screen strategy and analytical testing labs to ensure the high technical quality and improvement in testing efficiencies for incoming ingredients and the cranberry ingredients. Prior to that, she was a senior research scientist at Hills' Pet Nutrition where she was responsible for the gastrointestinal (GI) Health platform and developing basic and clinical research projects in 5 different areas for the improvement of GI health. She received her M.S. in nutritional sciences and Ph.D. in nutritional biochemistry at the University of Florida.

Christian Peters, Ph.D., M.S., is Associate Professor at the Friedman School of Nutrition Science and Policy, Tufts University. Dr. Peters studies the sustainability of food systems using computational modeling and through interdisciplinary research. He is interested in understanding how dietary patterns influence sustainability, how much food can be supplied through locally and regionally-scaled systems, and how transdisciplinary approaches can help to design and study such systems. Since joining the faculty of the Friedman School in 2010, Dr. Peters has been engaged in multiple, collaborative research projects on regional food systems and sustainable diets. Some of his best-known work includes development of a framework for estimating the land requirements of diets and human carrying capacity and a spatial modeling approach for mapping potential foodsheds. Dr. Peters teaches in the Agriculture, Food, and Environment program where he offers courses in Agricultural Science and Policy and Food Systems Modeling. He received his B.S. in environmental sciences from Rutgers, The State University of New Jersey, and his M.S. and Ph.D. in soil and crop sciences from Cornell University.

Jill McCluskey, Ph.D., is Regents Professor and Distinguished Professor of Sustainability in the School of Economic Sciences (SES) at Washington State University. She is incoming Director of SES and served as Associate Director 2015-19. Dr. McCluskey's research focuses on product quality and reputation, sustainable labeling, consumer preferences for new technology, and representation of women in STEM. An award-winning researcher, she has published more than 100 journal articles, many of which are highly cited. Her research has been funded by private foundations, NSF, and

USDA. She has served as major professor to 37 Ph.D. graduates. She is past President and Fellow of the Agricultural and Applied Economics Association and Fellow of the Western Agricultural Economics Association. She is a member of the Board on Agricultural and Natural Resources (BANR) of the National Academies of Sciences, Engineering, and Medicine. Her research has been highlighted by various media outlets including the *New York Times*, *National Public Radio*, and *Newsday*. She received her Ph.D. in agricultural and resource economics in 1998 from the University of California, Berkeley.

Brenna Ellison, Ph.D., is Associate Professor in the Agricultural and Consumer Economics Department and Faculty Affiliate in the Division of Nutritional Sciences at the University of Illinois in Urbana, IL. Her research and teaching programs focus on how people make food choices, particularly how information and other environmental factors impact those choices. More recently, her research portfolio also includes work on how people decide what not to eat, or waste. She has published more than 25 peer-reviewed articles and delivered more than 45 presentations to academic, industry, and policy audiences. Dr. Ellison received her Ph.D. from Oklahoma State University.

EXPLORING CASES OF FOOD SYSTEM EVOLUTION: FEDERAL GOVERNMENT AND BUSINESS

Jennifer Otten, Ph.D., M.S., R.D. (moderator), see biosketch in SESSION 1.

Tricia Kovacs, M.Sc., is Local and Regional Food Systems Policy Advisor in USDA's Agricultural Marketing Service, where she coordinates efforts across USDA to support the local and regional food sector—including direct-to-consumer, farm-to-institution, and regional processing, aggregation, and distribution. She also works on food safety priorities and represents USDA as a convener on the Food Safety Modernization Act Collaborative Training Forum. Prior to joining USDA, Ms. Kovacs managed Regional Markets programs at Washington State Department of Agriculture, where she was founding Program Manager for the state Farm to School Program and also led the Small Farm Direct Marketing Program. Ms. Kovacs was lead author on publications that help farmers and buyers understand complex market requirements, including *Bridging the GAPs Farm Guide: Good Agricultural Practices and On-Farm Food Safety for Small, Mid-Sized and Diversified Fruit and Vegetable Farms*, and *A School's Guide to Buying Washington-Grown Food*. Ms. Kovacs holds a B.A. from University of Virginia and a M.Sc. in sustainability, planning, and environmental policy from Cardiff University in Wales.

