

*2007 Summer Conference and 37<sup>th</sup> Annual Meeting*

*Sustainable Infrastructure Choices. . .  
Gray, Green & Everything in Between*

*July 17 – 20, 2007  
Renaissance Cleveland  
Cleveland, Ohio  
As of June 29, 2007*

- ♦ – Board of Directors Committees
- \* - Denotes Confirmed Speakers

*Tuesday, July 17*

*Morning*

8:30 – 4:00	Registration
9:00 – 10:30	Strategic Planning Committee ♦
10:00 – 11:15	Water Quality Committee
10:45 – 11:45	Finance Committee ♦
11:15 – 12:30	Air Quality & Climate Change Committee

*Afternoon*

1:00 – 2:15	Utility Management Committee
2:15 – 3:00	Membership Committee ♦
2:30 – 3:45	Facility & Collection System Committee
3:15 – 4:00	Awards Committee ♦
4:00 – 5:00	Biosolids Management Committee
4:00 – 5:00	Clean Water Funding Task Force

*Evening*

5:45 – 7:00

Registration

6:00 – 7:00

Welcoming Reception

**Wednesday, July 18**

*Morning*

7:30 – 8:45

Regulatory Policy Committee

8:00 – 4:00

Registration

9:00 – 12:00

**GENERAL SESSION I**

*Opening Remarks*

Dick Champion\*

NACWA President (2006 – 2007)

Director

Independence Water Pollution Control Department

Independence, MO

*Welcoming Remarks*

Matthew Zone\*

Member, Cleveland City Council

Chair, Public Utilities Committee

City of Cleveland

Jim McKnight\*

Owner and Principal Landscape Architect

McKnight Associates, LTD.

Cleveland, OH

*Keynote Address*

**35 Years of the Clean Water Act: From Gray to Green**

Reflecting on the 35<sup>th</sup> anniversary of the Clean Water Act, Sherwood Boehlert, former Congressman, long-time Chair of the House Subcommittee on Water Resources and the Environment and, most recently, Chair of the House Science Committee, will look back at what the Clean Water Act has accomplished to date and look forward to what still needs to be done. What role will green infrastructure play in the future? Can the Clean Water Act of 1972 take us where we need to go? Mr. Boehlert will share his thoughts and insights on these and other clean water issues.

The Honorable Sherwood Boehlert\*

*Featured Speaker*

**A Watershed Approach:  
Balancing Gray and Green Infrastructure**

Traditional wastewater treatment and stormwater control practices emphasize “concrete and pipes” technology that results in specific capacity and water quality outcomes. However, even if regulatory outcomes are met for water quality, the environment may not benefit due to habitat destruction, erosion, and other factors. A watershed-based approach to wastewater and stormwater management presents an alternative, sustainable solution that is focused on overall environmental benefits. Green infrastructure, flexible regulations, and financial incentives are important aspects of this type of watershed approach. Chris Crockett will describe the Philadelphia Water Department’s Office of Watersheds integrated approach to improving the region’s environment by using green infrastructure in watershed planning.

Chris Crockett\*

Manager, Watershed Sciences & Engineering  
Philadelphia Water Department, Office of Watersheds  
Philadelphia, PA

10:15 – 10:30

BREAK

*Roundtable Discussion*

**New Partners, New Solutions:  
Green Infrastructure Statement of Intent**

On April 19, 2007, four organizations and the U.S. Environmental Protection Agency (EPA) signed the *Green Infrastructure Statement of Intent*, which encourages the use of green infrastructure by cities and wastewater treatment facilities as part of their stormwater control programs. The *Statement* emphasizes that green infrastructure can be “a cost effective and an environmentally-preferable approach to reduce stormwater and other excess flows,” leading to reduction of combined and separate sewer overflows. Representatives from the organizations that signed the *Statement* will provide information on how they will help implement the ideas in the *Statement* and what hurdles need to be overcome to maximize implementation.

*Roundtable Participants*

Nancy Stoner\*

Director, Clean Water Project  
Natural Resources Defense Council  
Washington DC

Christopher Kloss\*

Senior Environmental Scientist  
Low Impact Development Center  
Beltsville, MD

Greg Smith\*  
Chief, Environmental Planning Section  
Division of Environmental & Financial Assistance  
Ohio Environmental Protection Agency  
Columbus, OH

Alexandra Dapolito Dunn\*  
General Counsel  
NACWA  
Washington, DC

11:45 – 12:00

*Annual Association Business Meeting*

- Report of the President
- Consideration of Amendment to NACWA's Bylaws
- Consideration of Resolution Marking the 35<sup>th</sup> Anniversary of the Clean Water Act
- Report of the Treasurer
- Election of Directors
- Report of the Executive Director

*Closing Remarks*

Dick Champion\*  
NACWA President

Afternoon

12:15 – 2:00

Board of Directors Meeting

12:15 – 2:00

**Green Infrastructure Technology, Goods & Services** (Buffet Lunch & Exhibits)  
Enjoy lunch and explore a wide array of technologies, goods and services that support the implementation of green infrastructure initiatives.

