

CURRICULUM VITAE – ROBERT A. WEST

NAME: Robert A. West, CHMM, REM, CEM, CEI, CMI, CMS, CEC, CIPS, CAQS

PRESENT TITLE: President, R.A. West Associates, Inc.

HOME ADDRESS: 1663 Wrightstown Road, Newtown, PA 18940

OFFICE ADDRESS: 2865 South Eagle Road, Suite 359, Newtown, PA 18940

CITIZENSHIP: USA

DATE OF BIRTH: January 9, 1954

PLACE OF BIRTH: Celina, Ohio

MARITAL STATUS: Married: Maureen 1975
Children: Emily 1987

EDUCATION: 1972 - 1977 BS in Chemistry - University of Cincinnati

OTHER COURSE WORK COMPLETED

1978 - 1979 MS in Analytical Chemistry - Rutgers University
(19 credits)

1985 University of Toledo - Industrial Wastewater Pretreatment

PROFESSIONAL POSITIONS

2002 to present Fellow of the Institute of Hazardous Materials Management

REGISTRATIONS AND CERTIFICATIONS

1. Certified Hazardous Materials Manager - Masters Level # 3757
2. Certified Environmental Inspector, Certified Environmental Manager, Certified Mold Inspector, Certified Mold Specialist, Certified Environmental Consultant # 9085
3. Registered Environmental Manager #5613
4. OSHA 1910.120 HAZWOPER (40 hour course)
5. Certified Infrastructure Preparedness Specialist # 01695
6. Incident Command System, ICS 00100 Certified by FEMA
7. National Incident Management System, NIMS 00700 Certified by FEMA

SPECIALTY LICENSES

1. AHERA Certified Asbestos Inspector - PA license # 011421 - 2000
2. City of Philadelphia Asbestos Investigator License # 3632-000125 - 2000
3. New York State Asbestos Inspector # AH 97-17051 - 2000
4. New Jersey DEP UST - Closure and Subsurface Evaluator - License # 0021619 - Reg. # 0021619 - 2000

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

1. American Society of Testing and Materials (ASTM) – Member # 000121105
2. National Association of Environmental Professionals (NAEP) - General Member # 02393
3. National Association of Hazardous Waste Generators - Associate Member
4. Hazardous Materials Control Resources Institute (HMCRI) - Member # 020388
5. Environmental Assessment Association (EAA) - Member # 9085
6. International Union of Pure and Applied Chemists (IUPAC) - Member
7. American Chemical Society (ACS) - General Member # 0568592G
8. American Society of Safety Engineers – Member # 45806
9. Institute of Hazardous Materials Managers – Member # 03757
10. Water Environment Federation – Member # 1686502
11. International Code Council – Member # 5140102
12. National Fire Protection Association – Member # 960139

PROFESSIONAL COMMITTEES

- 1993 - 1994 IHMM - NJ - Professional Development Committee
1994 - 1997 IHMM - NJ - Programs Committee
1997 -1998 ACHMM - NJ President Elect
1998 – 1999 ACHMM – NJ President
1994 - 1998 ASTM - E51 - Standardization of Environmental Claims Handling - Co-Vice Chairman
1998 – present ASTM – E50 – Environmental Assessment
2003 – present ASTM – E 47 - Biological Effects and Environmental Fate
2000 - 2003 ACHMM – Chapter Development Committee – Chairman
2003 - 2007 ACHMM – Chapter Development Committee – Member
2008 - present ACHMM – Chapter Development Committee – Chairman & Member

AWARDS, HONORS, AND LETTERS OF APPRECIATION/COMMENDATION

- 1985 American Electroplaters Society - Certificate of Appreciation, April 16, 1985
1988 The Purchasing Management Association of Maryland - Letter of Gratitude, April 5, 1988
1993 Who's Who Worldwide - Letter of Nomination, September 7, 1993

- 1988 University of Toledo - Letter of Appreciation, March 2, 1988
- 1990 EPICS International and Specialty Technical Publishers - Letter of Commendation, February 1, 1990
- 1993 Property Claim Services - Letter of Appreciation, October 19, 1993
- 1994 Property Claims Services - Letter of Appreciation, February 18, 1994
- 2001 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2002 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2003 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2005 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2006 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2007 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2008 Champion of Excellence – Academy of Certified Hazardous Materials Managers
- 2009 Champion of Excellence – Academy of Certified Hazardous Materials Managers

TEACHING RESPONSIBILITIES

- 1988 "Developing Environmental Regulations", University of Toledo sponsored Industrial Wastewater Pretreatment Seminar, San Juan, Puerto Rico

PUBLICATIONS

Abstracts

West RA; RCRA/Superfund Procedures, A Generator's and TSD Operator's Guide to Environmental Cleanup. University of Toledo Industrial Wastewater Pretreatment Seminar, February 10, 1988. San Juan, Puerto Rico.

