

Urban Water Partners (A)

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Presented by: Steve Starrett, Ph.D., P.E., D.WRE, F.ASCE, F.EWRI
President-Elect EWRI, 2016

A Diverse and Empowered Membership

- Extensive Continuing Education Opportunities
- Annual conferences and other conferences
- EWRI Collaborate networking platform

TheCaseSolutions.com Innovative Programs and Solutions

EWRI Vision

Advancing Water Resources and Environmental Solutions to Achieve a Sustainable Future

The EWRI will be a recognized worldwide leader within ASCE for the integration of technical expertise and public policy into the planning, design, construction and operation of environmentally sound and sustainable infrastructure impacting air, land, and water resources. To accomplish this vision, EWRI is committed to:

- A diverse and empowered membership
- Excellence in products and services
 - Collaborative partnerships
 - Innovative programs and solutions

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Collaborative Partnerships

- EWRI has partnered with over 55 organizations on large projects, conferences, and sizable publications.
- Many more small scale collaborations have taken place.

Excellence in Products and Services

- Academic Journals
- Publications
- D.WRE Certification

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- EWRI is 1 of 9 ASCE Technical Institutes.
- Members work in consulting, government, and academics and are students whose focus areas are:

- | | |
|---|--|
| <ul style="list-style-type: none"> • Environment • Groundwater • Surface Water • Hydraulics and Waterways • Irrigation and Drainage • Planning and Management | <ul style="list-style-type: none"> • Urban Water Resources • Water Supply, Wastewater, and Stormwater • Watersheds • Domestic and International Interdisciplinary Issues |
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- Domestic and International Interdisciplinary Issues

Organization

- Run by a governing board of 8 elected members.
- Composed of primarily Technical Councils along with Member Services Councils, and Committees of the Board.



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Technical Councils

- Technical committees are collaborative groups that expand the boundaries of civil engineering knowledge and members learn from each other.
- The focus of Technical Councils are to produce technical information, which is provided through journals, publications, seminars and webinars, and conferences and workshops.

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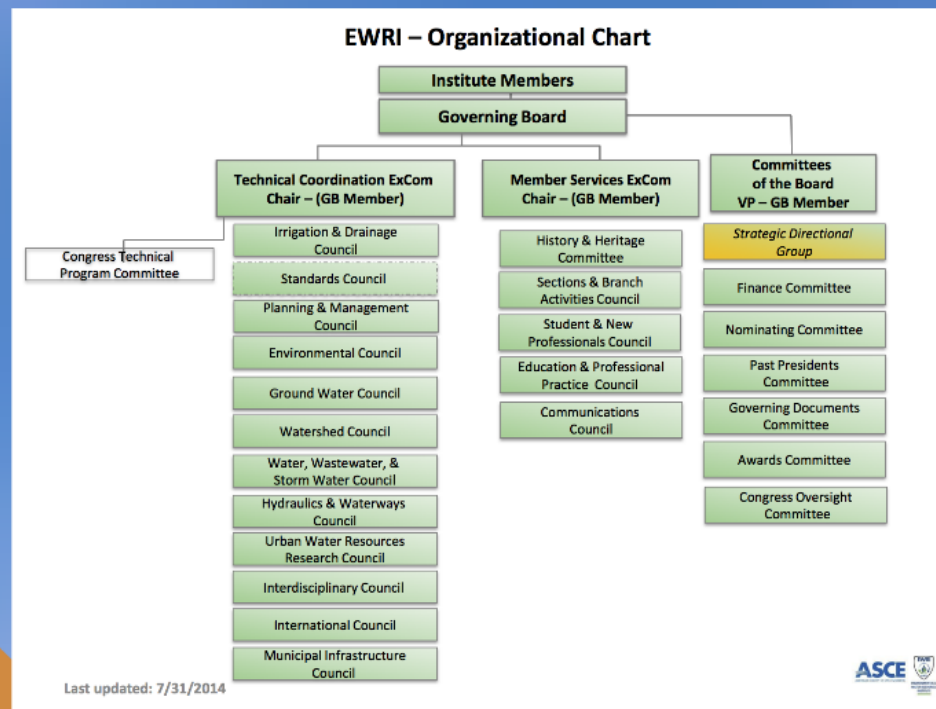
Member Benefits

