

Michael W. Jones
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Aquatic Ecology Technician
Environmental Sciences Division
Oak Ridge National Laboratory
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EDUCATION

BS 2008 Tennessee Tech University; Environmental Biology (Fisheries Concentration)
AS 2005 Roane State Community College; Biology

PROFESSIONAL EXPERIENCE

8/2013 - Present **Aquatic Ecology Technician, Oak Ridge National Laboratory**

- My primary role is to assist on all projects associated with the Ecological Assessment Group in both a field and lab setting. This includes collecting and processing of fish for contaminant analysis, collecting and processing of fish and macroinvertebrates for population estimates, and collecting and processing of water samples for contaminant analysis.
- PI Delegate - Boating and Trailing
- PI Delegate - Field Research on the Bioaccumulation and Biogeochemistry of Contaminants
- PI Delegate – Animal Care and Use Committee Bioaccumulation Protocol
- Lab Space Manager
 - Building 1504, Lab 11
 - Building 1504, Lab 8
 - Building 1521, Room 109
- Shipping Coordinator for Biodiversity and Ecosystem Health Group
- Prepare reports for sponsors on bioaccumulation studies

2/2006 - 8/2013 **Aquatic Ecologist / Fisheries Biologist, TVA**

- Eight years experience as a benthic and fisheries taxonomist on an Index of Biotic Integrity (IBI) crew throughout the Tennessee River valley
- Crew leader and benthic taxonomist for three seasons of reservoir benthics in support of the Reservoir Fisheries Assemblage Index (RFAI) throughout the Tennessee River valley
- Crew leader and fisheries taxonomist for two gill netting seasons in support of the RFAI program throughout the Tennessee River valley
- Crew leader and benthic taxonomist for six samples of reservoir benthics in support of the Kingston Coal-Ash Recovery project
- Assisted with the collection and processing of fish for contaminant screening for the Kingston Coal-Ash Recovery project

- Collected, processed, and cataloged fish flesh for contaminant analysis related to fish consumption advisories
- Participated in snorkel surveys locating freshwater mussels in Bear Creek, Alabama and Elk River, TN
- Performed habitat analysis on Elk River, Tennessee; Bear Creek, Alabama; Little Bear Creek, Alabama and Cedar Creek, Alabama in support of US Fish and Wildlife mussel propagation survey
- Roughly 6000 hours experience operating/trailering various-sized boats for benthic and fisheries projects

12/2008 - 5/2009

Research Assistant, Tennessee Tech University

- Responsible for the care, feeding, and maintenance of 120 federally endangered Roanoke logperch. Obtained water quality parameters such as: nitrate, nitrite, chlorine, dissolved oxygen, temperature, acidity/alkalinity, and conductivity daily to ensure health and safety of fish.
- Acted as a teachers' assistant for the ichthyology lab in both field and lab settings.
- Assisted in maintaining the University's archival fish collection and museum.
- Lived and worked at a field station in Branson, Missouri. Project was to locate and identify female state-listed Williams' crayfish, Meeks crayfish, and Ringed crayfish. Affixed crayfish with passive integrated transponders tags (PIT) and monitored for movement during reproductive stages to determine preferred habitat.

8/2008 – 12/2009

Volunteer Research Assistant, University of Tennessee

- Assisted with the care, feeding and maintenance of sicklefin redhorse being held at the University for propagation by Conservation Fisheries Inc.
- Located ashy darter, blotchside logperch, and sickle darter using snorkel surveys in Little River, Tennessee
- Participated in snorkel surveys to observe and collect salamanders in the Pigeon River, North Carolina
- Utilized minnow traps, backpack electrofishing and snorkeling to observe and collect crayfish in the Pigeon River, North Carolina

CERTIFICATIONS and QUALIFICATIONS

- Radworker I & II
- Hazwoper
- First Aid / CPR / AED / Oxygen Provider
- Department of Interior Electrofishing Safety

RELEVANT EXPERIENCE

- Over 20 scuba diving certifications including Divemaster, Master Scuba Diver, Aquanaut, and Manned Underwater Laboratory
- 14 years experience as a volunteer diver at the Tennessee Aquarium
- Nearly 500 hours of logged bottom time
- VideoRay ROV certified Pilot at NASA's Neutral Buoyancy Lab

AWARDS

Best Professional Presentation – 2021 Tennessee Chapter American Fisheries Society Annual Meeting. “Using a Collaborative Approach for Sampling Striped Bass for PCB Analysis in a Deep Reservoir While Reducing By-Catch”

PRESENTATIONS

M.W. Jones, R. T. Jett, W.K. Roy, T.J. Mathews, M.J. Peterson. “Using a Collaborative Approach for Sampling Striped Bass for PCB Analysis in a Deep Reservoir While Reducing By-Catch”. February 2021. Oral Presentation at Tennessee Chapter American Fisheries Society Annual Meeting.

