



Larry Walker, Professor, Biological & Environmental Engineering, Cornell University
 Dr. Larry Walker holds B.S. in Physics, M.S. and a PhD in Agricultural Engineering from Michigan State University. He is a *Field Member, Chemical and Biomolecular Engineering, Director of the Northeast Sun Grant Institute of Excellence*. He is a national leader in industrial biotechnology: the application of biotechnology to industrial production. His research will help contribute new technologies for biotechnology and bioenergy corporations through both prospecting and engineering of useful industrial enzymes from microbes and plants.

Summit Sponsors

Platinum



Gold



Cornell University
 Biological and Environmental Engineering



Silver



New York State
 Department of
 Agriculture &
 Markets

June 24 – 26, 2007

The Statler Hotel and Conference Center
 Cornell University Campus, Ithaca, NY

Organized by

Cornell University in Partnership with
 The Syracuse Center of Excellence
 in Environment and Energy Systems

www.nesungrant.cornell.edu

www.syracusecoe.org



Cornell University



2007 New York Renewable Energy Summit

Advancing Renewable Energy
 Through Research and Development

Key Note Speakers

Panelists



Biomass



Keynote Speaker and Panel Moderator
Nathan Rudgers, Dir. Business Development, Farm Credit of Western NY
Mr. Rudgers is a 1982 graduate of Cornell University, receiving a bachelor's degree in agricultural economics. He served as Commissioner of Agriculture and Markets for The State of New York. He was appointed Commissioner by Governor George E. Pataki in 1999. He began his tenure with the Department in 1995, serving as Deputy Commissioner, First Deputy Commissioner and then Acting Commissioner.

Douglas Brent, Northeast Biofuels, Co-chairman of Permolex



After receiving his Bachelor of Commerce and Finance at the University of Toronto, and his qualification as a Chartered Accountant, Mr. Brent earned an MBA from Cornell University's Johnson Graduate School of Management, while simultaneously teaching business to undergraduates at Cornell's School of Operations Research and Industrial Engineering. Since leaving the Johnson School, Mr. Brent has continued his academic relationship with Cornell as a frequent guest lecturer at the Johnson School.

Jack Huttner, Vice President Biorefinery Business Genencor/Danisco



In 2001, Huttner was appointed by President Clinton to co-chair the Bioenergy Technical Advisory Committee formed by an Act of the U.S. Congress to oversee the federal government's \$300 million bioenergy R&D budget. In 2004, he was re-appointed by President Bush to a new three-year term on the committee. He was instrumental in the formation of the industrial sections of both BIO in Washington, DC and EuropaBio in Brussels.

Colin South, President Mascona Corp.



Dr. South received a bachelor's degree in Chemical Engineering from the University of Canterbury, Christchurch, New Zealand, a MEng in Engineering Management, and a Ph.D. in Bioprocess Engineering from Dartmouth College. He was the CEO of ViaLacta Biosciences, a gene discovery and commercialization company and was Fonterra Co-operative Group's General Manager of Health and Nutrition in Auckland, New Zealand.

Jocelyn Rose, Assoc. Professor, Plant Biology, Cornell



Dr. Rose obtained his Ph.D. at the University of California, Davis. He then worked as a postdoctoral research associate at the Complex Carbohydrate Research Center at the University of Georgia. Research activities in the Rose lab are centered on the structure, function and metabolism of plant cell walls, their pivotal role in growth, development, interactions with pathogens and their utility as a biomass resource.

Shijie Liu, Assist. Professor, Suny-ESF



Dr. Shijie Liu obtained his Doctorate in Chemical Engineering from the University of Alberta, Edmonton, in 1992. He had been on Faculty in the University of Alberta and Alberta Research Council. His past experience includes oil sands, wood pulp and fibers, as well as agriculture fibers. He joined SUNY ESF department of Paper and Bioprocess Engineering (PBE) in 2005.

Kevin Swartley, Cilion and Empire Green Biofuels



Mr. Swartley completed the Lead New York program, Class VIII, through Cornell University, during which he traveled throughout Europe researching alternative agricultural practices. He has served as the President and is a current Board Member of the New York Corn Growers Association. He has served as President and current vice-president of Seneca County Farm Bureau. He also currently serves on the Varick Town Planning Board, and sits on the Ag Enhancement Committee for Seneca County Cornell Cooperative Extension.

