

ANNA SOPHIA KNOX

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EDUCATION

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| 1993 | Ph.D. Agronomy & Soil Science, Institute of Soil Science & Plant Cultivation, Pulawy, Poland |
| 1985 | M.S. Geology, Jagiellonian University, Cracow, Poland |
| 1983 | B.S. Geology, Jagiellonian University, Cracow, Poland |

PROFESSIONAL EMPLOYMENT

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|---|----------------|
| <u>Fellow Scientist</u> | 2013 - present |
| Savannah River National laboratory, Savannah River Site, Aiken, SC | |
| <u>Principal Scientist</u> | 2008 - 2013 |
| Savannah River National laboratory, Savannah River Site, Aiken, SC | |
| <u>Senior Scientist/Research Scientist</u> | 2002 - 2007 |
| Savannah River National laboratory, Savannah River Site, Aiken, SC | |
| <u>Research Scientist/ Post Doctoral Associate</u> | 1994 - 2002 |
| The University of Georgia, Savannah River Ecology Laboratory, P.O. Box E, Aiken, SC/
The University of Georgia, Department of Crop and Soil Sciences, Athens, GA | |
| <u>Visiting Research Scientist</u> | 1993 -1994 |
| Trent University, Environmental and Resource Studies Program, Peterborough, Ontario, Canada | |
| <u>Senior Research Assistant/ Research Assistant</u> | 1985 - 1993 |
| Institute of Soil Science & Plant Cultivation (IUNG), Department of Soil Science & Land Conservation, 24-100 Pulawy, Poland | |

SUMMARY OF QUALIFICATIONS AND ACCOMPLISHMENTS

- Certified Professional Soil Scientist by ARCPACS of the American Society of Agronomy (No. 24807)
- 25 years of experience in interdisciplinary environmental research integrating agronomy, sediment/soil sciences, mineralogy, geochemistry, and radioecology
- Productive research program; organizer of sessions at national and international conferences
- Development of novel remediation technologies for soils and sediments
- Member of Editorial Board of the International Society of Environmental Forensics (ISEF's) journal
- Member of Editorial Board of Archives Agronomy & Soil Science journal
- Honorary Member of the International Committee of ICOBTE World Conference
- Member of Organizing Committee and International Scientific Committee of the International Conference on Heavy Metals in the Environment (ICHMET)
- Technical Adviser on the National Center for Radioecology (NCoRE) Leadership Board

- Organized sessions/symposia on contaminated sediments for the International Conference on the Biogeochemistry of Trace Elements (ICOBTE) and the International Conference on Heavy Metals in the Environment (ICHMET) since 2009
- Dr. Knox is nationally and internationally recognized as one of the leading authorities in the area of active capping research. She has received several awards including a DOE Women of Excellence in Science and Engineering award and several Key Contributor Awards due to crucial contributions to the strategic goals of the Savannah River National Laboratory.

PROJECT SUMMARY

Dr. Knox has served as PI on projects totaling in excess of \$3.5 million.

PUBLICATIONS

- **Total number of publications: 106**

SELECTED PUBLICATIONS

Books Edited:

1. Rinklebe, J., A.S. Knox, and M.H. Paller, editors. 2016. Trace Elements in Waterlogged Soils and Sediments. CRC Press, Boca Raton, FL.

Selected Book Chapters:

1. **Knox, A.S.** and M.H. Paller. 2016. Remediation of Metal Contaminated Sediments. *In* Trace elements in temporary waterlogged soils and sediments - bioavailability, geochemical processes, management, and remediation approaches, Editors: Jörg Rinklebe, Anna S. Knox, Michael Paller, CRC Press.
2. Paller, M.H. and **A.S. Knox**. 2016. Understanding the Relationship between Metal Bioavailability in Contaminated Sediments and Biological Receptors. *In* Trace elements in temporary waterlogged soils and sediments - bioavailability, geochemical processes, management, and remediation approaches, CRC Press. Editors: Jörg Rinklebe, Anna S. Knox, Michael Paller, CRC Press.
3. Turick, C.E., **A.S. Knox**, and W.W. Kuhne. 2012. Radioactive Elements/Issues in Soils.
4. **Knox, A.S.**, I.Petrisor, C.E. Turick, M.H. Paller, J. Roberts, D. Reible, and C. Forrest. 2010. Life Span of biopolymer sequestering agents for contaminant removal and erosion resistance, *In* BIOPOLYMERS, SCIYO Press (October 2010).

Selected Peer Reviewed Papers

1. **Knox, A.S.**, Michael H. Paller, Charles E. Milliken, T. M. Redder, J. R. Wolfe, and J. Seaman. 2016. Environmental impact of ongoing sources of metal contamination on remediated sediments. *Sci. of Tot. Environ.* 563-564, 108-117.
2. **Knox, A.S.**, Paller, M.H., and Dixon, K. L. 2014. Evaluation of active cap materials for metal retention in sediments, *Remediation: The Journal of Environmental Cleanup Costs, Technologies, & Techniques*, 24(3):49-69.
3. Li, D., Kaplan, D. I., **Knox, A.S.**, Crapes, K.P., and Diprete, D. P. 2014. Aqueous ⁹⁹Tc, ¹²⁹I and ¹³⁷Cs removal from contaminated groundwater and sediments using highly effective low-cost sorbents. *Journal of Environmental Radioactivity*, 136: 56-63.
4. **Knox, A.S.**, Paller, M.H., and Roberts, J. 2012. Active capping technology - new approaches for in situ remediation of contaminated sediments, *Remediation: The Journal of Environmental Cleanup Costs, Technologies, & Techniques*, 22(2):93-117.
5. Paller, M.H. and **Knox, A.S.** 2010. Amendments for the remediation of contaminated sediments: Evaluation of potential environmental impacts. *Sci. Total Environ.* 408:4894-4900.
6. **Knox, A.S.**, D.I. Kaplan, T. Hinton. 2008. Elevated uptake of Th and U by netted chain fern (*Woodwardia areolata*). *J. Radioanal. Nucl.Chem.*