

Robert D. Moser – A little about me...



I am a structural / materials / field research engineer, microscopist, woodworker, DIYer, and walker of dogs.

Background:

- From Stuart, FL (Atlantic Coast)
- Ph.D. in Civil Engineering: Structures from Georgia Tech in 2011
- Expertise in a variety of materials for civil and military infrastructure

Where I Work:

- Geotechnical and Structures Laboratory, U.S. Army Engineer Research and Development Center
- R&D lab for Corps of Engineers
- Team Lead for Materials Diagnostics and Forensics Group

What I do:

- Electron and optical microscopy, various types of characterization, structural engineering, materials synthesis, field engineering
- Work with Army, Navy, Air Force, other DoD Agencies (DTRA, DIA), DOE, DOI, DOT, Industry, Academia
- Types of research activities:

Military Engineering:

- Advanced materials for force protection
- Rapid construction materials
- Mechanics including strain rate and stress state effects
- Characterization of indigenous materials

Civil Works:

- Novel materials for repair and retrofit of aging critical infrastructure
- Forensic analysis of deterioration mechanisms
- Support historic preservation work



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