



AQUA-DUCT

Newsletter of the New Jersey Section - American Water Resources Association
Spring 2006

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Join the NJ Section in welcoming the NY, PA, DE and Philadelphia Sections to:
The 2006 MidAtlantic AWRA Conference
June 14-16, 2006
NJ School of Conservation
Branchville, NJ

“Stream Restoration & Protection in the MidAtlantic Region”

- 3 Keynote Presentations
- Over 35 technical presentations & posters
- Field Trips—Hiking, Biking, Canoeing, Waterfalls and more!
- Workshops—Geomorphology, Macroinvertebrates
 - Opening BBQ
- Annual MidAtlantic Banquet at the Walpack Inn (www.walpackinn.com)

http://awra.org/state/new_jersey/mac2006/ for the full program and online registration

Join us for what promises to be an informative and fun conference.

Check out the NEW NJ-AWRA website:
www.njawra.org

President's Message, Paul Scally, P.E. Spring and Springs have Sprung!

On behalf of the Executive Officers of the New Jersey Section of the American Water Resources Association (NJ AWRA), I am delighted to wish you a happy and wonderful spring-time! After a relatively dry March, due to the lack of precipitation, it is nice to know that spring weather will replenish our spirits, and to some extent, our springs. In a normal spring, the ground typically in the highlands of New Jersey has springs of water, which are too numerous to count! This annual rite-of-spring is as old as time. What are not so ancient, are the various activities of man, which sometimes disturb these natural patterns. Anthropology, what a treatise on this science. Don't you just love it? Hind-sight, it is said, is 20 - 20, though I sometimes still need glasses. How bewildering it is to ponder the management policies (or lack thereof) of our "fore-fathers" during and after the Industrial Revolution. What were they thinking??? Perhaps, future generations will regard our policies and procedures in the same manner, despite all of our efforts as "stewards of the environment." Time will tell for sure, but it is evident from the state of our stream-banks that a tremendous amount of erosion is occurring in the "here and now." Those little mountain springs of ours can become terrible torrents and raging rivers, particularly when the activities of man are not properly controlled. Ah, Stream Geomorphology and Restoration...subjects of the NJ-AWRA-hosted Mid-Atlantic Conference of the AWRA...do these sciences provide answers needed to stop the madness? You will just have to see for yourself by attending the "MAC" this June 14 through 16 at Montclair State University's New Jersey School of Conservation (see www.csam.montclair.edu/njsoc for details). I hope to see you there!

The "MAC" is one of many ways that the NJ-AWRA offers our membership the highest quality educational and experiential opportunities, which have been our trademark for more than a third of a century. Our Section will also be honoring an individual that exhibits great achievement in the water resources field, as that professional will receive the Section's annual Homack Award. In addition, several informative water resources-related field trips are being planned. Details will follow about these and other informative events such as, the various NJ-AWRA Committee Meetings and the annual Water New Year celebration. Of course, the monthly NJ-AWRA Board Meetings are open to all members, and especially to those aspiring to serve the membership in a greater capacity, while enhancing their water resources management skills. For those that would like to read excellent summaries about these events, the NJ-AWRA website and the quarterly Aqua-Ducts provide various informative articles. I am going to sign-off now and reiterate my wishes for you to have a wonderful spring-time!

NJ-AWRA Committee Reports

Stream Restoration Committee

The Stream Restoration Committee met in February for a presentation from Marit Larson of NYC Parks. Marit reviewed several restoration projects on the Bronx River. The subcommittee of the SRC that is assisting the Raritan Basin Watershed Alliance has been meeting on a regular basis—we've reviewed approximately 75 stream inventory and assessment methods in order to recommend the best methods for use in the Raritan Basin. We will be presenting our work at the next SRC meeting on April 25th, and then again at the MAC conference in June. Stay tuned to the NJStreams listserv (at Yahoo Groups) and the NJ-AWRA website for information on field trips this summer.

Contact: Kathy Hale @ khale@raritanbasin.org

Groundwater Committee

The March 31, 2006 Groundwater Committee meeting, held at Montclair State University, heard a technical presentation by D. Uphori entitled "Development and Calibration of a Groundwater Flow Model for the Central Passaic Basin." The presentation compared results of earlier modeling and impacts of draw-down between 1898 and 2003 for wells in confined and unconfined aquifers. Questions and discussion followed.

The Committee is beginning to put together ideas for a future groundwater conference or workshop. The Committee requested that members provide suggestions for future field trips. The next meeting of the NJAWRA's ground-water committee will be held September 13, 2006 PM in the Goddard Conference Room at the Delaware River Basin Commission.

Contact: Jeff Hoffman @ Jeffrey.L.Hoffman@dep.state.nj.us

Volunteers Wanted – NJ-AWRA is looking for a volunteer (s) to organize one or more student chapters at New Jersey colleges and universities. Historically the Section has provided financial seed money to assist college faculty and others to organize Student Chapters. Contact John Miller, Section Vice President at: jmiller@princetonhydro.com

Committee Meetings and Field Trips

April 25, 2006 – Stream Restoration Committee Meeting – Contact Kathy Hale at khale@raritanbasin.org

May 17, 2006 – NJ-AWRA North Region Sponsored Meeting – New Jersey Meadowlands, For further information contact Nick Agnoli, North Regional Rep at agnoli@hotmail.com or nicholas.agnoli@njmeadowlands.gov

September 13, 2006—Groundwater Committee Meeting—@ DRBC. Contact Jeffrey Hoffman, Central Director at Jeffrey.L.Hoffman@dep.state.nj.us

To be Announced – NJ-AWRA Central Region-Sponsored Meeting –Contact: Jeffrey Hoffman, Central Director at Jeffrey.L.Hoffman@dep.state.nj.us

To be Announced – NJ-AWRA South Region-Sponsored Meeting – Contact: Robert Kull, P.P., AICP, South Director at RKull@co.burlington.nj.us

To be announced: Stream Restoration Committee Field Trip to Hoffman Park Stream Restoration Project. Tentatively scheduled for late July or early August. Contact Kathy Hale at khale@raritanbasin.org for more info.

