



T.A. (Andy) ROWLAND III, CET, REPA, CRMI

Senior Environmental Consultant

Director of Environmental Health Training

Mr. Rowland is known throughout the region for his exhaustive body of work in the fields of Industrial Hygiene, Environmental Health, Safety, and Education. He earned a Bachelor of Science degree in Mechanical Engineering Technology at Clemson University, and he has over thirty years of laboratory, field, and classroom experience. Mr. Rowland has lectured for such esteemed institutions as the University of North Carolina at Chapel Hill, North Carolina State University, the Georgia Institute of Technology, the University of South Carolina, North Carolina A&T University, and the Medical University of South Carolina (MUSC). Mr. Rowland served as Director of MUSC's Program in Environmental Health Sciences for over twelve years, where his research and work were funded by the U.S. Environmental Protection Agency, the U.S. Department of Energy, the Department of Education, and industrial entities such as Duke Energy and BP Amoco.

Asbestos – Mr. Rowland is known nationally as a preeminent Asbestos Subject Matter Expert. He began his work within the field of asbestos when the United States Navy released its “Controlled Procedure for the Removal of Asbestos Containing Materials” document, known then as the “02080 Asbestos Spec”, at Pier Lima at the Charleston Naval Shipyard in 1978. Since that day, Mr. Rowland has inspected hundreds of buildings for ACM, worked on hundreds of asbestos abatement projects, developed hundreds of Asbestos O&M and Management Plans, developed hundreds of Asbestos Project Designs, authored countless asbestos textbooks, and taught asbestos courses to tens of thousands of students all across North America. He is not only a master of asbestos regulations, but he is used by many regulatory agencies as a resource regarding the interpretation of those same regulations. In addition, Mr. Rowland has been used as a valued resource as the 02080 specification has evolved over the years into the modern 13281 in use today. Mr. Rowland's work within the field of asbestos has taken him from the Carolinas to California and from Texas to British Columbia. Today he divides his asbestos work into three general areas: 1) Teaching EPA and OSHA asbestos courses, 2) Taking on unique and challenging asbestos projects as designer and manager, and 3) Providing expert witness services and testimony.

Lead (Pb) – Mr. Rowland began his work in the field of lead-based paint (LBP) management in 1989, overseeing the removal of LBP from a series of buildings and communication towers located at the Marine Corps Air Station in Beaufort, South Carolina. He has also tackled LBP projects within historically significant federal buildings such as the Customs House in Charleston, South Carolina. After completing dozens of LBP projects throughout the region, Mr. Rowland began to teach all of the EPA Lead courses at the Medical University of South Carolina in 1995. When EPA released its regulation pertaining to LBP activities in Target Housing and Child Occupied facilities, Mr. Rowland was retained (pro bono) to edit the 13283 spec so that it correctly encompassed the requirements brought about by the new regulation. Mr. Rowland is the only individual within EPA Region IV fully qualified to teach the EPA Lead Project Designer course. Mr. Rowland possesses exhaustive experience within each of the lead disciplines and is uniquely qualified to tackle a broad spectrum of lead (Pb) projects.

IAQ/Mold – Mr. Rowland began his work within the field of Indoor Air Quality while serving as Director of MUSC’s Program in Environmental Health Sciences. He developed the curricula and textbooks for all of the university’s IAQ courses and served as primary instructor for every course. Mr. Rowland also teaches the only Mold Project Designer course in the region. He has been involved in countless Mold/IAQ projects and now frequently provides expert witness services and testimony. Mr. Rowland has been involved in the development of the Navy Mold spec since its inception and participated in a series of meeting with NavFac SoDiv personnel including the “Mold Summit” in February of 2006. Mr. Rowland possesses a unique understanding of IAQ issues stemming from his mastery of construction, mechanical engineering, building physics, thermodynamics, aerobiology, and practical remediation methods.

Education

- Bachelor of Science in Mechanical Engineering Technology, Clemson University, Clemson, South Carolina, 1985.

