**Michael J. Lawson**

**Education and Training**

Ph.D., Mechanical Engineering, The Pennsulvania State Uiversity, 2010

M.S., Mechanical Engineering, Virginia Tech, 2006

B.S., Mechanical Engineering, Virginia Tech, 2005

**Professional Experience**

* 2018-Present: Senior Scientist

Wind and Water Power Program. National Renewable Energy Laboratory. Boulder, CO

* 2015-2017: Technical Advisor (Management & Operations Contractor)

Wind and Water Power Technologies Office. U.S. Department of Energy. Washington, D.C.

* 2012-2014: Scientist

Water Power Program. National Renewable Energy Laboratory. Boulder, CO

* 2010-2012: Postdoctoral Researcher

Water Power Program. National Renewable Energy Laboratory. Boulder, CO

**Publications**

* Lawson, M, Jenne, D. Thresher, R., Houck, D. In Preparation - Expected 2018, "Wind Turbines and Bat Mortality: Investigating the Bat Barotrauma from an Aerodynamics Perspective", Planned Submission to: PLOS One
* Fleming, P, Annoni, J., Churchfield, M., Martinez, T., Gruchalla, K., Lawson, M., 2017, "From wake steering to flow control", Wind Energy Sciences, <https://doi.org/10.5194/wes-3-243-2018>.
* Tom N., Lawson, M., Yu, Y., Wright, A., 2016. "Spectral Modeling of an Oscillating Surge Wave Energy Converter with Control Surfaces". Applied Ocean Research, <https://doi.org/10.1016/j.apor.2016.01.006>.
* Tom N., Lawson, M., Yu, Y., Wright, A., 2016. "Development of a Nearshore Oscillating Surge Wave Energy Converter with Variable Geometrys". Renewable Energy, <https://doi.org/10.1016/j.renene.2016.04.016>.
* Lawson, M., Barahona Garzon, B., Wendt, F., Yu, Y., Michelen, C., 2016. "COER Hydrodynamic Modeling Competition: Modeling the Dynamic Response of a Floating Body Using the WEC-Sim and FAST Simulation Tools". Proceedings of the ASME 35th International Conference on Ocean, Offshore and Arctic Engineering, Paper No. OMAE2015-42288, <https://doi.org/10.1115/OMAE2015-42288>.
* Tom N., Yu, Y., Wright, A., Lawson, M., 2016. "Balancing Power Absorption and Fatigue Loads in Irregular Waves for an Oscillating Surge Wave Energy Converter". Proceedings of the ASME 35th International Conference on Ocean, Offshore and Arctic Engineering, Paper No. OMAE2016-55046, <https://doi.org/10.1115/OMAE2016-55046>.
* V. Neary, M. Previsic, R. Jepsen, M. Lawson, Y. Yu, A. Copping, A. Fontaine, K. Hallett, D. Murray, 2014. "Methodology for Design and Economic Analysis of Marine Energy Conversion (MEC) Technologies". SAND2014-9040, https://energy.sandia.gov/download/23111/.

**Synergistic Activities**

* Performed research on bat interactions wind wind turbines from and aerodynamics perspective using computational fluid dynamics simulations.