To be determined: Certified Floodplain Manager Training. Contact cleighton.smith@dewberry.com for more information.



Section Adopts Revised Bylaws

The New Jersey Section AWRA adopted revised bylaws at its meeting on March 27, 2006. A Bylaws Committee has worked over the last year to prepare the changes for the Section's consideration and comment. Bylaws Committee Chairman Robert Uhrik cited the following highlights of the changes:

- ☞ Addition of the "Supporting membership" class of membership.
- ☞ Addition of the new Officer position of "Membership Coordinator".
- ☞ The President term is extended to a maximum of three years.
- ☞ The newly established "Specialized Committees" are recognized and the chairs are included on the Executive Board
- ☞ Regional Representatives - new charge of membership outreach in their local region
- ☞ Participation of liaisons
- ☞ Added discretionary spending of up to \$200 between meetings for operating expenses
- ☞ Newly drafted Email and telephone voting criteria for the Executive Board
- ☞ Changes in quorum and meeting requirements
- ☞ Election procedure changes

The newly adopted Bylaws revision is now posted on the NJAWRA website. Everyone on the Bylaws Committee and the Executive Committee has worked diligently to provide the best possible document to serve the needs of both the membership as well as all Water Resources professionals.

The NJ Section now enters a new era as some of the bylaw changes are in new and exciting directions. The Section can now look forward to enhancing the commitment to it's membership and the goal of providing education, outreach, research, planning and advancement of Water Resources in New Jersey.

Robert Uhrik, Past President 2000~2001, Bylaws Committee Chair 2005

NJ-AWRA Vice President to Present Paper on Flood Mitigation Task Force

John Miller, NJ-AWRA vice-president, will be presenting the following at the June 11-16, 2006 Association of State Flood Plain Managers' Annual Conference to be held in Albuquerque, New Mexico.

NEW JERSEY GOVERNOR'S FLOOD MITIGATION TASK FORCE

John A. Miller, P.E., CFM, Princeton Hydro, James K. Mitchell, Ph. D., Rutgers University, and Cleighton Smith, P.E., CFM, Dewberry

Acting Governor Richard J. Codey established the Delaware River Flood Mitigation Task Force after two successive floods in September of 2004 and April 2005 caused widespread heavy damage in New Jersey river towns. Its members include mayors of the affected communities, state and federal agencies, NGOs, academics, consultants and other stakeholder groups.

The Task Force's charge is to:

- Assess "what happened"
- Analyze "critical management decisions"
- Identify "next steps" in the areas of river management, infrastructure improvement, land use management & property acquisition, institutional tools, funding, and community outreach & public education

The Task Force has adopted an ambitious schedule of work targeted for completion before the beginning of 2006 when a new state administration takes office. A series of public meetings were held to gather information from affected communities and subcommittees were created that focus on Technical issues, Funding and Community Outreach and Public Education.

Some of the recommendations, if implemented, will bring far-reaching changes in the formulation of new State policy, regulations, training, projects, and other aspects of flood hazard management. This paper discusses the Task Force's findings and recommendations as well as the author's judgments about prospects for implementation.

Past Presidents' Meeting: Restoring New Jersey Streams: A Geomorphic View and Its Implications

By: Robert Limbeck, Watershed Scientist, Delaware River Basin Commission

Streams do work and transport sediment. Limbeck reviewed William Davis' Landscape Evolution Model which covered young landscapes where there is rapid channel incision (Grand Canyon, Arizona and the Rocky Mountain west) and mature to old landscapes where energy, and work, become more evenly distributed and channel incision slows in relation to hilltop erosion.

He reviewed the Davis Landscape Evolution Model and its implications. He noted that the type of watershed and position within that watershed must be known prior to any modifications. Current methods (Rosgen, 1996) generally relate this by classifying the valley type as young, mature and old. "Zero-order" streams (rills and gullies) occur where hilltops are gradually eroded and sediment is supplied to larger order streams. "Zero-order" streams don't show up on maps as this process is often overlooked. Larger-order mature streams transport supplied sediment and gradually erode their valleys. Hillside erosion is one of the processes supplying sediment to the stream.

Accelerated landscape evolution occurs when forest cover is removed for agricultural land uses (cropping, woods grazing, etc.) followed by construction that occurs with urban development. Sediment yield in tons per square mile increases under the former condition and greatly accelerates under the latter condition.

Sediment is stored in the average watershed as follows:

- 80-90% of eroded sediment stored
- 70-80% on hill slopes and floodplains
- 20-30% in riverine system (channel)
- 10-20% leaves basin

In a natural system hilltop/slope erosion results in three locations for the sediment, namely, colluvial storage (land to edge of stream) and alluvial storage (water deposition) and at the basin outlet. In a disturbed system the amount of stored sediment increases in each of these categories. Increasing erosion and storage results in increasing loads in the drainage area. Types of sediment include legacy, disturbed and natural.

