



Kuo Tian, PhD

Assistant Professor, Department of Civil, Environmental, and Infrastructure Engineering

Education

PhD, Civil and Environmental Engineering, University of Wisconsin-Madison

Key Interests

Geoenvironmental Engineering | Sustainable Geo-Materials | Recycle Materials | Waste Management | Fate of Contaminant Transport

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SELECT PUBLICATIONS

> N/A

Research Focus

I am an assistant professor of geotechnical engineering and I joined the Department of Civil, Environmental, and Infrastructure Engineering in the Volgenau School at George Mason University in 2017. My research in geo-environmental engineering fits into two classes: design and evaluate environmental containment systems for municipal, hazardous, and radioactive wastes; and create and investigate innovative geomaterials for sustainable construction applications. My research includes fundamental laboratory studies, practical field experiments, and development of computer models.

Current Projects

- Service Life Predication of Co-extruded Geomembranes with an Ethylene Vinyl-Alcohol (EVOH) Layer. *Sponsor, Kuraray Inc.*
- Investigation of Chemical Compatibility of New Bentonite-Polymer Composite Geosynthetic Clay Liner for Aggressive Coal Combustion Product Leachates. *Sponsor, Bentonite Performance LLC.*
- Existing Condition Assessment, Remaining Service Life Prediction, and Evaluation of Repair Methods for the Virginia Department of Transportation (VDOT) Saltwater Detention Ponds. *Sponsor, Virginia Transportation Research Council.*
- Liner Systems for Aggressive Leachates from Coal-Fired Power Plant Wastes. *Sponsor, Environmental Research & Education Foundation.*
- Water Retention Behavior of Polymer-Modified GCLs. *Sponsor, National Science Foundation (NSF)*