



Anaerobic Digester Webinars: Finance & Technology

March 14, 2012

Speaker Biographies

Jon Best is senior international renewable energy account manager for renewable energy with Caterpillar Financial Services Corp. He began his 14-year career with Caterpillar as Financial Marketing Manager at Yancey Bros. Cat dealership. Best joined Caterpillar Financial Services in 2005 as a territory manager before transitioning into his current role. He is responsible for arranging project financing for renewable energy projects that include Caterpillar engines and equipment in North America. He has a bachelor's degree in finance from the University of Georgia.

Jerry Bingold is director of Renewable Energy for the Innovation Center for U.S. Dairy. He is responsible for analyzing and communicating information to strategically develop anaerobic digesters in the dairy industry. Bingold works with key stakeholders to establish project goals and milestones, direct national market analysis and business modeling while coordinating industry volunteers and providing overall project support. The Innovation Center's goal is to have 1,300 digesters operating in the U.S. dairy industry by the year 2020. Bingold has experience in renewable energy, energy efficiency and power contracts with rural electric cooperatives, investor-owned utilities and large commercial and agricultural companies. Most recently, he was principal of commercial and industrial business development for the National Rural Electric Cooperative Association. Bingold has served in business development, energy consulting and project origination roles for Chevron Energy Services, Dynegy, Illinova Energy Solutions (Illinois Power) and Portland General Electric. He earned his bachelor's degree in biology from the University of Oregon and received a U.S. Department of Energy national award for energy efficiency and the environment.

Gary Boyke, his wife, Rose, and their daughter and son own and operate Vir-Clar Farm LLC, a family farm operation located near Fond du Lac, WI. For 20 years the main focus at Vir-Clar was selling registered bulls and embryos throughout the world. Since 1995, the Boykes have increased their herd to 1,450 cows from 300, and now farm 2,400 acres of land. In 2004, the Boykes built a methane digester that produces electricity for 300 homes in the Fond du Lac area. Boyke is a member of the board of Badgerland Financial.

William Boyd is a professional engineer working for the Natural Resource Conservation Service (NRCS) as the Leader of the National Manure Management Technology Development Team in Greensboro, NC. Since graduating from the University of Tennessee as an agricultural engineer he has served the Soil Conservation Service and NRCS as a field and project engineer in Tennessee, Missouri, and Florida, and as an environmental engineer with responsibilities for manure and nutrient management at the Midwest National Technical Center in Lincoln, Nebraska and the National Water Management Center in Little Rock, AR.

Todd Campbell is acting alternative energy policy advisor at USDA Rural Development, focusing on biofuels and renewable energy business development. He has many roles within USDA including project manager for the USDA/Aviation Industry Farm-to-Fly Working Group, USDA Rural Development Liaison for the Copenhagen Memorandum of Understanding with the Dairy Industry, USDA Biomass Research and Development Lead, and

Energy Council Coordination Committee representative. Prior to his role at USDA, Campbell worked for Barack Obama for nearly two years during the 2008 Presidential election, serving as the national rural vote director at national campaign headquarters. Over the past decade, Campbell has also worked in rural policy development and renewable energy advocacy, specifically on-farm generation.

Michael Casper is vice president of project development for Homeland Biogas Energy, LLC. He has more than 20 years of business and project development, consulting and engineering experience in the area of renewable and clean energy technologies, particularly anaerobic digester projects. His expertise in business development includes marketing, financial modeling, permitting, stakeholder management, and energy research. He led the development of numerous clean energy projects, providing sustainable energy solutions for businesses, utilities, cooperatives and government entities. He has a B.S. in mechanical engineering from the University of Wisconsin-Platteville and an M.B.A. from DePaul University.

Karl Crave is the executive vice president of operations and training for U.S. Biogas LLC, an integrator of organic waste and nutrient recovery systems. Crave's focus is on evaluating and troubleshooting existing systems and providing training to operators of facilities to create a safe and reliable system that meets owner expectations. He was responsible for building and operating a 633kW cogeneration facility at the Crave Brothers Farm in Waterloo, WI, processing cow manure and whey for five years. He was responsible for digester and plant design, mechanical installation and commissioning at the Dane County Community Digester in Dane, WI. The plant serves three local farms processing more than 100,000 gallons per day of manure and grease product, producing two megawatts of electricity and fiber used for cow bedding and horticultural sales. Crave is a graduate of the University of Wisconsin-Madison with a degree in agricultural business management.

Nick DuBois is director of sales for Avatar Energy, LLC, managing all global sales. He has been working with Avatar Energy for seven years. As one of the original staff members, he hand built and operated the first Avatar pilot system for three years. The Avatar team commercialized the technology and deployed several systems throughout North America. DuBois has a bachelor's of science degree in agricultural entrepreneurship with a minor in renewable energy. While in college, he helped facilitate development of the renewable energy program for the University of Vermont.