Textbooks Authored

- Microbial Remediation: Design and Abatement, Medical University of South Carolina Press, 2004
- EPA Lead Project Designer Text, Medical University of South Carolina Press, 2004
- IAQ: Mold Remediation Project Designer Text, Medical University of South Carolina Press, 2005
- AHERA Asbestos Inspector Refresher Text, ABS Press, Charleston, South Carolina, 2006
- AHERA Asbestos Management Planner Refresher Text, ABS Press, Charleston, South Carolina, 2006
- AHERA Asbestos Supervisor Refresher Text, ABS Press, Charleston, South Carolina, 2006
- AHERA Asbestos Worker Refresher Text, ABS Press, Charleston, South Carolina, 2006
- An Introduction to IAQ for Facility Managers, ABS Press, Charleston, South Carolina, 2006

Lectures and Presentations

- “EPA Lead RRP Update”, American Architectural Manufacturers Association Spring Meeting, Charlotte, North

- Carolina, May 4, 2011.
- “AHERA Compliance Update”, Catholic Schools Conference, Columbia, South Carolina, April 12, 2011.
- “Notice of Violation to Criminal Investigation: Regulatory Compliance Audits and the Transition from Regulatory To Criminal Liability”, Environmental Information Association Carolinas Annual Conference, Myrtle Beach, South Carolina, October 7, 2010.
- “Asbestos Analytics: CARB Method 435”, Veterans Administration Annual Industrial Hygiene Conference, Augusta, Georgia, May 6, 2009.
- “Fungi Analytics: Polymerase Chain Reaction”, Veterans Administration Annual Industrial Hygiene Conference, Augusta, Georgia, May 6, 2009.
- “Asbestos and Friability – Is It Time for a Quantitative Test?”, Veterans Administration Annual Industrial Hygiene Conference, Augusta, Georgia, May 7, 2008.
- “Remediating Particulate Contaminants – Breaking All the Old Rules with a Brave New Approach”, Veterans Administration Annual Industrial Hygiene Conference, Augusta, Georgia, May 7, 2008.
- “Asbestos and Asbestos Regulations”, Environmental Compliance Auditing,

North Carolina State University,
December 4, 2007

- “HazMat DOT: Shipping Infectious Substances”, Veterans Administration Medical Center, Columbia, South Carolina, December 12, 2007.
- “Building Physics: Understanding Moisture and Mold”, Industrial Hygiene Annual Conference: Veterans Administration Medical Centers, Augusta, Georgia, March 14, 2007
- “Mold, Chicken Little, and the Very Angry Snowbirds”, SC Environmental Information Association Conference, Charleston, South Carolina, May 18, 2006
- “Moisture, Mold, and Weatherization”, United States Department of Energy, Nashville, Tennessee, March 1 – 2, 2006
- “Asbestos-containing Materials: Analytical Methodologies”, Environmental Protection Agency: Southeastern Consortium Annual Conference, with James R. Tucker, Ph.D., Charleston, South Carolina, 2004
- “AHERA Compliance in Our Schools”, South Carolina Principals Conference, Columbia, South Carolina, March 9, 2005
- “AHERA Compliance and Your Schools”, South Carolina Catholic Schools Conference, Charleston, South Carolina, April 21, 2005
- “AHERA Compliance and Your Schools”, South Carolina School Facilities Managers Conference, Columbia, South Carolina, May 23, 2005
- “AHERA Compliance in Our Schools”, South Carolina Principals Conference, Columbia, South Carolina, January 21, 2004
- “Asbestos Liability Issues”, North Carolina Environmental Professionals Meeting, University of North Carolina – Chapel Hill, Chapel Hill, North Carolina, December 2, 2003
- “Indoor Air Quality: Industry Status Report”, United States Postal Service –

National Conference of Industrial Hygiene Professionals, Charleston, South Carolina, May 21, 2003

- “Indoor Air Quality for Facility Managers”, South Carolina Facility Managers Meeting, North Charleston, South Carolina, March 11, 2003
- “An Introduction to Mold and IAQ”, State Facilities Managers Conference, Medical University of South Carolina, Charleston, South Carolina, April 24, 2003, (with Co-Presenter Lisa Steed, Ph.D.)
- “Indoor Air Quality and MUSC’s PEHS”, Indoor Air Quality Association Board of Directors Meeting, Tampa, Florida, March 21, 2003
- “Environmental Health Issues: An Introduction to PEHS”, North Charleston Rotary Club Meeting, North Charleston, South Carolina, January 6, 2003
- “Lead (Pb) Regulations: An Update”, Georgia Institute of Technology, Delivered via satellite to South Carolina Educational Television, Columbia, South Carolina, December 19, 2002

