

Gerry Croteau
Research Industrial Hygienist
Field Research and Consultation Group
Department of Environmental and Occupational Health Sciences
University of Washington, Seattle, WA

Mr. Croteau is a certified industrial hygienist that has responsibility for service consultation offered by the University of Washington Field Research and Consultation Group. He has consulted for an array of industries including: food processing, plastics manufacturing, construction, mining, foundries, waste disposal and processing, and machine shop and metal fabricating facilities. His primary interest is the implementation and evaluation of substitution and engineering controls. He has conducted research assessing the efficacy of engineering controls for controlling silica dust exposures during concrete cutting and grinding activities. Gerry also presents lectures on engineering noise and ventilation controls to graduate students in the Exposure Assessment Sciences program at the University of Washington. Prior to working with the Field Group, Gerry had worked 10 years as environmental consultant specializing in waste management and processing.

Education

M.S., University of Washington, Seattle, WA, Department of Environmental Health, Industrial Hygiene emphasis. 2000.

M.S., University of Maine, Orono, ME, Department of Soil Science, Soil Microbiology emphasis. 1989.

B.S., University of Massachusetts, Amherst, MA, Botany, 1985.

Employment

Research Industrial Hygienist, University of Washington, Seattle, WA. 2000 to present. Responsible for providing consulting services to Washington businesses and conducting applied research. Currently involved in research assessing ventilation controls for controlling silica dust exposures in construction. Other projects include: assessing exposures in metal arts industries, and assessing and implementing engineered noise controls.

Environmental Scientist, E&A Environmental Consultants, Bothell, WA. 1990 to 2000. Responsibilities included project management and new business development. Worked on a wide array of composting/organic waste utilization projects addressing: environmental and public health issues, feasibility studies, odor assessment and abatement, facility design, operator training, and compost product evaluation, marketing and utilization.

Soil Microbiologist, Woods End Research Lab, Mount Vernon, ME. 1989 to 1990. Designed and managed all phases of research examining various microbiological aspects of composting: plant pathogen survival, decomposition of miscellaneous substrates, disease suppression attributes of compost, characterization of phytotoxic metabolites. Also responsible for proposal and report writing and client consulting.

Publications

- G Croteau, R Dills, M Beaudreau and M Davis. Emission factors and exposure from ground-level pyrotechnics. *Atm. Env.* (2010). 44:3295-3303.
- S Aydin, S Aydin, GA Croteau, I Sahin, C Citil, Grhelin, nitrite and paraoxonase/arylesterase concentrations in cement plant workers. *J. Med. Biochem.*, 29:1-5. (2010).
- GA Croteau, DB Martin, J Camp, M Yost, C Conrad, PL Zeitlin, and AE Heald. Evaluation of exposure and health care worker response to nebulized administration of tgAAVCF to patients with cystic fibrosis. *Ann. Occup. Hyg.*, 48:673-681 (2004)
- GA Croteau, ME Flanagan, JE Camp, and NS Seixas. The efficacy of local exhaust ventilation for controlling dust exposures during concrete surface grinding. *Ann. Occup. Hyg.* 48: 509-518. (2004).
- GA Croteau. Health hazards and their control in the enamel arts, Part II. *The Enamelist Society Newsletter.* 2(3):6-9. (2004).
- GA Croteau. Health hazards and their control in the enamel arts, Part I. *The Enamelist Society Newsletter.* 2(2):8-10. (2004).
- GA Croteau. The theory and practice of using enclosures for controlling noise. *Proceedings from the 1st International Scientific Conference on Occupational and Environmental Health.* Hanoi, Vietnam. (2003).
- G Croteau, S. Guffey, M. Flanagan, and N. Seixas. The effect of local exhaust ventilation controls on dust exposures during masonry activities. *Am. Ind. Hyg. Assoc. J.* 63:458-467. (2002).
- Epstein, E., Wu, N., Youngberg, C., and Croteau, G. Dust and bioaerosols at a biosolids composting facility. *Compost Science & Utilization.* 9:250 - 255. (2001).
- Croteau, G.A. and Zibilske, L.M. Influence of papermill processing residuals decomposition on the saprophytic growth and disease caused by *Rhizoctonia solani*. *Applied Soil Ecology.* 10: 103 - 115. (1998).
- Epstein, E., Croteau, G., Wu, N., Youngberg, C. Bioaerosols at a biosolids composting facility: health implications to workers. *Proceedings of the 1998 WEF Biosolids Management Conference.* (1998).
- Croteau, G., Sasser, L. and Wu, N. Conducting an odor audit at a biosolids composting facility. *Proceedings of the 1998 WEF Biosolids Management Conference.* (1998).
- Croteau, G.A. Standard Test Method for Determining Aerobic Degradation of Plastic Materials in a Commercial Composting Environment. *American Society for Testing and Materials,* (1997).
- Croteau, G.A., May, K., and Schaan, B.M. Costs and benefits of on-site organics composting. *BioCycle* 36 (5): 65-68. (1996).
- Hartsock, D.R., Croteau, G.A. and Gage, J. Uniform aeration of compost media. *American Society of Mechanical Engineers 17th National Solid Waste Conference Proceedings.* (1994).

