



Clearwaters

New York Water Environment Association, Inc.

NYWEA Board of Directors

Officers

- President** Thomas J. Lauro, New Rochelle
- President-Elect** Robert Kukenberger, Syracuse
- Vice President** Bruce Mann, Cazenovia
- Vice President-Elect** Thomas Whetham, Buffalo
- Immediate Past President** Janice Jijina, Woodbury
- Treasurer** Nicholas Bartilucci, Woodbury
- WEF Director** J. Kirk Rowland, Tonawanda

Chapter Representatives

- Capital** Gerard S. Moscinski, Troy
- Central** Ken Knutsen, Liverpool
- Genesee** Doug Alaimo, Avon
- Long Island** Steven A. Fangmann, Woodbury
- Lower Hudson** John Sansalone, New Paltz
- Metropolitan** Richard Gardner, Glen Cove
- Western** Bryan T. Smith, Buffalo

Committee Representatives

- Jean Malafronte, New York
- Anthony DellaValle, Jackson Heights
- Randy Ott, Syracuse

Young Professionals Representative

- Vincent Apa, Latham

Operator Representative

- William Grandner, Brooklyn

- House of Delegates** Robert Adamski, Brooklyn
J. Kirk Rowland, Tonawanda

Committee Chairpersons

- Awards** Robert Butterworth, Cazenovia
- Environmental Science** Philip Sears, New York
- Exhibits** Anthony DellaValle, Jackson Heights
- Government Affairs** Daniel Bentivogli, Buffalo
- Humanitarian Assistance** Jean Malafronte, New York
- Industrial Wastewater** Robert Wither, Albany
- Membership** Michael Memoli, Woodbury
- Pre-treatment Coordinators** Harry Reiter, Rochester
- Program** Paul McGarvey, Amherst
Richard Pope, White Plains
- Public Education** Donna Potorti, Woodbury
- Publications** Robert D. Hennigan, Syracuse
- Research** Kathleen O'Connor, Albany
- Residuals & Biosolids** Jeff LeBlanc, Jordan
- Safety** Vacant
- Scholarship** Alfonso Lopez, Corona
- Small Communities** Vacant
- Sponsors** Joe Massaro, College Point
- Spring Meeting Conf. Management** David Barnes, Buffalo
- Student/University** Walter Saukin, Riverdale
- Wastewater Collection** Tim Miller, Albany
- 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
Tom Lauro

Executive Director's Message 5
Patricia Cerro-Reehil

Seventy-ninth Annual Meeting Highlights 6, 7

Water Views 9
Sandra L. Allen

New York's Changing and Enduring Canal 10
John C. Callaghan

2007 Spring Meeting Highlights 14, 15

**Erie Canal Greenway Grants:
Revitalizing New York's Original Main Street** 16
Carmello Mantello

**Western Erie Canal Heritage Corridor:
Using the Canal as a Community Resource** 24
Pamela Pollack

Buffalo's Hamburg Drain CSO and the Erie Canal 29
Franklin DiMascio, Christopher Martin and Daniel Bentivogli

Oswego's Crown Jewel Off Polluted List 35
Robert Townsend

Water Level Management in the Oswego River Basin 39
Howard M. Goebel

Dredging Keeps State Canal System Navigable 44
Peter Weisbecker

**Montezuma National Wildlife Refuge:
Forged by Water, Yesterday and Today** 47
Andrea Stewart

Return to Glory: The Resurgence of Onondaga Lake 52
Karen Williamson and Don Hesler
Reprinted with permission from New York State Conservationist, August 2006

**Environmental Innovation:
Growing Willow Biomass Crops for Renewable Energy** 55
Timothy Volk, Tom Amidon, Lawrence Abrahamson, Lawrence Smart,
Edwin White and Douglas Daley

Of Interest and Operator Certification Testing Change 57

Scholarship Donor Snapshot 61

Cover Images—Center: A Syracuse marker states the historic significance of New York's Erie Canal (photo by Galan Frysinger). Top: Circa 1918, a tug tows a fleet of barges toward Lock E-2 at Waterford, NY on the newly enlarged Barge Canal. Lower left: Enthusiasts of cycling the Erie Canal. Lower right: Modern-day tug and barge passing pleasure boats near Waterford lock. Bottom right: Sign directs canal visitors at junction between the Erie and Champlain Canals. Photos courtesy of the NYS Canal Corporation.

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.