



REDMOND, WA • HILTON HEAD, SC • CAPE ELIZABETH, ME

Michael W. Krause, MSPH, CIH, ROH

Education

B.A., Zoology, University of Washington, 1977

M.S., Public Health (Industrial Hygiene and Safety), University of Washington, 1983

Experience

2002-present	Veritox, Inc.® <i>Senior Industrial Hygiene Consultant</i>	Redmond, Washington
1995-2001	Clayton Group Services (sold to Bureau Veritas) <i>Vice President</i>	Seattle, Washington
1986-1995	HAZCON (sold to Clayton) <i>President, Owner</i>	Seattle, Washington
1984-1986	James Groves (3rd Party Administrator) <i>Manager, Health Hazard Management Division</i>	Everett, Washington
1980-1984	SAIF (State Accident Insurance Fund) <i>Industrial Hygiene Consultant</i>	Portland, Oregon
1978-1980	Boeing <i>Industrial Hygiene Engineer</i>	Seattle, Washington
1977-1978	OSHA, Region 10 <i>Assistant to Regional Industrial Hygienist</i>	Seattle, Washington

Professional Affiliations

American Academy of Industrial Hygiene, Diplomate, to present

American Board of Industrial Hygiene, certified in comprehensive practice, to date

American Industrial Hygiene Association (AIHA), Full Member, to present

National activities:

Nanotechnology Working Group, inception to present

Green Building Working Group, 2012 to 2014

Noise Committee, 2004 to present

ConsultSIG, 2002 to 2005

Employee Education and Training Committee, 1986 to 1989

Pacific Northwest Section (PNS-AIHA) offices:

President, 1990 to 1991

Treasurer, 1989 to 1990

Distinguished Industrial Hygienist award, 1998

Director, 1998 to 2000



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American Conference of Governmental Industrial Hygienists (ACGIH), Voting Member, to present

Canadian Registration Board of Occupational Hygienists (CRBOH), registered to date

National Hearing Conservation Association (NHCA), member, 2004 to 2007

National Safety Council, member, 1998 to 1999

ASHRAE, associate member, 1989

Institute of Hazardous Materials Management, member, 1988 to 2001

Professional Certifications

Certified Industrial Hygienist, American Board of Industrial Hygiene, #2394, through 2021

Registered Occupational Hygienist (Canada), #417, through 2017

Certified Hazardous Materials Manager, Master Level (CHMM), #1555, 1988 to 2001

Vocational Technical Teaching Certificate, Seattle Community College District, 1978 to 1979

Certified Audiometric Technician, Oregon, #1359, 1982 to 1985

Specialized Training / Accreditation

EPA/Washington State approved Worker, Supervisor, Inspector/Management Planner course director and instructor, 1985-2000

EPA/Washington State Asbestos Contractor/Supervisor, 1987

EPA AHERA Asbestos Building Inspector/Management Planner, 1988

NIOSH 582-equivalent asbestos analyst, 1987

National Asbestos Council (NAC), Asbestos Worker Field Instructor, 1986

EPA HAZWOPER course director and instructor, 1987-1992

EPA HAZWOPER Supervisor, 1987

OSHA General Industry Outreach Trainer, 2001 to 2005

EPA/HUD lead paint maintenance 8-hour course, 2001

Publications

Chan, C.Y., M. Krause, B. Kelman, and N. Moore. 2016. Risk from Breaches In Portable, Consumer-Sized Lithium Batteries. *The Toxicologist* 150(1):2671.

Robbins, CA, Krause, MW, Geer, W.T., Attalah, RH, Plisko, MJ. December 2012. "Comparison of Exposure Measurements to Near Field-Far Field Modeled Results for Benzene and Base Solvents During a Cleaning Process Using Plain or 0.1% Spiked Toluene and Xylene." *Journal of Chemical Health and Safety*.

Krause, MW, Robbins, CA, Geer, WT, Swenson, LJ, Fallah, P. August 2006. "Controlled Study of Mold Growth and Cleaning Procedures on Treated and Untreated Wallboard in an Indoor Environment." *Journal of Occupational and Environmental Health*.



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Krause, MW, Westneat, D. September 1991. "Possible Link to Cancer Fuels Debate Regarding Effects of Magnetic Fields." Occupational Health and Safety.

Presentations

Invited Speaker: IAQA/ASHRAE local section roundtable discussing the IICRC S500 standard on water damage restoration. April 2016. Seattle, WA.

Invited Speaker: Oregon Governors Occupational Safety and Health conference (GOSH). Size-Selective Sampling for Particulates, March 2015. Portland, OR.