Registrations

- Certified Engineering Technologist: National Institute for Certification in Engineering Technologies, Number 000602, Since 1985
- Licensed/Accredited AHERA Asbestos Inspector and Management Planner: South Carolina Department of Environmental Health and Environmental Control, License Number 1292, Since 1988
- Licensed/Accredited AHERA Asbestos Project Designer: South Carolina Department of Environmental Health and Environmental Control and North Carolina Health Hazards Control Unit
- Registered Environmental Property Assessor: National Registry of Environmental Professionals, Registration Number 5687, Since 1994
- Certified Residential Mold Inspector: Indoor Environmental Standards Organization, Since 2004

Professional Organizations

- *National Registry of Environmental Professionals, registered since 1994*
- *National Institute for Certification in Engineering Technologies, certified since 1985*
- *Environmental Information Association, One of four founding members of South Carolina Chapter, Served as Vice President, President Elect, and President*
- *Indoor Air Quality Association, member since 2002*
- *Indoor Environmental Standards Organization, member of Advisory Board and IESO Standards Sub-Committee*

Previous Experience

- Applied Building Sciences, Inc., Senior Environmental Consultant and Director of Environmental Health Training, February 2006 to Present.
- Medical University of South Carolina, Member of Faculty and Program Director for Environmental Health Sciences, June 1994 – January 2006
- Medical University of South Carolina, Faculty Instructor (Department of Environmental Health Sciences), September 1994 – June 1994
- EnviroSpec, Inc., Environmental Engineering Consultant, April 1989 – August 1994
- Industrial Insulation Company, Inc., Director of Operations and Plant Engineer, February 1987 – March 1989
- PepsiCo – Frito Lay, Associate Engineer, June 1985 - 1986

Post Graduate Courses and Seminars

- “Inspecting for ACM in Buildings (AHERA)”, State of South Carolina Budget and Control Board, March 30, 1988 and all subsequent annual refreshers.
- “Management Planning for ACM in Buildings (AHERA)”, State of South Carolina Budget and Control Board, April 1, 1988 and all subsequent annual refreshers.
- “Supervision of Asbestos Abatement Projects (AHERA)”, Medical University of South

Carolina, October 24, 1994 and all subsequent annual refreshers.

- “Sampling and Evaluating Asbestos (NIOSH 582), Medical University of South Carolina, May 26, 1995.
- “Designing Asbestos Response Actions”, Georgia Institute of Technology, November 22, 1996
- “Critical Asbestos Issues: Clearing the Air”, The Environmental Institute, June 27, 1989
- “Comprehensive Review of Industrial Hygiene Professionals”, University of Cincinnati, March 8, 1993
- “The Role of Environmental Audits and Site Assessments in Property Transfers”, Georgia Institute of Technology, August 15, 1994
- “Lead-based Paint Inspection Course”, Medical University of South Carolina, April 16, 1997 (repeated course on January 20, 1999)
- “Lead-based Paint Risk Assessment Course”, Medical University of South Carolina, April 18, 1997 (repeated course on January 22, 1999)
- Niton Manufacturer’s Training Course (Spectrum Analyzer), Medical University of South Carolina, October 13, 1997
- “Indoor Air Quality: Asthma and Allergen Control” University of Tulsa: Center for Environmental Research and Technology, November 30, 2000
- “Moisture: The Fix” University of Tulsa: Center for Environmental Research and Technology, November 30, 2000
- “Certified Residential Mold Inspector Course”, Aerotech Laboratories, Inc., Phoenix, Arizona, April 5 – 6, 2004

Principal Areas of Practice

- General Industrial Hygiene
- Subject Matter Expert – Asbestos, IAQ/Mold, Lead (Pb)
- Expert Witness Services/Testimony – Asbestos, IAQ/Mold, Lead (Pb)
- Environmental Health Training
- Regulatory Compliance/Policy Conformance
- Audit and QA/QC Consulting