



SPECIALTY EARTH SCIENCES, LLC
New Albany, Indiana

LINDSAY M. SWEARINGEN
Managing Partner/ Principal Scientist

EDUCATION

B.S. Optometry,
Doctor of Optometry,
Indiana University (IU): Bloomington, Indiana

Pursuing PhD in Environmental
Toxicology at University of Louisville:
Louisville, Kentucky.

AREAS OF EXPERIENCE

- Years of Experience – 10.5
- Years with IU as Lab Instructor – 2.0
- Years with IU as Independent Researcher – 2.0

Dr. Lindsay Swearingen is currently serving as Managing Partner/ Principal Scientist at Specialty Earth Sciences, LLC in New Albany, Indiana on a variety of environmental research and development projects, business management, and related areas.

Dr. Swearingen's past work experience includes two years of independent research for the Indiana University (Bloomington) Biology Department.

Dr. Swearingen also served two years as a lab instructor for the Indiana University (Bloomington) Biology Department.

Job duties included laboratory experiment design, laboratory instruction to undergrad students, data collection and interpretation, technical report construction, day-to-day laboratory management, and various office works.

REMEDIAL PROJECT EXPERIENCE

Chemical

- Co-developer of several proprietary, patent-pending, and patented in-situ chemical oxidation processes; including in-house catalyst and activating compound mixture augmentation and advancement.
- Lead laboratory experiment designer, regarding site specific bench scale studies and soil geochemical interference evaluation.
- Conducted numerous oxidation and reduction experiments regarding the chemical conversion of aromatic, aliphatic, and chlorinated hydrocarbons into inert compounds.
- Continuous in-house experimentation regarding the production and inhibition of oxidative free radical processes and direct electron exchange reaction kinetics based on varying geochemical conditions.
- Prime point of contact with third party specialty laboratories, subcontracted research and development companies, and third party independent chemical and/or biological consultants.
- QA/QC oversight for SE Sciences' EPA Brownfields Assessment Grant project sites - Phase II and FSI

Remediation Technology Patents

- Encapsulated Reactant and Process
US Patent No: 7,431,849
US Pat App No: 12-269,520
US Pat App No: 14-024,046
US Pat App No: 14-920,370 US
- Directionally Drilled Permeable Reactive Barriers

US Patent No: 8,210,773
US Patent No: 8,366,350
US Patent No: 9,061,333
Pat App No: 15-014,308