

2010 IOMSA Summer Convention Preview

Williamsburg, Virginia • Williamsburg Marriott • June 13–15

“Oilseed Processing 2010—A Look at the Challenges in Our Industry”

Speaker Profiles and Presentation Overviews

Make your plans now to attend IOMSA’s 116th Annual Summer Convention June 13–15 at the Williamsburg Marriott in historic Williamsburg, Virginia. You will find a pre-registration form and hotel information elsewhere in this issue. In addition to the featured speakers on the technical program listed below, the luncheon speaker on Monday, June 14 will be New York City Fire Department Battalion Commander Richard Picciotto, author of *Last Man Down*, a tribute to the 343 firefighters and 2,400 civilians who died in the September 11, 2001 terrorist attack on New York City. Watch future issues of the *Gazetteer* for more information on the convention program and the wide variety of recreational and educational attractions of Colonial Williamsburg.

Ben Morgan

“Cottonseed Oil Initiatives”



Ben Morgan is Executive Vice President of the National Cottonseed Products Association (NCPA). He joined the association in 1984 and was promoted to his current position in 2001. He received a B.S. in Agricultural Economics from Texas A&M University and an M.B.A. in Finance from the University of Memphis. He has spearheaded numerous market development activities for the U.S. cottonseed processing industry, including countries in Latin America, Africa, and Asia.

Overview: A great deal of attention has been focused on fats and oils during this past few years, which led NCPA to launch a public relations campaign to create a positive media image for cottonseed oil. This presentation will focus on NCPA’s efforts to raise the profile of cottonseed oil, beginning with the development of key “talking points” for media and trade industry audiences in cooperation with vegetable oil industry experts and researchers. This was followed by the “Cottonseed Oil Comeback Tour” which put the spotlight on top restaurants, food processors, and bakeries nationwide that have changed formulations to included

cottonseed oil and/or have used cottonseed oil as their premier cooking oil for years.



Kathleen Warner

“Improving the Quality and Stability of Commodity and Specialty Oils”

Kathleen Warner is an internationally recognized expert on quality and stability of edible vegetable oils. For over 30 years, she was lead scientist for edible oil research at the U.S. Department of Agriculture’s

National Center for Agricultural Utilization Research (NCAUR) in Peoria, Illinois. Her areas of research included lipid oxidation, antioxidants, frying, effects of fatty acid composition and tocopherols on quality and stability of oils and foods, and methods for assessing quality and stability of oils and oil-containing foods. Her research team at NCAUR was responsible for basic and applied studies to improve the flavor quality and stability of edible vegetable oils. She has published more than 150 scientific papers including 25 book chapters and edited two books. A frequent speaker at scientific meetings and short courses in the U.S. and internationally, she is currently a consultant on edible oil quality.

Overview: Food manufacturers, restaurants, and bakeries that need stable oils for frying and/or oils with the appropriate functionality for shortenings are looking for alternatives to hydrogenated oils because of *trans* fatty acids. However, commodity oils, such as soybean, sunflower and corn that are processed without hydrogenation are not stable enough for frying oils nor do they have the proper functionality for margarines and shortenings. Even most oils with fatty acid compositions modified to increase oleic and/or to decrease linoleic or linolenic acids are still not as stable for frying as hydrogenated oils. This presentation will discuss various approaches to improve the stability and functionality of commodity vegetable oils and modified composition oils as alternatives to hydrogenated oils and imported tropical fats for frying and margarines/shortenings.

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Robert Collette “Issues Affecting the Edible Fat & Oil Industry”

Robert Collette is President and Secretary of the Institute of Shortening and Edible Oils (ISEO), a national trade association representing the refiners of edible fats and oils in the U.S. As ISEO’s President, he holds primary responsibility for formulating and advancing ISEO’s advocacy positions and acting as liaison to key government agencies. In this capacity, Bob facilitates and implements ISEO policy on issues pertaining to technical matters, the environment, transportation, occupational health and safety, energy and government regulations. Prior to joining ISEO, Bob spent the previous 23 years with the National Fisheries Institute, a national trade association representing seafood businesses. He served as the Fisheries Institute’s V.P. of Science and Technology for last nine years of his tenure and was responsible for planning and coordinating the Institute’s regulatory and technical programs. He has a Masters of Science Degree in Food Science from the University of Rhode Island and is a member of several professional societies and organizations, including the American Oil Chemists Society, Association of Food and Drug Officials and the Institute of Food Technologists.