LECTURES BY INVITATION

- 1985 "Secure Landfill Construction", American Electroplaters Society, Philadelphia Chapter, Philadelphia, PA, April 16, 1985
- 1988 "Rotary Kiln Incineration Technology for Hazardous Waste", Innovative Technologies Seminar sponsored by Hazardous Waste Treatment Council for EPA upper level personnel, Washington, D.C., Spring of 1988
- 1988 "Mobile Rotary Kiln Incineration Technology for Hazardous Waste", Hazardous Waste Treatment Council sponsored RCRA/SARA Conference, October 26-27, 1988
- 1989 "Waste Stabilization and Vapor Extraction Technologies", EPA ARCS Contractors Roadshow - EPA Regions 1 and 2, March 28 through 31, 1989
- 1990 "Managing Effective Compliance: Challenges for Industry and Government", Toxics Compliance in Texas sponsored by EPICS International and Specialty Technical Publishers, Austin, TX, January 11, 1990

- 1990 "Selling Your Hazardous Waste Services", Hazardous Waste Business '90 sponsored by World Information Systems, Boston, MA, March 26, 1990
- 1992 "Innovative Technology Development", sponsored by Institute of Hazardous Materials Management at Rutgers, The State University, New Brunswick, NJ, August 25, 1992
- 1993 "First Party Pollution Losses; Getting the Job Done", sponsored by Property Claim Services, Cherry Hill, NJ, October 8, 1993
- 1993 "How and When to Hire an Environmental Consultant", seminar for The Aetna Casualty and Surety Company, Atlantic City, NJ, December 6, 1993
- 1994 "First Party Pollution Losses; Getting the Job Done", sponsored by Property Claim Services, Framingham, MA, February 16, 1994
- 1995 Underground Storage Tank Regulations in Pennsylvania@, Prudential Insurance Co., Horsham, PA, March 2, 1995
- 1995 Environmental Loss Seminar - General Adjuster Property Training Seminar@, The Aetna Casualty and Surety Co., Lisle, IL, August 18, 1995
- 1995 Environmental Loss Seminar - General Adjuster Property Training Seminar@, The Aetna Casualty Surety Co., Dallas, TX, September 15, 1995
- 1995 Underground Storage Tank Regulations in Pennsylvania@, The Maryland Insurance Group, Timonium, MD, October 18, 1995
- 2004 "H & S Update – an Insurance Perspective", ACHMM National Conference, The Riviera Hotel and Casino, Las Vegas, NV, August 1, 2004
- 2007 "Risk Assessment, Contingency Planning and Resilience", CHMM-MI Conference, The Yazaki-North America Learning Center, Canton, MI, March 1, 2007
- 2008 "Contamination Issues and Property Claims", AIHA, ASSE, and ACHMM-NJ 2008 Fall Professional Development Conference, Middlesex Fire Academy, Sayreville, NJ, October 30, 2008

EXPERT'S BACKGROUND AND QUALIFICATIONS

Mr. West has over twenty-five (25) years experience managing, operating, and developing engineering, consulting, and cleanup contracting businesses for several national and international corporations. Since 1990, Mr. West has been President of R.A. West Associates, Inc., an engineering and consulting services firm focused on the assessment, design, and management of property related environmental issues. During the last twelve years, Mr. West has provided consulting services to industry, government, institutions, insurers, and attorneys.

Mr. West has also estimated, written, budgeted, reviewed, presented and managed projects in the environmental services field. These include site assessments, remedial investigations, feasibility and treatability studies, remedial design, remedial action and

closure phases of various projects. A representative cross-section of clients for whom Mr. West has performed services would include Fortune 100 industrial and commercial companies; PRP groups; and federal, state, and local agencies. Many of Mr. West's projects have required qualification submissions/presentations and a variety of studies and post project reports which he has authored.

Mr. West has also interfaced with federal, state, and local agencies and their environmental programs including the Army Corps of Engineers. He has demonstrated the compliance and effectiveness of companies and technologies to private clients, PRP groups, and associations including the Hazard Waste Treatment Council, American Electroplater's Society, and Institute of Hazardous Material Management of New Jersey. Mr. West has spoken nationally to regulators, peer groups, and clients regarding regulations, markets, and specific technologies and their applications. He is also a member of many trade organizations.

Mr. West has developed a broad understanding of and a strong working knowledge in the environmental regulations in 29, 40 and 49 CFR and many regional and state jurisdictions through twenty-five years of experience in their application. Mr. West has lectured on various sections of these regulations in various seminars in the United States and Puerto Rico.

Mr. West and his firm R.A. West Associates, Inc. conducted, managed, or oversaw the assessment and/or cleaning/remediation of more than 30 properties affected by the collapse of the World Trade Center building on September 11, 2001. He has investigated, scoped, monitored the remediation of and performed cleanliness verification sampling for water damaged commercial, industrial, institutional, and office buildings along the Red, Iowa, Ohio and Mississippi Rivers and along the east coast from Florida to New York. He has been employed as a consultant and/or expert in such matters to both property owners as well as insurers.