Leopold and Langbein found in 1962 that streams strive to distribute available energy as evenly throughout the fluvial system as physical constraints permit – theory of minimum variance. Natural streams exist in open systems where the boundary conditions are variable. Natural channels, therefore, tend toward a "dynamic equilibrium." Boundary conditions (change one and change all) include:

- Watershed Size
- Discharge
- Velocity
- Sediment Load
- Cross Sectional Area
- Width
- Depth
- Slope
- Meander Geometry
- Substrate Size



The "size" of the channel is determined by the stream's energy, the slope, and the flow of water in balance with the size and quantity of the sediment particles the stream moves. Dynamic equilibrium occurs when no net degradation or aggradation occurs, sediment supplied equals sediment removed, cannot apply to an entire stream and is a transient condition that generally doesn't apply to stream reaches for extended periods of time (unless base level is reached, energy is always available to do work). As a result of the energy, the

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stream can do work and will continue to adjust towards a base level – we merely impact the rate through restoration, urbanization, etc.

When a flood occurs, if other boundary conditions remain static, the stream will redistribute energy, minimize variance, and come back to the original bankfull pattern, profile and dimension. When flood frequency changes, the stream will redistribute energy and minimize variance, but will not come back to the original bankfull pattern, profile and dimension.

Channel form can be used to determine the restoration potential of stream reaches. It can be used to determine the history of channel incision or widening, and to predict the course of healing. There are three general valley types and river zones. Zone 1 or Headwaters include mountain headwater streams which flow swiftly down steep slopes and cut a deep V-shaped valley with rapids and waterfalls being common. Zone 2 or Transfer Zone are low-elevation streams that merge and flow down gentler slopes. The valley broadens and the river begins to meander. Zone 3 or the Depositional Zone is where the river wanders and meanders slowly across a broad, nearly flat valley.

Rosgen's Stream Classifications are as follows:

Dominant Slope Range (Percent)	Stream Type
>10	Aa+
4-10	A
2-4	B
<2	C
<4	D
<0.5	DA
<2	E
<2	F
2-4	G

Each of these stream types have differing cross sectional views and plan views.

It was most noted that in New Jersey the most common problems include incision, widening and stormwater. A number of projects were reviewed including Saddlers Run, Shark River Coalition, and New Jersey Water Supply Authority's Mulhockaway Creek project.

Structures for restoration include bioengineering, bioengineering with dimensions, meanders and bench, cross vane, W-weir, rocky vane and J-hook.

More details on stream restoration will be forthcoming at the upcoming Mid-Atlantic Conference!



2006 President Paul Scally presents Past President Ray Zabihach with a token of the NJ Section's appreciation for his service at the 2006 Past President's meeting.

NJ-AWRA Participating in Watershed-Based Management Initiative

The Municipal Land Use Center at the College of New Jersey (MLUC) has received a \$30,000 grant from the National Fish and Wildlife Foundation (NFWF) to coordinate watershed-based resource management efforts with six municipalities along the Delaware River corridor. Mayor Gregg Rackin of Stockton Borough worked with the leaders of five neighboring municipalities to gauge interest in the MLUC pursuing NFWF funding. NJ-AWRA has been requested by the MLUC to have a representative to serve on a Technical Advisory Committee (TAC). The TAC will help guide the delivery of mapped land use and environmental data relevant to the portion of the Delaware River watershed within the boundaries of the participating municipalities. Participating municipalities include Alexandria, Delaware, Frenchtown, Kingwood, Milford, and Stockton Borough.

New Jersey Association for Floodplain Management Conference Planned

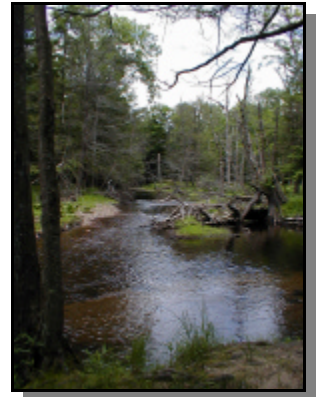
The New Jersey Association for Floodplain Management is planning its annual conference slated for October 26–27, 2006 at the Doubletree Hotel, Somerset, site of last year's highly successful event. The two day conference will include a plenary session, breakout sessions, technical assistance, Certified Floodplain Manager exam and field trip. A call for abstracts for presentations will be issued shortly. Contact: Cleighton Smith, Secretary, at: cleighton.smith@dewberry.com for further information.

**2006 Mid-Atlantic Conference (MAC)
“Stream Restoration and Protection in the Mid-Atlantic Region”
June 14-16, 2006**

[Http://www..awra.org/state/new_jersey/mac2006](http://www..awra.org/state/new_jersey/mac2006)

The program is set and on-line/mail-in registration is in full swing for “**Stream Restoration and Protection in the Mid-Atlantic Region**”, the annual conference of the Mid-Atlantic Sections (NJ, NY, PA, Philadelphia, and DE) of the AWRA. Our location is the beautiful School of Conservation in Branchville, NJ .

We see this conference as an important step in fostering a dialogue among scientists, natural resource managers and engineering professionals currently involved with stream restoration and protection projects in the Mid-Atlantic region. We are planning an outstanding program and expect that the conference will be attended by a broad range of individuals including engineers, planners and environmentalists, as well as federal, state, county and local government officials.



