

**Invitation for Public Comment on the List of Candidates
For the Environmental Protection Agency's
Clean Air Scientific Advisory Committee**

June 20, 2016

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a Federal Register Notice on April 6, 2016 (81 FR 19967 - 19969) that it was inviting nominations of experts to be considered for the Administrator's appointment to the Clean Air Scientific Advisory Committee (CASAC). The CASAC provides independent advice to the EPA Administrator on the technical bases for EPA's national ambient air quality standards. The SAB Staff Office sought nominations of experts to serve on the CASAC who represent state air pollution control agencies and who have demonstrated high levels of competence, knowledge, and expertise in scientific/technical fields relevant to air pollution and air quality issues.

The SAB Staff Office received nominations for the attached 7 candidates based on their expertise and willingness to serve. We hereby invite public comments on the attached List of Candidates for appointment to the CASAC for consideration by the SAB Staff Office. Comments should be submitted to Mr. Aaron Yeow, Designated Federal Officer, no later than July 20, 2016 at yeow.aaron@epa.gov. E-mail is the preferred mode of receipt. Please be advised that public comments are subject to release under the Freedom of Information Act.

2016 CASAC Annual Membership

Blanz, Robert

Arkansas Department of Environmental Quality

Dr. Robert Blanz currently serves the State of Arkansas as the Chief Technical Officer for the Arkansas Department of Environmental Quality (Department). As the Chief Technical Officer, he is responsible for technical policy matters across all environmental media, including the Office of Air Quality, Office of Water Quality, and Office of Land Resources. In addition, Dr. Blanz is Acting Operations Manager of the Office of Water Quality of the Department. Dr. Blanz's educational background includes a BA and MS in Zoology from the University of Arkansas, Fayetteville, and a PhD in civil engineering from Texas A&M University, College Station. His areas of expertise are environmental engineering and ecology. Dr. Blanz is a registered professional engineer.

Boylan, James

Georgia Department of Natural Resources

Dr. James Boylan is currently the Manager of the Planning & Support Program in the Air Protection Branch of the Georgia Environmental Protection Division. His modeling team consists of eight Ph.D. scientists and his emission inventory and regulatory development team consists of seven environmental engineers/scientists. Dr. Boylan is responsible for air dispersion modeling with AERMOD and CALPUFF required for PSD permit applications (SO₂, NO₂, CO, PM_{2.5}, and lead); photochemical grid modeling with CMAQ and CAMx required for Georgia's ozone, PM_{2.5}, and regional haze State Implementation Plans (SIPs); meteorological modeling with MM5 and WRF; emissions modeling with SMOKE and MOVES; the development of annual state-wide emission inventories for criteria pollutants; and the technical analyses for nonattainment area designation recommendations (ozone, PM_{2.5}, lead, SO₂, NO₂). In addition, he is responsible for updating Georgia's Rules for Air Quality Control and developing and submitting all attainment demonstration SIPs, infrastructure SIPs, and rule revision SIPs to EPA. Previously, he worked at the Florida Department of Environmental Protection performing regulatory audits of stationary sources. He has a B.S. in Chemical Engineering from the University of Notre Dame, a M.S. in Chemical Engineering from Auburn University, and a M.S. and Ph.D. in Environmental Engineering from the Georgia Institute of Technology (under the direction of Dr. Armistead "Ted" Russell). Dr. Boylan's Ph.D. research included the development of the first comprehensive three-dimensional Eulerian photochemical grid model (URM-1ATM) that included full ozone chemistry, heterogeneous sulfate chemistry, aerosol thermodynamics, wet deposition and scavenging, and the decoupled direct method (DDM) for ozone and particulate matter. This model was applied as part of the Southern Appalachian Mountain Initiative (SAMI) to simulate 1-hour maximum ozone, W126 ozone, speciated PM_{2.5}, acid deposition (ANC), and regional haze. Also, he developed and published the first model performance goals and criteria for PM_{2.5} which has become the benchmark for most PM_{2.5} modeling projects both nationally and internationally. Dr. Boylan was one of the first modelers to merge traditional air permit dispersion modeling with photochemical grid models (PGMs) when he applied a PGM to evaluate the single source impacts on ozone and secondary PM_{2.5} from a coal-fired power plant as part of a PSD permitting review in 2009. In addition, he developed the "Inter-Pollutant Trading Ratio Approach" for accounting for secondary PM_{2.5} formation from SO₂ and NO_x in EPA's AERMOD steady-state dispersion model. Over the past several years he has held numerous leadership positions within many regional and national workgroups. Dr. Boylan has authored 18 peer-reviewed journal articles on ozone and PM_{2.5} formation, has presented research findings at over 180 national, regional, and local conferences/meetings, and was awarded "Outstanding Reviewer Status" by Atmospheric Environment in 2015. In 2001, Dr. Boylan was inducted into the Sigma Xi Scientific Research Honor Society. Currently, Dr. Boylan serves on the CASAC Sulfur Oxides Review Panel.

