

**Invitation for Public Comment on the List of Candidates for the  
EPA Science Advisory Board Radiation Advisory Committee**

**July 12, 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 SAB Radiation Advisory Committee. The SAB Radiation Advisory Committee provides advice to the EPA Administrator, through the chartered SAB, on radiation protection, radiation science, and radiation risk assessment. For the Radiation Advisory Committee, the SAB Staff office sought nominations of experts within the disciplines of radiation biostatistics; radiation epidemiology; and radiation exposure.

The SAB Staff Office identified 5 candidates based on their expertise and willingness to serve. We hereby invite public comments on the attached List of Candidates for consideration by the SAB Staff Office. Comments should be submitted to Mr. Edward Hanlon, Designated Federal officer no later than August 2, 2016 at [hanlon.edward@epa.gov](mailto:hanlon.edward@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.

## Bernstein, Jonine

### Memorial Sloan-Kettering Cancer Center

Dr. Jonine Bernstein, is an Attending Epidemiologist in the Department of Epidemiology and Biostatistics and co-Leader of the Survivor, Outcomes and Risk Program at the Memorial Sloan-Kettering Cancer Center (MSKCC) in New York City. She holds a Ph.D. in Epidemiology from Yale University, an M.S. in Applied Biometry from the University of Southern California, and an A.B. from Brown University. Before joining the faculty at MSKCC, she was Deputy Director of the Division of Epidemiology at Mount Sinai School of Medicine. Dr. Bernstein's core research focus is on breast cancer and gliomas and on understanding cancer risk and progression in order to identify those at highest risk because of gene carrier status, environmental exposures, or a combination of both. She is the Principal Investigator (PI) of the National Cancer Institute (NCI)-funded international 24-center WECARE (for Women's Environmental Cancer Radiation and Epidemiologic) Study which was specifically designed to examine the interaction of radiation exposure and genetic predisposition in breast cancer, especially radiation-associated contralateral breast cancer (CBC) among 3700 women with CBC and unilateral breast cancer. In addition, Dr. Bernstein has been PI of several NCI-funded research projects. She currently serves as President of the American College of Epidemiology (ACE), as a Council and Board member of the National Council on Radiation Protection and Measurements (NCRP), As a Scientific Advisor to the Radiation Effects Research Foundation (RERF), and as a member of the NCI Board of Scientific Counselors- Clinical Sciences and Epidemiology (BSC). She is currently co-chair of the 2016 Conference on Radiation and Health, held in conjunction with the Radiation Research Society. In addition, Dr. Bernstein has served as a member of numerous grant reviews for the National Institutes of Health, the U.S. Department of Defense, and the Veterans Administration.

## Hoel, David G.

### Medical University of South Carolina

Dr. David G. Hoel is a Distinguished University Professor in the College of Medicine at the Medical University of South Carolina in Charleston. He received an A.B. in both mathematics and statistics from University of California at Berkeley, a Ph.D. in mathematical statistics from University of North Carolina in Chapel Hill and was a post-doctoral fellow in preventive medicine at Stanford University. Prior to joining the Medical University of South Carolina he was Division Director for Risk Assessment at National Institute of Health's (NIH) Institute National Institute of Environmental Health Sciences (NIEHS) in N.C. Dr. Hoel is a Fellow of the American Association for the Advancement of Science (AAAS), a member of the National Academy of Medicine and a National Associate of the National Academies. His awards include the Spiegleman Gold Medal in Public Health and the Ramazzini Award in Environmental and Occupational Health. He has served on about 30 National Academy committees and also numerous governmental committees including the Environmental Health Committee and Radiation Advisory Committee of EPA's Science Advisory Board. Specifically on radiation he was a member of the BEIR V committee of the National Academy of Sciences and the World Health Organization's International Agency for Research on Cancer (IARC)'s cancer monograph committee 100D on radiation and also he was a contributing member of the United Nation's UNSCEAR 2008 report on radiation health effects. Dr. Hoel's research has focused on risk assessment methods with particular interest in low-dose radiation exposures and cancer. This work has resulted in stays for several years in Hiroshima as a Director at the Radiation Effects Research Foundation (RERF) and currently is a RERF Scientific Counselor. Dr. Hoel does not currently have any research grants although previously he had grant support from both the Department of Energy and from the National Aeronautics and Space Administration (NASA).