1:30 – 2:00

*Water and Wastewater Leadership Center* Information Session

Learn more about the benefits of attending the *Water and Wastewater Leadership Center's* two-week residential program from alumni who will be available to share their experiences and discuss this unique educational offering.

2:00 – 4:30

**GENERAL SESSION I** (continued)

*Opening Remarks*

Dick Champion\*  
NACWA President (2006-2007)

*Panel Presentation*

**What Does “Green” Mean?**

Green infrastructure means different things to different people, but it is a broad term that can refer to a multitude of equipment, projects, or management approaches that lead to environmental improvements. In terms of combined sewer overflows or stormwater management, green infrastructure may refer to methods for intercepting precipitation and allowing infiltration, including green roofs, rain gardens and other vegetated landscapes, and permeable pavements. Wetlands for treating wastewater and water storage are another form of green infrastructure. Incorporating green infrastructure into existing gray infrastructure may provide many environmental, aesthetic, and public relations benefits, but it may also present challenges to clean water agencies. Utilities will discuss the types of green infrastructure implemented in their communities, along with the benefits provided and the obstacles to its broader use.

**Moderator:**

Thomas Morgan\*  
General Manager  
Montgomery Water Works and Sanitary Sewer Board  
Montgomery, AL

**Panelists:**

Dean Marriott\*  
Director  
City of Portland Bureau of Environmental Services  
Portland, OR

Kevin Shafer\*  
NACWA Treasurer  
Executive Director  
Milwaukee Metropolitan Sewerage District  
Milwaukee, WI

Shahram Kharaghani\*  
Stormwater Program Manager  
City of Los Angeles  
Los Angeles, CA

*Panel Presentation*

**Costs and Benefits: Quantifying the Impact of Green Infrastructure**

A major challenge to the acceptance of green infrastructure is quantification of its benefits. Regulatory acceptance will require proof that green infrastructure reduces runoff, decreases combined sewer overflows, or otherwise improves water quality or the environment. To date, however, the benefits of green infrastructure have proven more difficult to quantify than those of traditional treatment technologies, where “end of

pipe” measurements are possible. Panelists will present methodologies to quantify the water quality benefits of green infrastructure and discuss the costs of green infrastructure relative to “concrete and pipes” capital projects.

Moderator

Dick Champion\*  
NACWA President (2006-2007)

Panelists

Michael Sullivan\*  
Vice President  
Limno-Tech, Inc.  
Washington, DC

Steve Wise\*  
Natural Resources Portfolio Manager  
Center for Neighborhood Technology  
Chicago, IL

Dan Nees\*  
Senior Associate  
People and Ecosystems Program  
World Resources Institute  
Washington, DC

*Closing Remarks*

Dick Champion\*  
NACWA President

*Evening*

5:30 – 6:15

Awards Ceremony

6:15 – 7:30

President’s Reception

*Thursday, July 19*

*Morning*

7:30 – 8:45

Legislative Policy Committee

8:00 – 12:00

Registration

9:00 – 12:00

**GENERAL SESSION II**

*Opening Remarks*

Chris Westhoff\*  
NACWA President (2007 – 2008)  
Assistant City Attorney –  
Public Works General Counsel  
City of Los Angeles  
Los Angeles, CA

*Featured Speakers*

**Creating a 21<sup>st</sup> Century Environment:  
Engineering and Scientific Evolution and Revolution**

What the future holds for clean water agencies, whether gray, green, or somewhere in between, the engineering and scientific consulting communities are evolving, and must continue to do so, to meet the growing demand for green infrastructure solutions. Private sector and industry leaders will provide their perspectives on their companies' efforts to meet the demand for "green."

William Dee\*  
President and CEO  
Malcolm Pirnie  
White Plains, NY

Paul Freedman\*  
President  
Limno-Tech, Inc.  
Ann Arbor, MI

*Featured Speakers*

**Celebrating Success and Confronting Challenges  
After 35 Years of the Clean Water Act**

The 35<sup>th</sup> anniversary of the Clean Water Act certainly provides reason to celebrate. The nation's waters are clearly healthier than they were in 1972, but as we all understand, many challenges remain. Long-time clean water champions will provide their perspectives on the successes of clean water agencies and the new and emerging challenges ahead.

**Speakers:**

Don Young\*  
Executive Vice President  
Ducks Unlimited, Inc.  
Memphis, TN

Tracy Mehan\*  
Principal  
Cadmus Group, Inc.  
Arlington, VA

*Panel Presentation*

**Collaborating Our Way to a Greener Tomorrow**

Green infrastructure and other cutting-edge approaches are opening doors to new partnerships for utilities. The new partners have expertise in areas that are unfamiliar to clean water professionals, such as habitat requirements for different animal species, appropriate selection of plants and trees, and maintenance procedures for green infrastructure projects, which can lead to greater green infrastructure success. The panel is comprised of leaders of key organizations who can collaborate with clean water agencies in planning sustainable infrastructure initiatives, as well as leaders of projects where unique collaborations have resulted in successful green infrastructure implementation.

