

# I N S I D E T H E PINELANDS

DECEMBER 2007/JAN. 2008

SPECIAL WATER ISSUE

VOLUME 15, NUMBER 2

## TRANSFERRING POLLUTION TO PROTECT THE PINELANDS



Photo: Fred Akers

*Failing detention basin in Hamilton Township, Atlantic County*

*by Fred Akers, Executive Director,  
Great Egg Harbor Watershed  
Association*

Prior to the adoption of the Pinelands Comprehensive Management Plan (CMP), the U.S. Department of the Interior published a full Environmental Impact Statement (EIS), including an analysis of alternatives. The final EIS for the Pinelands National Reserve analyzed the following five alternative management strategies: No Plan, Proposed CMP, More Preservation Oriented CMP, More Development Oriented CMP, and Federal/State Management Alternative.

There was serious concern in this

analysis whether any of these alternatives would actually work on an ecosystem basis. It was already recognized that pollution and other adverse impacts that occur in one part of an ecosystem could readily affect other parts of the ecosystem.

Given the importance of surface water and ground water to the Pinelands ecosystem, there was concern that significant changes in water quality and quantity would seriously compromise Pinelands natural values in the future. This in turn would defeat the intent of the federal legislation of preserving, protecting, and enhancing the natural and cultural resources of the Pinelands National Reserve.

The outcome of the EIS was the selection of a CMP that was essentially a compromise between a More Preservation Oriented CMP and a More Development Oriented CMP, where the "preferred alternative" was not the "environmentally preferable" alternative. The principal mechanism to protect the Pinelands under the adopted CMP was a zoning scheme that would transfer development and its associated pollution from the Preservation and Forest Areas to Regional Growth Area, Pinelands Towns and Villages, and Rural Development Areas. The possible negative and positive consequences of this plan were recognized in the EIS:

"It is expected that Rural Growth Districts, Regional Growth Districts, and Pinelands Villages and Towns would contribute to some loss of water quality as discussed under the No Plan alternative. Concentrating development would potentially provide for more efficient waste management, and leave the large Preservation Area and Forest District regions in a pristine state. Proposed CMP water quality standards for these areas are very stringent, and do not allow for any pollutant impact. Water standards for the other districts are not as stringent. Data presented under the discussion of pollutants shows that they

*continued on page three*

PINELANDS DISCOVERY FESTIVAL KICKS OFF PINELANDS MONTH



Blue skies and balmy temperatures greeted visitors to the 12th annual Pinelands Discovery Festival on October 7 at historic Whitesbog Village. Nature walks, wagon rides, exhibits, music, games and the 3rd annual *Tour de Pines* bicycle ride provided the kick-off to Pinelands Month in New Jersey.



Up close with a wolf



Children's activities were popular



A rehabilitated hawk was released



Tractors on parade



Jack Cresson demonstrated flintknapping to onlookers



Screech owl observing the festivities

**SHOP THE NEW PPA ONLINE STORE FOR YOUR HOLIDAY GIFTS!**

**Why not give the gift of the Pinelands this holiday season?**

Check out the new online store at PPA's website for great ideas for holiday gifts for your friends and family. A wide selection of books, videos, hats, clothing and posters can now be purchased through our secure online store.

[www.pinelandsalliance.org](http://www.pinelandsalliance.org)

**PINELANDS COMMISSION MEETINGS**

Friday, December 14, 9:30am

**OPEN TO THE PUBLIC**

**CALL (609) 894-7300 FOR DETAILS**

**PINELANDS WATCH**

Get involved in our activist network and help make a difference! To receive the Pinelands Watch or alert us to an issue of concern in your community,

call (609) 859-8860 x22 or e-mail [theresa@pinelandsalliance.org](mailto:theresa@pinelandsalliance.org)

**INSIDE THE PINELANDS**

*Published six times a year by the PINELANDS PRESERVATION ALLIANCE*

**Executive Editor:**  
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**Distributed to:**

PPA members and volunteers, state legislators, Pinelands municipalities, elected officials, planning boards, and selected officials.

