

## **Nicolle S. Tulve, Research Physical Scientist, in EPA's National Exposure Research Laboratory**

Systems Exposure Division

[Mailing Address](#)

[tulve.nicolle@epa.gov](mailto:tulve.nicolle@epa.gov)

**Area of Expertise:** Nicollev's research activities focus on understanding young children's exposures to chemical (e.g., consumer product active ingredients) and non-chemical (e.g., noise, greenspace, quality of the environment) stressors found in their everyday environments (home, daycare, school, community) and the influence these stressors have on their health and well-being. This research explores the interrelationships between chemical and non-chemical stressors in impacting children's health and well-being and emphasizes better understanding children's total (built, natural, social) environments in order to reduce exposures, improve health and well-being, and minimize risk. Generating and understanding exposure factors are essential to this research. This research is conducted through analysis of extant data and information, laboratory work, and field activities.

### **Select Publications:**

Tulve NS, Stefaniak AB, Vance ME, Rogers K, Mwilu S, LeBouf RF, Schwegler-Berry D, Willis R, Thomas TA, Marr LC. 2015. Characterization of silver nanoparticles in selected consumer products and its relevance for predicting children's potential exposures. *International Journal of Hygiene and Environmental Health*. 218(3):345-357.

Tulve NS, Egeghy PP, Fortmann RC, Xue J, Evans J, Whitaker DA, Croghan CW. 2011. Methodologies for estimating cumulative human exposures to current-use pyrethroid pesticides. *Journal of Exposure Science and Environmental Epidemiology*. 21(3):317-327.

Tulve NS, Egeghy PP, Fortmann RC, Whitaker DA, Nishioka MG, Naeher LP, Hilliard A. 2008. Multimedia measurements and activity patterns in an observational pilot study of nine young children. *Journal of Exposure Science and Environmental Epidemiology*. 18(1):31-44.

View more research publications by [Nicolle Tulve](#).

### **Education:**

- USEPA, Post-Doctoral Fellow, ORD/NERL, RTP, NC, 2000
- Ph.D., Environmental Engineering, Clarkson University, 1999
- M.S., Environmental Health and Toxicology, School of Public Health, SUNY Albany, 1994
- B.S., Biology, Oswego State University, 1992

## Professional Experience:

- Lead for the Assessing Environmental Health Disparities in Vulnerable Groups Project within the Sustainable and Healthy Communities (SHC) National Research Program, US EPA, ORD, RTP, NC 2014-present
- Lead for the Enhancing Children's Health Project within SHC, USEPA, ORD, RTP, NC 2011-2014
- Lead for the Children's Exposure Research Task within SHC, USEPA, ORD, RTP, NC 2011-present
- Team Lead for the Children's Exposure Measurement Research Program (NERL), USEPA, ORD, NERL, HEASD, RTP, NC 2007-2011
- Research Physical Scientist, USEPA, ORD, NERL, HEASD, EMAB, RTP, NC 2009-present
- Acting Associate Director for Human Health, USEPA, ORD, NERL, HEASD, RTP, NC 2008-2009
- Research Physical Scientist, USEPA, ORD, NERL, HEASD, EMAB, RTP, NC 2000-2008
- Research Scientist (detail), USEPA, OPP, HED, Washington, DC 6/2002-10/2002
- Research Physical Scientist, USEPA, ORD, NERL, Post-Doctoral Fellow, RTP, NC 1999-2000

## Honors and Awards:

- 2013 US EPA National Honor Award, Health Sciences, Nanopesticide Assessment and Regulatory Team  
For advancing science by completing the first risk assessment for a nanomaterial and the regulatory decisions and subsequent study evaluations based on that assessment
- 2012 ORD Honor Award, SHEDS-Multimedia Human Exposure Modeling Team  
For developing a state-of-the-science tool to predict human population exposures for critical lifestages to inform risk-based decision making
- 2011 Level III STAA Award
  - 1) Multimedia measurements and activity patterns in an observational pilot study of nine young children by Tolve *et al.*, 2008 (Journal of Exposure Science and Environmental Epidemiology, 18(1):31-44)
  - 2) Organophosphorus and pyrethroid insecticide urinary metabolite concentrations in young children living in a southeastern United States city by Naeher *et al.*, 2010 (The Science of the Total Environment, 408(5):1145-1153)
  - 3) Methodologies for estimating cumulative human exposures to pyrethroid pesticides by Tolve *et al.*, 2011 (Journal of Exposure Science and Environmental Epidemiology, 21(3):317-327)
- 2010 Level I STAA Award
  - 1) A Meta-Analysis of Children's Hand-to-Mouth Frequency Data for Estimating Non-Dietary Ingestion Exposure by Xue *et al.*, 2007 (Risk Analysis, 27(2):411-420)
  - 2) A Meta-Analysis of Children's Object-to-Mouth Frequency Data for Estimating Non-Dietary Ingestion Exposure by Xue *et al.*, 2010 (Journal of Exposure Science and Environmental Epidemiology, 20(6):536-545)