

## **Alternative Transportation Fuels Session IV – Biofuels II**

### **Speaker Biographies**

#### **Dr. Robert Anex**

**Associate Professor, Department of Agricultural and Biosystems Engineering, Iowa State University**

Dr. Robert Anex received his Ph.D. in civil and environmental engineering from the University of California at Davis in 1995. Prior to completing his Ph.D., Dr. Anex spent eight years in industry as a systems engineer. From 1996 to 2003 he was a Fellow of the Institute for Science and Public Policy, in the Sarkeys Energy Center at the University of Oklahoma. He is currently Associate Director of the Office of Biorenewables Programs, and Associate Professor of Agricultural and Biosystems Engineering, and Mechanical Engineering at Iowa State University. His research interests include technology assessment, biobased production systems, industrial ecology, and environmental and technology policy analysis.

Dr. Anex is the principal investigator of an NSF-funded project assessing the impacts of the widespread adoption of lignocellulosic biomass conversion technology. He is also principal investigator of a joint USDA-DOE project aimed at developing productive, efficient, and sustainable strategies for using corn stover biomass as a primary feedstock for the bioeconomy.

Dr. Anex was editor of a special issue of the *Journal of Industrial Ecology* on the Industrial Ecology of Biobased Materials which appeared in spring 2004. He has been a member of the editorial board of the *International Journal of Life Cycle Assessment* since 2003, and is an area editor for the *Journal of Industrial Ecology*. Dr. Anex was a 2005 recipient of an OECD Research Fellowship in Biological Resource Management for Sustainable Agricultural Systems in the bioeconomy. Dr. Anex has been a frequent organizer of conference sessions on biomaterials and biobased production and has been an invited speaker at numerous international conferences and workshops.

#### **Dr. Douglas Arent**

**Director, Strategic Analysis, National Renewable Energy Laboratory (NREL)**

Doug Arent is Director of Strategic Energy Analysis with the National Renewable Energy Laboratory (NREL). He specializes in strategic planning and financial analysis competencies; clean energy technologies and energy and water issues; and international and governmental policies. Arent also has expertise in the strategic market management, product planning and risk portfolio management. In addition to his NREL responsibilities, Dr. Arent serves on a variety of advisory boards and councils, including the Advisory Board of E+Co, the Energy and Environmental Security Institute, University of Colorado, and he chairs the Quantitative Work Group in support of the Clean and Diversified Energy Advisory Council of the Western Governor's Association.

Prior to joining NREL, he was a management consultant to clean energy companies, providing strategy, development and market counsel. Arent also was director of OEM sales and director of strategic marketing and business development at Network Photonics; director of Media Gateway Products and strategic planning manager at Lucent Technologies; and vice president of business development for Amonix Inc.

Doug Arent is part of the Executive Education Program at Harvard Business School. He has a master's in business administration from Regis University, a Ph.D. from Princeton University, and a bachelor's of science from Harvey Mudd College in California.

## **Dr. Eldon Boes**

**ASME Congressional Fellow, Senate Committee on Agriculture, Nutrition and Forestry**

Eldon Boes has worked on natural resource issues as Congressional fellow with Senator Gordon Smith (R-OR) for the past year. Prior to his current position, he managed the Energy Analysis Office for the National Renewable Energy Laboratory (NREL), from 1998 to 2005. Dr. Boes also managed NREL's Washington Office from 1991 to 2005. Previously he worked on solar energy technology development, with an emphasis on photovoltaic R&D and solar resource assessment, at Sandia Labs from 1974 to 1991. He was Assistant Professor of Mathematics at New Mexico State University from 1968 – 1974. Dr. Boes received his Ph.D. in mathematics from Purdue University in 1969. He grew up on a farm near Breda, Iowa and has been commuting by bicycle since graduate school.

