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TROPICAL HYDROLOGY AND SUSTAINABLE WATER RESOURCES IN A CHANGING CLIMATE

Rafael E. Frias III ~ Guest Associate Editor

AWRA’s Summer Specialty Conference will be held in San Juan, Puerto Rico, August 30-September 3, 2010. The conference title is “AWRA’s International Summer Specialty Conference on Tropical Hydrology and Sustainable Water Resources in a Changing Climate.” The conference aims to highlight the latest research and developments in the field of tropical hydrology and sustainable water resources.

INTRODUCTION

3 Sustainable Water Resources Technologies for a Changing Climate ... Rafael E. Frias III and Peter D. Binney

Sustainable technologies are essential to manage impacts on water resources from population growth and development. These technologies can help achieve higher sustainability levels and minimize the detrimental effects of climate change.

FEATURE ARTICLES

6 Sustainability and How Water Providers Can Achieve It ... Peter D. Binney

While sustainability has become a common initiative, it is one of the most challenging goals in terms of how long-term benefits should be achieved. Understanding how to achieve sustainability without compromising quality and efficiency is critical to meeting the desired objectives.

9 Potable Water for Isolated Communities: An Environmental Justice Imperative for Puerto Rico ... Carl-Axel P. Soderberg

Although 97% of the population of Puerto Rico is served by the Puerto Rico Aqueduct and Sewer Authority, 252 isolated communities have systems without filtration or disinfection. This is a public health concern for these communities and the rest of the island.

11 Adapting Stormwater BMPs for Tropical Watersheds and Coral Reef Protection ... David Hirschman and Kelly Collins

The authors present stormwater best management practice (BMP) design specifications for four innovative practices adapted to the island environments of Guam and CNMI.

15 Developing a Conceptual Framework for Linking Soil Erosion to Sediment Deposition: Patterns in Coastal Ecosystems in the Caribbean ... Nekesha B. Williams, Barnall Dixon, and Ashanti Johnson

Soil erosion and enhanced sedimentation in coastal ecosystems such as wetlands are a persistent problem in the Caribbean. Establishing “The Link” between these issues will require an interdisciplinary, collaborative effort from hydrologists, oceanographers, coastal, and land managers.

17 Panama Canal Watershed Experiment: Agua Salud Project ... Robert F. Stallard, Fred L. Ogden, Helmut Eisenbeer, and Jefferson Hall

The Agua Salud Project utilizes the Panama Canal as a central role in world commerce to focus global attention on the ecosystem services provided by tropical forests when compared to other types of land cover.
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