The Unique and Complex Relationships Between Natural Wetland and Upland Habitats and Phosphate Mining



Kym Rouse Campbell, ENVIRON, Tampa, FL
Sandra Patrick, Mosaic Fertilizer, LLC, Lithia, FL

ENVIRON

Purpose of Session

- To discuss innovative approaches that have been developed to restore, reclaim, and monitor phosphate mined lands
- To discuss innovative uses of reclaimed phosphate mined lands
- To discuss the ecosystem services of reclaimed phosphate mined lands

Kristen Nowak

- Fluvial geomorphologist for the past five years at AMEC Environment & Infrastructure
- Conducted extensive research on streams throughout Florida
- Research applied to stream restoration and creation projects for clients, including the Florida phosphate mining industry
- BA in Environmental Science, Wellesley College
- MS in Environmental Engineering Sciences, UF
- Will be discussing the environmental benefits of stream restoration

Mark Rains

- Associate Professor of Ecohydrology , Department of Geology, USF
- President of Coshow Environmental, Inc.
- Over 20 years experience in functional assessment, restoration, and management of degraded wetlands and rivers
- BA in Ecology, Behavior, and Evolution, UC San Diego; MS in Forestry, University of Washington; PhD in Hydrologic Sciences, UC Davis
- Will be discussing the hydrology of clay settling areas and the surrounding landscapes

Tyler Nicoll

- Ecologist for Ground Level, Inc.
- Manages large-scale restoration projects
- BS in Natural Resources, University of Delaware
- Completed wetlands and biological monitoring internships with USFWS, NYC Parks Department, and Bureau of Land Management
- Taking graduate classes at UF in Wetland Management
- Will be discussing the incorporation of biochar into wetland reclamation