Climate and Respiratory Health - Focus Asthma
November 9, 2017| The Collider | Asheville, NC
Speaker Profiler

Susan Anenberg, PhD.
Associate Professor and Director Global Environmental Health Program, George Washington University

Dr Anenberg was previously Co-Founder and Partner at Environmental Health Analytics, the Deputy Managing Director for Recommendations at the U.S. Chemical Safety Board, an environmental scientist at the U.S. Environmental Protection Agency, and a senior advisor for clean cook-stove initiatives at the U.S. State Department, as well as contributing author of USGCRP National Climate Assessment, Chapter 3, on climate, health, air quality.

Jesse Bell, Ph.D.
NOAA's Cooperative Institute for Climate and Satellites

Dr. Bell's research primarily explores the relationship between ecohydrological processes and climate change. He is specifically interested in understanding the links between climate extremes and the implications of future climate change on the environment. He is actively studying the link between climate and human health. His research in this area primarily involves combining climate data observations with morbidity and mortality data. He served as a climate science advisor for the Climate and Health Program at the Centers for Disease Control and Prevention. He was a lead author on a chapter for the USGCRP Climate and Health Assessment that focuses on the impacts of extreme events on human health.

Calvin Cupini
Clean Air Carolina

Calvin is the Citizen Science Program Manager at Clean Air Carolina where he is currently installing a statewide particle sensor network in every single county of North Carolina. Recently, Clean Air Carolina was selected as one of only two groups in the country to partner with the EPA in the development of a low cost sensor co-location guide and Excel-based macro for the "Air Sensor Toolbox." His background is in Environmental Science and Economics UNC Charlotte with a focus on GIS and spatial modeling. His research includes cost-benefit modeling of energy technology and policies, and the economic effects of light rail development on housing prices. His scientific focus included a low cost air quality monitor study on fine particle pollution and low cost monitoring tools, as well as GIS modeling of solar power feasibility, and land cover land use change. At Clean Air Carolina, he reports on localized pollution impacts in environmental justice areas, manages and implements the AirKeeper network of engaged citizens, and advises staff in matters of public science and environmental economics. –

Jenny Dissen
Corporate Relations and Partnerships lead at NOAA's Cooperative Institute for Climate and Satellites, a research institute within the NC State University Office of Research Innovation and Economic Development.

Ms. Dissen develops collaborations and partnerships with private sector industry, government, academia, scientists and others to advance utilization of climate and environmental data for various applications opportunities and risk analytics on the adaptation timescale. She supports the Division Chief of Climate

Information Services at NOAA's National Centers for Environmental Information in various strategic engagement activities in their national climate services program. Prior to CICS-NC, Ms. Dissen worked for the William J. Clinton Foundation in their Clinton Climate Initiative in Southeast Asia. Ms. Dissen has a Masters in Civil Engineering – Environmental Systems Analysis, and Bachelors in Environmental Engineering, both from NC State University. She has several certificates including one in Climate Change and Society from UNC Asheville, and two from Harvard Business School Executive Education Program.

Jim Fox
Director, National Environmental Modeling and Analysis Center (NEMAC), University of North Carolina, Asheville

James (Jim) Fox is the Director for UNC Asheville's NEMAC. In that position, he serves as the team leader and principal investigator for several major collaborations, including the USDA Forest Service's Eastern Forest Environmental Threat Assessment Center (EFETAC), NOAA's Climate Program Office and National Centers for Environmental Information, the North Carolina Institute for Climate Studies, and state, county, municipal, and regional governments in the southeastern United States.

Edward Gardiner, Ph.D.
NOAA Climate Program Office –
Engagement lead for the U.S. Climate Resilience Toolkit

Dr. Gardiner specializes in translating complex scientific concepts about the Earth system and biodiversity sciences for professionals and decision-makers. Working at the intersection of big data, data visualization, applied climate science, web design, and social sciences, he has guided the evolution of the toolkit (toolkit.climate.gov) and Climate.gov websites (two of NOAA's primary websites designed for public engagement with climate science from throughout the Federal Government and her partners) from their inception. Previously, he co-founded the Worldviews Network, was the science advisor and data architect for the American Museum of Natural History's (AMNH) Science Bulletins program, GIS/Remote Sensing program manager for the AMNH Center for Biodiversity Conservation, and GIS manager for the Coweeta Long Term Ecological Research Site in western North Carolina.

Eric Klos
CEO, HEALTHeWeather

Eric is the CEO and Founder of HEALTHeWeather, a platform as-a-service (PAAS) software company delivering personalized weather insights for better patient health. Prior to starting HEALTHeWeather, He had cofounded G2Xchange Health, a membership-based online community for Federal Health IT executives.
Following a 15-year career in Federal Health IT, through his own company HealthTechTure, he conducted business consulting for Federal Health IT firms, and government contracting support of the Office of the National Coordinators for Health IT and for the Agency for Healthcare Research and Quality's MONAHRQ Program. During a 15-plus years career he developed marketing plans and sales strategies targeted at Federal Health agencies including VA, the DOD Military Health System, and HHS and won multimillion dollar contract awards. Federal Health IT companies he represented provided solutions from Electronic Health Records (EHR), adverse event reporting systems, and health information exchange platforms. To start his career, Eric worked 12 years on Capitol Hill first working for Congressman John Myers, who represented the 7th Congressional District of Indiana (encompassing Purdue University, Eric's alma mater) then becoming the Director of Information Technology at the House Committee on Veterans Affairs.