**Maier, Edward F.**

**Dade Moeller & Associates and Harvard School of Public Health**

Dr. Edward F. Maier is a Senior Health Physicist and Associate with Dade Moeller & Associates. He is also an adjunct faculty member in the Environmental Health Department of the Harvard School of Public Health and subject matter expert in environmental health physics and dose reconstruction. Dr. Maier holds a B.S.E.E. from Lowell Technological Institute, M.S. in Biomedical Engineering from Worcester Polytechnic Institute and a Sc.D. in Radiation Protection and Health from the Harvard School of Public Health. Dr. Maier was certified for comprehensive practice by the American Board of Health Physics (ABHP) in June 1986, and has since recertified in 1990, 1994, 1998, 2002, 2006, 2010 and 2014. Dr. Maier has more than 40 years of experience conducting and managing radiological, safety, and environmental protection programs applicable to commercial clients and Federal agencies such as the U.S. Departments of Energy (DOE) and Defense (DOD). He is a retired U.S. Air Force (USAF) Colonel with extensive experience in managed and directed comprehensive environmental and occupational health services support to USAF installations worldwide. Specialty service areas included air and water quality; medical, environmental, and occupational health physics; hazardous waste and material management; and environmental noise research. Dr. Maier has published more than 35 peer-reviewed articles, two book chapters, and more than 50 published abstracts, presentations and guest speaking appearances. His current research efforts are radiological dose reconstruction methodologies for occupationally exposed member of the DOE weapons community. Dr. Maier's company (Dade Moeller & Associates) receives Federal funding from National Institute for Occupational Safety and Health (NIOSH) under the Energy Employees Occupational Illness and Compensation Program Act (EEOICPA) and he directs all dose reconstruction efforts under this program. His past research activities included radon mitigation and air treatment under a U.S. Environmental Protection Agency's grant to the Harvard School of Public Health. Dr. Maier's service to science includes contributions through a variety of activities including but not limited to: Past President of the national Health Physics Society; President of the American Academy of Health Physics; member of Scientific Committee 82 of the National Council of Radiation Protection and Measurements (NCRP); Past President of the New England Chapter of the Health Physics Society; Board Member of the ABHP and Board Chairperson in 2000. Dr. Maier served on the ABHP Panel of Examiners for the Part II Comprehensive Examination from 1989-1993 and was the Panel Chairperson in the 1992 exam year. He is a member of the Committee on Research Directions in Human Biological Effects of the National Academies.

**Richardson, David B.**

**University of North Carolina**

Dr. David B. Richardson is Associate Professor of Epidemiology in the School of Public Health at the University of North Carolina at Chapel Hill. His research focuses on the health effects of occupational and environmental exposures, particularly with regards to ionizing radiation. He has conducted studies of cancer among nuclear workers at several U.S. Department of Energy facilities, as well as studied cancer among the Japanese survivors of the atomic bombings of Hiroshima and Nagasaki. He has served as a visiting scientist at the World Health Organization's International Agency for Research on Cancer in Lyon, France and at the Radiation Effects Research Foundation in Hiroshima, Japan. Since 2007, he has served as Director of the National Institute of Occupational Safety and Health-funded training program in occupational epidemiology at the University of North Carolina-Chapel Hill. In addition, he is a core faculty member at the Injury Prevention Research Center at the University of North Carolina, and a member of the Exposure and Biomarkers Research Core at the University's Center for Environmental Health and Susceptibility. He is an Associate Editor of the journals Occupational and Environmental Medicine, American Journal of Epidemiology and Environmental Health Perspectives, is a member of the President's Advisory Board on Radiation and Worker Health, and recently served on the Institute of Medicine's Committee on Review of the Department of Labor's Site Exposure Matrix Database. Dr. Richardson's current research includes studies of mortality among workers in the nuclear industry and development of innovative methods for occupational cancer studies. These research activities are supported by grants from the National Institute for Occupational Safety and Health, and the National Cancer Institute. Dr. Richardson received a Ph.D. and M.S.P.H., both in epidemiology, from the University of North Carolina.

**Williams, Jacqueline**

**University of Rochester Medical Center**

Dr. Jacqueline Williams is a Professor of Radiation Oncology at the University of Rochester Medical Center and is a Fellow of the American Society for Radiation Oncology. She has served as a member of the Advisory Council for the National Space Biomedical Research Institute and as chair of the Scientific Advisory Committee for the Center for Acute Radiation Research, and is a council member on the National Council on Radiation Protection and Measurements. Dr. Williams is a member of the editorial boards of the International Journal for Radiation Biology and the Journal of Gastrointestinal Oncology and has served as President of the Radiation Research Society, as well as chair of the Scientific Council on the board of the American Society for Radiation Oncology. She received her B.Sc. in Zoology/Pharmacology at the University of Nottingham, and Ph.D. in Radiation Biology at the University of London, where her work focused on the risks of carcinogenesis from radiation particulates in the nuclear power industry. More recently, Dr. Williams's research has been in the area of radiation-induced normal tissue effects, where she is now nationally and internationally recognized for her work and teaching in this field. Specific areas of research include: mechanisms of initiation and progression of radiation-induced lung injury following high dose (therapeutic) and low dose irradiation; role of inflammatory pathways in radiation-induced brain disease, including cognitive dysfunction and exacerbation of Alzheimer's disease, as a risk of space irradiation; development of mitigating protocols following mass exposure to external and internal irradiation and/or contamination. Dr. Williams' research has been supported by grants from and contracts with government agencies and private companies, with core research support primarily from the federal government (National Institute for Allergy and Infectious Diseases [NIAID] and the Biomedical Advanced Research and Development Authority [BARDA]), with additional support from National Aeronautics and Space Administration and Apceth Corporation.