

CURRICULUM VITAE, Noel V. Stanton
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Education

B.S. in Environmental Health, Purdue University, May 1979.
M.S. in Environmental Toxicology, University of Wisconsin-Madison, May 1982.

Employment History

November 2018-Present: Laboratory Manager, Wisconsin State Laboratory of Hygiene (WSLH) Responsible for broad oversight of the Environmental Sciences Section (ESS) Organic Chemistry program, the ESS Inorganic Chemistry Program, and the Chemical Response Program. This position manages the activities of 30 chemists and three front line supervisors.

2008-Present: WSLH Chemical Response Coordinator. Responsible for the Centers for Disease Control & Prevention (CDC) Public Health Emergency Preparedness (PHEP) Level 1 Chemical Response Laboratory and Clinical Metals programs. The Level 1 Lab is a national resource for chemical threat agent testing, and one of 10 total in the U.S. Responsibilities include oversight of the operation of two laboratory areas performing exposure testing for a variety of chemical threat agents such as nerve agents, vesicants, and many others. Additional activities include chemical unknown substance evaluation for hazmat and law enforcement responders, maintenance of partnerships with hazardous materials, law enforcement and other preparedness & response partners.

2015-Present: Oversight of the WSLH Clinical Metals Program, focused childhood lead poisoning testing and trace element exposure research testing. This program administers three proficiency testing (PT) programs for blood lead and other metals. Two of these programs are international in scope, and have a combined 750 participating laboratories. The production of reference materials for multiple blood metals and chemical threat agents is an additional activity.

1990-2008, Primary chemist, and later supervisor, WSLH Toxicology Section Clinical Metals program. Responsible for blood lead and other trace element activities described above. This position also included temporary service as the supervisor for the WSLH Trace Element Clean Laboratory, in 2006-2007.

1982-1990, chemist WSLH Toxicology Program. Performed bench chemistry testing for trace elements and legal blood ethanol determinations. Delivered court testimony, both material and expert, in WI courts, on approximately 100 occasions. Also had responsibility for PT program administration during this time.

Experience & Expertise

- Over 25 years of experience in the establishment and implementation of programmatic goals in the Toxicology & Chemical Response programs.
- Over 30 years of experience with the development & monitoring of budgets.
- Over 25 years experience selecting and purchasing instruments and other equipment. Acquisitions, largely using grant and contract funding, include ICPMS, GCMS, LCMS/MS, AA, and many other instrument systems.

Experience & Expertise (cont')

- Successful pursuit and administration of competitive grants, contracts, and other support opportunities, dating back to the late 1980s.
- Experience with human subjects research, and the successful development and execution of no fewer than three IRB protocols.
- Experience with the development and implementation of multiple animal research protocols, and successful implementation of IACUC approved protocols.
- Experience in the preparation and adherence to biosafety protection protocols.
- Nearly 30 years of experience supervising technical and support staff.
- Experienced in promoting career growth and development of WSLH staff. Three former staff members have gone on to supervise WSLH programs.
- Development of strong & collaborative partnerships with a variety of Federal, State, and local public health partners. This includes but is not limited to CDC, the U.S. Health Resources and Services Administration, National Park Service WI Dept. of Health Services, WI Dept. of Natural Resources, and Association of Public Health Laboratories (APHL).
- Development and maintenance of emergency response partnerships including but not limited to the National Guard, FBI, DCI, fire and rescue (hazardous materials responders), and the WI Poison Center.
- Guidance of the Clinical Metals and Chemical Response programs in obtaining CLIA, and later CAP accreditation.
- Over 30 years of experience with PT program administration and data interpretation.
- Experience with the preparation & distribution of characterized reference materials.
- Familiarity with a wide variety of modern laboratory instrumentation.
- Experience with shipment of biohazardous specimens.
- Extensive experience with hiring practices, performance and competence reviews, adherence to WSLH work rules, and a wide variety of other supervisory activities.
- Over 30 years of experience teaching and training, for a wide variety of audiences.

Selected Professional Appointments & Awards

- Awarded the Association of Public Health Laboratories (APHL) Gold Standard Award for Public Health Laboratory Excellence, 2020.

- **Selected Professional Appointments & Awards (continued)**

- Clinical Laboratory Standards Institute (CLSI) Member, Subcommittee on the Determination of Lead in Blood, 2018-present, and 2009-2012.
- Awarded the Laboratory Response Network (LRN) Excellence in Methodology and Technology Evaluation Award, 2018,
- Chair, Centers for Disease Control & Prevention Laboratory Response Network-Chemical Quality Assurance Working Group. 2015-2019. Membership maintained.
- Board Member, Wisconsin Association of Hazardous Materials Responders. 2013-present.
- Association of Public Health Laboratories (APHL) Member, Laboratory Response Network (LRN) National Meeting organizing committee, 2017-18, and 2020-21.
- Member, Laboratory Methods Workgroup (LMWG) to the Advisory Committee on Childhood Lead Poisoning Prevention. Centers for Disease Control & Prevention, 2007-present. Chair from 20xx-2019
- Member, Multi-element External Quality Assessment Scheme Advisory Group. Centre de Toxicologie/INSPQ, Quebec, Canada. 2004-2012.
- Member, Implementation and Oversight Committee and Targeting High Risk Populations subcommittee of the Wisconsin Childhood Lead Poisoning Elimination Plan, 2004-2008.
- WSLH EHD Division HIPAA representative, circa 2003-2008.
- Member, (at various career points) WSLH Engagement, Inclusion, & Diversity, Human Subjects Research, HIPAA, Enterprise Business Project teams.
- Member CDC Advisory Committee on Childhood Lead Poisoning Prevention, circa 1990-1998.

