

West Virginia Construction & Design Exposition

Electric Vehicle Technologies

A*G*E*N*D*A

11 a.m. The State of Play for EVs in WV

W.Va. Clean State Program

Kelly Bragg/ Tiffany Bailey

11:15 a.m. Fundamentals of EV Charging Infrastructure

National Alternative Fuels Training Consortium

Bill Davis/Judy Moore

11:30 a.m. Panel discussion/audience Q&A

Moderator: **Jeff Herholdt**, director, W.Va. Division of Energy

- **Bill Davis**, director, National Alternative Fuels Training Consortium, West Virginia University
- **Bhaskaran Gopalakrishnan**, professor of Industrial and Management Systems Engineering; director of the Industrial Assessment Center, West Virginia University
- **Marty Weirick**, West Virginia Electric Auto Association

Noon Adjourn

Panelists:

William A. (Bill) Davis, director, National Alternative Fuels Training Consortium. Davis has been with the NAFTC for 16 years. He oversees daily operations of the NAFTC and its member educational institutions. He has managed funding of more than \$33 million and was instrumental in the establishment of a new national headquarters operation and training facility; the growth of the NAFTC headquarters from four personnel to 20; and the expansion of the National Training Center membership from 18 to its current size of nearly 50. Davis served with the U.S. Army for 16 years, attaining the rank of major serving as company commander, support operations officer and U.S. Army Armor School branch chief. Prior to returning to WVU, he worked as an advisor to the Saudi Arabian National Guard as a curriculum development specialist and worked in sales and customer service for five years. Davis earned a BA in secondary education from West Virginia University in 1978. He has completed more than 15 hours of graduate course work in curriculum development and education theory and applications. He is a graduate of the U.S. Army Combined Arms Staff and Service School and numerous maintenance and staff development courses with the U.S. Army. Davis has been selected to speak at numerous alternative fuels and advanced technology conferences and recently was the keynote speaker at the Ford/AAA Student Automotive banquets for the states of Ohio and West Virginia. And he never passes up the opportunity to have impromptu training/awareness sessions on alternative fuel and advanced technology vehicles.

Bhaskaran Gopalakrishnan, professor of Industrial and Management Systems Engineering (IMSE); director of the Industrial Assessment Center (IAC) funded by U.S. DOE, West Virginia University. Through the IAC and other funded initiatives and as a private consultant, Gopalakrishnan has conducted numerous industrial and energy assessments as well as plant-wide energy assessments for manufacturing facilities and has published widely in this field. Dr. Gopalakrishnan obtained his B.E. (Hons) degree in production engineering from the College of Engineering at Guindy, University of Madras, India, M.S. degree in operations research from Southern Methodist University, and Ph.D. degree in industrial engineering and operations research from Virginia Tech. He is a certified energy manager (CEM) certified by the Association of Energy Engineers, Atlanta; certified practitioner in energy

management systems (CPEnMS), and a U.S. DOE qualified specialist in all energy system software tools. He is a registered professional engineer (PE) in the state of West Virginia and a LEED green associate. His areas of research interest are industrial energy conservation, waste reduction, and productivity improvement. Email: bgopalak@mail.wvu.edu

Judy Moore, assistant director-communications and outreach, National Alternative Fuels Training Consortium. Moore has been the assistant director-communications and outreach, of WVU's NAFTC since February 2005. Her main roles and responsibilities include providing leadership in areas of creative direction, media relations, and management of the communications, marketing, and education and outreach efforts. She is the coordinator of National AFV Day Odyssey, leading the conduct of the event in 2006, 2008, 2010, 2012, and 2014 and has been instrumental in growing the event to more than 100 events, nearly a quarter of a million attendees, and more than 200 million individuals reached through media and Internet. Moore also serves as the principal investigator/project coordinator of numerous grants including the Clean Cities Learning Program and the AFV Curriculum Development and Outreach Initiative funded by the U.S. Department of Energy Clean Cities program. Moore has more than 30 years of experience in the marketing and communications field. She has a bachelor of fine arts - digital design/visual communications degree and a master's degree in integrated marketing communications. She has assisted in the development of numerous NAFTC alternative fuel and advanced technology vehicle curriculum and workshop materials, has authored and co-authored many articles for industry newsletters and publications, and has spoken at numerous conferences/workshops.

Marty Weirick, West Virginia Electric Auto Association. Weirick is a sixth-generation West Virginian. He grew up in Preston and Jackson counties, graduated from Ravenswood High School, and holds a bachelor of science degree in chemical engineering from Virginia Tech. He is a member of the West Virginia Electric Auto Association and according to a source at West Virginia DMV, he owns the first Chevy Volt to be registered in West Virginia. He is an electric car enthusiast who says that electric cars are "really, really fun to drive." Weirick has 40 years' technical experience in the chemical industry, retired after 32 years at Union Carbide, and founded a water remediation startup company. He is currently employed as a senior chemical process consultant at an engineering company in Charleston. He has authored several articles in technical and peer-reviewed journals, as well as two patents.

W.Va. Division of Energy

John F. "Jeff" Herholdt, Jr., director. Herholdt advances West Virginia policy related to the advancement of resource diversification and building energy codes and serves as chairman of the WV Public Energy Authority. He is the Governor's Alternate to the Southern States Energy Board and a member of the Board of Advisors for the WV Manufacturing Extension Partnership and the Appalachian Regional Commission Energy Advisory Committee. He received an M.A. in economics from West Virginia University and a B.A. in economics from Davis & Elkins College.

Kelly Bragg, energy development specialist. Bragg has been the coordinator of the W.Va. Clean State Program and an energy development specialist for the W.Va. Division of Energy since 2006. She works to improve energy efficiency and the use of renewable energy technologies in West Virginia. Her recent focus areas have been building energy codes, alternative transportation fuels, and renewable energy. A graduate of Marshall University, she received a bachelor's in journalism.

Tiffany Bailey, energy development specialist. Bailey is the co-coordinator of the W.Va. Clean State Program, joining in 2015. She worked for the largest electric utility in the state throughout college and several years after. After a four-year stint in the non-profit sector, she has returned to the energy industry, focusing on research. Bailey is a graduate of Marshall University with a bachelor's in management information systems.