2173 Piazza Ridge Covington, KY 41017

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- EDUCATION ------

Doctor of Philosophy, 08/2014 University of Cincinnati Medical School, Cincinnati, OH Major: Epidemiology

Master of Science, 12/1982 Miami University, Oxford, OH Major: Statistics

Bachelor of Science, 5/1980

Xavier University, Cincinnati, OH Major: Mathematics, Minor: Physics

ACADEMIC APPOINTMENT

Adjunct Associate Professor, 09/2019 – Present Department of Environmental Health College of Medicine University of Cincinnati Cincinnati, OH

- SELECT HONORS AND AWARDS –

- U.S. EPA Russell Train Sustainability Award for developing the innovative Proctor Creek Watershed Story Map to inform future decisions around green infrastructure and help community members engage as stewards of their watershed, 2021
- U.S. EPA Emeritus appointment Office of Research and Development, 2018
- ♦ U.S. EPA Silver Medal for Superior Service for pioneering the expanded use of Health Impact Assessments as a tool for improving public health through an inclusive process with impacted communities, 2018
- U.S. EPA Region 2, Regional Support Award for building the Region's capacity to consider Health in the Sandy Recovery Process, 2015
- U.S EPA Office of Solid Waste and Emergency Response, Notable Achievement Award for Brownfields Land Revitalization Team Award, 2014
- U.S. EPA/ORD, NERL Leadership Award, 2009
- U.S. EPA/ORD, Honor Award Exceptional/Outstanding ORD Technical Assistance to Regions or Program Offices, 2007
- U.S. EPA/ORD, Science Communication Award, 2004
- U.S. EPA/OW, Honor Award Bronze Medal, 2003
- U.S. EPA/ORD, Bronze Medal for Commendable Service, 2003
- U.S. EPA/OWM, Honor Award Bronze Medal, 2002
- U.S. EPA/OW, Honor Award Bronze Medal, 2001

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AFFILIATIONS -

 Ohio Valley Chapter, Society of Environmental Toxicology and Chemistry Chapter President, 2007 – 2010 Board Member, 2004 – 2007

• Society of Practitioners of Health Impact Assessment

Member Board Member 2012 – 2013

- WORK EXPERIENCE –

09/2019 - Present

Adjunct Associate Professor Department of Environmental Health College of Medicine University of Cincinnati Cincinnati, OH

Apply my knowledge, skills and experience to development and instruction of courses in science communication, epidemiology of infectious diseases and environmental public health.

- Guest lecture in the Environmental Health course for the MPH student. Provide the foundation for Health in All Policies and introduce the Health Impact Assessment process. Challenge the students with a case study exercise to look at the linkages between a decision, health determinants and health outcomes.
- Combined knowledge on the basic tenants of infectious diseases with exercises in real world public health challenges to create content for a course in the Epidemiology of Infectious Diseases. Added lectures and exercises on surveillance systems, prevention and protection messaging to the public, outbreak dynamics including communicating across agencies and the impacts of climate change on infectious diseases along with understanding the range of public perception of climate change. Collectively the course provides a solid foundation in infectious disease epidemiology for the MPH student.
- Mentor MPH students in the selection of their Capstone project and provide oversight for Capstone projects.

Part-time Faculty

01/2021-Present

Department of Preventive Medicine and Environmental Health College of Public Health University of Kentucky Cincinnati, OH

Apply my knowledge, skills and experience to development and instruction of courses in environmental health.

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- Refined a course in the Fundamentals of Environmental Health, a required course for undergraduate students seeking a B.S. in Public Health. Increased the focus of the course on real world data where the students are living and learning including air and water quality data, contaminated sites in their community and health rankings across the state.
- Combined knowledge and expertise to develop a course in Environmental Health for the MPH student. The course focuses on topics that a public health professional will encounter including water quality, healthy buildings, infectious diseases, and lead contamination. Exercises for the course deal with real world public health challenges such as: reading and interpreting literature to support policy and action; communicating science to a variety of audiences; and applying system thinking to an environmental public health problem. The course provides a well-grounded introduction in environmental health for the MPH student.