Thomas E. Amidon, Professor, Dir. of ESPRI, SUNY-ESF



Dr. Amidon, B.S. Cum Laude in 1968 and PhD in 1974 from ESF, worked for International Paper for 23 years, ending his career as the Laboratory Manager at the Corporate Research Center. He returned to ESF in 2000 as the Chair of the Paper Science and Engineering Faculty and became the Director of the Empire State Paper Research Institute at ESF in 2003. He is co-chair of the NY/Canadian section of the Paper Industry Management Association and a member of TAPPI.

Norm Scott, Professor, Biological & Environmental Engineering, Cornell University



Dr. Scott was involved in bioengineering research and teaching for over 20 years prior to spending 14 years as a Cornell administrator (1984 - 1998). He has focused his research and teaching on sustainable development. This research is directed to development of sustainable communities with emphasis on biologically derived fuels, renewable energy, recycling, managed ecosystems and industrial ecology.

Matthew McArdle, President, Mesa Reduction Engineering & Processing, Inc.

Mr. McArdle has over 15 years of experience in renewable energy projects and environmental compliance programs in both the public and private sector. As an analyst to the Environmental Protection Agency and the Department of Transportation he assisted with the implementation of compliance programs for regulated pollutants, hazardous waste transportation, and site cleanup activities of industrial operations.

Paul Salon, USDA Plant Materials, Big Flat, NY



Dr. Salon, Ph.D. has worked for the USDA-Natural Resources Conservation Service (NRCS) since 1979. He received a B.S. degree in Horticulture and a Ph.D. in Plant Breeding from Cornell University. He holds a professional certification as a Certified Crop Advisor, Certified Pesticide Applicator and is a member of the American Society of Agronomy and the Soil and Water Conservation Society.



Keynote Speaker and Panel Moderator
Tom Lindberg, NYS Dept. Agriculture & Markets
Mr. Lindberg has a bachelor's degree in Economics from the State University of New York at Potsdam College and a master's degree in Environmental Management & Policy from Rensselaer Polytechnic Institute. Prior to joining the Department, Mr. Lindberg was a Policy Analyst for Governor George E. Pataki, where he worked on the 1996 Clean Water, Clean Air Bond Act and helped successfully negotiate a settlement to remediate Onondaga Lake in Syracuse.

Solar



Keynote speaker and Panel moderator
Carol Murphy, Exec. Dir., The Alliance for Clean Energy New York

Ms. Murphy holds a Masters of Public Administration from the Rockefeller College of Public Affairs, State University of New York at Albany and a Bachelor of Arts degree, cum laude, in History/Political Science from SUNY Albany. She was Vice President of Government Affairs and Communications for the New York Independent System Operator (NYISO). Formerly, Ms. Murphy was the Executive Director of the Independent Power Producers of New York, Inc.

Sarah Munro, PhD Candidate, Biological & Environmental Engineering, Cornell University



Ms. Munro is a native of Western New York and completed her undergraduate education at Cornell University, earning a B.S. degree in the field of Biological and Environmental Engineering in 2002. She then joined Dr. Larry Walker's Biomass Conversion research group and is working toward a PhD degree.

Ruth Richardson, Assist. Professor, Civil & Environmental Engineering, Cornell University



Dr. Richardson obtained her Ph.D. in Civil and Environmental Engineering from the University of California at Berkeley, where she also received her M.S. Her B.S. in Chemical Engineering was earned at Manhattan College in New York City. Dr. Richardson's research group studies microbial communities that convert wastes (both chlorinated compounds and organic wastes) to harmless endproducts.

Wind

Ralph Teichmann, GE Global Research

Dr. Teichmann serves as consultant and project leader for GE Infrastructure, specifically GE Wind Energy. He is leading research projects related to power conversion for renewable energies. His expertise includes high power electronics for utilities, traction and drives applications. Before joining GE Global Research, he worked for various companies in Europe and Asia among them ABB Corporate Research, Germany, Philips Medical Systems, Germany, and Toyo Denki, Japan. He has served as a reviewer for various institutions among them IEEE, VDE (Germany), and DOE. He has three patents granted and several patents pending.