M.J. Peterson (*presenting author*), **M.W. Jones**, T.J. Mathews. December 2016. “Bioaccumulation monitoring near Oak Ridge, TN; 2016 Update”. Interagency Fish Tissue Meeting. Nashville, TN.

M.W. Jones, M.D. Poteat, J.G. Morris (*presenting author*), R.T. Jett, J.G. Smith, M.J. Peterson, T.J. Mathews. November 2016. “The Effects of Food Web Complexity on Mercury Bioaccumulation in Upper Trophic Level Fish”. Poster presentation at SETAC North America Annual Meeting / SETAC World Congress. Orlando, Florida.

M.W. Jones, M.D. Poteat, J.G. Morris, R.T. Jett, J.G. Smith, M.J. Peterson, T.J. Mathews. June 2016. “The Effects of Food Web Complexity on Mercury Bioaccumulation in Upper Trophic Level Fish”. Poster presentation at Mid-South SETAC Annual Meeting. Murfreesboro, Tennessee.

M.W. Jones. March 2016. “Tennessee Striped Bass Association – 2016 Friends of Fisheries Award Winner.” Poster presentation and speech given at Tennessee Chapter American Fisheries Society Annual Meeting. Montgomery Bell State Park, Tennessee.

T.J. Mathews, R. T. Jett, B. M. Pracheil, **M.W. Jones**, C. Miller, M.J. Peterson. November 2015. “Evaluating fishery responses to remediation in a mercury-contaminated stream using mark recapture techniques.” SETAC Annual Meeting. Salt Lake City, Utah.

M.W. Jones, M.D. Poteat, J.G. Morris, R.T. Jett, J.G. Smith, M.J. Peterson, T.J. Mathews. April 2015. “The Effects of Food Web Complexity on Mercury Bioaccumulation in Upper Trophic Level Fish”. Oak Ridge National Lab / Tennessee Technological University Water-Energy Nexus Symposium. Oak Ridge National Lab.

M.W. Jones, M.D. Poteat, J.G. Morris, R.T. Jett, J.G. Smith, M.J. Peterson, T.J. Mathews.

January 2015. “The Effects of Food Web Complexity on Mercury Bioaccumulation in Upper Trophic Level Fish”. Poster presentation at Southern Division American Fisheries Society Annual Meeting. Savannah, Georgia.

M.W. Jones. February 2014. Panel discussion with the Graduate Research in Ecology, Behavior and Evolution (GREBE) student group at the University of Tennessee.

M.W. Jones. August 2013. “Fishes of the Oak Ridge Reservation”. Poster. Oak Ridge National Laboratory.

M.W. Jones. June 2013. “Going with the flow : the life and times of an aquatic ecologist”. Oak Ridge National Laboratory.

PUBLICATIONS

M.W. Jones, N.J. Jones, R.T. Jett, T.J. Mathews, K.A. Lowe, J. Baker. “Field Report for the Evaluation of Polychlorinated Biphenyls in Fish and SPMDs Near the US Department of Energy Kansas City Plant, Summer 2021.” ORNL/LTR-2021/2192. September 2021.

T.J. Mathews, P.G. Matson, L.M. Stevenson, N.J. Jones, **M.W. Jones**, N.A. Griffiths. “Assessment of Containment Bioaccumulation in Aquatic Biota on and Adjacent to the Oak Ridge Reservation – 2020.” ORNL/TM-2021/1891. September 2021.

T.J. Mathews, R.T. Jett, N.A. Griffiths, P.G. Matson, N.J. Jones, A.M. Fortner, **M.W. Jones**, C.R. Derolph. “East Tennessee Technology Park Biological Monitoring and Abatement Program – 2021 Fiscal Year Report” ORNL/SPR-2021/2161. September 2021.

T.J. Mathews, R.T. Jett, N.A. Griffiths, J.M. Herold, A.M. Fortner, N.J. Jones, **M.W. Jones**, S.E. Darling, E. Carter. “Operational and Performance Monitoring of East Tennessee Technology Park Ponds – 2021 Results” ORNL/TM-2021/2276. September 2021.