EMERITUS

12/2017 - 12/2019

U.S. EPA Office of Research and Development Systems Exposure Division 26 West Martin Luther King Drive, Cincinnati, OH 45268

Provide experience and expertise in HIA and environmental and public health to support HIA case studies. Collectively the case studies will demonstrate the use of a collaborative, science - based approach incorporating local knowledge and data to assess impacts of local decisions.

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TEAM LEAD, GS-1530-15 U.S. EPA Office of Research and Development Environmental Futures Analysis Branch

10/2015 - 08/2017

Hours per week: 40 26 West Martin Luther King Drive, Cincinnati, OH 45268 May contact supervisor: Yes Supervisor: Lindsay Wichers Stanek, 919-541-7792

Provided scientific, programmatic, and organizational support and leadership for EFAB. Conduct research and projects to promote the consideration of public health in decision making.

- Responsible for employee mentoring and career development.
- Provided technical advice and review on Branch, Division and National Research Program projects.
- Developed training and guidance for systems thinking to advance the use of systemsbased approaches in environmental exposure assessment in the Systems Exposure Division.
- Served as task lead in the Sustainable and Healthy Communities Research Program • where responsibilities included planning and execution of a research task focused on community health and the development of decision-based tools to support Health in All Policy (HiAP) approaches including Health Impact Assessment (HIA).
- Co-lead of collaborative HIAs that focused on local decisions in the use of green • infrastructure, changes in the use of on-site sewage disposal systems, the restoration and remediation of a Great Lakes Areas of Concern site and renovations to a community school plagued with indoor air quality issues. Final products provide an assessment of the potential impacts of the decisions on public health including evidence-based recommendations to the decision maker.
- Co-lead of an effort to consider a broader definition of health in processes required by the National Environmental Policy Act. This effort focused on development of resources to support EPA Regional NEPA reviewers in identifying health determinants and health endpoints that may be impacted by proposed projects such as road infrastructure and port expansions.

BRANCH CHIEF, GS-1530-15 10/2010 - 10/2015

U.S. EPA Office of Research and Development

Molecular Ecology Research Branch 26 West Martin Luther King Drive, Cincinnati, OH 45268 Supervisor: Mark Bagley, 513-569-7455

Hours per week: 40 May contact supervisor: Yes

Responsible for management of all Branch activities and personnel.

- Provided leadership in research planning and direction across a diverse research landscape encompassing three National Research Programs: Chemical Safety and Sustainability, Safe and Sustainable Water Resources and Sustainable and Healthy Communities.
- Ensured research was conducted and communicated to meet the goals of the National Research Programs, the needs of EPA Program Offices and contributed to the larger scientific community.

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- Secured and administered the resources necessary to perform research activities and implement the organization's mission.
- Represented the Branch and its research in various venues including planning meetings at the Laboratory and National Program level, scientific meetings both internal and external and briefings to Program Offices.
- Responsible for employee hiring, mentoring, and career development.
- Provided technical advice and review on Branch, Division and National Research Program projects.
- Served as task lead in the Sustainable and Healthy Communities Research Program where responsibilities included planning and execution of a research task focused on community health and the development of decision based tools including Health Impact Assessment (HIA).
- Co-lead of four collaborative HIAs that are focused on local decisions in the use of green infrastructure, changes in the use of on-site sewage disposal systems and renovations to a community school plagued with indoor air quality issues. Final products provided an assessment of the potential impacts of the decisions on public health including evidence-based recommendations to the decision maker.

RESEARCH STATISTICIAN, GS-1530-15

U.S. EPA Office of Research and Development

National Exposure Research Laboratory Long-Term Training Program Supervisor: Rochelle Araujo, 919-541-4109 Hours per week: 40 May contact supervisor: Yes

Fulfilled a year of long-term training at the University of Cincinnati's Department of Environmental Health to enhance existing skills and gain new skills in areas of increased importance to the National Exposure Research Laboratory and the Office of Research and Development.

- Completed targeted course work in public health advocacy and policy, epidemiology, environmental health, and decision analysis.
- Increased the profile of exposure science through seminars, discussions with faculty and consultation on research planning.
- Prepared a research proposal focused on development of model based exposure indicators for assessment of exposure to ambient air manganese.

