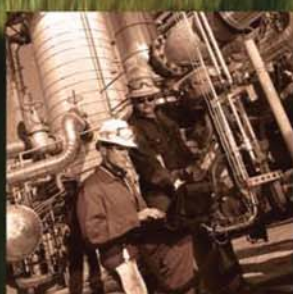


Novaspect

2010 Annual Renewable Energy and Advanced Biofuels Summit

Integrated Biorefinery and
Feedstock Considerations

January 26, 2010
Middleton, Wisconsin





2010 Annual Renewable Energy and Advanced Biofuels Summit

Date: January 26, 2010

Time: 7:30 AM - 5:00 PM

Price: NO CHARGE

Location:

Bishops Bay Country Club

3500 Bishops Drive

Middleton, WI 53532

847.226.5409

www.bishopsbay.com

Topics to Include:

- Feedstock Availability and Sustainability
- Pulp & Paper and Integrated Biorefinery
- Gasification & Pyrolysis
- Catalytic Process
- Best Practices in Project Implementation - Automation Impact
- Round Table Session

AGENDA

7:30 - 8:30	Breakfast
8:30 - 8:45	David Jenkins - WI OEI - State of WI update on the Renewable Energy and Biofuels activity
8:45 - 9:30	Randy Fortenberry - RENK - First generation and beyond feedstock considerations
9:30 - 10:10	Rajai Atalla - Cellulose Science International - Cellulosic and hemi cellulosic feedstock conditioning
10:10 - 10:20	Break
10:20 - 11:00	Jeff Burgard & Wesley Bolsen - Coskata - Update on commercialization of the Coskata integrated biorefinery technology
11:00 - 11:40	Al Novak - Emerson Process Management - Automation and project risk mitigation considerations
11:40 - 1:00	Lunch + Networking
1:00 - 1:40	Andrew Held - Virent - Production of fungible liquid hydrocarbons via catalytic conversion of renewable feedstocks
1:40 - 2:20	Doug Freeman - NewPage Corp - Biomass gasification technology project planning at a pulp & paper plant
2:20 - 2:40	Break
2:40 - 4:00	Round Table Session - Stelios Arvelakis - EERC - feedstock pretreatment technology - Tony Hartmann - Great Lakes Ag - cellulose pretreatment - Art Lucas - Matric - upcoming technologies, development - Invited - Packer Engineering - scalable biomass and waste gasifier - Invited
4:00 - 5:00	Networking

For More Information & Online Registration

Visit us at www.novaspect.com/education or

Contact: Jacek Chmielewski at 847.226.5409, jchmielewski@novaspect.com



Presenter Profiles

Jeff Burgard **Vice President, Engineering & Operations**

As Vice President of Engineering, Jeff Burgard is responsible for helping drive the commercialization of Coskata's proprietary technology platform. Prior to joining Coskata, Jeff was a Senior level Engineering Director for UOP LLC, a leading international supplier and licensor of process technology, catalysts, absorbents, process plants, and consulting services to the petroleum refining, petrochemical, and gas processing industries. In his 27 years, Jeff held various positions within the company helping develop his broad experience in engineering design, design development, project management, basic and detailed engineering, and overall administrative management. Most recently, Jeff managed the worldwide design development, basic design, detailed engineering, procurement, fabrication, and installation of all major Process Equipment and Fabricated Systems for UOP. Jeff holds a B.S. in General Engineering from the University of Illinois and an M.B.A. from the University of Chicago.

Randy Fortenbery, Ph.D. **RENK Chair in Agribusiness,** **Agricultural & Applied Economics,** **Director, Renk Agribusiness Institute,** **University of Wisconsin Madison**

Randy Fortenbery is the Renk Professor of Agribusiness and Director of the Renk Agribusiness Institute in the Department of Agricultural and Applied Economics at the University of Wisconsin – Madison, and the University of Wisconsin – Madison School of Business. From 1998 through 1999, he served as the Director of Research at Frontier Risk Management in Chicago. Frontier Risk Management is a commodity futures trading company whose customer base includes some of the largest agribusiness firms in the world. Prior to 1998, he was Associate Professor in the Department of Agricultural and Applied Economics at the University of Wisconsin – Madison, and Assistant Professor in the Department of Economics at North Carolina State University.