Croteau, G.A. and Gould, M. The Significance of Paper in Municipal Solid Waste Composting. National Council of the Paper Industry for Air and Stream Improvement. Technical Bulletin No. 644. (1993)

Kosstrin, H.M., Croteau, G.A. and Gould, M. Potential for composting residue generated from refuse derived fuel preparation. American Society of Mechanical Engineers 15th Nat. Solid Waste Conference Proceedings. (1992).

Presentations

Oregon Crab Fishing Safety Evaluation, 2011 National Symposium on Ag, Forestry & Fishing Health & Safety; Int. Soc. for Agricultural Safety and Health; Boise, ID, June 27, 2011

Reducing Airborne Exposures and Community Nuisance Odors at a Foundry, NW Occ. Health Conf., Portland, OR (Pacific NW Section-AIHA), October 14, 2010

Controlling noise exposure levels at a seafood processing plant, NW Occ. Health Conf., Vancouver, BC (PNS-AIHA), October 7, 2009

Engineering controls for reducing wood dust exposures during sanding, American Industrial Hygiene Conference & Exposition, Toronto, June 2, 2009

Glass and metal arts exposure assessment, American Industrial Hygiene Conference & Exposition, Toronto, June 1, 2009

Glass and metal arts exposure assessment, Northwest Occupational Health Conference, Seattle, October 16, 2008

Assessing exposure risk in the absence of a PEL or TLV, Northwest Occupational Health Conference, Seattle, October 16, 2008

Controlling noise exposure levels at a seafood processing facility, American Industrial Hygiene Conference & Exposition, Minneapolis, June 5, 2008

Glass and metal arts exposure assessment, UW Occ Med Grand Rounds, May 15, 2008

Silica in construction: exposure assessment and control. Oregon Governor's Conference; Portland, OR. March 14, 2007

Engineering Controls for Reducing Wood Dust Exposures During Sanding. Northwest Occupational Health Conference; Wenatchee, WA, October 26, 2006

Silica Dust Exposures in Vietnamese Refractory Brick Plants. American Industrial Hygiene Conference & Exposition, Chicago, IL. May 16, 2006

Evaluation of Exposure and Health Care Worker Response to Nebulized Administration of tgAAVCF to Patients With Cystic Fibrosis. American Industrial Hygiene Conference & Exposition, Chicago, IL. May 15, 2006

Silica dust exposures in Vietnamese brick plants. The 2nd International Scientific Conference on Occupational and Environmental Health. Hanoi, Vietnam. November 18, 2005

