**W. Robert Nettles**

SPRUCE Project Operations Manager

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**Education and Training**

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| 2015200119992015201420142013201420132013 | Project Management Professional (PMP), Project Management InstituteMississippi State University, College of Forest Resources, MSMississippi State University, College of Forest Resources, BSProject Management Fundamentals (ORNL/New Horizons)Campbell Scientific Integrator CertificationNATE Certified Competent Tower ClimberCampbell Scientific CR1000 CertifiedeHazard Electrical Workplace Safety Certified NFPA 70E Electrical Workplace Safety CertifiedUSFS S212-Wildland Fire Power Saw Certified |
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**Research and Professional Experience**

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| 2012-Present | SPRUCE Project Operations Manager, Oak Ridge National Laboratory |
| 2005-2012 | Environmental Sciences Associate III (FACE Experiment Operations Manager), Brookhaven National Laboratory  |
| 2002-2005 | Environmental Research Technician, Duke University / Princeton University  |

**Publications and Data Sets**

1. Lewin, KF Nagy, J, Robert Nettles, WR, Cooley, DM and Rogers, A (2009), Comparison of gas use efficiency and treatment uniformity in a forest ecosystem exposed to elevated [CO2] using pure and prediluted free-air CO2 enrichment technology. Global Change Biology, 15: 388–395. doi: 10.1111/j.1365-2486.2008.01748.x
2. Krassovski MB, Riggs JS, Hook LA, Nettles WR, Boden TA, Hanson PJ (2015) A comprehensive data acquisition and management system for an ecosystem-scale peatland warming and elevated CO2 experiment. *Geoscientific Instrumentation Methods and Data Systems* 4:203–213, doi:10.5194/gi-4-203-2015
3. Hanson PJ, Riggs JS, Nettles WR, Phillips JR, Krassovski MB, Hook LA, Gu L, Richardson AD, Aubrecht DM, Ricciuto DM, Warren JM, Barbier C (2017) Attaining whole-ecosystem warming using air and deep soil heating methods with an elevated CO2 atmosphere. *Biogeosciences* 14: 861–883, doi: 10.5194/bg-14-861-2017
4. Richardson AD, Hufkens K, Milliman T, Aubrecht DM, Furze ME, Seyednasrollah B, Krassovski MB, Latimer JM, Nettles WR, Heiderman RR, Warren JM, Hanson PJ (2018) Ecosystem warming extends vegetation activity but heightens cold temperature vulnerability. *Nature* 560:368-371, doi: 10.1038/s41586-018-0399-1.
5. Heiderman RR, Nettles WR, Ontl TA, Latimer JM, Richardson AD, Hanson PJ (2018) **SPRUCE Manual Phenology Observations and Photographs Beginning in 2010.** Oak Ridge National Laboratory, TES SFA, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
6. Hanson, P.J., J.R. Phillips, Stan D. Wullschelger, W. Robert Nettles, Jeffrey M. Warren, Eric J. Ward. 2018. **SPRUCE Tree Growth Assessments of *Picea*and *Larix* in S1-Bog Plots and SPRUCE Experimental Plots beginning in 2011.**Oak Ridge National Laboratory, TES SFA, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
7. Hanson, P.J., J.R. Phillips, J.S. Riggs, and W.R. Nettles. 2017. **SPRUCE Large-Collar In Situ CO2 and CH4 Flux Data for the SPRUCE Experimental Plots: Whole-Ecosystem-Warming.** Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
8. Richardson, A.D., J.M. Latimer, W.R. Nettles, R.R. Heiderman, J.M. Warren, and P.J. Hanson. 2018. **SPRUCE Ground Observations of Phenology in Experimental Plots, 2016-2017**. Oak Ridge National Laboratory, TES SFA, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
9. Hanson PJ, Riggs JS, Nettles WR, Krassovski MB, Hook LA (2016) **SPRUCE Whole Ecosystems Warming (WEW) Environmental Data Beginning August 2015**. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
10. Hanson, P.J., J.S. Riggs, C. Dorrance, W.R. Nettles, and L.A. Hook. 2015. **SPRUCE Environmental Monitoring Data: 2010-2016**. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
11. Hanson, P.J., J.R. Phillips, J.S. Riggs, W.R. Nettles, and D.E. Todd. 2014. **SPRUCE Large-Collar In Situ CO2 and CH4 Flux Data for the SPRUCE Experimental Plots.** Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.
12. Hanson, P.J., Riggs, J.S., Nettles, W.R., Krassovski, M.B., and Hook, L.A. 2015. **SPRUCE Deep Peat Heating (DPH) Environmental Data, February 2014 through July 2015**. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A.

**Selected Awards and Honors**

ORNL ESD Outstanding Research Support Award

ORNL Significant Achievement Award

BNL Spotlight Achievement Award