S.C. Brooks, T.J. Mathews, R.T. Jett, B.M. Pracheil, **M.W. Jones**, A.M. Fortner, K.A. Lowe. “Rogers Quarry Special Studies Report 2021” ORNL/SPR-2021/2163. September 2021.

P.G. Matson, L.M. Stevenson, N.A. Griffiths, C.R. Derolph, R.T. Jett, A.M. Fortner, **M.W. Jones**, N.J. Jones, T.J. Mathews. “Multidecadal Biological Monitoring and Abatement Program Assessing Human Impacts on In-stream Aquatic Ecosystems Within the Oak Ridge Reservation in Eastern Tennessee, USA.” *Hydrological Processes*. Published August 2021.

T.J. Mathews, R.T. Jett, N.A. Griffiths, P.G. Matson, A.M. Fortner, **M.W. Jones**, N.J. Jones, C.R. Derolph. “East Tennessee Technology Park Biological Monitoring and Abatement Program – 2020 Calendar Year Report” ORNL/TM-2020/1887. January 2021

T.J. Mathews, R.T. Jett, N.A. Griffiths, N.J. Jones, A.M. Fortner, **M.W. Jones**, C.R. Derolph, P.G. Matson. “East Tennessee Technology Park Biological Monitoring and Abatement Program – 2020 Fiscal Year Report” ORNL/SPR-2020/1578. September 2020.

T.J. Mathews, R.T. Jett, N.A. Griffiths, J.M. Herold, A.M. Fortner, N.J. Jones, **M.W. Jones**, S.E. Darling, E. Carter. "Operational and Performance Monitoring of East Tennessee Technology Park Ponds – 2020 Results" ORNL/LTR-2020/32. September 2020.

B.M. Pracheil, S.C. Brooks, T.J. Mathews, R.T. Jett, **M.W. Jones**, A.M. Fortner, K.A. Lowe. "Rogers Quarry Special Studies Report 2020" ORNL/SPR-2020/1575. September 2020.

T.J. Mathews, N.A. Griffiths, R.T. Jett, N.J. Jones, **M.W. Jones**, A.M. Fortner, L.M. Stevenson, P.G. Matson. "Y-12 National Security Complex Biological Monitoring and Abatement Program – 2019 Calendar Year Report" ORNL/SPR-2020/1562. July 2020.

T.J. Mathews, R.T. Jett, N.A. Griffiths, A.M. Fortner, **M.W. Jones**, N.J. Jones, C.R. Derolph, M.J. Peterson. "East Tennessee Technology Park Biological Monitoring and Abatement Program – 2019 Calendar Year Report" ORNL/SPR-2019/1412. January 2020.

Chu R K ; Goldman A E ; Brooks S C ; Danczak R E ; Garayburu-Caruso V A ; Graham E B ; **Jones M** ; Jones N ; Lin X ; Morad J W ; Ren H ; Renteria L ; Resch C T ; Tffaly M ; Tolic N ; Toyoda J G ; Wells J R ; Stegen J C: "WHONDRS 48 Hour Diel Cycling Study at the East Fork Poplar Creek in Tennessee, USA." Worldwide Hydrobiogeochemistry Observation Network for Dynamic River Systems (WHONDRS). doi:10.15485/1577278. 2019.

T.J. Matthews, D.G. Mattie, G.W. Morris, A.M. Fortner, R.T. Jett, **M.W. Jones**, N.J. Jones, C.R. Derolph, M.J. Peterson. "Oak Ridge National Laboratory Toxicity Identification/Reduction Evaluation for the Y-12 National Security Complex Outfall 200." ORNL/TM-2019/1268. September 2019.

M.J. Peterson, T.J. Mathews, B.M. Pracheil, N.J. Jones, A.M. Fortner, **M.W. Jones**, N. Griffiths. "ORNL Progress Report for the TVA-Kingston Project, FY 2019" ORNL/LTR-2019/1224. September 2019.

M.J. Peterson, T.J. Mathews, R.T. Jett, B.M. Pracheil, S.C. Brooks, **M.W. Jones**, A.M. Fortner, K.A. Lowe. "Rogers Quarry Special Studies Report 2019" ORNL/SPR-2019/1099. September 2019.

