

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING



Civil Engineering is all about creating, improving and protecting the environment in which we live. Civil engineers are uniquely qualified to solve some of the most pressing contemporary issues including deteriorating infrastructure, clean water and affordable energy.

At the University of Rhode Island we strive to educate tomorrow's leaders who will advance civilization and build our quality of life.

Our students enjoy a rigorous but satisfying curriculum including the award winning senior capstone studio class, a large number of hands-on laboratory experiences including the National Science Foundation funded structural engineering experiential lab, a strong international program at both the undergraduate and graduate levels, leadership opportunities in many student organizations and opportunities for research and close interaction with faculty members.

Our work focuses in four areas:

Environment and clean water: *Dr. Vinka Craver*



is developing low cost ceramic filters with embedded silver nanoparticles which can effectively remove 99% of bacteria. "More than one billion people in the world

don't have access to safe drinking water, and about two million people die each year from diarrhea and other diseases related to unhealthy water," Craver said. "Ninety percent of those deaths are children under age five. If we can get people in developing nations to use this filter in their homes, it will save a lot of lives."

Resilient infrastructure for coastal communities:

Dr. Christopher Baxter has been evaluating tsunami risk in the upper east coast of the United States. He is also investigating underwater sediments for siting of offshore wind turbines. *Dr. Thomas Boving* recently came back from a meeting in India working to establish a Joint Center for Water Quality and Aquifer Remediation in Coastal Areas.

Sustainable infrastructure renewal:

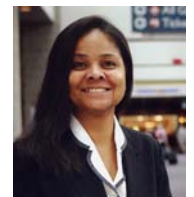


Dr. Gindy is developing advanced technologies to determine the condition of our aging bridges. Her *Structural Monitoring and Remote Testing Laboratory* (SMART Lab) is equipped with the

latest sensor technology and provides our students with a unique opportunity to prepare for their future careers.

Transportation: *Dr. Natacha Thomas*

is studying efficient evacuation procedures during extreme events such as hurricanes and other man-made or natural disasters. Professor Thomas is creating a model that for the first time includes human behavior as a factor in the evacuation process. *Dr. Christopher Hunter* with his work on intelligent transportation systems is solving some pressing traffic problems in the urban environment.



You can be a part of the solution. You can lead in improving our infrastructure and transportation systems and clean the air and the water. We invite you to explore our program and will be glad to provide you any additional information that you may need.

