



## **Workshop on Biofuels Projections in AEO**

### **Presenters' Biographies** (by presentation order)

#### **John Conti**

John J. Conti is the Assistant Administrator for Energy Analysis at EIA. Mr. Conti analyzes energy supply, demand, and prices including the impact of financial markets on energy markets; prepares reports on current and future energy use; analyzes the impact of energy policies; and develops advanced techniques for conducting energy information analyses. He also oversees the planning and execution of EIA's analysis and forecasting programs to ensure that EIA models, analyses, and projections meet the highest standards of relevance, reliability, and timeliness.

Mr. Conti spent nearly 30 years working for the U.S. Department of Energy. Mr. Conti joined the Senior Executive Service in 2002 when he was asked to lead EIA's International, Economics, and Greenhouses Gases Division. Prior to that, he has worked in other positions in EIA and the Office of Policy and International Affairs. Mr. Conti has a M.S. in Management and Policy Sciences and a B.A. in Economics from the State University of New York at Stony Brook.

#### **Howard Gruenspecht**

Over the past 30 years, Howard has worked extensively on electricity policy issues, including restructuring and reliability, regulations affecting motor fuels and vehicles, energy-related environmental issues, and economy-wide energy modeling. Before joining EIA, he was a Resident Scholar at Resources for the Future. From 1993 to 2000, Howard served as Director of Economic, Electricity and Natural Gas Analysis in the Department of Energy's (DOE) Office of Policy, having originally come to DOE in 1991 as Deputy Assistant Secretary for Economic and Environmental Policy. His accomplishments as a career senior executive at DOE have been recognized with three Presidential Rank Awards.

Prior to his service at DOE, Howard was Senior Staff Economist at the Council of Economic Advisers (1989-1991), with primary responsibilities in the areas of environment, energy, regulation, and international trade. His other professional experience includes service as a faculty member at the Graduate School of Industrial Administration, Carnegie Mellon University (1981-1988), Economic Adviser to the

Chairman of the U.S. International Trade Commission (1988-1989), and Assistant Director, Economics and Business, on the White House Domestic Policy Staff (1978-1979). Howard received his B.A. from McGill University in 1975 and his Ph.D. in Economics from Yale University in 1982.

## **Michael Cole**

Michael Cole is an Operations Research Analyst with the Energy Information Administration. He is a member of the Liquid Fuels Markets Team in the Petroleum, Natural Gas & Biofuels Analysis group of Workshop on Biofuels Projections in the AEO Page 2 the Office of Energy Analysis. His primary activity is the development, programming, and analysis the Liquid Fuels Market Module (LFMM) of the National Energy Modeling System, which is used in the production of EIA's Annual Energy Outlook.

As part of his work on LFMM (and its predecessor model, PMM), Michael has concentrated on modeling the production/consumption of biofuels, the national Renewable Fuel Standard (RFS), the California Low Carbon Fuel Standard (LCFS), and U.S.-Brazilian trade flows. Each of these topics directly affects how EIA projects the growth of the Advanced Biofuels industry.

Dr. Cole has a Ph.D. degree in Industrial & Systems Engineering from Georgia Tech, where he specialized in the development and analysis of production/distribution models.

## **John Maples**

John D. Maples serves as the transportation team lead in the Office of Energy Consumption and Efficiency Analysis for the Energy Information Administration's Office of Energy Analysis. Mr. Maples is responsible for the research and analysis of issues related to transportation energy demand, emissions, and forecasting. His team is responsible for the development of transportation models within the National Energy Model System as well as those used for short-term and international projections. Prior to joining EIA in 2001, Mr. Maples was employed as the senior transportation analyst at Trancon, Inc and as a Senior Research Analyst at the University of Tennessee's Transportation Research Center, where he served on the USDOE Office of Transportation Technologies' Laboratory Analytic Team. He has over 20 years experience analyzing energy, security, economic, technological, and environmental issues related to the transportation sector. Mr. Maples received a Bachelor of Science degree in Transportation and Logistics from the University of Tennessee. He has served on alternative fuel and energy committees for the Transportation Research Board and

has served as an officer on the Governing Board of the Society of Automotive Engineers' Washington, DC Chapter.