Three outstanding keynote presentations will be featured, along with over 35 technical presentations and posters on all aspects of stream restoration and protection (full program on web site). The conference venue New Jersey School of Conservation, is an environmental education camp operated by Montclair State University on a 240 acre campus within beautiful Stokes State Forest in far northwest New Jersey, promising a unique conference experience. Taking advantage of the setting, we are offering a variety of field-based workshops and trips (descriptions on web site). A small lake on the campus offers canoeing and fishing; one of NJ's best trout streams borders the property; hiking opportunities abound

Early registration closes May 1. The bargain price of \$145 includes 6 meals. Space is limited to ~120, so register early!

"MAC is certain to provide the attendee with detailed information about the innovate scientific processes pertaining to stream restoration. The MAC learning experience can serve as a catalyst for attendees to pursue extensive training in advanced programs at such places as West Virginia University, Canaan Valley Institute, and the Rosgen program. While these programs may be more costly to attend than the MAC, I believe that it is worth the investment to obtain proficiency in this critical field of water resources management." - Paul Scally

2006 Homack Awardee Chosen

The Honorable Vernon A. Noble, Chairman Emeritus of the Green Brook Flood Control Commission, was chosen as the 2006 Peter Homack Awardee by the NJ-AWRA Executive Committee on March 27th. Mr. Noble has served as Mayor of Green Brook, Somerset County Freeholder and Somerset County Surrogate Judge over the years.

For over 35 years Mr. Noble has led the Green Brook Flood Control Commission. The Commission was formed as a result of the local response to the 1971 and 1973 floods. Initially, leadership came from what was originally called the Mayors Committee for Flood Control (along the Green Brook) who were able to persuade the Legislature of the State of New Jersey to adopt the enabling legislation which authorizes the organization of flood control commissions, by municipalities and/or counties.

As a result of this enabling legislation, the Green Brook Flood Control Commission was authorized by the State of New Jersey and consists of volunteer representatives appointed by the flood-affected municipalities and counties, as well as the State. Representatives of Middlesex, Somerset and Union Counties as well as Bound Brook, Bridgewater, Dunellen, Green Brook, Middlesex Borough, North Plainfield, Piscataway, Plainfield, Scotch Plains, South Plainfield, Warren and Watchung serve on the Commission. The Commission regularly holds open meetings to discuss their goal of a comprehensive flood control solution for the entire Green Brook Basin. This flood control commission enabling legislation is now being considered for use by counties and municipalities in other locations of New Jersey including southern Middlesex County and Gloucester County.

After many years, actual construction work began in Bound Brook Borough in approximately the year 2000. The full completion for the protection for the Borough of Bound Brook is now within sight. Final design of the last piece is underway, and there is reason to hope (providing the Federal Government and the State of New Jersey provide the necessary appropriations) that the final piece of protective construction in Bound Brook can get under way within the next couple of years, and be completed within one or two years thereafter. As a result of the efforts of the Green Brook Flood Control Commission, funding appropriated thus far for the work of the Corps of Engineers is approximately \$50 million plus contributions from the State of New Jersey are estimated to be approximately \$10 million.

Flood management provides a venue for the balance of the natural environment with human existence. Unfortunately, there must be a compromise between man and nature due to the consequences of the lack of environmental awareness and foresight of those who originally selected the area for human occupation, and the effects of other development in the watershed. With this awareness, we must provide a better stewardship than those who preceded us so that we leave a better legacy for those who follow. Since none of us is infallible, public input and involvement is essential to the successful undertaking of water resources projects so that an appropriate balance is achieved. Vern Noble has served as a voice of the public and should be recognized for providing an outstanding contribution to the management of water resources through his steadfast dedication and pursuit of the Green Brook project for the benefit of the community.

As a number of fellow water resource professionals have indicated, Vernon A. Noble's role in the pursuit of flood damage reduction in the Green Brook watershed is legendary. It is seldom that we encounter an individual who is so dedicated and unrelenting in pursuit of a goal for the benefit of the public. Too often the initial energy and interest that we see in others wanes after a few years or when the path becomes difficult. Not so with Vern! He is an inspiration and a fine example for public officials to follow and, as one long-term colleague described him, "the most dedicated public servant I've have ever known."

Flood Mitigation Task Force Update

A letter from the Lisa Jackson, newly appointed NJDEP Commissioner, and an updated draft report was released for public review on February 16, 2006. Additional information, along with the updated draft report and, when announced, the final public hearing date can be found at: <http://njflood.org/>

Upcoming Events



April 24, 2006: NJ-AWRA Section Meeting

April 25, 2006: NJ-AWRA Stream Restoration Committee Meeting

April 28, 2006: The 11th Ramapo River Watershed Conference, Ramapo College of New Jersey, Mahwah, NJ. Contact: gwelch1@optonline.net

May 1-5, 2006: New Jersey Water Environment Association 91st Annual Conference, Tropicana Hotel & Resort, Atlantic City
More information: <http://www.njwea.org/>

May 8-10, 2006: AWRA Spring Specialty Conference "GIS and Water Resources IV. Renaissance Houston Hotel, Houston, TX. www.awra.org/meetings.

May 11-15, 2006: USEPA Wetlands & Watersheds Workgroup 7th Coastal & Estuarine Shallow Water Science and Management Conference. www.wetlandsworkgroup.org.