Our newsletter is available online at: [www.pinelandsalliance.org](http://www.pinelandsalliance.org)

*Printed on 100% recycled paper (made from 100% post-consumer pulp produced in a chlorine-free pulping and bleaching process)*



are already present in moderately developed areas and agricultural lands”.

An analysis of management area acreage reveals that the Rural Development Areas, Regional Growth Areas, Federal Installations and Pinelands Villages and Towns make up about 33% of the Pinelands under the jurisdiction of the CMP. So in essence, one-third of the Pinelands were planned to be sacrificed with regards to water quality, to protect two-thirds of the Pinelands in the Preservation and Forest Areas.

Twenty-six years later, it appears that the original ecosystem protection concerns were well founded — indeed, understated. We now know that the impacts on water quality from growth and agricultural areas reach deep into the Preservation and Forest Areas. For example, a 2005 report published by the Pinelands Commission science staff on the Great Egg Harbor Watershed Management Area (WMA) concluded that:

“Most survey sites in the Great Egg Harbor River WMA displayed some level of aquatic degradation. Non-Pinelands fish, anuran, and plant species were widespread in the Great Egg Harbor WMA and few sites could be characterized as reference sites. The results of this study highlight the scarcity of Pinelands streams displaying characteristic water quality and native aquatic communities in the Great Egg Harbor River WMA, which represents almost 25% of the Pinelands National Reserve.”

Unfortunately, the Great Egg Harbor Watershed includes 110,862 acres of Forest Area (12% of the Pinelands)

that are now degraded. Since the CMP intended to protect the Forest Area and the Preservation Area by transferring development outside of these areas, it is time to assess the cumulative degradation in the “protected areas” and ask if the CMP is providing adequate protection.

Given the incredible complications and competing interests in the environmental protection of almost 1 million acres, the implementation of the CMP has provided a substantial firewall to slow and delay the rate of environmental degradation in the Pinelands. But water quality and other environmental parameters in the Pinelands are continuing to be degraded, despite the best intentions. Increased protective efforts will be required to just hold the line on future degradation, and making advances against this degradation will require forward thinking and strict adherence to the CMP.

### WATER FACTS

Each household uses an average of  
94,000 gallons of water per year

Approximately 15-25 gallons  
of water is used during  
a five-minute shower

It takes about 1,300 gallons of  
water to produce one hamburger

Undisturbed Pinelands streams  
are acidic — pH less than 5

Pinelands streams obtain  
over 90 percent of their water  
from the shallow groundwater table

The Mullica River  
is approximately 55 miles long

## TOUR DE PINES CONTINUES TO GROW

During 5 days in early October, 60 riders cycled more than 2800 individual miles to help celebrate the Pinelands and raise awareness about its unique ecosystem. Thanks to everyone who rode, especially ride leader Dan Rappoport, for making this a great success!



Rolling through Brendan Byrne State Forest



Starting out on Atlantic County Bikeway



Dan Rappoport leading Tour in Chatsworth



After almost 27 years of implementation, the Pinelands Comprehensive Management Plan (CMP) - the rules that govern land use, development and natural resource protection within the Pinelands - is showing both its accomplishments and its shortfalls. On the plus side, the CMP has been a huge success in maintaining the essential character of the Pine Barrens ecosystem in most of the Preservation Area and much of the Forest Area by setting strict limits on development. These land use standards protect natural resources such as wildlife habitat and water quality in much of the Pinelands. One of the shortfalls of the CMP, however, is that development of the designated growth zones is destroying or degrading the ecosystem both inside these growth areas and in adjoining parts of the Pinelands that feel the indirect effects of suburban and agricultural developments.

There is an inherent tension built into the CMP, a tension that is having a growing and damaging impact on the Pinelands. The tension is between the goals of preserving the exceptional resources of the Pine Barrens ecosystem and promoting development in certain designated growth areas. These two goals are turning out to be less consistent than was thought, or hoped, when the CMP was adopted more than 25 years ago. On the one hand, the CMP requires that resources like natural water quality and rare species of plants and animals are to be protected throughout the Pinelands, including in the growth areas. On the other hand, Pine Barrens waters, habitat and rare species are often found in the designated growth zones, but the Pinelands Commission and Department of Environmental Protection have not figured out how to allow development in growth areas without sacrificing these resources. Indeed, that may prove to be an impossible task. Even more daunting, it's turning out that development in the growth zones is exporting its negative impacts on the ecosystem by contaminating the aquifer and streams with excessive nutrients and other chemicals, which

flow across the CMP's growth boundaries into the Preservation and Forest Areas.