ACTING DIVISION DIRECTOR, GS-1530-15 U.S. EPA Office of Research and Development Ecological Exposure Research Division

26 West Martin Luther King Drive, Cincinnati, OH 45268 Supervisor: Rochelle Araujo, 919-541-4109 1/2005 - 09/2009

Hours per week: 40 May contact supervisor: Yes

Provided scientific, programmatic, and organizational leadership for a division whose primary mission is the understanding of aquatic ecosystems and ecosystem exposures.

09/2009 - 10/2010

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- Responsible for the efficient use and effective management of the human and financial resources of an organization with 40 Federal FTE, 41 on-site contract staff, 7 grantees/guest workers, and a total combined budget of \$6.89M.
- Diligently served as the spokesperson for the Division and its research to both internal customers and the external scientific community, integrating the organization's mission with Agency programs, priorities, and needs.
- Ensured effective communication at all levels, from the bench scientist to the Laboratory Director and Assistant Administrator of EPA's Office of Research and Development, through regular Division and Laboratory meetings and briefings to the Assistant Administrator on high-profile research activities.
- Actively participated as a member of the National Exposure Research Laboratory (NERL) senior management team. Contributions included: co-writing a laboratory research framework for exposure science and exposure research; planning and successfully executing a scientific workshop on the exposure reconstruction research initiative; and preparing a comprehensive division-level business plan, which served as an example for other divisions within the Agency.
- Served as the Deputy Ethics Official for the Division and as the Institutional Official for the facility-wide Institutional Animal Care and Use Committee.

BRANCH CHIEF, GS-1530-15	4/2002 - 12/2004
U.S. EPA Office of Research and Development	
Ecosystem Research Branch	Hours per week: 40
26 West Martin Luther King Drive, Cincinnati, OH 45268	May contact supervisor: Yes
Supervisor: Jewel Morris, 919-541-2107	

Responsible for management of all Branch activities and personnel.

- Provided leadership in research planning and direction to ensure a program capable of meeting clients' needs and addressing emerging issues within the Agency and the larger scientific community.
- Secured and administered the resources necessary to perform research activities and implement the organization's mission.
- Represented the Branch and its research in planning meetings at the Laboratory level and marketed Branch research to internal and external EPA customers.
- Responsible for employee hiring, mentoring, and career development.
- Provided technical advice and review on Branch research projects.

STATISTICIAN, GS-1530-14

U.S. EPA Office of Research and Development

Ecosystem Research Branch

26 West Martin Luther King Drive, Cincinnati, OH 45268 Supervisor: Susan Cormier, 513-569-7995 9/1998 - 3/2002

Hours per week: 40 May contact supervisor: Yes

Provided statistical support for Branch- and Division-level research and initiatives.

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- Assisted in research on bioindicator development and identification of potential stressors to the biological integrity of streams.
- Served as a Work Assignment Manager on an extramural contract.
- Interacted with states and regions via opportunities for technical transfer and through research collaboration as a co-investigator.
- Provided technical support to the Program Office on statistical issues associated with bioassessment and biomonitoring.

STATISTICIAN, GS-1530-13

U.S. EPA Office of Research and Development National Water Quality Assurance Program Branch 26 West Martin Luther King Drive, Cincinnati, OH 45268 Supervisor: Robert Graves, 513-569-7488 6/1990 - 8/1998

Hours per week: 32 May contact supervisor: Yes

Provided statistical support and review of Branch- and Division-level research projects.

- Conducted research to assess the viability of existing quality assurance, quality control, and statistical procedures for evaluating single- and multi-laboratory data generated in formal method validation and laboratory evaluation studies, developing new procedures when necessary.
- Provided statistical support for research conducted within the Branch and, by special request, within the Division and Laboratory, including experimental design application, data analysis, and preparation and review of publications and other deliverables.
- Provided statistical advice, review, and assistance in the preparation of Division products and outputs/deliverables.
- Provided statistical support in the form of evaluations and special reports to the Laboratory's upper management team, as requested.
- Provided statistical support to the Alternate Test Procedure program for chemical and microbiological methods.