Speaker: Pacific Northwest Section AIHA Occupational Health Conference. *Impact of Attic Mold on Occupied Spaces*. October 2011. Tri-Cities, Washington.

Session Arranger and Speaker: American Industrial Hygiene Association national conference roundtable. *Ototoxicity-Hearing Loss from Chemicals and Noise*. June 2008. Minneapolis, Minnesota.

Invited Speaker: Defense expert witness in asbestos mock trial. Harris Martin Asbestos Litigation Conference. *Trial of a Mesothelioma Case from Jury Selection to Verdict*. June 2008. Chicago, Illinois.

Speaker: Pacific Northwest Section AIHA Occupational Health Conference. *Benzene Exposures from Toluene and Xylene Solvent Cleaning*. October 2007. Seaside Oregon.

Speaker: American Industrial Hygiene Association Conference Nanotechnology Roundtable. *Introduction to Nanotechnology*. June 2007. Philadelphia, Pennsylvania.

Speaker: ASTM Mold Conference. *Evidence-Based Mold Cleanup*. July 2006. Boulder, Colorado.

Speaker: Puget Sound Area Safety Summit. *Noise in Construction*. April 2006. Seattle, Washington.

Invited Speaker: Construction Solutions Conference. *New Health Information and Assessment and Remediation Guidelines for Mold*. November 2005. Vancouver, BC, Canada.

Invited Speaker: Seattle Building Enclosure Council (SEABEC) meeting. *Mold Update*. September 2005. Seattle, Washington.

Invited Speaker: ORGOSH (Oregon Governors Safety and Health Conference). *Spray Painting Hazards*. March 2005. Portland, Oregon.

Invited Speaker: Coldwell Banker Northwest Regional Education Conference. *Mold in Homes*. May 2002. SeaTac, Washington.



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Invited Speaker: American College of Occupational and Environmental Medicine State of the Art Conference (SOTAC 2001). *Aerospace Hazards-Painting with Chromates and Isocyanates*. October 2001. Seattle, Washington.

Krause, M.W. October 2001. *Aerospace Painting Issues-Chromates and Isocyanates*. Session arranger and speaker, National Safety Council Congress. Atlanta, Georgia.

Krause, M.W. April 2001. *Online EHS Training Anytime, Anywhere*. AIHA Pacific Northwest Section Spring Symposium. Lacey, Washington.

Krause, M.W. May 2000. *Painting Issues in the Aerospace Industry*. Session arranger and moderator for an AIHA national conference roundtable. Orlando, Florida.

Krause, M.W. October 1999. *New Noise Recommendations from NIOSH*. Paper presented at the NSC Air Transport Section (ARTEX) fall seminar. Milwaukee, Wisconsin.

Invited Speaker: *Air Sampling In IAQ Investigations*. July 1998. Presented at Washington State Healthcare Safety Council Seminar. Bellevue, Washington.

Krause, M.W. April 1994. *The Industrial Hygienist's Role in Health and Safety Management*. Presented at the American Electronics Association/National Human Resource Managers Association Breakfast Seminar. Bellevue, Washington.

Gilbert-Jones, I., Dharmarajan, V., Lingg, R.D., LeRoux, D., and Krause, M.W. May 1993. *A Comparison of Three 1,6-Hexamethylene Diisocyanate (HDI) Sampling Methods in Spray Painting*. AIHA Conference. New Orleans, Louisiana.

Krause, M.W. April 1987. *Hazard Assessment*. Building Owners and Managers Association (BOMA) Asbestos Management Seminar. Seattle, Washington.

Krause, M.W. May 1985. *Health and Safety Activities in Japan*. American Industrial Hygiene Association-Pacific Northwest Section Dinner Meeting. Portland, OR.

Krause, M.W. March 1983. *Nitrous Oxide: Dental & Operating Room Hazards*. Oregon Occupational Safety and Health Conference. Portland, OR.

Selected Continuing Education

Applying a Hierarchy of Occupational Exposure Limits. June 1, 2014. AIHA Professional Development Course (8 hours)

REACH: A Risk Management Strategy. May 19, 2013. AIHA Professional Development Course (8 hours)



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Asbestos Health Risk Assessment: Modeling, Characterization, and Communication. May 18, 2013 (8 Hours)

Registry Preparation: MSDS and Label Authoring. June 16, 2012. AIHA Professional Development Course (8 hours).

Particle Size Selective Aerosol Sampling: Respirable, Thoracic, Inhalable. June 16, 2012. AIHA Professional Development Course (4 hours).