### **David Greene**

David L. Greene is a Corporate Fellow of Oak Ridge National Laboratory, Senior Fellow of the Howard H. Baker, Jr. Center for Public Policy and a Research Professor of Economics at the University of Tennessee. He is an author of more than 250 professional publications on transportation and energy issues, including 100 articles in peer-reviewed journals and National Research Council reports. The 2012 recipient of the Transportation Research Board's Roy W. Crum Award, he is also an emeritus member of both the Energy and Alternative Fuels Committees of the TRB and a lifetime National Associate of the U.S. National Academies. He serves on the editorial boards of *Energy Policy*, *Transportation Research: Environment and the Journal of Transportation and Statistics*. He received the Society of Automotive Engineers' Barry D. McNutt Award for Excellence in Automotive Policy Analysis, the Department of Energy's 2007 Hydrogen R&D Award and 2011 Vehicle Technologies R&D Award, the Association of American Geographers Edward L. Ullman Award, and was recognized by the Intergovernmental Panel on Climate Change for contributions to the IPCC's receipt of the 2007 Nobel Peace Prize. He holds a B.A. from Columbia University, an M.A. from the University of Oregon, and a Ph.D. in Geography and Environmental Engineering from The Johns Hopkins University.

### **Kristi Moriarty**

Kristi Moriarty is a Research Analyst IV in the Market Transformation Center at the National Renewable Energy Laboratory (NREL). She leads projects to deploy biofuels into new and existing refueling Workshop on Biofuels Projections in the AEO Page 3 infrastructure. She has evaluated all aspects of bioenergy projects including site evaluation, feedstock analysis, energy markets, financial analysis, and reviews of progress of plant construction. Kristi is the author of over 45 reports in the area of biomass energy and other renewable energy and energy efficiency technologies. She has a B.S. from Virginia Tech and an M.Sc from Loughborough University.

### **Anthony Radich**

Tony Radich is an economist with the Energy Information Administration. He is currently a member of the Biofuels and Emerging Technologies Team in the Petroleum, Natural Gas and Biofuels Analysis group of the Office of Energy Analysis.

Dr. Radich has worked on biofuels issues since he joined EIA in 2001. He developed the cost models for the production of ethanol and biodiesel, the National Energy Modeling System, which is used to produce the EIA Annual Energy Outlook. He has served as a contributing author to numerous EIA publications, including the Annual Energy Outlook and the Short-Term Energy Outlook. Dr. Radich's overview of the biodiesel industry is one of EIA's most widely-read publications. He has also worked on the deployment of the EIA Monthly Biodiesel Production Survey.

Dr. Radich has a Ph.D. in economics from Emory University, and an A.B. in economics and a B.S. in mechanical engineering from Lafayette College.

### **Joel Velasco**

Joel Velasco leads Amyris investor relations, external communications, and public policy. Mr. Velasco joined Amyris in January 2011 from the Brazilian Sugarcane Industry Association (UNICA) where as Chief Representative in North America he led UNICA's efforts to expand international biofuel and sugar markets. Prior to joining UNICA, Velasco was managing director of Albright Stonebridge, an international strategic advisory firm based in Washington, D.C. He previously served as senior advisor to the U.S. Ambassador to Brazil and as a personal aide to Vice President Al Gore in the White House. Mr. Velasco received an M.A. from the Georgetown University School of Foreign Service, focusing his studies on the political-economy of the Southern Cone, and a B.A. in Political Science from Hampden-Sydney College in Virginia.

### **Robert Johansson**

Robert Johansson serves as Deputy Chief Economist at the Department of Agriculture (USDA). In this role, he assists the Chief Economist with the Department's agricultural forecasts and projections and with advising the Secretary of Agriculture on economic implications of alternative programs, regulations, and legislative proposals.

Prior to this position, he served as the senior economist on the President's Council of Economic Advisers for energy, environment, and agriculture. In addition, he has held several positions at USDA, both at the Economic Research Service and with the Climate Change Program Office within the Office of the Chief Economist. He has held positions at the Office of Management and Budget in the Office of Information and Regulatory Affairs and at the Congressional Budget Office.

Dr. Johansson received his Ph.D. and M.S. in agricultural economics from the University of Minnesota, and B.A. in economics from Northwestern University. His research has spanned a wide range of issues, Workshop on Biofuels Projections in the AEO Page 4 including biofuels policy, water quality and quantity policies, regulatory economics, food

security, and regional modeling of agricultural systems. Prior to graduate school, he served with the U.S. Peace Corps as an extension agent in several African countries.