STATISTICIAN	9/1984 - 5/1990
Computer Sciences Corporation	
26 West Martin Luther King Dr., Cincinnati, OH 45268	Hours per week: 32
Supervisor: John Menkedick, phone unknown	May contact supervisor: Yes

Served as an on-site statistical support contractor at the U.S. EPA-Cincinnati.

- Provided assistance on statistical elements of U.S. EPA research, including experimental design, data analysis, graphics, and preparation of statistical materials for publication.
- Supervised statistical support contract group, tracking projects, setting priorities, reviewing results, and planning for future statistical needs of the EPA research program.

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BIOSTATISTICS ANALYST

Merrell-Dow Research Institute 2110 East Galbraith Road, Cincinnati, OH 45215 Supervisor: Lyman Ott, phone unknown 1/1982 - 8/1984

Hours per week: 40 May contact supervisor: Yes

Responsible for verification of clinical trial data.

- Proficiently used SAS and SAS Graphics to prepare data tables and graphical displays for statistical reports.
- Reviewed protocols and case report forms.

SELECT JOB-RELATED TRAINING -

- U.S. EPA Project Management Basics Workshop, 10/2006
- ♦ U.S. Office of Personnel Management Federal Executive Institute: Leadership for a Democratic Society, 7/2006
- U.S. EPA Ethics Conference, 11/2005
- U.S. Office of Personnel Management Supervisory Leadership Seminar, 8/2005
- U.S. EPA Civil Rights Training for Supervisors, 2/2004

- SELECT PUBLICATIONS —

Stolfi, A., F. Fulk, T. Reponen, T. Hilbert, D. Brown, and E. Haynes. 2021. AERMOD modeling of ambient manganese for residents living near a ferromanganese refinery in Marietta, OH, USA. Environmental Monitoring and Assessment. doi 10.1007/s10661-021-09206-8.

Fulk, F., P. Succop, T. Hilbert, C. Beidler, D. Brown, T. Reponen, and E. Haynes. 2017. Pathways of inhalation exposure to manganese in children living near a ferromanganese refinery: A structural equation modeling approach. Science of Total Environment. doi 10.1016/j.scitotenv.2016.11.30.

Burke, T., W. Cascio, D. Costa, K. Deener, T. Fontaine, F. Fulk, L. Jackson, W. Munns, J. Orme-Zavaleta, M. Slimak, and V. Zartarian. 2017. Rethinking Environmental Protection: Meeting the Challenges of a Changing World. Environmental Health Perspectives. doi 10.1289/EHP1465.

Eiffert, S., Y. Noibi, S. Vesper, J. Downs, F. Fulk, J. Wallace, M. Pearson, and A. Winquist. 2016. A Citizen-Science Study Documents Environmental Exposures and Asthma Prevalence in Two Communities. Journal of Environmental and Public Health. doi 10.1155/2016/1962901.

Fulk, F., E. Haynes, T. Hilbert, D. Brown, D. Petersen, and T. Reponen. 2016. Comparison of stationary and personal air sampling with air dispersion model for children's ambient exposure to manganese. Journal of Exposure Science and Environmental Epidemiology. 26: 494-502.

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Pope, S., J. Rhodus, F. Fulk, B. Mintz, and S. O'Shea. 2016. The Health Impact Assessment Resources and Tool Compilation: A Comprehensive Toolkit for New and Experience HIA Practitioners in the U.S. EPA/600/R-15/330. U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C.

Vesper, S., R. Prill, L. Wymer, L. Adkins, R. Williams, and F. Fulk. 2015. ERMI analysis of mold contamination in schools with either high or low prevalence of asthma. Pediatric Allergy and Immunology. doi 10.1111/pai.12324.

Adkins, L., T. Baugh, D. Egetter, F. Fulk, I. Garcia de Quevedo Landa, A. Hall, M. Marcus-Rushing, N. Osborne Jelks, A. Prues, J. Rhodus, M. Robinson, C. Rutt, and T. Thomas-Burton. 2015. Proctor Creek's Boone Boulevard Green Street Project Health Impact Assessment (HIA), Atlanta, Georgia. EPA/600/R-14/400. U.S. Environmental Protection Agency, Office of Research and Development and Region 4, Washington, D.C.