Selected Recent Teaching & Presentations, 2020-2018 Only

- University of Wisconsin Nutritional Sciences 421, Introduction to the public health laboratory. *Childhood Lead Exposure: Still Poisoned After All These Years*. 11/9/2018, 5/21/2019, 11/6/2020 (recorded.)
- University of Wisconsin Population Health Sciences 502, Introduction to Environmental Toxicology, *Childhood Lead Poisoning, A Historical Perspective*, 3/13/2018, 8/20/2018, 9/24/2019, 9/22/2020 (recorded).
- WI DNR Emergency Response Planning Conf., *WSLH and Drinking Water Emergency Response Capabilities*, 10/3/2020 (webinar.)
- APHL Cannabis Network, *Brodifacoum and Synthetic Cannabinoids*, 5/11/2018.

Teaching & Presentations, (cont')

- Wisconsin Clinical Laboratory Network Webinar Series, *Chemical Response at WSLH* 5/20/2020 (webinar).
- Wisconsin Clinical Laboratory Network Webinar Series, *So Where is WSLH in the EVALI Response?* 1/22/2020 (webinar).
- LRNC Semi-Annual Meeting, Albany NY, *Sulfur mustard, Lewisite Metabolites, and EVALI in WI*, 11/6/2019
- WI DNR Drinking Water Regional Meetings, *The WI Emergency Response Drinking Water Kit*, delivered six times between 9/20/2018 and 10/29/2020
- Association of Public Health Laboratories Annual Conference, St. Louis MO, *The LRNC: Evolution of a Laboratory Network*, 6/5/2019.
- NACCHO Preparedness Summit, St. Louis MO, *The Chemistry Laboratory in Emergency Preparedness and Response*, 3/27/2019.
- Wisconsin Association of Hazardous Materials Responders Annual Meeting, *Fake Dope and Rat Poison: Coagulopathy from Synthetic Cannabinoid Use*, 3/7/2019, and *Toxic Elements and Hazmat*, 2/24/2018.
- Iowa CLMA Fall Meeting, Cedar Rapids IA, *A Bloody Mess, Coagulopathy from Synthetic Cannabinoid Use*, 9/26/2018
- LRN National Meeting, Atlanta GA, *Fake Dope & Rat Poison, the WI Response*, 9/6/2018.

Publications

- Scott SR, Stanton NV, Gorski PR, Dahman C. et al. The effects of a known exposure source on Pb isotopes in bones from Pb-dosed cows. *Applied Geochemistry*, 121: October 2020.
- Yip Y, Stanton NV, and Middleberg RA. Vitamin K Treatment Duration in Patients with Brodifacoum Poisoning. *N Engl J Med* 328:18, April 2020.
- Stanton NV and Hagerman, M. State Public Health Laboratory Response to Synthetic Cannabinoid "Spice" Contamination with a Rat Poison. *APHL Lab Matters*, July 2018.
- Bautista LE, Stein JH, Morgan MJ, Stanton NV et al. Association of Blood and Hair Mercury with Blood Pressure and Vascular Activity. *WI Med J* 108;5:250-253, August 2009.
- Stanton NV and Fritsch T. Evaluation of a Second-Generation Portable Blood Lead Analyzer in an Occupational Setting. *Am J Ind Med* 50;12:1018-24 December 2007.

Publications (continued)

- Stanton NV, Fritsch T, Geraghty C, Verostek MF, Weiner B, and Parsons PJ. The Role of Proficiency Testing in the Detection and Resolution of Calibration Bias in the LeadCare® Blood Lead Analyzer; Limitations of Peer-Group Assessment. *Accred Qual Assur* (2006) DOI 10.1007/s00769-006-0189-6.
- Parsons P, Reilly A, Esernio-Jenssen D, Werk L, Stanton N, et al. Evaluation of Blood Lead Proficiency Testing: Comparison of Open and Blind Paradigms. *Clin Chem* 47:2 February 2001.
- Stanton N. Erythrocyte Protoporphyrin (Education article). *Therapeutic Drug Monitoring & Toxicology* 21:12 December 2000.
- Stanton N, Maney J, Jones R. Evaluation of Filter Paper Blood Lead Methods: Results of a Pilot Proficiency Testing Program. *Clin Chem* 45:12 December 1999.
- Stanton N. Certification and Proficiency Testing in the Blood Lead Laboratory. Proceedings of the Second National Conference on Laboratory Issues in Childhood Lead Poisoning Prevention, 1996.
- Stanton N. Blood Lead Proficiency Testing: Overview of the Federally-Sponsored Program in the United States. *J Int Fed Clin Chem*, 5: September, 1993.
- Stanton N, Gunter E, Parsons P, Field P. An Empirically Determined Lead Poisoning Screening Cutoff for the Protofluor-Z Hematofluorometer. *Clin Chem* 35: October, 1989.
- Parsons P, Stanton N, Gunter E, et al. An Interlaboratory Comparison of Control Materials for Use with Hematofluorometers. *Clin Chem* 35: October, 1989.