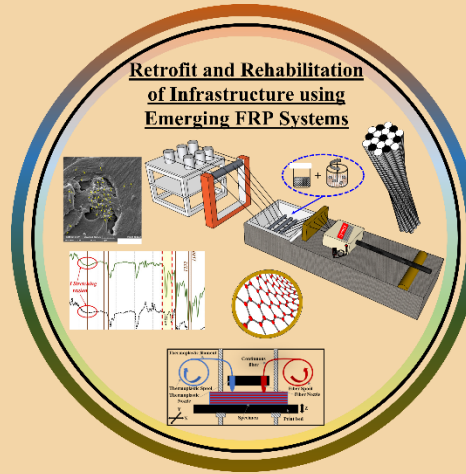




SOUTHERN PLAINS  
TRANSPORTATION CENTER



**Shreya Vemuganti**  
Assistant Professor  
School of Civil Engineering  
and Environmental Science,  
University of Oklahoma

**Tuesday, March 15, 2:00 – 3:30 p.m (CST)**

Hosted via Zoom

1 PDH Provided

[Register Here](#)

## **Infrastructure Rehabilitation with Innovative Fiber Reinforced Polymer Composites**

America's infrastructure scores a C- indicating deterioration and deficiencies with an increasing vulnerability to risk. One of the key criteria in improving and maintaining infrastructure is to investigate new innovative materials, methods and technologies to increase its resilience and durability. Fiber Reinforced Polymer (FRP) composites have become a desirable material because of their long-term durability, high strength to weight ratio and ability to resist corrosion in harsh environments. An emerging technology has shown to successfully retrofit existing corroded metal culverts and pipelines using Glass FRP profiles and liners for geothermal, drainage, industrial waste and sewage applications. These new advancements enables expanding the use of FRP material in civil engineering infrastructure applications to retrofit and rehabilitate existing infrastructure.

Shreya Vemuganti is a new assistant professor at CEES from Fall 2021. She has received her Ph.D. from the University of New Mexico graduating as the outstanding student. She is a recipient of the AREMA national educational award and other honors. She has worked as a bridge load rater for the New Mexico Department of Transportation and as a research intern at Sandia National Labs. Her research focus has been developing innovative technologies with cementitious materials and fiber-reinforced polymer (FRP) composites. Her research has been recognized in journal publications and technical competitions through best paper awards, editor's choice awards, best poster and presentation awards.