



Brian Slater, Professor

Extension Appointment: Soil Resources

Contact Information (tel) 614-292-7315 • slater.39@osu.edu



Website(s): <http://setll.osu.edu>

EDUCATION

- B.Agr.Sc. 1979 University of Queensland, Brisbane, Australia. Major: Land Resources.
- M.Agr.Sc. 1986 University of Queensland, Brisbane, Australia. Major: Soil Science.
- Ph.D. 1994. University of Wisconsin-Madison. Major: Soil Science.

EXPERIENCE

- 2020- Professor, Soil Resources, School of Environment and Natural Resources
- 2014-present Associate Director, School of Environment and Natural Resources,
- 2005-2020 Associate Professor, Soil Science, The Ohio State University
- 1997-2004 Assistant Professor, Sustainable Soil and Land Management, School of Natural Resources, The Ohio State University.

Australia:

- 1996-1997 Senior Land Resources Officer, Queensland Department of Natural Resources.
- 1995 Project Leader, Murray-Darling Basin Soil Information Strategy, CSIRO Division of Soils, Canberra, Australia.
- 1982–1995 Land Resources Officer, Land Use and Fisheries, Queensland Department of Primary Industries, Brisbane, Toowoomba, Roma, Australia
- 1981–1982 Environmental Consultant, CSR Energy Division, Brisbane
- 1980–1981 Research Scholar, Department of Agriculture, University of Queensland

University of Wisconsin–Madison:

- 1991–1994 Research Assistant, Department of Soil Science

EXTENSION PROGRAM/RESEARCH/TEACHING

Extension Programs:

Soil Environment Technology Learning Lab: Soils and Onsite Wastewater Treatment
Soil Resources and Soil Information Systems
Urban Soils: Assessment and Restoration
Soils for Christmas Tree Production

Research:

Digital Pedology: soil mapping and morphometrics
Wastewater movement and treatment in soils
Soil compaction
Urban soils

Teaching:

ENR 5260 Soil Landscapes: Morphology, Genesis and Classification
ENR 5279 Urban Soils and Ecosystem Services: Assessment and Restoration
ENR 5797 Iceland Education Abroad Program

AREAS OF EXPERTISE

- Soil Resources
- Soils of Ohio
- Soil Survey and Mapping
- Geospatial Information Systems and Remote Sensing
- Soil Classification
- Soil Hydrology
- Sustainable Soil and Land Management
- Waste Management and Soils
- Soil Evaluation for Onsite Wastewater Treatment
- Urban Soils
- Forest Soils
- Soil Restoration

FEATURED WORKS

- Slater, B.K. and Mancil, K. (2019) Soil Evaluation for Home Septic Systems, OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-742-04.
- Mancil, K. and Slater, B.K. (2019). Why Do Septic Systems Malfunction? OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-741.
- Slater, B. K and T. Wilson (2018). Miamian: Ohio State Soil. Soil Science Society of America, Soils for Teachers. <https://www.soils4teachers.org/files/s4t/k12outreach/oh-state-soil-booklet.pdf>
- Mancil, K. and Slater, B.K. (2016). Septic System Maintenance. OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-740.
- Mancil, K. and Slater, B.K. (2016). Septic Tank: Soil Adsorption System. OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-743.
- Mancil, K. and Slater, B.K. (2016). Septic Tank: Mound System. OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-744.
- Mancil, K. and Slater, B.K. (2016). Using Soil to Remove Pollutants from Wastewater. OSU Extension, Agriculture and Natural Resources Fact Sheet. OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-745.
- Mancil, K. and Slater, B.K. (2016). Sand Bioreactors for Onsite Wastewater Treatment. OSU Extension, Agriculture and Natural Resources Fact Sheet. OSU Extension, Agriculture and Natural Resources Fact Sheet. AEX-754.
- Mancil, K.M and Slater, B.K. (2013). Suitability of Ohio Soils for Treating Wastewater. OSU Extension, Agriculture and Natural Resources. Bulletin. 896.
- Dontsova, K., Lee, Y.B., Slater, B.K. and Bigham, J.M. (2005). Gypsum for Agricultural Use in Ohio—Sources and Quality of Available Products. OSU Extension, Agriculture and Natural Resources Fact Sheet. ANR-20.
- Slater, B.K. and Mancil (2005). Soil and Site Evaluation for On-site Wastewater Treatment. OSU Extension, Agriculture and Natural Resources. Bulletin 905.