Steve Dvorak is president of DVO Inc., Chilton, WI. DVO designs on-farm anaerobic digester systems to convert organic waste into biogas, fertilizer, animal bedding and more, depending on farm and community needs. DVO designs and installs their patented mixed plug-flow digester in North America, South America, Asia and Europe.

Anand Gangadharan is president of NOVI Energy, an energy infrastructure project developer and energy consultant. He has been with NOVI Energy since its inception in 2002. NOVI Energy has national and international customers in the industrial, commercial, institutional, utility and government sectors. NOVI Energy is developing a variety of energy projects throughout the United States and internationally, including a 50-megawatt woody biomass-fueled power plant currently under construction for an electric cooperative in Virginia, and a 3-megawatt biogas-fueled plant fed by agricultural and food processing waste under construction in Fremont, Mich. Gangadharan leads various development efforts ranging from traditional power generation facilities, renewable and alternative energy projects, central utility plants, district heating and cooling projects and microgrids to customized energy technology applications for end-user benefit. He earned a bachelor's and master's of science degrees in physics from the University of Madras-India, and a second master's degree in nuclear engineering from Texas A&M University.

Grant Grinstead is one of the co-founders of Northern Biogas, head quartered in Green Bay, WI. Northern Biogas is a design-build firm specializing in customized anaerobic digestion solutions for agriculture and industrial industries. Grinstead is responsible for new business development and new technology deployment. Over the last eight years, Grinstead has extensively evaluated anaerobic digester operations and economic value points for the Northern American market. Prior to forming Northern Biogas, Grinstead designed nutrition and management programs for production livestock operations across the Midwest. He has authored and co-

authored more than 15 peer-reviewed scientific journal and abstract submissions. He earned his B.S. and M.S. degrees from Kansas State University in applied animal science, business management and nutrition.

Bob Joblin is president of Cenergy USA, which has investments in AgPower Partners and AgPower Group. Through AgPower Partners, the Big Sky West dairy digester facility was built and has been operating for three years. It is the first successful third-party build-own-operate model, and is the recipient of the inaugural U.S. Dairy's Outstanding Achievement in Energy, a national award sponsored by the Center for Advanced Energy Studies and the Idaho National Laboratory. AgPower Group has completed construction of the largest dairy digester facility in the nation at the 15,000-cow Double A Dairy. This project is one of the three finalists for the International Sustainability Award for Sustainable Biopower Generation Facility, which will be announced in Rotterdam later today (March 14). AgPower Group is also the designated developer for the 22-dairy Pecos Valley Biomass Cooperative regional dairy digester facility.

William Jorgenson is a managing partner with AGreen Energy LLC (AGE), a Massachusetts-based biogas provider which was formed five years ago under his leadership. AGE now has one operating digester in Rutland, MA, with four more scheduled. Jorgenson has been engaged in clean tech space for two decades. He has been involved in ethanol operations, bio-diesel, cellulosic and biogas. He also works with European and Canadian investors to evaluate other energy options through his Board of Advisor role for two funds. He is a member of the Dairy Management Inc. task force working on policy areas to encourage renewable energy. Jorgenson previously had management positions with SJH and Company, Inc., Quaker Oats Company and The Terson Company. In 2000, he launched eFarm, which licensed its patented technology to Deere & Company, becoming part of John Deere Agri Services. Jorgenson graduated from Colgate University and attended the University of Oslo, Norway.

Joe Kramer is senior project manager with the Energy Center of Wisconsin. He is an economist and environmental policy specialist with more than 18 years of energy industry consulting experience. He has focused on identifying, quantifying and analyzing the Midwest's biobased and renewable resources. Kramer has done substantial work examining issues associated with use of farm-based and food industry anaerobic digester systems, and he has recently completed a casebook for the Great Lakes region food industries. He has a bachelor's of science degree in economics from the University of Wisconsin, Madison and a master's of science degree in environmental science and policy from the University of Wisconsin, Green Bay.

L. Monte Lamer is biogas operations supervisor with Clear Horizons, LLC, and the Dane Community Digester. Lamer spent 19 years as a power plant operator at a small coal-fired power plant in central Alaska. He joined the Clear Horizons digester team shortly before start-up of the Dane Community Digester, a private/public partnership that involves a co-digestion facility with manure from multiple farms and other organic substrates. Headquartered in Milwaukee, WI, Clear Horizons is a developer of biogas energy systems, providing technical and construction services, as well as the ability to operate and maintain the system for the customer. Clear Horizons is a subsidiary of PPC Partners, Inc.