So the effects of this conflict between preservation goals and growth goals is increasingly seen in damage to Pinelands water resources, both in quantity and in water quality, caused by development of growth zones. Water, the lifeblood of the Pine Barrens, is also the carrier of destruction when we contaminate it with fertilizers and other pollutants, and when we take too much of it out of the ground for irrigation, new housing developments and other uses.

Another example of this tension is with stormwater management. In the Pinelands, there is a strong emphasis on recharging stormwater runoff from developments into the ground, in an effort to maintain groundwater levels and stream flows. However, just because an area is designated as a Pinelands growth area does not mean that hydrogeologic or soil conditions are such that it is physically possible to get all of the stormwater into the ground. There have been a number of examples over the years where stormwater management structures in growth areas have been unable to handle runoff, and the result has been downstream flooding and contamination. In such cases, the controlling factors are the depth to groundwater and the soil's ability to accommodate stormwater runoff, not an imaginary Pinelands boundary line on a map.

Another topic of growing concern within the growth areas is the use of aquatic herbicides to kill nuisance vegetation in lakes. There are a few hundred lakes throughout the Pinelands. A significant number of these lakes are located in growth areas and have residential communities built around them. These communities were built there because of what the lake had to offer - fishing, boating and swimming. So the last thing that most people want to deal with is "weeds" that might impede these activities. Lake communities, therefore, frequently use heavy chemical applications to kill what they view as nuisance aquatic vegetation. Unfortunately, many of these chemicals have unintended effects on a variety of

organisms and non-targeted vegetation, including threatened and endangered species, that the Pinelands CMP is supposed to protect.

PPA advocates for protection of Pine Barrens natural and historic resources wherever they are found within the Pinelands - growth area or not. In practical terms, however, the current policies of the CMP are in effect writing these natural resources off in and near the growth areas. We fear that the impulse to develop growth zones is taking precedence over the principle of protecting Pinelands resources. No one really knows how much of the Pine Barrens will actually survive the impacts of development in the growth areas inside and around the Pinelands boundary. It is entirely possible a third or even less of the Pinelands will still be healthy Pine Barrens habitat in the coming decades. It is critical that PPA and other conservationists work with government agencies to address this fundamental threat.

### PINELANDS PLANT COURSE A GREAT SUCCESS!

The fourteen-session **Special Pinelands Plants Course of 2007** began on March 17 and ended on October 13. Attendees got an overview of the entire flora of south Jersey, and focused attention on the rarities of the region using as primary texts PPA's *South Jersey Rare Plant Workbook*, Witmer Stone's *Plants of Southern New Jersey*, and the Gleason & Cronquist *Manual of Vascular Plants*. Highlights included the field trips, for which we had regularly excellent weather, and the all-star cast of guest speakers, which included Gerry Moore, Ken Cameron, Ted Gordon, Joe Arsenaunt, Ernie Schuyler, Bill Olson, Wayne Ferren, and Karl Anderson. PPA extends a special "Thank you!" to these experts for sharing their insights on the wonderful and mysterious flora of the Pinelands.

by Jaclyn Rhoads



An estimated 400 lakes are scattered throughout the Pinelands. Most of these lakes are dammed stream impoundments that are home to a variety of native and rare aquatic vegetation and amphibians. Often it is the rare and native aquatic vegetation that are targeted for control and herbicide treatment by lake communities.

Many residential communities, such as Medford Lakes and Marlton Lakes, are built around lakes. These communities rely on the lake for recreation such as swimming, fishing, and boating. Typically, the lake association or municipality is responsible for controlling nuisance vegetation "weeds" that residents find inconsistent with these recreational activities.