May 18-19, 2006: Second Annual Philadelphia Urban Watershed Revitalization Conference. Contact: Khiet Luong at 215-592-7020 X107 or kluong@pecpa.org

May 21-24, 2006: Challenges in Coastal Hydrology and Water Quality. American Institute of Hydrology, 25th Anniversary Meeting, Baton Rouge, Louisiana
Contact: aihydro@aol.com or 770-384-1634

May 22, 2006: NJ-AWRA Section Meeting

June 6-8, 2006: Ecology & Management of Atlantic White Cedar Ecosystems, Holiday Inn-Boardwalk, Atlantic City, NJ. [www.wetlandsworkgroup.org/AtlanticWhite Cedar](http://www.wetlandsworkgroup.org/AtlanticWhiteCedar).

June 11-16, 2006: Association of State Floodplain Managers (ASFPM) Annual Conference, Albuquerque, New Mexico. Website: <http://www.floods.org/>

June 14-16, 2006: Mid-Atlantic AWRA Conference
Stream Restoration & Protection in the Mid-Atlantic School of Conservation, Branchville, NJ
See the NJ-AWRA website for more details and program updates!

June 26, 2006: NJ-AWRA Section Meeting

June 26-28, 2006: AWRA Summer Specialty Conference "Adaptive Management of Water Resources. Missoula Montana. www.awra.org/meetings.

July 24, 2006: NJ-AWRA Section Meeting

August 28, 2006: NJ-AWRA Section Meeting

September 10-13, 2006: 7th International Conference on Hydrosience and Engineering, Philadelphia, PA. [Http://thor.cae.drexel.edu/ICHE2006](http://thor.cae.drexel.edu/ICHE2006).

September 10-14, 2006: Dam Safety 2006, Boston, MA. www.damsafety.org.

September 21-22, 2006: NJ Water Association Management/Technical Conference, Tropicana Hotel/Casino, Atlantic City. www.njwater.org.

September 28-29, 2006: Regional Planning Comes of Age: A conference exploring the promise and practice of regional land use planning in the Mid-Atlantic and Northeast states, on the 25th anniversary of the Pinelands Comprehensive Management Plan. Hyatt Regency, New Brunswick, New Jersey Contact: info@regionalplanningcomesofage.org

October 10, 2006: Clean Water Council Annual Public Hearing. NJDEP, Trenton.

October 13, 2006: 2nd Passaic River Symposium, Montclair State University. Kirk.barrett@montclair.edu.

October 26-27, 2006: New Jersey Association for Floodplain Management Annual Conference Doubletree Hotel, Somerset, NJ Contact: mark.mauriello@dep.state.nj.us
CFM Training will be held at the conference—

November 6-9, 2006: AWRA Annual Conference, Sheraton Inner Harbor Hotel, Baltimore, MD. www.awra.org/meetings.

November 14-16, 2006: NJ Environmental Authorities Annual Meeting. Trump Taj Mahal, Atlantic City. www.aeanj.org.

November 27, 2006: NJ-AWRA Section Meeting

December 11, 2006: NJ-AWRA Section Meeting

TBD: Certified Floodplain Manager Training. Contact Cleighton Smith at cleighton.smith@dewberry.com for details

Useful Web Links

- ✓ NJ-AWRA <http://www.njawra.org>
- ✓ Delaware River Basin Commission <http://www.state.nj.us/drbc/>
- ✓ Natural Resources Conservation Service—NJ <http://www.nj.nrcs.usda.gov/>
- ✓ New Jersey Geological Survey <http://www.state.nj.us/dep/njgs/>
- ✓ New Jersey Water Supply Authority <http://www.njwsa.org/>
- ✓ Raritan Basin Watershed Alliance <http://www.raritanbasin.org>
- ✓ Passaic River Institute <http://www.csam.montclair.edu/PRI/>

Regional Planning Comes of Age—September 28-29, 2006

Hyatt Regency in New Brunswick, New Jersey

A conference exploring the promise & practice of regional land use planning in the Mid-Atlantic and Northeast states, on the 25th anniversary of the Pinelands Comprehensive Management Plan. The conference will include plenary addresses on the big picture of regional land use planning aimed at preserving natural and historic resources while strengthening communities in our dynamic and growing part of the country. Seminars will address topics such as transfer of development rights, growth management tools, protecting water resources through regional planning, economic impacts of regional planning, using regional planning to preserve historic and cultural resources, cooperative planning across political boundaries, and regional zoning and land use regulation.

Seminars will also explore outstanding and developing examples of regional planning, such as the New Jersey Pinelands, the Adirondacks Park, the Long Island Pine Barrens, the Cape Cod Commission, Chesapeake Bay watershed initiatives and much more. To celebrate the 25th anniversary of the Pinelands Comprehensive Management Plan, there will be a banquet on Thursday night the 28th.

To get on the mailing list for updates and registration materials, send an e-mail to info@regionalplanningcomesofage.org or write to:

Regional Planning Comes of Age, c/o Pinelands Preservation Alliance
17 Pemberton Road, Southampton, NJ 08088

The conference web site (under construction) is www.regionalplanningcomesofage.org. If your organization would like to help make this conference a success by working with us, please write to Carleton Montgomery at info@regionalplanningcomesofage.org.

DID YOU REGISTER FOR MAC YET? DON'T WAIT—SPACE IS LIMITED! JOIN US FOR 3 KEYNOTE SPEAKERS, THE ANNUAL BANQUET, FIELD TRIPS AND TOURS! VISIT http://awra.org/state/new_jersey/mac2006/ FOR THE FULL PROGRAM AND ONLINE REGISTRATION.