Kenneth Kunkel, PhD.
Lead Scientist for National Climate Assessments, NOAA Cooperative Institute for Climate and Satellites, Research Professor, Dept. of Marine, Earth, and Atmospheric Sciences North Carolina State University

Dr. Kunkel's research has focused on historical climate variability and trends and on potential future change, particularly related to extreme events, such as heavy precipitation, heat waves, cold waves, and winter storms. His work on climate change has involved the diagnostic analysis of regional and global climate model simulations. As Lead Scientist for technical support of the National Climate Assessment, he led the development of a nine-part NOAA Technical Report series published in 2013, to support the development of the Third National Climate Assessment. He was one of the lead authors on the climate science sections of *Climate Change Impacts in the United States: The Third National Climate Assessment* and was a contributing author on *The Impacts of Climate Change on Human Health in the United States: A Scientific Assessment.*

Marjorie McGuirk
President, CASE Consultants International

Marjorie McGuirk is a climate scientist who specializes in applying data to decisions in climate adaptation, mitigation and sustainability. Her background as a customer service representative with NOAA, enabled her to apply climate knowledge to all sectors of climate-sensitive sectors, such as agriculture, energy, health, infrastructure, transportation, insurance and tourism. With extensive experience at NOAA and the World Meteorological Organization, she works to assist communities, industries and non-for profits to adapt and to mitigate impacts to climate variability and change. Marjorie is a member of the American Meteorological Society Board on Global Strategies. She leads CASE efforts to transform the latest scientific findings into real world decision-making, helping clients to introduce effective measures to build climate resilience into their strategies, activities and processes. She was a contributing author to the UN Global Framework for Climate Services and has published on climate change impacts to transportation infrastructure and the Arctic.

Ria Persad, Ph.D.
StatWeather Institute, Chief Executive Officer

Ria Persad studied mathematics and physics at Harvard, Princeton, and Cambridge Universities, with doctoral study at Rice University. Her experience in climate modeling began at Lawrence Livermore Lab's upercomputer Center in 1991. Persad performed earth and solar system modeling at NASA and went on to model geophysical systems at Bell Geospace. She worked on the trading floors of Lehman Brothers and was a consultant to Goldman Sachs. As a climatologist at Enron and Duke Energy, she was alerted to the needs of the energy trading sector and weather risk management. She later went on to develop state-of-the-art long-range weather prediction systems which were peer-reviewed among academia and U.S. Department of Defense scientists and rigorously tested for the top meteorological broadcasting station in the Midwest. She models complex systems for the U.S. Space Program and is an innovative Subject Matter Expert. Persad has been collaborating with NOAA National Centers for Environmental Information and their academic research partner, CICS-NC on numerous climate and energy engagement activities to advance environmental intelligence. Persad received the Highest Honor from the Society of Women Engineers and Citations from the U.S. Secretary of Energy and the U.S. Senate on Scientific Achievement on her original contributions to computational and applied mathematics. Persad has been recently recognized by Platts Global Energy Awards as one of the top 7 global leaders for Lifetime Achievement and as the International Power-Gen and Renewable Energy Woman of the Year.

Eileen Shea
Senior Climate Policy Advisor, CASE Consultants International

Eileen Lavonne Shea applies thirty-five years of combined government and private-sector expertise, which extends from local, national and international climate information services, to weather and climate risk management, sustainability, as well as environmental science and public policy. She played a central role in the development of the thirteen Federal-agency U.S. Global Change Research Program. Eileen was core to the NOAA Climate Service plans, focusing on service development, delivery, and the emergence of an effective regional climate products and services. More recently, she was Chief of Asheville NOAA office responsible for data access, integration and visualization, customer engagement, education and outreach; and international, national and regional climate services partnerships. Eileen specializes in understanding the vulnerability of businesses, communities and natural resources to changing climate conditions and providing climate information to address those issues. Ms. Shea continues to influence climate policy through the American Meteorological Society and CASE.

Scott Shuford, AICP
Education Program Manager and Professional Planner, CASE Consultants International

Scott Shuford is a Professional Certified Planner with over 35 years of professional experience in all phases of short- and long-range planning, climate change adaptation and mitigation, and facilitation of strategic development and redevelopment. His experience includes service in senior planning positions in North Carolina and Florida, as well as a private sector planning consultant. As a consultant, Mr. Shuford was retained by the University of North Carolina Asheville and NOAA's National Centers for Environmental Information to facilitate outreach to city planners regarding climate change. In that capacity, he co-authored a 2010 American Planning Association report titled Planning for a New Energy and Climate Future. He is also a co-author of the American Planning Association's Climate Change Policy Guide. Mr. Shuford is a member of the American Institute of Certified Planners and the Urban Land Institute. He is a former member of the Technical Advisory Committee of the Southeast Regional Climate Center.

Lauren Thie
Public Health Epidemiologist, Climate and Health with the NC Division of Public Health

Lauren Thie is an environmental program consultant for the North Carolina Department of Health and Human Services and serves as Principal Investigator for the Climate and Health Program cooperative agreement with the Centers for Disease Control and Prevention. Lauren is a 2009 graduate of the University of North Carolina at Chapel Hill's Gillings School of Global Public Health, and a 2003 graduate of Southwestern Randolph High School, where she ran cross country and played soccer at matches in the Sandhills region.