Overview: The U.S. edible fats and oils industry produces the oils and shortenings used as bakery and frying fats, salad and cooking oils, margarine and spreads and specialty food such as confections. In addition to agronomic, economic and other business conditions that affect the edible fats and oils industry, there are other external forces such as government regulatory policies, legislative initiatives and technical developments, which have an impact on edible oil and fat refiners. This presentation will review the current activities associated with these external forces, which are impacting or have the potential to impact refiners in the future.



Robert Byrnes “Decentralized Oilseed Processing”

Robert Byrnes is the Managing Director of Nebraska Screw Press, a privately owned company in Lyons, Nebraska dedicated to bringing renewable energies to individuals and communities. He has been on the front lines of decentralized oilseed processing in the Midwest. In addition to raising beef, poultry and pork, Byrnes is an organic chemist by education and an industrial chemist by trade. He has now decided to focus on renewable opportunities across the state and has developed several small businesses in a rural community focused on bringing this opportunity to his home town. Roberts’ work resulted in the first and largest commercial biodiesel plant in eastern Nebraska. He also operates a small off grid farm in Lyons.

Overview: This presentation will explore the opportunities and synergies for decentralized oilseed processing facilities. These

facilities, which generally range from 40-150TPD of oilseed processing capacity, can benefit from both local resource and market opportunities, diversified refining for markets and new technologies, including algae. This presentation will outline these opportunities and provide examination of a case study.



William B. Wark “Barton Solvents Accident Investigation”

William Wark was appointed by President George W. Bush to the U.S. Chemical Safety and Hazard Investigation Board (CSB) in September 2006. From 2003 until his appointment to the Board, Mr. Wark provided emergency management consultant services to a number of companies and was a featured speaker at international symposia on managing the consequences of terrorism. From 2001 to 2003 he served as Director of the Emergency Management Practice at the consulting firm Marasco Newton Group. From 1985 to 2001, Mr. Wark served at the Federal Emergency Management Agency in several management positions, including Deputy Director of the Technological Hazards Division from 1999 until 2001. From 1970 to 1984, he served at the U.S. Department of Justice in the area of national internal security. During this time he was on the staff of a White House board on national emergency mobilization preparedness. From 1964 to 1970, Mr. Wark served as a Lieutenant in the United States Navy, which included two years with the Naval Investigative Service and a command tour of duty in Vietnam. While in the Navy, he received various awards including the Vietnam Service and Campaign ribbons. Mr. Wark is a native of Maine and received his bachelor’s degree from the University of Maine at Fort Kent. He earned a Master’s in Public Administration at The George Washington University and is a graduate of the Industrial College of the Armed Forces.

Overview: This presentation will discuss the CSB’s investigation of the July 17, 2007 explosion and fire at the Barton’s Solvents distribution facility in Valley Center, Kansas. The explosion and fire led to the evacuation of 6,000 residents and destroyed the facility. CSB investigators found that on the day of the accident a tanker-trailer arrived to transfer Varnish Maker’s and Painter’s Naphtha (VM&P Naphtha) into a storage tank. The CSB determined that the transfer equipment from the truck tanker to the storage tank likely was properly bonded and grounded to prevent the generation of static electricity. However, the CSB found, the float device inside the 15,000 gallon storage tank presented a hidden danger. The CSB found the most likely cause of the explosion—involving what is known as a nonconductive flammable liquid—was a static spark resulting from a loosely-linked level-measuring float within the tank. The spark ignited the air-vapor mixture inside the tank as it was being filled. The CSB issued recommendations to OSHA and others to improve required information contained in MSDSs to include addressing nonconductive flammable liquids which are routinely shipped to distributors such as Barton. The CSB also recommended that six major oil and chemical industry associations ask their

member companies to improve the warnings on the MSDSs of flammable liquids because these materials can accumulate static electricity.



