



Clearwaters

New York Water Environment Association, Inc.

NYWEA Board of Directors

Officers

President	Robert Kukenberger, Syracuse
President-Elect	Bruce Munn, Cazenovia
Vice President	Thomas Whetham, Buffalo
Vice President-Elect	Anthony Della Valle, Jackson Heights
Immediate Past President	Thomas J. Lauro, New Rochelle
Treasurer	Nicholas Bartilucci, Woodbury
WEF House of Delegates	J. Kirk Rowland, Tonawanda

Chapter Representatives

Capital	Gerard S. Moscinski, Troy
Central	Ken Knutsen, Liverpool
Genesee	Doug Alaimo, Newark
Long Island	Steven A. Fangmann, Woodbury
Lower Hudson	John Sansalone, New Paltz
Metropolitan	Alfonso Lopez, New York
Western	Bryan T. Smith, Buffalo

Committee Representatives

Jean Malafronte, New York
Paul McGarvey, Amherst
Randy Ott, Syracuse

Young Professionals Representative

Camie McGraw, Buffalo

Operator Representative

William Grandner, Brooklyn

House of Delegates

J. Kirk Rowland, Tonawanda
Robert Adamski, Brooklyn

Committee Chairpersons

Awards	Lisa Derrigan, Mike Manning, Rochester
Energy/Research	Kathleen O'Connor, Albany
Environmental Science	Philip Sears, New York
Exhibits	Joyette Tyler, White Plains
Government Affairs	Daniel Bentivogli, Buffalo
Hall of Fame	Leo Aparri, Hackensack, NJ
Humanitarian Assistance	Jean Malafronte, New York
Industrial Wastewater	Ed Powers, White Plains
Membership	Michael Memoli, Woodbury
Pre-treatment Coordinators	Harry Reiter, Rochester
Program	Paul McGarvey, Amherst
	Richard Pope, White Plains
Public Education	Joe Brillling, Albany
Publications	Robert D. Hennigan, Syracuse
Residuals & Biosolids	Jeff LeBlanc, Jordan
Safety	Paul Zoltanetzky, Brooklyn
Scholarship	Alfonso Lopez, New York
Sponsors	Joe Massaro, College Point
Spring Meeting Conf. Management	David Barnes, Buffalo
Student/University	Walter Saukin, Riverdale
Sustainability	Vincent Rubino, Parsippany, NJ
Wastewater Collection Systems	J. Kirk Rowland, Tonawanda
Wastewater Facilities	Gerard Moscinski, Troy
Watershed	Fred Schuepfer, Pearl River
Young Professionals	Joe Fiegl, Buffalo

Executive Director and Staff

Executive Director	Patricia Cerro-Reehil
Director of Special Projects	Robert D. Hennigan
Advertising Manager	Maureen Kozol
Administrative Manager	Margaret Hoose

Clearwaters Magazine

Executive Editor	Robert D. Hennigan
Editor	Lois Hickey
Design	Sabach Design

www.nywea.org

President's Message	4
Robert Kukenberger	

Executive Director's Message	5
Patricia Cerro-Reehil	

Hudson River Highlights	6, 7
-------------------------	------

Water Views	9
James Tierney	

Focus on Safety	9
Eileen Reynolds	

Celebrating Hudson's Quadricentennial – Historic Voyage Gives Rise to Birthplace of Modern Environmental Movement	12
Tara Sullivan	

The Hudson River Valley Greenway: Natural and Cultural Access	15
Scott Keller	

Dredging: Key to Future Health of Hudson River	20
Kristen Skopek	

Managing Majesty: The Hudson River Estuary Program	25
Dan Shapley	

A Resurrected River Meets a New Generation and Its Challenges	30
Dan Shapley	

Spring Meeting Highlights	34, 35
---------------------------	--------

The Hudson River PCB Cleanup – A Light at the End of the Tunnel	42
Manna Jo Greene	

Better Site Design: Working Together to Protect Our Water Resources	50
Barbara Kendall	

Making the Hudson Swimmable	53
Shayne Mitchell	

Albany Pool Communities Join Forces for CSO Long-Term Control	54
Leif Engstrom	

American Shad in the Hudson River: A Resource in Trouble (Reprint)	56
Kathryn Hattala and Andrew Kahnle	

"Trees for Tribes" Initiative	62
-------------------------------	----

Cover image: This photo of the historic educational sailing ship, the Clearwater, was taken in September 2006 at the Hudson River Arts Festival in Poughkeepsie, NY by Moses Fridlich of Monroe, NY. First launched in 1969, the Clearwater is a 106-foot wooden sailing vessel owned by the environmental organization also known by that name, and is patterned after the 1870's Hudson River sloops that were designed to deal with the challenges of strong tides, shallow waters and variable winds encountered on the Hudson River.

The concepts, ideas, procedures and opinions contained in the articles in this publication are those as expressed by the various authors who submit the material for publication. The New York Water Environment Association, its board of directors, the editor, the executive director, and administrative staff hereby assume no responsibility for any errors or omissions in the articles as presented in this publication; nor are the concepts, ideas, procedures and opinions contained in these articles necessarily recommended or endorsed as valid by NYWEA, its board of directors, the editor, the executive director, or staff.

CLEARWATERS (USPS 004-595) (ISSN 01642030) is published quarterly with a directory every four years in the fall by the New York Water Environment Association, Inc., 525 Plum Street, Suite 102, Syracuse, NY 13204. Subscription is through membership; public subscription is \$25.00/year. PERIODICALS postage paid at Syracuse, NY. POSTMASTER: Send address changes to the New York Water Environment Association, Inc., 525 Plum Street, Suite 102, Syracuse, NY 13204.

♻️ Clearwaters is printed on recycled paper.