### **Wyatt Thompson**

Wyatt Thompson is an Associate Professor at the Food and Agricultural Policy Research Institute at the University of Missouri (FAPRI-MU). As part of the FAPRI-MU team, his work focuses on the impacts of biofuel and agricultural policy options, and other forces, on market prices and quantities. Analysis is typically based on structural economic models that represent the supplies and demands of ethanol, biodiesel, RINs, crops and crop products, and other agricultural goods. Reports and journal articles focus on how a change in policy changes market prices and quantities in the medium-term future.

Prior to working at FAPRI-MU, Dr. Thompson worked at the Organization for Economic Cooperation and Development where his research focused on agricultural policies of the European Union, Mexico, and other member countries, including special reports on export credits, export subsidies, and food security. He worked at the OECD for about 8 years, from 1999 to 2006, 18 months of which were on a fellowship in Tokyo at the Ministry of Agriculture, Forestry, and Fisheries of Japan. Dr. Thompson's Ph.D. was earned from the University of Missouri; his B.A. and M.A. in economics were from Washington University in St. Louis.

### **Jarrett Whistance**

Jarrett Whistance is a Post-Doctoral Research Fellow with the Food and Agricultural Policy Research Institute at the University of Missouri (FAPRI-MU). His responsibilities include maintaining a structural model of the U.S. biofuels market for use in FAPRI-MU's annual baseline projection and subsequent policy analyses.

Jarrett earned a PhD in Agricultural Economics from the University of Missouri in 2012. Prior to that, he earned an MS in Agricultural Economics, also from the University of Missouri, and a BS in Agriculture Business from Missouri State University.

### **Tom Capehart**

Tom Capehart is the feed grains and biofuels analyst at the USDA Economic Research Service. From 1996 until 2006 he coordinated the Tobacco Situation and Outlook program at ERS. After working on the 2008 farm bill as an agriculture fellow to a member of the House Committee on Agriculture, he spent a year and a half at the Congressional Research Service working on biofuels and domestic food programs before

returning to ERS to take a new biofuels position. Two years ago, he added feed grains to his responsibilities.

### **Peter Gross**

Peter Gross has worked with the Energy Information Administration (EIA) as an analyst in the analysis and forecasting departments for five years. For three years he specialized in biofuels market and policy analysis as well as biofuels supply projections. In addition, he has also worked in the areas of refinery energy use and the impact of climate legislation on the refining industry. For the past 2 years he has specialized in the analysis and projections of industrial energy use, including energy use in chemical industries, non-manufacturing, and primary metals. Dr. Gross is a modeler for the industrial energy Workshop on Biofuels Projections in the AEO Page 5 consumption projections in both EIA's *International Energy Outlook* and *Annual Energy Outlook* publications. Dr. Gross holds advanced degrees in chemistry and statistics.

### **Sam Nejame**

For more than 25 years Sam Nejame has provided management consulting and engineering services to Fortune 500 Companies, start-ups, investment banks, government agencies and investors. His practice focuses on issues of sustainability and technology commercialization in the fields of energy, efficiency, water, transportation and critical materials.

He has consulted extensively within the renewable chemicals and fuels industries. Among his engagements, he directed the global market and technology due diligence team for Koch Industries' \$4.2 billion acquisition of DuPont Textiles and Interiors business unit (Invista), the world's largest polymer, fiber and fiber forming entity.

Prior to founding Promotum, he worked for CTMain / Parsons Corporation as a project manager/environmental engineer and in the biotechnology industry. Mr. Nejame has an MBA from the Kellogg School of Management and a BS in Chemical Engineering from Worcester Polytechnic Institute.

### **Mac Statton**

Mac Statton analyzes the liquid fuels production industry in the context of the US energy economy, with a specific focus on advanced biofuels. A systems thinker, he serves as the EIA expert on the emerging advanced bio-products industry. He also assists in the development of technology assessments for nonpetroleum processes in order to

inform EIA analysis, forecasts, and projections. Mr. Statton has a Bachelor's degree in Chemical Engineering from the University of Maryland and expects to complete a Master's degree in Systems Engineering from the University of Virginia in May 2013.

### **Brian Bush**

Brian Bush is a Principal Engineer in the Energy Forecasting & Modeling group at the National Renewable Energy Laboratory, where he leads several energy-infrastructure, supply-chain-modeling, and renewable-energy-analysis projects. He received a B.S. in physics at the California Institute of Technology in 1985 and a Ph.D. in theoretical physics at Yale University in 1990, where he was a National Science Foundation graduate fellow.