Taking the LEED: Putting the Human Elements Back into Green Building. May 14, 2011. AIHA Professional Development Course (8 hours).

Setting OELs for Hydrocarbon Solvents: The Value and Use of RCP and GGVs. May 15, 2011. AIHA Professional Development Course (8 hours).

Practical Approaches to Dermal Exposure Assessment in the Workplace. May 23, 2010. AIHA Professional Development Course (8 hours).

Advancements in Air Sampling. October 27, 2009. SKC-West Seminar (8 hours).

Professional Ethics, Doing What is Right in the Practice of Industrial Hygiene. September 23, 2009. AIHA Teleweb Course and Exam (2.5 hours).

REACH, An Introduction. May 31, 2009. AIHA Professional Development Course (4 hours).

Exposure Assessment Using Whole Air Sampling Methods. May 31, 2009. AIHA Professional Development Course (4 hours).

Occupational Noise Exposure Measurement. March 3, 2009. Quest Technologies Seminar (8 hours).

IICRC S520 Mold Standards. February 12, 2009. Seattle Indoor Air Quality Association Seminar (8 hours).

Nanotechnology, The Science, The Safety, and The Law. June 3, 2007. AIHA Professional Development Course (8 hours).

Hearing Protection Devices and Hearing Conservation Programs. June 22, 2006. E-A-R/Peltor Short Course (6 hours).

The FUN of Aerosols: Fine, Ultrafine, and Nanoparticles in Workplace Atmospheres. May 14, 2006. AIHA Professional Development Course (8 hours).

Noise Control Engineering. May 22, 2005. AIHA Professional Development Course (8 hours).



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Controversies of Medical/Legal Evaluations. February 24, 2005. National Hearing Conservation Association (NHCA) Hearing Conservation Conference (3 hours).

Establishing, Interpreting, and Applying Occupational Exposure Limits. May 9, 2004. AIHA Professional Development Course (8 hours).

Hearing Loss Prevention: The Basics. February 19, 2004. National Hearing Conservation Association (NHCA) Hearing Conservation Conference (8 hours).

Reconstructing Exposure and Dose. May 10, 2003. AIHA Professional Development Course (8 hours).

Mold: Health, Science, and Law. May 11, 2003. AIHA Professional Development Course (8 hours).

Recent Advances in Screening Strategies for Occupational Lung Disease. October 31, 2001. American College of Occupational and Environmental Medicine State of the Art Conference (3 hours).

Occupational & Environmental Medicine: New Developments for Primary Care Clinicians. April 6, 2001. University of Washington, Northwest Center for Occupational Health & Safety Continuing Education Course (7.9 hours).

Comprehensive Solutions to Contemporary Toxicology Issues. July 27-31, 1997. AIHA 12th Annual Toxicology Symposium (31 hours).

Quality in Industrial Hygiene, Safety, and Occupational Health. October 16, 1996. Northwest Occupational Health Conference (8 hours).

Complex Chemical Exposures: Soft Data, Hard Issues. October 11, 1995. Northwest Occupational Health Conference (8 hours).

Competing Influences in Developing Occupational Health Policy. October 12, 1994. Northwest Occupational Health Conference (8 hours).

What Every Industrial Hygienist Needs to Know about Occupational Safety. May 21, 1994. AIHA Professional Development Course (8 hours).

A Strategy for Occupational Exposure Assessment. May 31, 1992. AIHA Professional Development Course (8 hours).

Respirator Protection Factors. May 19, 1991. AIHA Professional Development Course (4 hours).

Environmental Law. May 19, 1991. AIHA Professional Development Course (4 hours).



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The Application of Asbestos-Proven Methodologies to Lead-Based Paint Abatement. February 18, 1991. National Asbestos Council Professional Development Seminar (8 hours).

Removing Lead Paint from Industrial Structures. January 15-16, 1992. Steel Structures Painting Council (8 hours).

Risk Assessment and Risk Communication. October 10, 1990. Northwest Occupational Health Conference Short Course (8 hours).

3rd Annual Operations & Maintenance Planning Conference: Controlling Exposure to Asbestos. May 8, 1987. Hall-Kimbrell (7 hours).

Legal Aspects of Occupational Health. October 15, 1986. University of Washington Northwest Center for Occupational Health and Safety (6.5 hours).

Train-the Trainer. May, 1986. AIHA Professional Development Course (8 hours).

Asbestos Control. March 11, 1986. University of Washington Northwest Center for Occupational Health and Safety (7 hours).

Environmental Medicine. April 17, 1985. Northwest Hospital, Continuing Medical Education Short Course (4 hours).