Al Novak **Director Alternative Fuels,** **Emerson Process Management**

Alan Novak is Emerson's Director of Alternative Fuels, with global responsibility for project and technology within the second generation biofuel and synfuel industry sectors. He is active in multiple industry related coalitions and is in regular discussions with many of the process licensors, developers and research centers in this emerging market. He has 25 years of experience in process automation, with emphasis in power generation, pulp and paper processing, food and beverage, and chemical applications. Al received a BS, Chemical Engineering from the University of Wisconsin.

Andrew Held **Director, Process Engineering**

Andrew Held has ten years of operations and R&D experience at Cargill, Inc., an international provider of food, agricultural and risk management products and services, where he held instrumental roles on technical, engineering, and operations management teams scaling production processes for commercialization. His work has included the manufacture of organic acids and edible polyols by fermentation, lactic acid for polymers, and natural polyols for polyurethanes. Andrew specializes in the integration of biological and chemical processes and has worked extensively with natural feedstocks and biocatalytic conversion methods. He earned his BS, Chemical Engineering, from the University of Minnesota-Twin Cities and MS, Chemical Engineering, from the University of Wisconsin-Madison.

Wesley J. Bolsen **Chief Marketing Officer & VP, Government Affairs**

Wes Bolsen joined Coskata as one of the early executives, and is now serving as the company's Chief Marketing Officer and Vice President of Government Affairs. He has been responsible for publicly unveiling the company, creating and executing their communication strategy, developing Coskata's strategic partnerships, and managing relationships both in Washington, D.C. and at the state level. Previously, Wes was the Chief Financial Officer of ICM, Inc., the leading U.S. corn ethanol design and build firm, based outside of Wichita, Kansas. At ICM, Wes oversaw finance, HR, IT, and flight operations for the company. During his time at ICM, Wes gained critical exposure to the inner workings of the ethanol industry and established strong relationships with key value chain participants. Prior to ICM, Wes was a senior consultant with McKinsey & Co. in both their Chicago and Silicon Valley offices, where he worked with the CEO's of Fortune 500 companies around the globe. Wes holds a B.S. in Electrical Engineering from Rose-Hulman, and received his MBA from the Stanford Graduate School of Business.

Rajai Atalla, Ph.D., **CEO, Cellulose Science International**

Dr. (Chemical Engineering) Rajai Atalla, Rajai Atalla received his bachelor's degree from Rensselaer Polytechnic Institute in 1955 and his master's and doctorate in chemical engineering and physics from the University of Delaware by 1960; his work focused on spectroscopic studies of flames. During 8 years at Hercules Research Center, he studied phase transitions in semicrystalline polymers and evaluated anomalous spectra of many compounds. He was first to recognize that anomalous proton nuclear magnetic resonance (NMR) spectra of (alkyl phosphito) hydrides of cobalt and iron indicated the occurrence of fluxional molecules. He also developed the first theoretical model for photodegradation of inorganic pigment. As professor of chemical physics and engineering at the Institute of Paper Chemistry, Atalla pioneered the application of Raman spectroscopy to studies of celluloses. Finding accepted crystal structures inconsistent with Raman spectra, he investigated the ¹³C solid-state NMR spectra of native celluloses with David VanderHart of the National Institute of Standards and Technology. They determined that all native celluloses are composites of two forms --I α and I β (1984). With Umesh Agarwal, using a Raman microprobe, Atalla developed the first direct evidence of lignin orientation in secondary walls (1984). In 1989, as head of chemistry and pulping research at the U.S. Department of Agriculture (USDA) Forest Service and adjunct professor in chemical and biological engineering at the University of Wisconsin, Madison, Atalla led development of inorganic analogs of lignin peroxidases for use in liquid-effluent-free pulping and bleaching systems. The processes were feasible economically, but the industry's economic condition led to suspension of the program. Freed of administrative responsibilities in 1999 and elevated to senior and pioneering research scientist in 2005, he returned to studies of molecular architecture in plant cell walls, with emphasis on secondary walls and native celluloses. Atalla has published more than 150 papers, edited a book on cellulose structures, and is a fellow of the International Academy of Wood Science and of the Technical Association of the Pulp and Paper Industry. He received the Anselme Payen Award of the American Chemical Society's Cellulose Division as well as multiple USDA awards, including the Forest Service Chief's Distinguished Scientist Award.

Doug Freeman **Manager - Investments / Engineering, NewPage Corp.**

Mr. Freeman, a chemical engineer, has held positions in operations, technical, engineering and maintenance fields and worked in energy generation, pulp, and paper production at several StoraEnso paper mills, where he has been at the forefront of new technologies. This background has given him an extensive knowledge of the design, construction and facilities operation in the process industry and how to make mills economically competitive.