Herbicides are regularly used to control the aquatic vegetation in these lakes. The applicant (e.g., a lake association) files an aquatic pesticide permit application with New Jersey's Department of Environmental Protection (NJDEP) Pesticide Control Program. For aquatic herbicide applications, NJDEP only requires a licensed applicator to use a registered product, notify residents of the application (via posting on lakes and/or in newspapers), and provide a sheet indicating what Integrated Pest Management (IPM) practices are available. The IPM practices are not required to be implemented. The pesticide office reviews the application and submits it to the Pinelands Commission for a final review before approval.

PPA reviewed 30 of these aquatic herbicide applications for treatment on Pinelands lakes in 2005. Most of these lakes have been treated for the past 15-20 years. Although the Commission's goal is to protect the water resources of the Pinelands, only seven applications out of thirty for herbicide use in aquatic areas have been denied. Some applications were

approved even though threatened and endangered species were identified near the proposed application. The 7 applications that have been denied may only be temporary, until the applicant provides additional information to demonstrate consistency with Pinelands requirements for chemical treatment.

The commonly used pesticides, as cited in these applications, included: fluridone (Sonar), copper sulfates, copper, Captan (copper), diquat di-bromide (Reward), endothall (Aquathol-K), glyphosate (Rodeo, Glypro and Aqua Neat), imazapyr (Habitat), and 2,4-D (Aqua-Kleen). Many of these products have unintended effects on non-target organisms, such as amphibian, and are broad-spectrum, meaning they kill all vegetation they come into contact with.

Lake associations and municipalities can reduce their use of pesticides by reducing nutrient overload into aquatic waterways, by minimizing lawns and fertilizer use, and by educating residents that the vegetation is a natural part of the environment and doesn't need to be removed. If removal is absolutely necessary, then mechanical methods such as raking can be incorporated.

Neither the Pinelands Commission nor the NJDEP require a pre- or post-vegetation survey, or proof that the herbicides are not affecting other water bodies downstream of the lake, such as streams or wetlands. The Pinelands Commission, which has the final say in the approval of these applications should require more information from these applicants to ensure water quality and native plants and animals are not unintended victims of chemical applications in the region.

*Jaclyn Rhoads is PPA's Director for Conservation Policy. For more information on pesticides and recommendations to reduce their use, read PPA's white paper on our website, [www.pinelandsalliance.org](http://www.pinelandsalliance.org).*

**WATER WEBSITES**

**White Paper on Preserving Ambient Water Quality in the Pinelands**

[www.state.nj.us/pinelands/infor/online](http://www.state.nj.us/pinelands/infor/online)  
*(Pinelands Commission report with recommendations)*

**United States Geological Survey (NJ)** <http://nj.usgs.gov>

*(surface and groundwater reports, water quality, and stream flow data)*

**Pinelands Commission**

[www.state.nj.us/pinelands](http://www.state.nj.us/pinelands)

*(science reports, white papers, general information)*

**NJ Department of Environmental Protection (State)**

[www.state.nj.us/dep](http://www.state.nj.us/dep)

*(water quality, wetlands, water supply, well testing, much more)*

**Environmental Protection Agency (Federal)**

[www.epa.gov/safewater/kids/other.html](http://www.epa.gov/safewater/kids/other.html)

*(water related information for kids K-12)*

**New Jersey Geological Survey**

[www.state.nj.us/dep/njgs](http://www.state.nj.us/dep/njgs)

*(geologic and hydrogeologic reports)*

**"PINELANDS:**

**A VISUAL JOURNEY"**

**May 4, 2008**

**Bishop Farmstead**

Art exhibit featuring fine art landscape photography by Albert Horner. A portion of the proceeds will benefit PPA.

**Check out:**

**[www.albertdhorner.com](http://www.albertdhorner.com)**

**for more on Al's work.**



One hundred and twenty people gathered at Braddocks Tavern in Medford Township on November 3 to celebrate heroes of Pinelands preservation at the fourth annual Pine Barrens Hall of Fame awards banquet. This year PPA honored citizen-activists Nan Hunter-Walnut, Elmer T. Rowley, USMCR, and Janet Jackson Gould. Also honored were three educators who have been committed to environmental education in the Pinelands throughout their careers: Terry O'Leary, Christine Raabe, and George Young. Finally, PPA honored two of its own for their longtime service: Rich Bizub, who has worked at PPA for 10 years, and Theresa Lettman, who has been with PPA for 17 years.

