



Michael Madden, Ph.D.

Dr. Mike Madden is employed as a research biologist working at the U.S. Environmental Protection Agency (EPA) in Chapel Hill, NC. He examines biological responses and health effects in people exposed to ambient air pollution, including particulate matter, ozone, oxides of nitrogen, aldehydes, diesel engine exhaust, and biofuels combustion emissions. His work also involves validating markers of pollutant exposure, and identifying potentially sensitive and susceptible populations. His research strategies employ the use of an array of approaches from in vitro exposures of cells to controlled exposures with animal models, with additional controlled and field studies of exposed subjects. In 2003, he was awarded an EPA Gold Medal (the highest honor the Agency bestows on employees for environmental improvement and public service) as part of a team for their research on ambient airborne particulate matter toxicity. As a steward and officer in the local American Federation of Government Employees Union, he promotes the welfare of EPA bargaining unit employees. Additionally Mike holds adjunct faculty positions at the University of North Carolina-Chapel Hill (UNC) in the Curriculum in Toxicology and Environmental Medicine (School of Medicine) plus the Department of Environmental Sciences and Engineering (School of Public Health). He has mentored dozens of undergraduate, graduate, and medical students, and postdoctoral fellows in the early stages of their research careers. Mike served as an Associate Editor for *Inhalation Toxicology* 2004-2015, and is on the Editorial staff of the *Journal of Breath Research*. In addition to being elected as a Fellow of the Academy of Toxicological Sciences (approximately only 250 members worldwide), he is a member of Phi Beta Kappa.

While growing up in the Bronx, Mike earned a Bachelor of Science degree (1977) from Manhattan College, starting his research career examining killifish ecology in New York City marshes. At Manhattan, he was inducted into the Phi Beta Kappa and Sigma Xi societies. Examining the pharmacokinetics of polycyclic aromatic hydrocarbons in oil spills using oysters from the marshes of Savannah led to a Master of Science degree (1980) at the University of Georgia. [Although Mike personally admits that hearing about the Caribbean coral reef research being performed by (at that time) new UGA assistant professor (and future Sigma Xi President) Jim Porter sounded more glamorous and exotic.] Mike received a Ph.D. in toxicology from University of North Carolina-Chapel Hill in 1986. Switching his research emphasis from water to air pollution, he examined alterations in lung lipid metabolism with ozone exposure for his doctoral research. Mike was a postdoctoral fellow and research associate at UNC until 1995 when he joined the EPA. He has written over 100 articles, book chapters, and reports. While a student at UNC, he started participating in both the National and Regional Society of Toxicology meetings, and became a Councilor for the Inhalation and Respiratory Specialty Section from 2003-2005, and President of the Occupational and Public Health Specialty Section 2011-2012. He has been President of the UNC-Chapel Hill Chapter of Sigma Xi, 2013-2016, and is the current Vice President. Mike has served the National Sigma Xi organization as a 3 year member of the Nominating Committee, including chairman in 2017-2018, and a member of the 2019 Annual Meeting Organizing Committee.

Mike is active in his local community. He has coached for Orange County (NC) Special Olympics year round (swimming, soccer, basketball, softball, cycling, track and field) for the past 21 years and was the County Coach of the year in 2004. (<http://www.sooc.org/>). Mike has served as a Board Director of the Arc of the Triangle (which advocates for individuals with intellectual and developmental disabilities) (<http://www.arctriangle.org/>) for 9 years, including President for 2 years. He has help raise funds for Club Nova (<https://clubnova.org/>), an organization serving people with serious mental health issues. One frequently overlooked honor bestowed upon Dr Madden is membership in the Luxuriant Flowing Hair Club for Scientists (<https://www.improbable.com/hair/>) along with Albert Einstein, Isaac Newton, and Brian May. (Disclaimer: These comments do not reflex the views or policies of the US Environmental Protection Agency.)