Help Wanted

Summer Internships - The Delaware River Basin Commission (DRBC), a federal-interstate water resources agency, is currently seeking student applicants for paid *Summer Internships* from May through August in the DRBC's Water Quality Program. Duties include involvement in one or more of the following projects:

Collection of water and biological samples in the Delaware River and its tributaries; Compilation of data on water quality parameters being collected under the DRBC's monitoring program; Research and compilation of data on permitted discharges to the Delaware River and its tributaries; Identification and tracking of contaminated sites in the Delaware River Basin; Operation and maintenance of the DRBC laboratory; Development of Geographical Information System (GIS) mapping of habitat and other basin conditions; Assisting with collection of background information for flood mitigation studies; Other selected assignments in DRBC water quality and water supply programs.

The commission's offices are located at 25 State Police Drive in West Trenton, N.J. near the Delaware River, convenient to I-95 and NJ Route 29. Résumés should be mailed to Richard Gore, Delaware River Basin Commission, P.O. Box 7360, West Trenton, NJ 08628-0360, or emailed to richard.gore@drbc.state.nj.us. For more information about the DRBC, visit its web site at www.drbc.net.

Member News

Ben Witherell, a new member of New Jersey AWRA and a doctoral student in environmental management at Montclair State University, will be giving a talk at the AWRA Summer Specialty Conference on Adaptive Management in Water Resources on "Total Maximum Daily Loads (TMDLs), Water Quality Trading/Banking, and Adaptive Management in New Jersey, Happy Together?" He would be interested in knowing if anyone else from NJ-AWRA is planning to attend this Summer Specialty Conference. He can be reached at benwithere@yaho.com or (908) 399-5106.

About Your Agency

The Delaware River Basin Commission (DRBC or Commission) is an inter-state and federal Compact agency charged by Congress in 1961 with the administration of water resources in the Delaware River Basin in cooperation with other governmental agencies. The Delaware River Basin (DRB) drainage area includes portions of the states of Pennsylvania, New York, New Jersey, and Delaware. Each state in the DRB and the Federal Government has a Commissioner with DRBC, who has one vote of equal power with a majority vote needed to decide most water resource-related issues. Commission programs include water quality protection, water supply allocation, regulatory review (permitting), water conservation initiatives, watershed planning, drought management, flood control, and recreation.

The Vision Statement of the DRBC is as follows: The Commission will be the leader in protecting, enhancing, and developing the water resources of the Delaware River Basin for present and future generations. The Commission will serve as a policy-maker, regulator, planner, manager and mediator on behalf of the Signatories to the Delaware River Basin Compact and the citizens of the Basin.

The DRBC mission is to:

- Provide comprehensive watershed management.
- Act as stewards of the Basin's water resources particularly with respect to:
- Surface water quality, including both point and non-point sources of pollution;
- Ground and surface water quantity, including water demands, water withdrawals, water allocations, water conservation, and protected areas;
- Drought management; and
- Promote effective inter-agency coordination to prevent duplication of efforts.
- Seek increased public involvement.



883-9500, paul.scally@drbc.state.nj.us

Further information can be found on the DRBC web-site:

www.state.nj.us/drbc/

Contributed by: Paul J. Scally, P.E. 609-

NJ-AWRA Membership



Membership numbers in NJ-AWRA have been skyrocketing. There are now 100 members in good standing in NJ-AWRA. Members not in good standing will need to submit their dues payment so that they can continue to receive the newsletter in the future. April 15th was the deadline for dues payment.

Membership Renewal

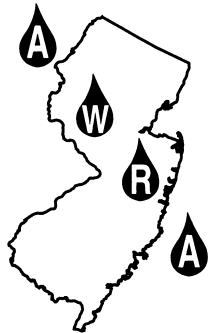
This year the NJ-AWRA is offering two membership categories, Individual Members and Supporting Memberships.

Individual Members may vote, serve on committees, and hold office in NJ-AWRA.

Individual Members are entitled to full benefits of membership including discounts at NJ-AWRA events, access to member-only events, and receiving the Aqua-Duct Newsletter. **Individual Member** annual dues are \$25. In 2006 NJ-AWRA is offering dual membership with the New Jersey Association of Floodplain Management (NJAFM). The mission of NJAFM is to promote sound floodplain management in New Jersey. This organization started as a Committee under NJ-AWRA.

Supporting Memberships are granted to organizations such as public or private corporations, businesses, educational institutions, associations, government agencies, and non-government organizations. **Supporting memberships** receive recognition for their support of NJ-AWRA in the Aqua-Duct Newsletter as well as on the NJ-AWRA website. **Supporting memberships** do not have voting privileges or any benefit of an Individual Membership. **Supporting Membership** dues are \$100 annually.