Nan Hunter-Walnut was inducted by Michelle Byers, Executive Director of the NJ Conservation Foundation, who remembered her early days at Whitesbog and Nan's formation of the Pine Barrens Coalition. Nan recounted the humble beginnings of the Pine Barrens preservation movement, the seemingly uphill battle they faced, and the relief of achieving success and handing over the reins to a newly formed organization, Pinelands Preservation Alliance.

Tom Gilmore, President of the NJ Audubon Society, inducted Elmer Rowley. He offered memories of his first meeting with Elmer, whose passion and knowledge were strikingly evident. As a representative of the NJ Audubon Society, Elmer was also a leading advocate for the Pinelands Protection Act. Elmer related the story of how he came into possession of three commemorative pens from Governor Brendan Byrne, including two that were used to sign into law the Pinelands Protection Act and the famous building moratorium that preceded the Act. He then presented the three pens to Tom Gilmore and the NJ

Audubon Society.

Janet Jackson-Gould was inducted by Carleton Montgomery, PPA's Executive Director, who reminded the audience of Janet's unique focus on the stories of people and culture of the Pine Barrens. Janet cautioned the audience to remain vigilant in their efforts to protect the Pine Barrens, and support those preservationists in the coming generation.

All three educators, whose careers and friendships have been intertwined with Pinelands issues over the years, spoke of their efforts to foster new generations of environmental educators and activists. George Young offered the analogy of an oak tree spreading its acorns and growing new seedlings. Terry O'Leary listed the many people who influenced his career. And Christine Raabe contrasted memories of unstructured play in nature of her (and listeners') youth with the over-stimulated, over-scheduled "nature deficit" generation of today, and noted that children with little exposure to nature will not grow up to be stewards of the land.

Citizen-activist honorees received a statue of a tree frog, while educator honorees received a signed copy of Howard Boyd's *Field Guide to the Pine Barrens*, as well as a signed Pinelands print by Ann-Marie Woods.

Special thanks to our sponsors for their generous support of this event:

- Environmental Resolutions, Inc.
- Herpetological Associates
- Pinelands Nursery & Supply
- Plexus Publishing, Inc. (*founding sponsor of the Pine Barrens Hall of Fame*)
- PSE&G
- New Jersey Audubon Society
- New Jersey Conservation Foundation
- Recreational Equipment, Inc. (REI)



Nan Hunter-Walnut



Elmer Rowley and the three pens



Janet Jackson-Gould



Theresa Lettman and Carleton Montgomery

## BOARD OF TRUSTEES

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*Pine Barrens Coalition*

**Annette Zimmermann**  
*Pinelands Resident*

**Carleton K. Montgomery**  
*Executive Director, Pinelands Preservation Alliance*

## PINELANDS CALENDAR OF EVENTS

### December 2007 & January 2008

NOTE: Names, addresses, and phone numbers are provided here for frequently mentioned event sponsors. Please contact the sponsor of the event for full information and details of the event.

Albert Music Hall (AMH) 131 Rt. 532, Waretown, (609) 971-1593

Outdoor Club of South Jersey (OCSJ)  
Call leaders to confirm trip.  
[www.ocsj.org](http://www.ocsj.org)

Pinelands Preservation Alliance (PPA) 17 Pemberton Rd., Southampton, (609) 859-8860. [www.pinelandsalliance.org](http://www.pinelandsalliance.org). 10% discount on Pinelands Adventures programs to PPA members. Pre-registration required for all PPA programs.

Tuckerton Seaport (TS) 120 West Main Street, Tuckerton, [www.tuckertonseaport.org](http://www.tuckertonseaport.org), (609) 296-8868.