**Moderator**

Marian Orfeo\*  
NACWA Vice President  
Director of Planning & Coordination  
Massachusetts Water Resources Authority  
Boston, MA

**Panelists**

Perry Howard\*  
President-Elect  
American Society of Landscape Architects  
Washington, DC

Greg Ina\*  
General Manager  
Davey Institute  
Kent, OH

Mark Link\*  
Environmental Planner, Engineering & Construction  
Northeast Ohio Regional Sewer District  
Cleveland, OH

Dave Anthony\*  
Principal  
Wade Trim Ohio, Inc.  
Cleveland, OH



*Closing Remarks/Announcements*

Marian Orfeo\*

NACWA Vice President

*Afternoon*

12:00 – 5:00

**Golf Tournament — 2007 NACWA OPEN**

*Acacia Country Club*

12:00 – 5:15

**Green Infrastructure/Gray Infrastructure Tour**

*Ohio & Erie Canal*

*Reservation,*

*NEORSO Southerly Plant*

*Evening*

6:30 – 8:00

Reception

*Rock & Roll Hall of Fame*

**Friday, July 20**

*Morning*

7:30 – 8:45

Legal Affairs Committee

8:00 – 10:00

Registration

9:00 – 11:45

**GENERAL SESSION III**

*Opening Remarks*

Chris Westhoff\*

NACWA President (2007 - 2008)

*Featured Speaker*

**Climate Change... What Does it Mean for Wastewater Treatment?**

As climate change concerns grow in the U.S., clean water agencies are considering the potential impacts of climate change on their operations. Federal, state, and local governments are formulating requirements for greenhouse gas emissions reductions, and with wastewater treatment listed as a significant source by EPA, clean water agencies may be faced with emission reduction requirements in the future. Predicted precipitation pattern changes may also affect wet weather programs and require adaptation of stormwater management plans. These potential impacts will be discussed, as will possible strategies for clean water agencies to receive proper credit for climate change mitigation measures, such as re-use of methane gas and energy conservation.

Glen Daigger\*  
Senior Vice President and Chief Technology Officer  
CH2M HILL  
Englewood, CO

*Roundtable Discussion*

**Increasing Energy Efficiency in Wastewater Treatment**

Wastewater treatment requires a large amount of electrical power, and clean water agencies that become more energy efficient are improving their bottom line. Energy efficiency is also a vital component of a utility's long-term sustainability. Strategies for achieving better energy efficiency will be the focus of this roundtable discussion.

**Moderator**

Ray Marshall\*  
Executive Director  
Narragansett Bay Commission  
Providence, RI

**Panelists**

Andy Goett\*  
PA Consulting  
San Francisco, CA

Jenna Olsen\*  
Supervisor, Sustainable Communities  
Pacific Gas and Electric  
San Francisco, CA

Felix Pierre\*  
Chief, Energy Section  
New York City Department of Environmental Protection  
Bureau of Wastewater Treatment  
Corona, NY

*Roundtable Discussion*

**Putting Green Infrastructure into Practice...**

**Building Support and Resolving Regulatory Challenges**

To move green infrastructure from a good idea to a common beneficial practice, projects need to be viable from both technical and regulatory standpoints. Many challenges remain for regulatory acceptance of green infrastructure, and flexibility is needed for clean water agencies to find appropriate green solutions to their needs. Support of local governments and communities is also vital to green infrastructure success. Potential

solutions to resolving regulatory challenges and increasing local support for green infrastructure will be discussed in this roundtable.

**Moderator**

Roberta Larson\*  
Special Counsel, City of Sacramento  
Somach, Simmons & Dunn  
Sacramento, CA

**Panelists**

Richard Davis\*  
Director  
Beveridge & Diamond  
Washington, DC

Jenny Molloy\*  
Biologist  
Water Permits Division  
Environmental Protection Agency  
Washington, DC

Benita Best-Wong\*  
Director  
Assessment & Watershed Protection Division  
Office of Wetlands, Oceans & Watersheds  
Environmental Protection Agency  
Washington, DC

*Closing Address*

**Going Green: The Future for Clean Water Agencies?**

The incentives for utilities to institute sustainable green infrastructure go beyond water quality and other environmental benefits. "Going green" can improve the reputation of clean water agencies, leading to increased awareness of water infrastructure funding needs and better recruiting for the profession. This speaker will present the possibilities available to clean water agencies in the future through green infrastructure.

John Norton\*  
Senior Environmental Engineer  
MWH Americas, Inc.  
Chicago, IL

*Closing Remarks/Adjourn*

Chris Westhoff\*  
NACWA President (2007 - 2008)