## **Louis Burke**

**Manager, Emerging Technology, ConocoPhillips**

Louis (Lou) Burke is the Manager of Alternative Energy and Programs for ConocoPhillips. Burke previously served as manager of Commercial Lubricants for ConocoPhillips. Prior to that, he held various management positions for Phillips, Tosco and Unocal in Marketing and Product Development. Burke started with Unocal in 1987. Burke grew up in Milwaukee and Wausau, Wis. He graduated from the University of Wisconsin - Madison in 1986 with a bachelor's degree in chemical engineering. He also received a master's degree in business administration from the University of California, Irvine in 1998.

## **Reid Detchon**

**Executive Director, Energy Future Coalition**

Reid Detchon is Executive Director of the Energy Future Coalition, a broad-based non-partisan public policy initiative focused on three critical energy challenges – oil dependence, climate change, and global energy poverty. He is also Executive Director for Energy and Climate at the United Nations Foundation. Mr. Detchon previously served: as Director of Special Projects in Washington for the Turner Foundation; as a principal at Podesta Associates, a government relations and public affairs firm in Washington; as the Principal Deputy Assistant Secretary for Conservation and Renewable Energy at the U.S. Department of Energy from 1989 to 1993; as principal speechwriter for Vice President George H. W. Bush; as a staff member and legislative director for U.S. Senator John Danforth of Missouri; and as an award-winning reporter for the Columbia (Mo.) *Daily Tribune*. He is a graduate of Yale University and lives in Bethesda, Maryland.

## **Adam Schubert**

**U.S. Strategy Manager, BP Biofuels**

Adam Schubert is US Product Strategy Manager for BP Biofuels, a newly-formed global business unit within BP charged with developing and commercializing advantaged biofuels. He holds a Ph.D. in Chemistry from Michigan State University and an MBA from the University of California at Irvine. Adam began his career with ARCO in 1985 as a staff chemist in Refining and Marketing where he participated in the development of Reformulated Gasoline and CARB diesel. In the mid-90's, his career moved into developing the business strategy for expansion of ARCO's West Coast Refineries and ARCO's entry into the Polypropylene business at its Los Angeles area refinery. In the late 90's, he developed the crude strategy for ARCO's refineries and the strategy for phase-out of MTBE in California. Following BP's acquisition of ARCO, Adam joined BP's Global Fuels Technology group where he focused on light duty diesel and alternative fuels

issues. More recently, he has managed product specifications and strategy for BP's retail marketing in the US. Adam, his wife, Lisa and his son, Jordan, currently reside in the Chicago area.

**Frank Verrastro**  
**Director and Senior Fellow, CSIS Energy Program**

Frank Verrastro is director and senior fellow in the CSIS Energy Program. He has extensive energy experience, having spent 25 years in energy policy and project management positions in the U.S. government and the private sector. His government service includes staff positions in the White House (Energy Policy and Planning Staff) and the Departments of Interior (Oil and Gas Office) and Energy (Domestic Policy and International Affairs Office), including serving as director of the Office of Producing Nations and deputy assistant secretary for international energy resources. In the private sector, Mr. Verrastro has served as director of refinery policy and crude oil planning for TOSCO (formerly the nation's largest independent refiner) and more recently as senior vice president for Pennzoil. At Pennzoil, he was responsible for the company's government-relations activity, both domestic and international. He also served on the company's international risk assessment and negotiations teams, as well as on the management and operating committees and its Environmental Safety and Health Leadership Council. Prior to joining CSIS in the fall of 2003, he served as senior policy adviser at the law firm of Vinson & Elkins, working with the firm's task force on Iraq reconstruction. Mr. Verrastro holds a B.S. in biology/chemistry from Fairfield University, a master's degree from Harvard University, and he completed the executive management program at the Yale University Graduate School of Business and Management. He is an adjunct professor at the Elliott School of International Affairs at George Washington University. He has also lectured at Harvard, American University, the University of Maryland, Georgetown University, National Defense University, and the Foreign Service Institute. He has been a frequent presenter on energy policy panels at SAIS/Johns Hopkins University, the Brookings Institution, Meridian House International, the National Press Club, and on NPR.