Comparison of Vietnamese high volume particulate sampling device to NIOSH total and respirable sampling devices. The 2nd International Scientific Conference on Occupational and Environmental Health. Hanoi, Vietnam. November 17, 2005

The importance of room acoustics in developing a noise control strategy. Northwest Occupational Health Conference, Bellingham, WA. October 13, 2005

Developing a noise control strategy. Labor and Industries Safety and Health Symposium. Wenatchee, WA. August 11, 2005

The use of enclosures for controlling noise. American Industrial Hygiene Conference & Exposition, Anaheim, CA. May 26, 2005

Controlled and field assessment of LEV for surface grinding. American Industrial Hygiene Conference & Exposition, Anaheim, CA. May 25, 2005

Silica in construction: exposure assessment and control. Oregon Governor's Occupational Health and Safety Conference. Portland, OR. February 28, 2005

Occupational health in VietNam: an industrial hygienist's perspective. Third Annual Western Region International Health Conference. Seattle, WA. February 19, 2005

Noise Control: Assessment, Selection and Implementation. Northwest Occupational Health Conference, Portland, OR. October 14, 2004

Controlling Dust Exposures in Construction, Emphasis on Silica. Silica Exposure and Control Workshop for Association of Building Contractors. Bellevue, WA. April 20, 2004

Controlling Dust Exposures in Construction, Emphasis on Silica. Local Exhaust Ventilation Workshop for L&I Employees. Seattle, WA. February 26, 2004

The Theory and Practice of Using Enclosures for Controlling Noise. The 1st International Scientific Conference on Occupational and Environmental Health. Hanoi, Vietnam. November 14, 2003

The Theory and Practice of Using Enclosures for Controlling Noise. Northwest Occupational Health Conference, SeaTac, WA. October 16, 2003

Health Hazards and Their Control in the Enamel Arts. National Enamelist Society Annual Conference. Olympia, WA. August 22, 2003

The Effect of LEV Controls on Dust Exposures During Surface Grinding. American Industrial Hygiene Conference and Exposition. San Diego, CA. June 6, 2002.

Filtration and Air Cleaning Issues in Industrial Hygiene (session arranger), San Diego, CA. June 3, 2002. Controlling Dust Exposures in Construction, Emphasis on Silica. Puget Sound Safety Summit. Seattle, WA. April 10, 2002.

Noise Reduction Approach and Results at Tuthill/ Cablecraft. University of British Columbia/University of Washington Occupational and Environmental Health Conference. Blaine, Washington. January 10, 2002.

The Effect of Local Exhaust Ventilation Controls on Dust Exposures During Masonry Activities. Northwest Occupational Health Conference, Seaside, OR. October 11, 2001.

The Effect of Local Exhaust Ventilation Controls on Dust Exposures During Masonry Activities. The Governor's Industrial Safety and Health Conference, Seattle, WA. September 26, 2001.

Effect of Local Exhaust Ventilation Controls on Dust Exposures During Concrete Cutting and Grinding Activities. American Industrial Hygiene Conference and Exposition, New Orleans, LA. June 6, 2001.

Silica Dust Exposures in Construction and the Effect of Local Exhaust Ventilation Controls on Dust Exposures During Concrete Cutting and Grinding Activities. Northwest Occupational Health Conference. Bellingham, WA. October 18, 2000.

Effect of Local Exhaust Ventilation Controls on Dust Exposures During Concrete Cutting and Grinding Activities. Annual L&I Retreat. Moses Lake, WA. September 13, 2000.

Degradability of Polymeric Materials in a Full-Scale Composting Environment. 5th Annual Meeting of the Bio/Environmentally Degradable Polymer Society. Nashville, TN. September 26, 1996.

Public Health Issues at Biosolids Composting Facilities. 1995 Annual Biosolids Management Conference (Northwest Biosolids Management Association). Silverdale, WA. September 12, 1995.

Odor Control at Biosolids Composting Facilities. Northwest Pollution Control Association Annual Conference. Spokane, WA. September 19, 1994.