NJ-AWRA Activities – 2005



January

- January 1: Section officers take positions
- January 4: Floodplain Management Committee meeting
- January 19: Winter 2005 issue of Aqua-duct newsletter published
- January 28: Executive Committee meeting
Section agenda set for 2005
Section approves the formation of Stream Restoration Committee

February

- February 14: Floodplain Management Committee meeting
- February 17: Section co-sponsors municipal stormwater workshop hosted by the Municipal Land Use Center of the College of New Jersey
Audit Committee reviews and approves 2004 treasurer's report

March

- March 18: Past President's Meeting held at Delaware River Basin Commission; presentation by Rick Fromuth on 2004 Delaware River flooding
- March 21, 2005: First meeting of the Stream Restoration Committee

April

- April 11: Floodplain Management Committee meeting
- April 18: Stream Restoration Committee meeting; presentation by Jessica Milose of NJDEP: SFY2006 319(h) Nonpoint Source Funding Guidance – Overview and Potential Stream Restoration Projects
- April 26: Spring 2005 issue of the Aqua-duct newsletter is published
- April 29: Section field trip to Janssen Pharmaceutica; topic – Green Building (LEED) and River-Friendly Business Certification

May

- May 16: Stream Restoration Committee meeting - election of officers and mission statement development
- May 16: Floodplain Management Committee meeting and special presentation on the Community Rating System at DRBC
- May 20: Executive Committee meeting
James C. Amon selected to receive the Homack Award at the Delaware and Raritan Canal Conference
Committee formed to plan for the 2006 Mid-Atlantic Conference

June

- June 1: Section co-sponsors the Delaware and Raritan Canal Conference. The NJ-AWRA Peter Homack Award was presented to James C. Amon, Executive Director of the Delaware & Raritan Canal Commission (retired) during the evening program at the Prallsville Mill in Stockton, NJ
- June 17: MAC Committee meeting; tour of proposed conference location
- June 20: Floodplain Management Committee meeting
- June 20: The formation of a Groundwater Committee was initiated at a special interest meeting hosted by Rick Kropp of USGS

NJ-AWRA 2005 Activities (Continued from page 11)

July

- July 1: Summer edition of the Aqua-duct newsletter is published
- July 11: Stream Restoration Committee field trip on to the Stahl Stream Restoration and Wetland Mitigation Project
- July 12: MAC Committee meeting. Finalized theme, location, general schedule; theme for the 2006 Mid-Atlantic Conference "Stream Protection and Restoration in the Mid-Atlantic Region"
- July 27: Organizational meeting to create Groundwater Committee; Jeff Hoffman elected Chair of Groundwater Committee

August

- August 18: MAC Committee meeting
- August 26: Executive Committee Meeting
By-Laws Committee convened

September (Section membership hits 100 dues paying members)

- September 15: Fall 2005 issue of the Aqua-duct newsletter is published
- September 19: MAC Committee meeting.
- September 19: Stream Restoration Committee meeting; presentation: Walnut Brook Stream Restoration Project – Christine Hall, North Jersey Resource Conservation & Development Council
- September 23: Executive Committee Meeting
- September 27: Tour of Rutgers Eco-Complex with a presentation by the New Jersey Corporation for the Advance Technology
- September 30, 2005: First Annual Water Year Eve Celebration, held in Lambertville, New Jersey and attended by 50 members and significant others; feature speaker: Bradley Campbell, Commissioner, New Jersey Department of Environmental Protection

October

- October 4: MAC Committee meeting
MAC 2006 Call for Abstracts, Exhibitors and Cooperating Organizations issued
- October 6: First regular meeting of the Groundwater Committee convened
- October 28: Executive Committee meeting
Nominating Committee begins process for selecting a slate of candidates for the 2006 Section Officers election

November

- November 2: Floodplain Management Committee of the NJ-AWRA holds conference at Double Tree Hotel in Franklin Township; major success with 150 people; potential attendees had to be turned away due to lack of room.
- November 3: MAC Committee meeting
- November 16: Groundwater Committee field trip to Hammonton and Evesham wastewater recharge sites.
- November 18: Executive Committee meeting
- November 29: Floodplain Management Committee meeting, post Conference discussion

December (Section membership tops 115 dues paying members)

- December 12: Stream Restoration Committee Meeting; Presentation - Watershed Management Area 3 Restoration Master Plan by Jeremiah Bergstrom, TRC Omni Environmental
- December 16: Executive Committee meeting
Election of 2006 Section Officers
New By-Laws Approved



**NEW JERSEY SECTION
AMERICAN WATER RESOURCES ASSOCIATION
PO BOX 7814 WEST TRENTON NJ 08628
www.njawra.org**



Membership Application

The Mission of the New Jersey Section of the American Water Resource Association is:

- To provide a common forum in which to meet, discuss, exchange ideas, and assist all persons concerned with the conservation, development, management, and utilization of fresh and marine waters and related resources together with their environmental aspects.
- To cooperate with Federal, State and local agencies, educational institutions, foundations, private companies, and with other local sections and chapters of the national organizations concerned with water resources.
- To advance water resources research, planning, development, management, and education by collecting, organizing, and disseminating ideas and information in the field of water resources science and technology.

Why Join?

Since [1970](#) the NJ-AWRA has provided professional development and educational opportunities for all persons interested or working in the field of water resources in New Jersey. The Section has grown in the last couple years, both in scope and range of influence, and now provides multiple opportunities for its members, through focused committees, seminars, conferences and field trips. Becoming a part of NJ-AWRA is a way to join with others to work towards a greater understanding of the variety of water resource issues in the State of New Jersey. Join NJ-AWRA - to further your own career and to contribute to the fulfillment of the Section's goals and objectives. We welcome government officials, consultants, suppliers and anyone with an interest in water.