Patrick Doyle, Horizon Wind Energy



Mr. Doyle worked for GE Power Systems out of Schenectady NY, for ABB Power Generation in Zurich Switzerland and for Wartsila of Finland. Patrick was General Manager of Wartsila North America's Independent Power business, responsible for growing the floating and land-based reciprocating engine power plant business in Central America and the Indian Subcontinent. Patrick graduated in mechanical engineering in 1982 from University College Dublin and received his M.B.A. from London Business School in 1992.



Dinner Keynote Speaker
Peter Iwanowicz, Dir. Climate Change, Dept. Environmental Conservation New York
Before joining the state, Peter most recently served as Vice President for the American Lung Association of New York State, where he directed advocacy efforts including helping to enact the New York State Diesel Emissions Reduction Act of 2006 and pushing for adoption of the motor vehicle greenhouse gas reduction regulations. He also created the association's air quality improvement program. Peter lives in the Albany area with his wife and two children and holds a B.A. from Siena College.

Electric Power

Benson Lee, President and CEO, Inc. (TMI) Fuel Cell System



Mr. Lee received his BEE and Master's Certificate from Cornell and has completed all coursework for the MBA and PhD at NYU's Graduate School of Business. After working in product development and corporate planning for IBM and Westinghouse, he became a full time entrepreneur and has started several technology companies. For Cornell, he is a Trustee Emeritus and serves on the Executive Council for the newly created Center for Sustainable Global Enterprise at Cornell's Johnson School of Management. He is on the board of the Ohio Fuel Cell Coalition.

Frank DiSalvo, John A. Newman Professor, Physical Sciences, Cornell University



Dr. DiSalvo received his B.S. in Physics from MIT in 1966 and his Ph.D. in Applied Physics from Stanford University in 1971. He then joined the research staff at AT&T Bell Laboratories, where he later headed several research departments. In 1986 he moved to the Department of Chemistry at Cornell University.

Katrina Fritz Intwala, Plug Power



Ms. Fritz Intwala holds a Bachelor of Arts degree from the University of Michigan and a Masters in Business Administration from the Weatherhead School of Management at Case Western Reserve University. She represents Plug Power on the New Energy New York Board of Directors, the Ohio Fuel Cell Coalition Board of Directors and the California Stationary Fuel Cell Collaborative Industry Advisory Panel.

Terry Brown, Chairman, O'Brien & Gere



Terry Brown has a BS in Civil and Environmental Engineering from Clarkson College of Technology. He is President of O'Brien and Gere, in East Syracuse, NY, and has expertise in wastewater, water, and environmental remediation, serving in both an engineering and construction management capacity for numerous projects. His work in the field of environmentally distressed property development (brownfields) has led to the acquisition of numerous brownfield sites in the United States for the O'Brien & Gere Companies.

Keynote speaker and Panel moderator

Jeff Peterson, Program Manager, Energy Resources, New York State Energy Research and Authority (NYSERDA)

Mr. Peterson received a BS and MS in Wood Science and Technology from the University of Massachusetts and a MS in Industrial Administration from Union College. He leads the NYSERDA primary research program for renewable and natural gas resource development. The goal of the program is to develop cooperative initiatives to introduce new energy and environmental technologies into the marketplace.

Wayne McFarland, Stearns & Wheeler



Mr. McFarland is a graduate of Cornell University (B.S. '77), the University of California, Berkeley (M.S. '80), and LeMoyne College (MBA '01), and is a licensed professional engineer in 12 states. In 30 years of practice, he has directed over 700 projects related to energy and environmental engineering, including several anaerobic digester combined heat and power projects.

Lanny Joyce, Planning and Energy Management, Cornell University



Mr. Joyce has a Bachelor of Science in Mechanical and Aerospace Engineering from Cornell and is a member of the International District Energy Association (IDEA), Association of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE), and the American Society of Mechanical Engineers (ASME).

NY Economic Development

Antonio Bento, Assoc. Professor, Applied Economics and Management, Cornell University



Dr. Bento received his Ph.D. in Agricultural and Resource Economics from the University of Maryland in 2000. He held the position of Assistant Professor of Environmental Economics and Policy at the University of California, Santa Barbara and more recently at the University of Maryland. He has also served as a consultant at the World Bank, Resources for the Future, policy advisor to several planning agencies in California, and as a visiting scholar at the Stanford Institute for Economic Policy Research.