- Access to technical products for free or at a discounted rate
- Networking with your colleagues in all stages of their careers including some of the most influential professionals and academics in the field
- Opportunity to contribute to the advancement of the civil engineering profession

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Excellence in Products and Services

Academic Journals
These are 7 reputable ASCE journals:


- Journal of Environmental Engineering
- Journal of Hydrologic Engineering
- Journal of Irrigation and Drainage Engineering
- Journal of Water Resources Planning and Management
- Journal of Hydrologic, Hydr., and Rockwater Flow
- Journal of Sustainable Water in the Built Environment



Publications

24 ASCE Standards have been developed since 2000 covering topics such as:

- Cloud Seeding
- Model Agreements for Shared Uses of Trans-boundary Waters
- Calculating Saturated Hydraulic Conductivity



- Academic Journals
- Publications
- D.WRE Certification

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D.WRE Certification



- D.WRE was established in 2004 by ASCE as a certification organization to provide a way of recognizing and rewarding the skills of its members.
- D.WRE is the highest level of professional certification beyond a PE.
- D.WRE is the only certification for water resources ASCE certification in the world.
- The organization is highly selective, with only 700 D.WRE members worldwide.




Low Impact Development Innovation

- 9 Task Committees are currently devoted to LID technology improvement and development (under the Urban Water Resources Research Council)
 - Bioswales and Filter Strips
 - Green Highways and Green Spaces
 - Technology for Combined Sewer
 - Computational Methods
 - Bio-retention Technology
- Green Roofs
- Natural Guidelines
- Permeable Pavements
- Rainwater Harvesting



Leadership in Planning and Management

- EWRI produces trustworthy and scientifically sound information to professionals and government officials who are adapting to current and future problems. Some noteworthy publications include:
- NAFTA Handbook for Water Resources Managers and Engineers (1995)
 - Explains the consequences of the NAFTA as they affect water resources planning and management in Canada, Mexico, and the United States.
 - Sustainability Criteria for Water Resource Systems (1998)
 - Identifies approaches to water resources PBM for physical, economical, environmental, ecological, and social sustainability.



Irrigation Management

- In 2000, the Standardization of Reference Evapotranspiration Task Committee published a paper titled ASCE's Standardized Reference Evapotranspiration Equation, which made recommendations on how to standardize ET calculations.
- "[This committee's work] on Reference ET is foundational, and has impacts around the world."
 - Dr. Daniel Thomas, EWRI Past-President



Response to Hurricane Katrina (2005)

- EWRI participated in the Hurricane Katrina Advisory Task Committee in 2006 and 2007 with Geo-Institute and COPRI to advise the ASCE Board of Direction regarding development of recommended products and services to communicate the lessons learned from Katrina to the Civil Engineering profession.



Water Infrastructure Security Enhancements

- In 2002, EWRI hosted a critical infrastructure dialogue with 21 organizations and agencies.
- The dialogue led to the creation of the WISE standards council with WEF and AWWA to develop guidelines for reducing risks to water systems from malevolent events.
- USEPA awarded over 1 million dollars to the project for the development of security guidance documents to protect the public from potential bio-terrorism and other threats.



Advancements in Groundwater

- Multiple publications including *Hydraulics of Wells (MDP #127)* and *Effects of Urbanization on Groundwater*.
- Organized two special issues for the *Journal of Hydraulic Engineering*.
- Contributed to KSTAT Standard Guideline for hydraulic conductivity estimation.
- Published H2O! Classroom Demonstrations for Water Concepts. The book has had high sales and its demonstrations have been showcased at the Annual conference each year since its publication.

International Stormwater BMP Database

- EWRI began supporting the database in 2004 in partnership with WEF, USEPA, FHWA, and APWA.
- The database continues to provide over 500 scientifically sound tools and publications to improve the design, selection, and performance of BMPs.



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