Thomas McQuillan, M.B.A., is Vice President, Strategy, Culture, and Sustainability at Baldor Specialty Foods, Inc. From 2002 to 2014, Mr. McQuillan managed the finances of IDC Corporation and eventually became its president. As president, he transformed a distressed, privately owned construction materials distribution company with negative profits into a best in class enterprise. Over his more than 10 years with IDC, Mr. McQuillan created and executed strategic initiatives that reduced debt and cash flow challenges while increasing sales, enhancing operational efficiency, and elevating customer satisfaction. In 2012, he sold IDC to Distribution International based in Houston, and remained as president of IDC until March of 2014. In 2015, Mr. McQuillan joined Baldor Specialty Foods, Inc. located in the Bronx, New York and serves on the company's executive team. As Director of Food Service Sales and Sustainability, he was tasked with creating the strategic plan to make Baldor's practices more sustainable. He spearheaded the SparCs ("scraps" spelled

backwards) initiative to reduce food waste throughout the company. Baldor's sustainability initiatives are also focused on overall waste reduction throughout the organization and, to that end, the company also launched a number of initiatives to become more energy efficient. In 2016, Mr. McQuillan assumed the role of Director of Food Service Sales and Sustainability. Servicing the restaurant trade for over 25 years is the core of Baldor's business; delivering world-class customer service and the highest quality produce and specialty food items on time and completely is their mission, as well as Mr. McQuillan's number one priority. In 2018, he was promoted to Vice President of Strategy, Culture and Sustainability. The primary sustainability objective this year is to achieve a zero organics waste to landfill goal company-wide. Mr. McQuillan earned his M.B.A. from St. John's University.

Brief Recap of Day 1

Jean Halloran is Director of Food Policy Initiatives at Consumer Reports. At Consumer Reports, she has led many projects on food safety, sustainable consumption, and trade issues. She is currently responsible for developing policy and staff initiatives on reducing antibiotic use on livestock and antibiotic resistance, as well as labeling of genetically engineered food. As director of the Consumers Union Consumer Policy Institute from 1981 to 2005, Ms. Halloran developed and supervised conferences, reports, and input to government agencies on pesticides, sustainable agriculture, organic labeling, toxic chemicals, and waste recycling, as well as intellectual property issues and health care, funded by the National Science Foundation, government agencies, and numerous private foundations. She has previously served on the U.S. State Department's Advisory Committee on International Economic Policy, the National Academy of Sciences' Board on Agriculture and Natural Resources, and the FDA Food Advisory Committee. Ms. Halloran helped organize the TransAtlantic Consumer Dialogue (TACD), a coalition of groups in Europe and the U.S., and serves as its U.S. liaison point. She represented Consumers International at Codex Alimentarius, in developing standards for safety assessment of genetically engineered foods. Ms. Halloran received her B.A. with honors from Swarthmore College.

SESSION 6: Game-changing Innovations in Food Data and Analytics and Implications for Food Systems

Christina Khoo, Ph.D. (moderator), see biosketch in SESSION 5.

Steven Finn, M.B.A., M.S., M.Phil, is Vice President of Food Waste Prevention for Leanpath, the global leader in integrated hardware and software solutions for food waste prevention, where he helps clients take control of their food waste while engaging employees in creating a culture of food waste prevention. Mr. Finn combines 25 years of strategy and control experience in the supply chain sector with a passion for sustainability and conscious capitalism. He has conducted extensive research into the problems of global food waste and food security while developing innovative public-private partnerships to capture and redistribute excess food to mitigate hunger. He is a frequent speaker on food waste issues, served as co-chair of The Last Food Mile conference in Philadelphia, and a Steering Committee member for Feeding the 5000 in Portland, Maine. Mr. Finn teaches "Global Pennovation"—a project-based graduate class focusing on innovation for sustainability, which engages students to address the world's most pressing sustainability problems. He is the author of several articles on food waste and has served as Director for three

non-profit organizations in the food sector. He is the author of the blog *FoodForThoughtfulAction*. Mr. Finn holds a B.A. in economics from the University of Delaware, a M.B.A. in finance from West Virginia University, and M.S. and M.Phil degrees in organizational dynamics from the University of Pennsylvania.

Norbert Wilson, Ph.D., M.Sc., is Professor of Food Policy in the Friedman School of Nutrition Science and Policy. His research centers on food choice and food waste. Dr. Wilson uses experimental economics to explore how date labels influence future food waste, as well as behavioral underpinnings of food choice. He studies differences in food security across groups in the United States. Additionally, he has worked on food safety and quality issues in international trade and domestic food systems. He has published analyses of coffee quality and prices. Dr. Wilson has published in *American Economic Review: Papers and Proceedings*; *World Development*; *American Journal of Agricultural Economics*; *Journal of Public Health*, *Food Policy*, *Agricultural Economics*; among others. Before the Friedman School, Dr. Wilson was a professor of agricultural economics at Auburn University (1999-2016). He was an economist/policy analyst in the Trade Directorate (2004-2006) and the Agriculture Directorate (2001-2002) of the Organization of Economic Development and Cooperation (OECD) in Paris, France. In 2014-2015, Dr. Wilson was on sabbatical leave at the Dyson School of Applied Economics and Management at Cornell University. Dr. Wilson earned his doctorate in agricultural and resource economics from the University of California, Davis, and completed his masters in agricultural economics from Wye College, University of London, United Kingdom, where he was a Rotary International Fellow.