Butler, Craig

Ohio Environmental Protection Agency

Mr. Craig Butler was appointed Director of Ohio Environmental Protection Agency by Governor Kasich on February 21, 2014. He previously served as the Assistant Policy Director for Energy, Agriculture and the Environment for Governor Kasich. A public servant of more than 25 years, he began his career at Ohio EPA in the Office of Pollution Prevention, working with facilities to reduce air emissions from various air pollution sources. As manager of Business and Industrial Relations in the Director's Office, he served as liaison to the air program, working with air pollution sources to insure that the facilities obtained the proper air permits in a timely fashion and maintained compliance. He later served as District Chief of both Ohio EPA's Central District and Southeast District Offices overseeing air and other media activities including air permitting and enforcement. Mr. Butler graduated Mansfield University in Mansfield Pennsylvania with honors with a BA in Geography and Environmental Science. After receiving a scholarship from Ohio University, he graduated from Ohio University with a Masters in Environmental Science. As Director, Mr. Butler currently serves as Co-Chairman of Ohio's State Emergency Response Commission, commissioner on the Great Lakes Commission and Council of Great Lakes Governors, Chair of Ohio's Lake Erie Commission, and represents the Ohio EPA on the Ohio Power Siting Board, the Air Quality Development Authority, the Ohio Water Development Authority and the Executive Committee of the Environmental Council of States. Congress has requested he testify before various standing committees on issues from the Clean Power Plan to Harmful Algal Blooms.

Croes, Bart

California Air Resources Board

Mr. Bart Croes is the Chief of the Research Division for the California Air Resources Board, with responsibilities for California's ambient air quality standards; health, exposure, atmospheric processes, and emissions control research; indoor air quality program; and climate change science and mitigation of high global warming potential gases. He is a member of the National Research Council (NRC) Committee on Review of EPA's "Science to Achieve Results" Research Grants Program, and was the Public Sector Co-Chair for the NARSTO Executive Assembly, a former member of the NRC Committee on Research Priorities for Airborne Particulate Matter, and the Committee on Energy Futures and Air Pollution in Urban China and the United States, a joint collaboration between the National Academy of Engineering, NRC, Chinese Academy of Engineering, and Chinese Academy of Sciences. He has been a peer reviewer for the NRC, the U.S. Environmental Protection Agency, and numerous journals, and received the Editors' Citation for Excellence in Refereeing from the Journal of Geophysical Research. Mr. Croes has published peer-reviewed articles on air pollution and public health, air quality simulation modeling, emission inventory evaluation, reactivity-based VOC controls, toxic air contaminants, acid deposition, the weekend effect for ozone and PM, air quality data analysis and trends, and climate change impacts on California. Mr. Croes holds a Master of Science in Chemical Engineering from the University of California at Santa Barbara and a Bachelor of Science in Chemical Engineering from the California Institute of Technology, and is a registered Professional Chemical Engineer in the State of California.

Honeycutt, Michael

Texas Commission on Environmental Quality

Dr. Michael Honeycutt is the director of the Toxicology Division of the Texas Commission on Environmental Quality (TCEQ). He has been employed by the TCEQ since 1996 and has managed the division of 14 toxicologists since 2003. His responsibilities include overseeing health effects reviews of air permit applications, overseeing the review of the results of ambient air monitoring projects, and overseeing the reviews of human health risk assessments for hazardous waste sites. Dr. Honeycutt spearheaded the updating of TCEQ's method for deriving chemical toxicity factors, which has been through two independent external scientific peer reviews and multiple rounds of public comment. He has overseen the development of inhalation toxicity factors for 98 chemicals using this process and has published numerous articles and book chapters on chemical risk assessment. Recent areas of research include risk analysis and characterization of emissions from natural gas operations and hydraulic fracturing, weight-of-evidence analyses in chemical risk assessment, and concentration-response considerations in ozone risk assessment. He has extensive experience and knowledge of the risk assessment and the regulation of both criteria and non-criteria air pollutants. Dr. Honeycutt serves as a technical resource in the areas of chemical toxicokinetics and toxicodynamics, and human health and environmental risk assessment, particularly as they relate to issues concerning air and water quality, drinking water contamination, and soil contamination. Dr. Honeycutt is an adjunct professor in two departments at Texas A&M University, serves or has served on numerous external scientific committees, participated in and helped organize five international scientific conferences, and has provided invited testimony at several Congressional hearings. He also serves as an expert witness in public and state legislative hearings, participates in public meetings, and has conducted hundreds of media interviews. He earned both a B.S. and Ph.D. in Toxicology from the University of Louisiana at Monroe. His research is funded entirely by the State of Texas.