Bill Davis
“Why Cranes Wreck”

Bill Davis is the crane safety expert for Zurich Services Corporation. He has been a professional member of the American Society of Safety Engineers (ASSE) for more than 29 years. Bill is a Certified Safety Professional, and holds the ALCM and CPCU designations, and has been a safety practitioner for 33 years. He attended Virginia Military Institute and Old Dominion University, where he earned a B.S. in Civil Engineering. Bill has presented hundreds of crane safety programs throughout North America for customers, associations and trade groups. Courses range from four-hour management introductions to 40-hour Professional Crane Operator programs to prepare participants for the NCCCO exams. As a professional trainer, he designs presentations for maximum effectiveness, meaning that they capture and hold audience interest. In addition, he assists with crane accident investigation, safety program development and risk management strategies.

Overview: This presentation will provide an overview of crane accident types, causes of crane accidents, and recommended corrective action to prevent accidents. Some statistics will be offered, followed by limited discussion of new and upcoming

regulations of interest to those involved with plant operations and safety.



John Campbell
“Renewable Fuels
Industry Update”

John Campbell is Senior Vice President for Government Relations and Industrial Products at Ag Processing Inc (AGP), working in the areas of ethanol marketing, production and marketing of new industrial products from soybean oil such as biodiesel and cleaning solvents, new business development, strategic planning and public and government affairs. Under Campbell's leadership AGP became a pioneer in the use of soybean oil for industrial uses. AGP was the first company to build a dedicated biodiesel plant. Other new uses developed and enhanced by Campbell's team at Ag Environmental Products LLC (AEP) include agricultural spray adjuvants, industrial cleaning solvents and petroleum oil recovery and enhancement. Prior to joining AGP in 1991, John served as Deputy Under Secretary for International Affairs and Commodity Programs at the U.S. Department of Agriculture. Campbell's major responsibilities at USDA were to develop and coordinate the 1990 farm bill strategy for the Administration and to supervise implementation of the legislation. Campbell also directed the Administration's activities in development and implementation of natural disaster and dairy legislation. He

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also assisted with policies in the area of trade such as the Export Enhancement Program (EEP) and export credit guarantee programs. Prior to serving at USDA, Campbell held several positions on Capitol Hill. He began his career in 1979 working for his home state representative, Congresswoman Virginia Smith of Nebraska. Campbell served on the Senate Agriculture Committee under the leadership of Senators Jesse Helms and Richard Lugar. He was responsible for all commodity programs and commercial export programs such as the EEP during Congressional consideration of the 1985 farm bill. Campbell also served on the personal staff of Senator Rudy Boschwitz, where he co-authored “decoupling” legislation finally approved in 1996 by the House and Senate as the “Freedom to Farm” Act. While on a leave of absence from the Senate Agriculture Committee in 1986, Campbell took advantage of a Rotary Scholarship to earn his post graduate diploma in Agricultural Economics from the University of Sydney, Sydney, Australia. He earned his undergraduate degree from the University of Nebraska in Animal Science.

Overview: This presentation will provide attendees with an update on the renewable fuels industry with particular emphasis on biodiesel and ethanol. Topics will include the current status of the biodiesel and ethanol blenders tax incentives and the EPA Renewable Fuel Standard. The impacts of climate change legislation and regulation will also be discussed. Climate change legislation and regulation cost estimates will be presented as well as conclusions from studies on land use changes.



Warren Barnes
“Sustainability in Oilseed Processing”

Warren Barnes is Vice President of Frazier, Barnes & Associates, a 13-year old agribusiness and bioenergy consulting firm located in Memphis. FBA provides project development and technical services to the oilseed processing industry as well as bio-

diesel, ethanol industry and biomass to power industries. Warren’s 30 years of professional experience includes project engineering and project management roles in the edible oil industry, as well as plant management and senior management roles in companies such as Lou Ana Foods, Inc.; Kraft Food Ingredients, Inc.; and the former Quincy Soybean Company. Mr. Barnes has served in his current role with FBA since its inception in 1996. He was instrumental in the commercialization of a corn dry fractionation process now under license to Cereal Process Technologies, LLC, and has been a board member of that company since its inception in 2005. He has a degree in Mechanical Engineering from North Carolina State University, and a Management degree from Central Michigan University.