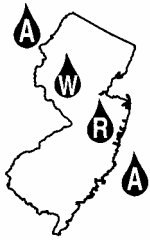
The NJ-AWRA will:

- Keep you up-to-date on the latest technologies and methods
- Offer a network and forum for sharing experiences and lessons learned.
- Provide education courses and tools.
- Bring together the water resource community in New Jersey and help you build a network of State contacts
- Recognize the outstanding contributions of individual achievement through the Peter Homack award.

Some of the many benefits of membership include:

- The Aqua-duct, electronic quarterly newsletters
- Timely membership news sharing through "From the Faucet" emails
- Discounts on attendance at NJ-AWRA events
- Invitation to Members Only events, including field trips and special activities

Challenging Water Resources Professionals for the 21st Century
A Federally Tax Exempt Non-Profit 501(c)3 Organization, Taxpayer ID # 22-2992686



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Membership Categories

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Individual Membership - Individual Members may vote, serve on committees, and hold office in NJ-AWRA. Individual Members are entitled to full benefits of membership including discounts at NJ-AWRA events, access to member only events, and receiving the Aqua-duct Newsletter.

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*The NJ-AWRA Membership year is from January 1 through December 31.
Please mail to NJ-AWRA at the address above.*

Your NJ-AWRA Membership....

Check all categories that apply.

- Individual Membership (\$25 annual fee)**
 Supporting Membership (\$100 annual fee)
 Dual Membership in NJAFM *

Mr. Ms. _____ Other

First Name _____ M.I. _____

Last Name _____

Did someone recruit you (who)?

Preferred mailing address?

Residence Business

Residence:

Address _____

Address _____

City/State/Zip _____

Phone _____

Email _____

Date _____

New Member or **Renewal**

Include me in the membership directory

Check Enclosed payable to "NJ-AWRA"

Please contact me to assist with NJ-AWRA

Scholarship Fund Contribution \$ _____

How did you get this form? Website Event

_____ Other (what event?)

Water Resource

Interest(s) _____

Are you already active on a Committee?

Stream Restoration Groundwater

Business:

Position/Title _____

Organization _____

Address _____

Address _____

City/State/Zip _____

Phone _____ Fax _____

Email _____

** The New Jersey Association for Floodplain Management's (NJAFM) mission is to promote sound floodplain management in New Jersey. The Association started as a Committee under NJ-AWRA and in 2006 we are offering a dual membership in NJAFM. If you check the above box, your \$25 dues to NJ-AWRA also cover your membership in NJAFM.*

NJ-AWRA SECTION INFORMATION

2006 Section Meetings

Meetings are held monthly at 1 pm. Meeting locations are as indicated (SC Admin = Somerset County Administration Building, Somerville). All members are welcome to attend.

April 24, 2006 (Cranbury Inn)	September 25, 2006 (SC Admin)
May 22, 2006 (SC Admin)	October 23, 2006 Cranbury Inn)
June 26, 2006 Cranbury Inn)	November 27, 2006 (SC Admin)
July 24, 2006 (SC Admin)	December 11, 2006 Cranbury Inn)
August 28, 2006 Cranbury Inn)	January 22, 2007 (TBD)

2006 Leadership and Affiliation

Name	Title	Employment Affiliation	Phone E-mail Address
Paul Scally	President	Delaware River Basin Commission	609-883-9500 X251 pscally@drbc.state.nj.us
John Miller	Vice President	Princeton Hydro, LLC	908-237-5660 x 116 jmiller@princetonhydro.com
James Lynch	Secretary	Union County	908-789-3673 jlynch@ucnj.org
Kathy Hale	Treasurer	New Jersey Water Supply Authority	908-685-0315 X28 khale@rارانbasin.org
Mary Paist-Goldman	Membership Coordinator	Princeton Hydro, LLC	908-237-5660 mpaist@princetonhydro.com
Raymond Zabihach	Immediate Past President	Morris County Planning Board	973-829-8120 rzabihach@co.morris.nj.us
Nick Agnoli	Northern Regional Representative	NJ Meadowlands Commission	(201) 460-1096 Nicholas.agnoli@njmeadowlands.gov
Jeffrey Hoffman	Central Regional Representative	New Jersey Geological Survey	(609) 984-6587 Jeffrey.L.Hoffman@dep.state.nj.us
Robert Kull	Southern Regional Representative	Burlington County Economic Development and Regional Planning	609-265-5055 RKull@co.burlington.nj.us

Newsletter Submissions

Did you attend an interesting water resources event? Do you know of an upcoming event? Did you see an interesting article you'd like to discuss? Did you work on an innovative project? Then we want to hear about it! ALL members of the NJ-AWRA are encouraged to submit articles and news for future issues of The Aquaduct. The deadline for submission of information/articles to the editor for the Summer 2006 edition of The Aquaduct is July 1. Please send articles to gregory.westfall@nj.usda.gov.

Membership Renewals

Membership dues for 2006 are now being received. Please designate that your dues are for 2006. Annual dues are \$25. A membership application is available on the Section website. We hope you will continue to be a part of the Section. Member benefits include the Aquaduct newsletter, reduced registration fees for Section Conferences and other events and the opportunity to network with other water resource professionals.

New Jersey Section of the American Water Resources Association Mission Statement

The Section has a mission to provide a common forum in which to meet, discuss, exchange ideas, and assist all persons concerned with the conservation, development, management, and utilization of fresh and marine waters and related resources together with their environmental aspects. Its mission is also to cooperate with Federal, State and local agencies, educational institutions, foundations, private companies, and with other local sections and chapters of the national organizations concerned with water resources.

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