Rhodus, J.R., F. Fulk, B. Autrey, S. O'Shea, and A. Roth. 2013. A Review of Health Impact Assessments in the U.S.: Current State-Of-Science, Best Practices, and Areas for Improvement. U.S. Environmental Protection Agency, Cincinnati, OH.

Hendryx, M., Fulk, F. and McGinley, A. 2012. Public Drinking Water Violations in Mountaintop Coal Mining Areas of West Virginia, USA. Water Quality Exposure and Health. doi 10.1007/s12403-012-0075-x.

Rhodus, J.R. and F. Fulk. 2008. Workshop Report, Exposure Reconstruction: A Common Understanding and Foundation for NERL Research. U.S. Environmental Protection Agency, Cincinnati, OH.

Sheldon, L., R. Araujo, F. Fulk, and F. Hauchman. 2008. Exposure concepts for environmental management. EM Magazine July 2008:8–12.

Fulk, F., M. Morgan, and J. Kenneke. 2008. Exposure Reconstruction: A Framework for Advancing Exposure Assessment. EM Magazine July 2008:39–41.

Klemm, D.J., K.A. Blocksom, F.A. Fulk, A.T. Herlihy, R.M. Hughes, P.R. Kaufmann, D.V. Peck, J.L. Stoddard, W.T. Thoeny, M.B. Griffith, and W.S. Davis. 2003. Development and evaluation of a macroinvertebrate biotic integrity index (MBII) for regionally assessing Mid-Atlantic Highlands streams. Environmental Management 31(5):656–669.

Fulk, F.A., B. Autrey, J. Hutchens, J. Gerritsen, J. Burton, C. Cresswell, and B. Jessup. 2003. Ecological Assessment of Streams in the Coal Mining Region of West Virginia Using Data Collected by the U.S. EPA and Environmental Consulting Firms. U.S. Environmental Protection Agency, Office of Research and Development, Cincinnati, OH.

Blocksom, K.A., J.P. Kurtenbach, D.J. Klemm, F.A. Fulk, and S.M. Cormier. 2002. Development

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and evaluation of the Lake Macroinvertebrate Integrity Index (LMII) for New Jersey lakes and reservoirs. Environmental Monitoring and Assessment 77(3):311–333.

Klemm, D.J., K.A. Blocksom, W.T. Thoeny, F.A. Fulk, A.T. Herlihy, P.R. Kaufmann, and S.M. Cormier. 2002. Methods development and use of macroinvertebrates as indicators of ecological conditions for streams in the Mid-Atlantic Highlands Region. Environmental Monitoring and Assessment 78(2):169–212.

Fulk, F.A. and S.M. Cormier. 2001. A Survey of Fish Contamination in Small Wadeable Streams in the Mid-Atlantic Region. EPA/600/R-00/107. U.S. Environmental Protection Agency, Washington, DC.

Senay, G., N.A. Shafique, B.C. Autrey, F. Fulk, and S.M. Cormier. 2001. The Selection of Narrow Wavebands for Optimizing Water Quality Monitoring on the Great Miami River, Ohio using Hyperspectral Remote Sensing Data. Journal of Spatial Hydrology 1(1). (www.spatialhydrology.com/journal/paper/epa/hyperspectral.pdf).

Shukla, R., Q. Wang, F.A. Fulk, C. Deng, and D. Denton. 2000. Bioequivalence Approach for Whole Effluent Toxicity Testing. Environmental Toxicology and Chemistry 19(1):169–174.

- SELECT PRESENTATIONS -

Fulk. F. Health Impact Assessment of the Boone Boulevard Green Street Project in the Proctor Creek Watershed of Atlanta. National Environmental Health Association Conference, San Antonio, TX, June 15, 2016.

Fulk, F., S. Pope, and S. Griffin. Health Impact Assessment Workshop EPA Region 3, Dover, DE, June 21, 2016.

Fulk, F. Health Impact Assessment: Linking Public Health to Community Decisions. American Society of State and Territorial Health Officials webinar, February 18, 2016.