T.J. Mathews, R.T. Jett, N.A. Griffiths, J.M. Herold, A.M. Fortner, N.J. Jones, **M.W. Jones**, B.J. Guge, S.E. Darling, E. Carter, E.E. Tobin, A.J. Turner, M.J. Peterson. "Operational and Performance Monitoring of East Tennessee Technology Park Ponds – 2019 Results" ORNL/LTR-2019/1079. September 2019.

M.J. Peterson, R.T. Jett, T.J. Mathews, **M.W. Jones**, A.M. Fortner, N.J. Jones. "East Tennessee Technology Park Biological Monitoring and Abatement Program 2019 Fiscal Year Report" ORNL/SPR-2019/1244. September 2019.

M.J. Peterson, T.J. Mathews, R.A. McManamay, R.T. Jett, N.J. Jones, J.G. Morris, **M.W. Jones**, A.M. Fortner, G.W. Morris. "Y-12 National Security Complex Biological Monitoring and Abatement Program – 2018 Calendar Year Report" ORNL/SPR-2019/1176. July 2019.

M.J. Peterson, R.T. Jett, T.J. Mathews, R.A. McManamay, A.M. Fortner, **M.W. Jones**, N.J. Jones, J.G. Morris. "East Tennessee Technology Park Biological Monitoring and Abatement Program, 2018 Calendar Year Report" ORNL/SPR-2019/1076. January 2019.

M.J. Peterson, **M.W. Jones**, R.T. Jett, N.J. Jones, C. Brandt, T.J. Mathews, C.R. Derolph. "Evaluation of PCBs in Fish from Indian Creek and the Blue River: DOE Kansas City Plant Studies – 2017 Update" ORNL /SPR-2019/1064. January 2019.

M.J. Peterson, T.J. Mathews, R.T. Jett, R.A. McManamay, J.M Herold, A.M. Fortner, **M.W. Jones**, S.E. Darling, E.E. Tobin. "Operational and Performance Monitoring of ETTP Ponds - 2018 Results." ORNL/LTR-2018/911. September 2018.

M.J. Peterson, R.T. Jett, T.J. Mathews, **M.W. Jones**, A.M. Fortner, R.A. McManamay, N.J. Jones. "East Tennessee Technology Park Biological Monitoring and Abatement Program 2018 Fiscal Year Report." ORNL/SPR-2018/903. September 2018.

S.C. Brooks, T.J. Mathews, M.J. Peterson, N.J. Jones, **M.W. Jones**, K. A. Lowe, J.G. Morris, R.T. Jett. "Bear Creek Special Studies Report 2018." ORNL/SPR-2018/909. September 2018.

M.J. Peterson, T.J. Mathews, R.T. Jett, B.M. Pracheil, S.C. Brooks, K.A. Lowe, A.M. Fortner, N.J. Jones, **M.W. Jones**. "Rogers Quarry Special Studies Report." ORNL/SPR-2018/904. September 2018.

M.J. Peterson, T.J. Mathews, B.M. Pracheil, R.A. McManamay, J.G. Smith, M.S. Greeley, A.M. Fortner, G.W. Morris, **M.W. Jones**, R.T. Jett, C. Brandt, N.J. Jones. "2018 ORNL Progress Report for the TVA-Kingston Project." ORNL/SPR-2018/902. September 2018.

J.G. Smith, T.J. Mathews, M. J. Peterson, N.J. Jones, **M.W. Jones**, C.L. Standish. "Biouptake of Mercury by Lower East Fork Poplar Creek Floodplain Invertebrates." ORNL/TM-2018/928. September 2018.

M.J. Peterson, T.J. Mathews, R.A. McManamay, R.T. Jett, N.J. Jones, **M.W. Jones**, A.M. Fortner, G.W. Morris. Y-12 National Security Complex Biological Monitoring and Abatement Program – 2017 Calendar Year Report. ORNL/SPR-2018/886. July 2018.

M.J. Peterson, et. al. Mercury Remediation Technology Development for Lower East Fork Poplar Creek – 2017 Progress Report. ORNL/TM-2017/480. July 2018.

M.J. Peterson, R.T. Jett, T.J. Mathews, R.A. McManamay, J.G. Smith, A.M. Fortner, **M.W. Jones**, N.J. Jones. "East Tennessee Technology Park Biological Monitoring and Abatement Program – 2017 Calendar Year Report." ORNL/SPR-2017/581. March 2018.

M.J. Peterson, R.T. Jett, **M.W. Jones**, N.J. Jones, M. Stites. "Field Report for the Evaluation of Polychlorinated Biphenyls in Fish and SPMDs Near the US Department of Energy Kansas City Plant, Summer 2017." ORNL/LTR-2017/475. September 2017.