Bradley Rickard, Ph.D., is the Ruth and William Morgan Associate Professor in the Charles H. Dyson School of Applied Economics and Management at Cornell University. He has published widely in the area of food and agricultural economics, with a specific interest in addressing contemporary marketing and policy issues in specialty crop markets. His recent work has examined consumer response to changes in nutrition and health information, food labeling practices, promotional efforts, the role of information on food waste patterns, agricultural policy reform, and the introduction of new technologies. His research has been highlighted by various media outlets including *Buffalo News*, *The Economist*, *Freakonomics.com*, *National Public Radio*, *The Wall Street Journal*, *Washington Post*, and *Wine Spectator*. Dr. Rickard earned a Ph.D. in agricultural and resource economics from the University of California, Davis.

SESSION 7: Game-changing Innovations in Food Access and Affordability and Implications for Food Systems

Roni Neff, Ph.D., Sc.M. (moderator), see biosketch in SESSION 1.

Nevin Cohen, Ph.D., M.C.R.P., is Associate Professor at the City University of New York (CUNY) Graduate School of Public Health and Health Policy, and is Research Director of the CUNY Urban Food Policy Institute. His research explores the policies, governance systems, practices, and infrastructure to support socially just, healthy, ecologically resilient, and economically viable urban and regional food systems. Current projects include a five-country analysis of urban agriculture, research on food retail access; a study of the intersections of zoning, planning, and food gentrification; the effects of social equity policies on food systems; and an evaluation of the effects of urban farms in New York City Housing Authority developments. Dr. Cohen is the co-author of

Beyond the Kale: Urban Agriculture and Social Justice Activism in New York City (University of Georgia Press) that examines the potential of urban farms and gardens to address racial, gender, and class oppression. He has a Ph.D. in urban planning and policy development from Rutgers University, a master's degree in city and regional planning from the University of California, Berkeley, and a B.A. from Cornell.

Rev. Dr. Heber Brown, III, M.Div., is Founding Executive Director of The Black Church Food Security Network—an asset-based approach to advancing food and land sovereignty by organizing the vast resources of historic African American congregations in both rural and urban communities. They work with congregations to establish gardens and agricultural projects on Black Church-owned land. They also link farmers with congregations for niche farmer's markets, which happen inside places of worship. He earned a B.S. in psychology from Morgan State University and his M.Div. degree from the Samuel DeWitt Proctor School of Theology at Virginia Union University in Richmond.

Rhonda Gonzalez, M.S.P.H., is Director of Health Initiatives at the Community Food Bank of Southern Arizona (CFB) located in Tucson. In addition to overseeing the development, implementation, and evaluation of CFB's health and nutrition education projects and nutritional analysis activities, she also leads the teams responsible for community healthcare partnership-building for the organization by planning and developing strategies, actions, research, and/or interventions aimed at linking healthy food with health outcomes and increasing the implementation and sustainability of health initiatives across CFB's five-county service area, as well as the organization's farm and garden programs and the Community Organizing team. With over 15 years' combined experience in health and community development, Ms. Gonzalez has worked at the local, national, and international level. She began her career in maternal and child health policy at a national non-profit, and worked in Australia for an indigenous community development organization. She has also served as executive director for a non-profit facilitating bi-national physician and medical researcher exchanges between Australia and Israel. Ms. Gonzalez received a B.A. degree from the University of Arizona and a M.S.P.H. from the University of Colorado.

WORKSHOP CLOSING DISCUSSION: EVOLUTION AND REVOLUTION OF OUR FOOD SYSTEMS

Naomi K. Fukagawa, M.D., Ph.D. (moderator), see biosketch in SESSION 3.

Jean Halloran, see biosketch under the Brief Recap of Day 1.

Helen H. Jensen, Ph.D., see biosketch in SESSION 2.

Christina Khoo, Ph.D., see biosketch in SESSION 5.

Roni Neff, Ph.D., Sc.M., see biosketch in SESSION 1.

Jennifer Otten, Ph.D., M.S., R.D., see biosketch in SESSION 1.