

WORLD ENVIRONMENTAL AND WATER RESOURCES CONGRESS 2013

SHOWCASING THE FUTURE

PROCEEDINGS OF THE 2013 CONGRESS

May 19-23, 2013
Cincinnati, Ohio

SPONSORED BY
Environmental and Water Resources Institute (EWRI)
of the American Society of Civil Engineers

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Published by the American Society of Civil Engineers

Preface

In the thirteen years since the Environmental and Water Resources Institute (EWRI) was formed within the American Society of Civil Engineers, the EWRI World Environmental and Water Resources Congress has evolved into the premier forum for exchange of new ideas and ongoing research in the fields of Water Resources and Environmental Engineering. The 2013 Congress held in Cincinnati, Ohio, May 19-23, 2013, continued this tradition with over 800 timely presentations from water resources and environmental professionals from every part of the US and the World; this proceedings features papers from more than 350 of these presentations. The Congress theme, “Showcasing the Future”, was featured in many ways including Symposia on Emerging and Innovative Technologies, Cloud Computing, Sustainability, Climate Change and the Confluence (a Water Technology Innovation Cluster in the Ohio, Indiana and Kentucky region). Topics of local interest included presentations on Large Rivers and Ohio River Basin Research. The Congress also featured presentations on a wide variety of environmental topics including Urban Watershed Management, Groundwater Hydrology, Quality and Management, Water Resources, Education and Research, Hydraulics and Waterways, Environmental Planning and Management, Desalination, Water Reuse, Wastewater, Stormwater, Drinking Water and Water Distribution Systems Analysis. Conference attendees included academic researchers, government representatives, and private sector professionals from consulting, design/build, commercial and industrial firms.

The success of the technical program for 2013 EWRI World Water and Environmental Congress was entirely due to the team work and commitment of the volunteer members of the technical program committee. The effort of these individuals was unwavering from start to finish. They are:

Robert W. Carr, P.E., M.ASCE, Gresham, Smith and Partners, Columbus OH

Veronica W. Griffis, Ph.D., M.ASCE, Michigan Technological University, Houghton MI

Karen J. Karvazy, P.E., M.ASCE, Edison, NJ

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I would also like to thank A. Charles Rowney, Ph.D., P.Eng., the Congress Chair, and Ann Rountree of ASCE staff for their continuous support through the development of this program.

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Student and Younger Member Photo Contest

Sunrise in Ivanhoe, TX

Ivanhoe is a small community that depends on a modest dam to contain Lake Charmain. The community has a mixture of both vacation homes and permanent residents that utilize the water for swimming, fishing, boating, watering gardens, and other various activities. While it is important to see the history and present happenings on Lake Charmaine, the sunrise reminds us to always look to the future and see what adventures have yet to come.

This photo was taken by Alex Lopez-Rogina Beck, a student at University of Alabama in Huntsville. Alex is a Civil and Environmental Engineering student who is passionate about taking care of the environment and educating others on the importance of sustainability.

American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, Virginia, 20191-4400

www.pubs.asce.org

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ISBN 978-0-7844-1294-7
Manufactured in the United States of America.

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