M.J. Peterson, R.T. Jett, T.J. Mathews, **M.W. Jones**, A.M. Fortner, R.A. McManamay, N.J. Jones. "East Tennessee Technology Park Biological Monitoring and Abatement Program 2017 Fiscal Year Report." ORNL/SR-2017/481. September 2017.

M.J. Peterson, S.C. Brooks, T.J. Mathews, N.J. Jones, **M.W. Jones**, K.A. Lowe, J. McCurdy, J.G. Morris, R.T. Jett. "Bear Creek Special Studies Report 2017." ORNL/SPR-2017/516. September 2017.

M.J. Peterson, T.J. Mathews, R.T. Jett, B.M. Pracheil, S.C. Brooks, M.S. Greeley, **M.W. Jones**. “Rogers Quarry Special Studies Report 2017.” ORNL/SPR-2017/517. September 2017.

M.J. Peterson, T.J. Mathews, R.T. Jett, J.M Herold, W.K. Roy, A.M. Fortner, **M.W. Jones**. “Operational and Performance Monitoring of the K-1007-P1 Pond Summary of FY 2017 Results.” ORNL/LTR-2017/477. September 2017.

M.J. Peterson, M.S. Greeley, T.J. Mathews, B.M. Pracheil, J.G. Smith, R.A. McManamay, A.M. Fortner, **M.W. Jones**, C.Brandt, N.J. Jones. “2017 ORNL Progress Report for the TVA-Kingston Project.” ORNL/SPR-2017/488. September 2017.

M.J. Peterson, R.T. Jett, T.J. Mathews, R.A. McManamay, J.G. Smith, A.M. Fortner, **M.W. Jones**, N.J. Jones. “East Tennessee Technology Park Biological Monitoring and Abatement Program – 2016 Calendar Year Report.” ORNL/SR-2017/62. January 2017.

M.J. Peterson, R.T. Jett, T.J. Mathews, **M.W. Jones**, A.M. Fortner, J.G. Smith, G.W. Morris, W.K. Roy. “East Tennessee Technology Park Biological Monitoring and Abatement Program 2016 Fiscal Year Report.” ORNL/SR-2016/506. September 2016.

M.J. Peterson, J.G. Smith, T.J. Mathews, R.T. Jett, W.K. Roy, **M.W. Jones**, A.M. Fortner. “Operational and Performance Monitoring of the K-1007-P1 Pond Summary of FY 2016 Results.” ORNL/SR-2016/505. September 2016.

M.J. Peterson, M.S. Greeley, R.T. Jett, T.J. Mathews, J.G. Smith, A.M. Fortner, **M.W. Jones**. “East Tennessee Technology Park Biological Monitoring and Abatement Program – 2015 Calendar Year Report.” ORNL/SPR-2016. January 2016.

2016 Remediation Effectiveness Report for the U.S. Department of Energy – Oak Ridge Reservation. DOE/OR/01-2707&D2

J.G. Smith, T.J. Mathews, M.J. Peterson, N.J. Jones, **M.W. Jones**. “Assessment of Contaminant Bioaccumulation in Aquatic Biota on and Adjacent to the Oak Ridge Reservation – 2015.” ORNL/TM-2016/133. March 2016.

M.J. Peterson, G. R. Southworth, **M.W. Jones**, M. E. Stites. “Food chain accumulation of PCBs and dioxin-like biphenyls in an urban stream.” ORNL Summary Report. August 2015.

2015 Remediation Effectiveness Report for the U.S. Department of Energy – Oak Ridge Reservation. DOE/OR/01-2675&D2

M.J. Peterson, M.S. Greeley, R.T. Jett, T.J. Mathews, A. M. Fortner, **M.W. Jones**. “East Tennessee Technology Park Biological Monitoring and Abatement Program - 2014 Calendar Year Report.” ORNL/SPR-2015/43. January 2015.

M.J. Peterson, S.C. Brooks, T.J. Mathews, M. Mayes, A. Johs, J.H. Kidder, D.B. Watson, M.D. Poteat, **M.W. Jones**, J.G. Morris, E. Pierce. “Mercury Remediation Technology Development for East Fork Poplar Creek—FY 2014 Progress Report.” ORNL/LTR-2014/504. September 2014.

2013 Remediation Effectiveness Report for the U.S. Department of Energy – Oak Ridge Reservation. DOE/OR/01-2594&D2