Fulk, F. Health Impact Assessment of the Boone Boulevard Green Street Project in the Proctor Creek Watershed of Atlanta. American Public Health Association National Meeting, Chicago, IL, November 2, 2015.

Fulk, F., Dills, J., Egetter, D., Jones, Y., and T. Thomas-Burton. Health Impact Assessment: Engaging Communities in Local Decisions. U.S. EPA Community Involvement Training Conference, Atlanta, GA, August 5, 2015.

Adkins, L., A. Prues, A. Hall, J. Rhodus, and F. Fulk. Using GIS in HIA. Third Annual National Health Impact Assessment Meeting, Washington, DC, June 16-17, 2015.

Fulk, F. and J. Rhodus. Health impact assessment (HIA): Linking public health to community decisions. Environmental Council of the States ORD Tools Café, Narragansett, RI, August 30, 2015.

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Fulk, F. and J. Rhodus. Health impact assessment (HIA): Six steps to factoring health into decision-making. Environmental Council of the States ORD Tools Café, Narragansett, RI, August 30, 2015.

Rhodus, J. and F. Fulk. The time is now: advancing the practice of HIA at the state, regional, and federal levels. Third Annual National Health Impact Assessment Meeting, Washington, DC, June 16-17, 2015.

Pope, S., J. Rhodus, and F. Fulk. The HIA Resource and Tool Compilation: a comprehensive toolkit for HIA practitioners in the U.S. Third Annual National Health Impact Assessment Meeting, Washington, DC, June 16-17, 2015.

Prues, A., A. Hall, F.A. Fulk, L. Adkins, and J. Rhodus. GIS in health impact assessments. 2014 Annual ESRI International User Conference, San Diego, CA, July 14-18, 2014.

Rhodus, J., L. Adkins, and F. Fulk. NY Hurricane Sandy recovery health impact assessment training. Queens, NY, January 14–15, 2014.

Rhodus, J., L. Adkins, and F. Fulk. Health impact assessment training. Cincinnati, OH, October 9–10, 2014.

Adkins, L., F. Fulk, T. Thomas-Burton. Proctor Creek's Boone Boulevard Green Street Project Health Impact Assessment Scoping: learning by doing. Second Annual National Health Impact Assessment Meeting, Washington, DC, September 24–25, 2013.

Rhodus, J., F. Fulk, B. Autrey, S. O'Shea, and A. Roth. A review of health impact assessments in the U.S.: current state-of-science, best practices, and areas for improvement. Second Annual National Health Impact Assessment Meeting, Washington, DC, September 24–25, 2013.

Zartarian, V., F. Fulk, and J. Rhodus. C-FERST and other EPA tools: facilitating community decision-making and informing HIA assessments. Second Annual National Health Impact Assessment Meeting, Washington, DC, September 24–25, 2013.

Rhodus, J., F. Fulk, and B. Autrey. Health impact assessment review: A framework for determining the current state-of-science and areas for improvement. First Annual National Health Impact Assessment Meeting, Washington, DC, April 3–4, 2012.

Exposure Biomarkers and Their Utility in Reconstructing Exposures for Humans and Ecosystems. 17th Annual International Society of Exposure Analysis Conference, Durham, NC, October 14 - 18, 2007.

Regional Partnerships: ORD's Link to Environmental Outcomes. ORD and Regional Workshop on Successful Collaborations, Cincinnati, OH, October 19, 2006.

Aquatic Impacts Study of Mountaintop Mining and Valley Fill Operations In West Virginia. Annual Meeting of the Ohio Valley Regional Chapter of SETAC, Columbus, OH, May 13 – 14,

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2004.

EPA: The Agency, The Public and The Science. 13th Annual Westheimer Peace Symposium, Wilmington, OH, October 29, 2003.

Overview of Statistics Used in Environmental Decision Making. Invited Lecture, University Of Cincinnati, College of Engineering, Cincinnati, OH, May 2001.

Hyperspectral Technique As An Indicator Of Eutrophication And Sediment Load For Deep Rivers. 21st Annual Meeting of Society of Environmental Toxicology and Chemistry, Nashville, TN, November 12 - 16, 2000.