

# Nancy VanStone, PhD

Research Associate, external projects



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## EXPERTISE

- ♦ environmental health hazards
- ♦ climate-related health outcomes
- ♦ analytical chemistry
- ♦ report/manuscript preparation
- ♦ knowledge translation

Nancy supports KM's mission to to generate actionable research and innovative solutions by working with external clients in applied public health research and engaging new collaborative projects. Nancy is an environmental health researcher, communicator, and educator; she has taught advanced courses in environmental health and environmental chemistry courses. Nancy has expertise in research design, knowledge translation, and project management. Nancy works with KM staff to produce grant proposals and scientific reports. Nancy enjoys gardening in the summer and skiing in the winter.

## EDUCATION

### Doctorate, Environmental Chemistry

2006

University of Toronto, Toronto ON

**Thesis:** Investigations of Reductive Dechlorination Reactions of Chlorinated Ethenes and Ethanes on Zero-Valent Metals using Compound Specific Isotopic Analysis

### Master of Science, Environmental and Life Sciences

2001

Trent University, Peterborough ON

**Thesis:** Capillary Electrophoresis/Inductively Coupled Plasma Mass Spectrometry for the Characterization and Quantification of Humic Acids and their Interaction with Metal Species

### Bachelor of Science, Biology

1993

Dalhousie University, Halifax NS

## Selected ACADEMIC APPOINTMENTS and PROFESSIONAL EXPERIENCE

### Course Author (Term Adjunct), Department of Civil Engineering

2018-2019

Queen's University, Kingston ON

Nancy developed and prepared lectures for an online graduate course offered for by Beaty Water Research Centre, an interdisciplinary education, research, and outreach centre at Queen's University. Course Title: BWRC 801 The Chemistry and Biology of Natural Waters.

### Lecturer (Term), Department of Health Sciences

2018

Queen's University, Kingston ON

Nancy developed, researched, and prepared approximately half of the lectures for course, EPID 835 Environmental Health, an elective course for the Master of Public Health program; she also developed and marked assignments.

### Lecturer (Term), Environment and Resource Studies

1999

Trent University, Peterborough ON

Nancy co-taught ERS4350H Climatic Change; she also prepared and marked assignments and held office hours.

## Selected PUBLICATIONS and REPORTS

Commission for Environmental Cooperation (CEC). *A Guide for Syndromic Surveillance for Heat-Related Health Outcomes in North America*. Montreal, QC; CEC: 2017. (Note: primary author, translated into French and Spanish).

**VanStone N**, van Dijk A, Chisamore T, Mosley B, Hall G, Belanger P, Moore K. Characterizing the Effects of Extreme Cold using Real-time Syndromic Surveillance, Ontario, Canada, 2010-2016. *Public Health Reports*, 2017, 132:48S-52S.

**VanStone N**, Belanger P, Moore K, Caudle JM. The socio-economic composition of low acuity emergency department users in Ontario. *Canadian Family Physician*, 2013, 60: 355-362.

Elsner M, Chartrand M, **VanStone N**, Lacrampe-Couloume G, Sherwood Lollar B. Identifying abiotic chlorinated ethene degradation: characteristic isotope patterns in reaction products with nanoscale zero-valent iron. *Environmental Science & Technology*, 2008, 42:5963-5970.

**VanStone N**, Elsner M, Lacrampe-Couloume G, Mabury S, Sherwood Lollar B. Potential for identifying abiotic chloroalkane degradation mechanisms using carbon isotopic fractionation. *Environmental Science & Technology*, 2008, 42:126-132.

## Selected PRESENTATIONS

**VanStone N**, van Dijk A, Belanger P, Moore K. Lessons Learned from an Extreme Heat Event using ACES for Situational Awareness, Ontario, Canada. *Online Journal of Public Health Informatics*. 2019;11(1):e311. (Conference: 2019 ISDS Annual Conference, 29 January-1 February 2019, San Diego, CA)

**VanStone N**, Belanger P. Monitoring Health Impacts of Climate Change: A GIS Application to Display Real-Time Surveillance of Environmental Data and Health Outcomes Combined with Demographic Information. *NCCEH Environmental Health Seminar, BC Centre for Disease Control, Online Webinar, 26 April 2018*.

**VanStone N**. *Guide for Syndromic Surveillance for Heat-Related Health Outcomes in North America*. *Binational Conference on Extreme heat and health: Prevention, mitigation and resilience in Paso del Norte Region, El Paso, TX, May 2017*.

**VanStone N**. *A Guide for Syndromic Surveillance for Heat-Related Health Outcomes in North America. Final Workshop: Helping North American Communities Adapt to Climate Change, Hermosillo, Mexico, May 2017*.

Robinson M, **VanStone N**. *Consultants' Report: Syndromic Surveillance of Extreme Heat, Ottawa, Canada. Final Workshop: Helping North American Communities Adapt to Climate Change, Hermosillo, Mexico, May 2017*.

Caudle JM, **VanStone N**, Wynn A, Biro S, Williamson T, Belanger P, Moore K. Trends in emergency department use in Ontario, 2003 to 2009: Correlations between determinants of health and Canadian triage acuity scores. *CAEP 2013: Leadership from Sea to Sky, Vancouver, BC, June 2013 (Poster)*.

Caudle JM, **VanStone N**, Belanger P, Moore K. The socio-economic composition of low acuity emergency department users in Ontario. *CAEP 2013: Leadership from Sea to Sky, Vancouver, BC, June 2013 (Poster)*.

Sherwood Lollar B, **VanStone N**, Lacrampe-Couloume G, Mabury S, Elsner M. Potential to Use Stable Isotopes to Differentiate Biotic/Abiotic Degradation. *Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 2008*.

**VanStone N**, Focht R, Mabury SA, Sherwood Lollar B. Isotopic analysis: A new tool for evaluating abiotic degradation on Fe<sup>0</sup>. *Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 2002*.

**VanStone N**, Focht R, Mabury SA, Sherwood Lollar B. Carbon isotope enrichment of chlorinated ethylenes during abiotic degradation on zero-valent iron: Pathways of reaction. *222<sup>nd</sup> ACS National Meeting, Chicago, IL, August 2001*.

**VanStone N**, Evans RD. The DIHEN as an interface for CE/ICP-MS: improved sensitivity for environmental applications. *Federation of Analytical Chemistry and Spectroscopy Societies, Vancouver, BC, October 1999*.

**VanStone N**, Evans RD. Multicapillary columns for improved sensitivity in the study of humic acids and associated metal interactions using CE/ICP-MS. *European Winter Conference on Plasma Spectrochemistry, Pau, France, January 1999 (Poster)*.