

Matthew S. Clifton, Physical Scientist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: Matthew's research primarily focuses on targeted and non-targeted measurements of organic chemicals in residential environments. His current interests focus on multi-residue, multi-media analyses for aggregate exposure measurements. This includes developing and improving measurement methods and technologies, analytical methods development and implementation of methods in observational exposure studies. Matthew is also investigating factors that may confound parent/metabolite measurements.

Select Publications:

- Clifton, M. S., Wargo, J. P., Weathers, W. S., Colon, M., Bennett, D. H., & Tulse, N. S. (2013). Quantitative analysis of organophosphate and pyrethroid insecticides, pyrethroid transformation products, polybrominated diphenyl ethers and bisphenol A in residential surface wipe samples. *Journal of chromatography. A* 2013, 1273, 1-11.
- Shin, H. M., McKone, T. E., Tulse, N. S., Clifton, M. S., & Bennett, D. H. (2013). Indoor residence times of semivolatile organic compounds: model estimation and field evaluation. *Environmental science & technology* 2013, 47 (2), 859-67.
- Morgan, M. K.; Jones, P. A.; Calafat, A. M.; Ye, X.; Croghan, C. W.; Chuang, J. C.; Wilson, N. K.; Clifton, M. S.; Figueroa, Z.; Sheldon, L. S. (2011). Assessing the quantitative relationships between preschool children's exposures to bisphenol A by route and urinary biomonitoring. *Environmental science & technology* 2011, 45 (12), 5309-16.
- Marsha K. Morgan · Jon R. Sobus · Dana Boyd Barr · Carry W. Croghan · Fu-Lin Chen · Richard Walker · Lillian Alston · Erik Andersen · Matthew S. Clifton (2016) Temporal variability of pyrethroid metabolite levels in bedtime, morning, and 24-h urine samples for 50 adults in North Carolina. *Environmental Research* 144(Pt A):81-91
- Xiangmei (May) Wu · Deborah H Bennett · Rebecca E Moran · Andreas Sjödin · Richard S Jones · Daniel J Tancredi · Nicolle S Tulse · Matthew Scott Clifton · Maribel Colón · Walter Weathers · Irva Hertz-Picciotto (2015) Polybrominated diphenyl ether serum concentrations in a Californian population of children, their parents, and older adults: an exposure assessment study. *Environmental Health* 14(1)
- Deborah H Bennett · Rebecca E Moran · Xiangmei May Wu · Nicolle S Tulse · Matthew Scott Clifton · Maribel Colón · Walter Weathers · Andreas Sjödin · Richard Jones · Irva Hertz-Picciotto. (2014) Polybrominated diphenyl ether (PBDE) Concentrations and Resulting Exposure in Homes in California: Relationships among Passive Air, Surface Wipe and Dust Concentrations, and Temporal Variability. *Indoor Air* 25(2) · May 2014

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Education:

- B.S., Chemistry, Gardner-Webb University, 1997
- A.A.S., Science, Patrick Henry Community College, 1994

Professional Experience:

- Physical Scientist, USEPA, ORD, NERL-HEASD-EMAB, RTP, NC 2003-present
- Analytical Chemist, RTI International, RTP, NC 1997-2003