Michael Land is a director with Baker Tilly Virchow Krause, LLP, and Baker Tilly Capital, LLC. He provides financial advisory and private investment banking services to clients in the renewable energy industry. This includes development support, deal structuring, tax credit monetization, grant procurement and funding placement of both equity and debt. Land assists clients in a wide range of renewable energy sectors, including utilities, manufacturers, universities, municipalities and developers. He has been work on more than 50 renewable energy projects since 2008, including wind, solar, biomass, waste-to-energy and geothermal.

Norma McDonald is North American sales manager of Organic Waste Systems, Cincinnati, OH, a technology owner and system provider for proprietary high-solids anaerobic digestion of organic wastes and production of renewable energy. McDonald has more than 25 years of international experience in anaerobic digestion, fermentation and biochemicals. Her responsibilities have included: sales and marketing of laboratory services for compostability and biodegradability testing; sales and marketing of anaerobic digestion systems for organic waste; establishing and managing a company focused on anaerobic digestion of organic residuals; purchasing enzymes and specialty chemicals; managing research, development and commercialization of new chemicals and

bioplastics. She is a member of the American Biogas Council; U.S. Composting Council; American Council on Renewable Energy; Great Lakes Renewable Energy Association; and 25 X '25. Prior to joining OWS, McDonald founded and owned Phase 3 Renewable, a project developer and system provider for farm-based anaerobic digestion systems, renewable energy production and value-added organic products. She also had management positions at Proctor & Gamble Co.

Dave Merritt is director of policy and program development for Dane County's Department of Administration. Prior to 2011, he served for two years on the staff of former Dane County Executive Kathleen Falk. Merritt coordinated the building of Dane County's "Cow Power Project," the state's first community manure digester that began operation in late 2010. Currently, he oversees development of the county's second community digester project, which is expected to break ground later this year. Merritt also directs the county's clean lakes initiative. Dane County and the Madison Metropolitan Sewage District are collaborating with local, state, and regional stakeholders representing farmers, government regulators and environmental organizations to initiate a cost-effective program to reduce phosphorus to comply with new state DNR regulations designed to yield cleaner lakes and streams, a stronger local economy and sustainable agricultural development. For five years prior to 2009, Merritt served as project coordinator for the Dane County Clean Air Coalition, a public/private partnership of businesses, schools and government agencies that works to improve Dane County air quality. Prior to his work with the Clean Air Coalition, he served for six years as executive director of the Wisconsin Citizens' Utility Board. Merritt has a degree in mathematics from Carroll University.

Mark Moser is founder and president of RCM International, LLC. He was trained as an agricultural engineer with special emphasis on livestock manure management. Over the past 30 years, Moser has focused on methane production and recovery and nutrient management. He is responsible for development, design and completion of projects including: more than 80 anaerobic digesters for methane and on-farm electricity and heat production; more than 30 farm waste storage and nutrient management plans; and consulting services to public and private clients for waste management and/or methane digesters in many countries. He has consulted for the U.S. Environmental Protection Agency and its AgSTAR program, and the U.S. Department of Energy.

Steve Sell is a biologist/application engineer with BIOFerm Energy Systems, a technology provider for anaerobic digestion systems. BIOFerm is part of the Viessmann Group, which has its own renewable energy branch with technologies including geothermal, solar thermal and biogas plants. Sell has a bachelor's of science degree in biological systems engineering from the University of Wisconsin-Madison and a master of science degree in agricultural and biosystems engineering from Iowa State University. He works in the area of co-substrate anaerobic digestion and assisted in the commissioning of the dry fermentation system in Oshkosh, WI.

Thomas G. Sonnleitner is vice chancellor for administrative services at the University of Wisconsin-Oshkosh, serving as the chief financial and facilities officer. Before taking his present position in 2000, Sonnleitner was director of finance and facilities for five years at State College and University Systems of West Virginia, with responsibility for 10 college and six university campuses. Prior to the West Virginia assignment, he worked in the University of Wisconsin system as assistant vice president-financial administration, director of budget planning and assistant budget officer. Sonnleitner is a graduate of the University of Wisconsin, Madison with a bachelor's degree in business administration/accounting.

Chris Voell is national program manager of the U.S. Environmental Protection Agency's AgSTAR, a voluntary outreach and educational program that promotes the recovery and use of methane from animal manure through biogas recovery systems. The program was established in 1994 in collaboration with the USDA. By the end of 2010, 162 anaerobic digester systems were operating across the U.S., representing approximately 453,000 MWh equivalent of energy generation. Voell is responsible for the program's work in 20 states across the Midwest, Northeast and Southwest.

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