

OBJECTIVES

The general objectives of the Puerto Rico Water Resources and Environmental Research Institute are:

Research

To conduct research aimed at resolving local and national water resources problems.

Education

To train scientists and engineers through hands-on participation in research.

Facilitate

To facilitate the incorporation of research results in the knowledge base of water resources professionals in Puerto Rico and the U.S. as a whole

In order to fulfill these objectives, the Institute coordinates and provides funds for research projects in Puerto Rico, provided to scientists across the island working in a variety of disciplines. The selection of the proposals is based on the water resources problem and the benefits its solution will contribute. In addition, the Institute submits research proposal, consultant and professional improvement to agencies and institutions.

VISION

That the Institute becomes the first selection for government, researchers, consultants, and professionals for information and education in the Water Resources and Environmental field of Puerto Rico, Latin America, and the Caribbean.

MISSION

The Institute directs their efforts to providing and promoting, in Puerto Rico, Latin America, and the Caribbean, research initiatives, education, service, and technology transfer for the preservation and sustainable management of Natural Resources, with emphasis in Water Resources.

COMMITMENT

Technical meetings, seminars, technical reports, and periodic publications are used by the Institute to maintain the Water Resources scientific community, and the general public, informed about the advances in this field. The Institute organizes conferences related to research in Puerto Rico, Latin America, and the Caribbean in collaboration with other organizations of the region.

The Institute uses state of the art laboratories and instrumentation in its research. Each research project provides:

- ◆ Precise and rational description of all the research.
- ◆ Ability to measure the performance and progress.
- ◆ Specific determination of the processes and resources.
- ◆ Specific accountability.

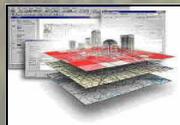
ACHIEVEMENTS

Since its establishment, more than 40 years ago, the Institute has developed a vast experience in diverse areas of science and environmental engineering. Over the years the Institute has achieved important contributions and success, such as:

- ◆ Industrial and Agricultural water requirements
- ◆ Coastal and ground Water Quality Management
- ◆ Hydrology
- ◆ Pollutant Transport
- ◆ Erosion and Sediment Management
- ◆ Surface Water Quality Management
- ◆ Wastewater Treatment
- ◆ Nonpoint Sources Control and Management
- ◆ Floods Control Management
- ◆ Watershed integrated Management
- ◆ Water Use and Social Planning

TECHNOLOGY

The Institute uses innovating techniques in the Water Resources field. It uses remote sensing, Geographic Information System (GIS), and Global Positioning System (GPS) for data collection and spatial analysis. Also the Institute uses state of the art field instrumentation and trained personnel to conduct research activity.



WATER RESOURCES AND ENVIRONMENTAL RESEARCH INSTITUTE PARTNERS

The Institute's partners benefit from its research and information transfer. These partners include:

- ◆ State water quantity and water quality management agencies and environmental health state agencies.
- ◆ Local governments. Municipal water, wastewater, and environmental health departments.
- ◆ Water and wastewater treatment private companies.
- ◆ Businesses and industries which use or manage water resources.
- ◆ Farmers and other agricultural enterprises, environmental organizations, schools, and individuals.
- ◆ Federal agencies such as Corps of Engineers, Environmental Protection Agency, Department of Energy, Department of Defense, US Geological Survey, National Oceanography and Atmospheric Administration, and Federal Emergency Management Agency.

Puerto Rico Water Resources and Environmental Research Institute

Jorge Rivera Santos, Ph.D., P.E.
Director

Walter F. Silva Araya, Ph.D., P.E.
Associate Director

University of Puerto Rico
Mayaguez Campus

PO Box 9040
Mayaguez, PR 00681-9040

787-833-0300
787-832-4040 Ext.3781, 3753
Fax: 787-833-3985

Email:prwreri@uprm.edu