H.D. Alan Lindquist, Senior Advisor in EPA's National Risk Management Research Laboratory

Water Systems Division
Mailing Address

lindquist.alan@epa.gov

Areas of Expertise:

- Microbiology
- Sensor development and sensor implementation, including for harmful algal blooms and pathogen detection devices.
- Distribution and factors associated with harmful algal blooms with focus on benthic cyanobacteria.

Select Publications:

Edmunds, J, H.D.A. **Lindquist**, J. Sabol, K. Martinex, S. Shadomy, T. Cymet, P. Emanuel. 2016. Multigeneration Cross-Contamination of Mail with *Bacillus anthracis* Spores. PLoS One. 11(4): e0152225.

Humrighgouse, B., Pemberton, A., Gallardo, V., **Lindquist,** H.D.A., and LaBudde, R. 2015. A Method Detection Limit for *Bacillus anthracis* Spores in Water Using an Automated Waterborne Pathogen Concentrator. J. AOAC Int. 98(4): 1003-1012.

Hines, S.A., D.J. Chappie, R.A. Lordo, B.D. Miller, R.J. Janke, H.A. **Lindquist**, K.R. Fox, H.S. Ernst, S.C. Taft. 2014. Assessment of relative potential for Legionella species or surrogates inhalation exposure from common water uses. Water Res. 56: 203-213

Francy, D.S., E.A. Stelzer, A.M.G. Brady, C. Huitger, R.N. Bushon, H.S. IP, M.W. Ware, E.N Villegas, V. Gallardo, and H.D.A. **Lindquist**. 2013. Comparison of Filters for Concentrating Microbial Indicators and Pathogens in Lake Water Samples. Applied Environmental Microbiology 79(4): 1342-1352.

View more research publications by H.D. Alan Lindquist.

Education:

- Ph.D., Uniformed Services University of the Health Sciences, Bethesda, MD; Diagnostic Parasitology, 1995
- Master of Environmental Science, Miami University, Oxford, OH; Applied Ecology, 1986
- B.A., Miami University, Oxford, OH; Zoology and Geology, 1983

Professional Experience:

Project Leads

- Co-lead for Village Blue Project
- Research plan coordination for the Safe and Sustainable Water Resources (SSWR) Program Chemical and Microbial Research Strategies
- Embassy Science Fellow, U.S. Embassy, Tokyo Japan, 2007

Workgroups and Committees

- NRMRL Technical Qualifications Pool: 2017-present

- Member of RPCVS@EPA the EPA organization for Returned Peace Corps Volunteers 2013-present
- Team of Innovators, NHSRC, 2009-2017
- EPA Forum on Environmental Methods, 2012
- Center for Excellence for Environmental Genomics, 2007-2009
- Nonproliferation and Arms Control Tech Working Group, Bio Weapons Focus Group, 2006-2011
- Interagency Bioterrorism Risk Assessment Working Group, 2006-2017
- Technical expert to working groups within National Homeland Security Committee
- Subject matter Expert for Biological Decontamination Working Group, 2005-2017

Professional Affiliations

- International Water Association
- American water Works Association
- American Society for Microbiology
- American Society of Parasitologists
- The Helminthological Society of Washington
- Delta Omega, Honorary Public Health Society
- Sigma Xi, the Scientific Research Society
- The National Malaria Association of Thailand

Awards and Honors

- EPA Silver Medal for Superior Service Work in developing Nation's first Laboratory Network specifically designed for the water sector, 2010
- Certificate of Appreciation Support in the Bio-response Testing and Evaluation Program, 2011
- Certificate of Appreciation Support of response to the Deepwater Horizon Oil Spill, 2010
- R&D 100 Award for the Water Sample Concentrator, 2009
- EPA Silver Medal for Superior Service for Standardized Analytical Methods for Environmental Restoration following Homeland Security Events Steering Committee, 2008
- EPA Bronze Medals for Commendable Service: 2015, 2010, 2006, 2005
- EPA Scientific and Technological Achievement Awards (STAA) Honorable Mention, 2002, 2000

Patents

Carpenter, M.V., L.G. Roybal, A. **Lindquist**, V. Gallardo. Systems and methods for concentrating substances in fluid samples. Issued March 15, 2016. U.S. Patent number 9,285,354 B2.

Hester, J.D., H.D.A. **Lindquist**, and F.W. Schaefer, III. In-situ hybridization probes for the detection of microsporidial species. Issued February 15, 2005. U.S. Patent number 6,855,498.

Science Matters: Launch of Village Blue Web Application Shares Water Monitoring Data with Baltimore Community
EPA Blog - Baltimore: EPA's First Village Blue Project