Overview: As the first of three related presentations on this topic, this presentation will provide an overview of sustainability including 1) its origins; 2) how this concept is used within industry in general; and 3) how sustainability requires adjustments to a company’s business model and mission.



Mike Boyer
“Sustainability in Oilseed Processing”

Mike Boyer is the President of Agribusiness and Water Technology, Inc., in Atlanta. Mike has over 30 years experience in environmental and facilities design and construction in agribusiness, rail transportation, and other private sector/industrial areas, and has provided services to over 200 agribusiness facilities. In addition to his engineering and Project Management background, Mike has worked extensively the areas of environmental management and sustainability program development in the private sector. He received his Bachelors and Masters degrees from the University of Missouri-Columbia, and is a member of IOMSA, AOCS, and other related agribusiness industry associations.

Overview: This second presentation addressing sustainability will address practical aspects of applying sustainability principles in agribusiness processing facilities, with emphasis on water management. Methodologies for plant-wide analysis of needs in this area will also be covered; the development of companywide sustainability programs as they relate to practical applications will be discussed as well.



Loren Polak
“Sustainability in Oilseed Processing”

Loren Polak is the Director of Environmental Management for Bunge North America, Inc., based in St. Louis, Missouri. He has 35 years of environmental management experience and has worked for Bunge since 1993, where he has overall corporate environmental management responsibilities. Prior to employment with Bunge, he was employed 17 years as an Environmental Engineer for John Deere in Dubuque, Iowa. Prior to that, he was employed for two years by an environmental consulting firm in Illinois. He received an M.S. degree in Environmental Health Science from the University of Michigan in 1974 and received a B.S. degree from Kansas State University in 1973. He is a Registered Environmental Manager through the National Registry of Environmental Professionals. He is a member of the Air & Waste Management Association, the Water Environment Federation, and the National Association for Environmental Management.

Overview: The third presentation on this topic will focus on Bunge’s environmental sustainability program in North America, as it applies to oilseed processing. The presentation will review the challenges and accomplishments that Bunge has faced thus far in the development of its program. It will describe the focus of its environmental sustainability program (i.e., greenhouse gas reduction, water conservation, and the reduction of land filled waste). The presentation will also describe the goals that have been established and the methods that have been employed to reach those goals.



Stephen King “Food Safety and Defense Update”

Stephen King has had a 19-year career with the Food and Drug Administration (FDA), beginning with FDA’s Center for Biologics Evaluation and Research (CBER). In his five years with CBER, he held positions as Procurement Clerk, Administrative Assistant, and Management Analyst. He then spent five years as a Consumer Affairs Specialist in the FDA’s Office of the Commissioner, Office of Consumer Affairs where he developed and worked on many of the Agency’s national public education campaigns, and helped to ensure that the public’s voice was heard as part of the regulatory decision making process. Most notably, King served as the lead on FDA’s consumer outreach campaign when the agency obtained temporary authority to regulate cigarettes as a drug product in 1998. During this outreach campaign, he led a team of outreach specialists to educate the general public nationwide on the new FDA regulations, as well as request their assistance to report retailers that continued to sell tobacco products to minors in order for FDA to take regulatory action. In January 2001, he accepted a position as the Public Affairs Specialist (PAS) for the FDA’s Baltimore District Office which is responsible for overseeing all regulated industry in Maryland, Virginia, West Virginia, and the District of Columbia. As one of FDA’s 35 field Public Affairs Specialists, he serves as the front line contact for representatives from other government agencies,

industry, national corporations, the media, law offices, and the general public. In his role as a PAS, he serves as FDA’s representative on local, state, and cooperating federal agency consumer committees and programs providing insight and information to these organizations regarding the Agency’s regulations, programs, policies, and enforcement efforts with regulated industry. During his tenure, he has been able to form significant and mutually rewarding partnerships with government, industry, academia, the media, and non-profit organizations.

Overview: The presentation will focus on food safety and food defense as well as highlighting current activities that the FDA has established to assure the safety of the nation’s food supply. Information will be provided during the session on the FDA’s new Reportable Food Registry, food defense and emergency response, recalls, as well as resources to obtain up-to-date federal food safety information.

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