Kenski, Donna

Lake Michigan Air Directors Consortium

Dr. Donna Kenski is the Director of Data Analysis at Lake Michigan Air Directors Consortium (LADCO) in Rosemont, IL. She was awarded a Ph.D. in Environmental and Occupational Health Sciences (1997) and an M.S. in Public Health (1992) from the University of Illinois at Chicago. Her responsibilities at LADCO require working closely with their member states to develop supporting information for State Implementation Plans. Tasks encompass planning and implementing special-purpose monitoring studies; developing and applying statistical models to examine relationships between air quality, meteorology, and emissions; and applying exploratory and graphical data analysis techniques. Her areas of expertise and research activities include source-receptor modeling and other observation-based models for source attribution of PM_{2.5} and haze; ensemble trajectory analysis; conceptual model development integrating ambient data with theoretical and laboratory observations; visual display of quantitative data; and development and field testing of advanced monitoring technologies. In addition, Dr. Kenski's position at LADCO involves daily interaction with State, local, and Tribal monitoring personnel, such that she is well acquainted with their perspectives on air monitoring issues. She chairs a midwestern state data analysis workgroup, reviews journal articles for Environmental Science and Technology, Journal of the Air and Waste Management Association, Journal of Environmental Engineering, and Atmospheric Environment, and is frequently an invited speaker at regional and national air quality meetings. Dr. Kenski is also an Adjunct Associate Professor at the University of Illinois at Chicago and served for 3 years on U.S. EPA's Clean Air Scientific Advisory Committee. LADCO is a nonprofit organization funded by U.S. EPA and the states of Indiana, Illinois, Michigan, Minnesota, Ohio, and Wisconsin.

Moore, Jr., Charles Thomas (Tom)

Western States Air Resources Council - Western Regional Air Partnership

Tom Moore works for the 15 state air agency members of the Western States Air Resources (WESTAR) Council. He is the manager of the Western Regional Air Partnership (WRAP) air quality program, a voluntary partnership of states, tribes, federal land managers, local air agencies and the U.S. EPA, whose purpose is to provide technical support to understand current and evolving regional air quality issues in the context of the Clean Air Act (CAA) and the National Environmental Policy Act (NEPA). His regional analysis and planning support work is conducted through management of a series of interrelated contractor-supported regional projects for the WESTAR and WRAP membership. These diverse, complex, and highly technical projects cover ambient monitoring data analysis, emissions inventory preparation and analysis, regional photochemical grid modeling and source apportionment results, and satellite air quality data. He has worked extensively with both the activity and emissions estimation techniques for electrical generating units, wildland and agricultural fire emissions, as well as oil & gas exploration and production emissions, in support of air quality planning and management programs across the West. A principal emphasis of his work from 2002 to the present is support of Regional Haze planning for the more 100 Class I areas in the WESTAR-WRAP region. An additional complementary effort over the past 6 years has been the evaluation of ozone pollution and its transport, impacts from background sources, and detailed source apportionment among the 15 western states belonging to WESTAR and WRAP. The most important aspect of his work qualifying him to again serve the Clean Air Scientific Advisory Committee is his well-demonstrated ability to support and connect the diverse WESTAR-WRAP member agencies to the regional analysis results for planning and policy purposes. He has a B.S. in Physical Geography (1989) from Arizona State University in Tempe, with an emphasis on meteorological and glacier field studies, and climate data analysis projects, as well as additional graduate coursework related to air pollution and climate. He has lead numerous air pollution monitoring studies and analysis projects, held management positions in state and local government, and worked as an environmental consultant. He is frequently invited to speak as an expert on western U.S. air quality issues. Before joining the WESTAR staff in 2013, he worked for the Western Governors' Association from 2002-13 coordinating and managing WRAP activities. From 1990 to 2001, he designed and managed air quality monitoring and data analysis activities for the Arizona Department of Environmental Quality, where he led the development and implementation of the haze monitoring networks in both urban and remote areas throughout the state. Tom also worked previously for the WESTAR from 1994-96 on an inter-agency personnel assignment, leading a WESTAR project to advise EPA on western U.S. topics and issues with the implementation of the national Particulate Matter health and welfare standards. Tom has organized large-scale western modeling workshops with EPA OAQPS and regional offices (2011-13-15) as well as providing state and local air agency briefings during 2013-15 on western regional modeling results. He was a member of the Wyoming Ozone Technical Advisory Group 2010-11, the EPA Clean Air Scientific Advisory Committee (CASAC) Particulate Matter Review Panel 2008-11, and the Expert Air Quality Panel reviewing the draft EPA 2007 Report on the Environment. He has also served on NASA Applied Sciences Program proposal selection committees, as the Arizona DEQ representative to the IMPROVE Steering Committee 1999-2001, on the Phoenix (AZ) Metropolitan Area Visibility Index Oversight Committee, and the Stakeholder Advisory Group for the Arizona Regional Haze State Implementation Plan Development process, both 2001-02. As a WESTAR representative from 1996-98, he served on the Science and Technical Support Workgroup of the EPA CAAAC's Subcommittee On The Joint Implementation of Ozone and PM NAAQS and Regional Haze rule. He is a member of the Air & Waste Management Association.