Wells Mills County Park (WMCP),

Whitesbog (W). All events meet at the Whitesbog General Store. Historic Whitesbog, mile marker 13, Rt. 530, Pemberton Township, (609) 893-4646, [www.whitesbog.org](http://www.whitesbog.org).

#### Through December 18

Patriot Pirates Tales of Plunder and Privateers of Coastal NJ  
Landlubbers and loyalists beware! Patriot Pirates are coming to the Tuckerton Seaport. Weigh anchor for an afternoon of discovery and swashbuckling fun in this hands-on exhibit sure to entertain children of all ages. Armed with a whaleboat, guns and sometimes 'Letters of Marque', privateers staged coastal raids on Britain's Royal Navy during the Revolutionary War. Visitors can explore real pirate treasure from sugar to silk or take turns at the helm and imagine navigating the Jersey Shore. (609) 296-8868. TS

#### Saturday, December 8

Winter Celebration at Whitesbog  
Saturday, December 8 at 1pm.  
Candy Cane Find with Santa. \$ 5 per person. 609 893-4646. W.

Wells Mills - Penn Hill Trail Plus

10 miles, moderate pace. Hike the entire Penn's Hill Trail loop thru this 900 acre park and catch the Blue Blaze Trail. These trails are often covered with a carpet of spongy pine needles. Walk thru the cedar swamps, one of the nicest areas in the pines, several real "jersey" hills, and Wells Mills Lake. Bring ground cover or hiking seat for lunch. Boots recommended. Just 3 miles west of Waretown exit Rt 532 off the NJ Parkway in Ocean County. Meet at 9am at Visitor Center parking area, south side Ocean County Rt. 532. NC, LP, WF Leader: HykyrJoe

Maryanski, [Jmaryanski@msn.com](mailto:Jmaryanski@msn.com) (preferred) or even. after 7p 609-929-7498 co-leader Joan Foltz, [Rfoltz@aol.com](mailto:Rfoltz@aol.com) or 609-335-9675. OCSJ.

#### Saturday, December 8 and Sunday, December 9

Holiday Open House at the General Store  
10am to 4pm. Free. Pick up that something special that says "I got you this great gift and helped preserve history at the same time!" (609) 893-4646. W.

#### Sunday, December 9

Canoe/Kayak Cedar Creek  
Cedar is a very pretty waterway in the winter; especially with the riverbanks covered in snow. We'll keep our fingers crossed for an early snowfall. The trip will be 7 miles from Ore Pond to Dudley Park. Contact leaders to confirm trip participation, time and meeting location. Leaders: George & Leona F, 609-259-3734. or [leona@pinypaddlers.com](mailto:leona@pinypaddlers.com). OCSJ.

#### Wednesday, December 12

Hike to Buck Run and Beyond  
9-10 miles, moderate pace. We will hike to one of our favorite spots for lunch, with a view of a beaver lodge. Bring lunch and beverage. Meet at 10am at Harrisville Pond Rt 679, 1.5 miles south of Rt 563, between Chatsworth and New Gretna. Leaders: Chris Denner, 856-461-5379. Pat Burton 856-767-8064. OCSJ.

#### Saturday, December 15

Albert Hall Holiday Show  
Adults: \$5, Children: FREE. AMH.

#### Wells Mills Holiday Hike

8.4 miles. Meet at Parking Lot, Wells Mills County Park, Waretown, 10:00 a.m. - 3:00 p.m. Mostly flat but with some small hills. \$6.00 per person, 9 years - adult. WMCP.

#### Sunday, December 16

Batsto - Pirates of the Forks Hike  
6.5 miles, moderate pace. Arr mates, this is the one. Hike through Batsto Village and south of Rt 542 to the end of "The Forks", where the Mullica and Batsto Rivers converge to create The Forks area. Search for gold, pirates, ship wrecks, treasure, Batsto Landing, Rabbit Island, and walk the plank at the historic Van Sant Ship Yards, as you go back through history. A Treasure map will be provided. Bring full lunch and eye patches. Meet at 10am at Batsto

Village parking area (Rt 542), NC, NP. Bad weather cancels. Leader: Tom Neigel 609-206-3389, [tomneigel@ocsj.org](mailto:tomneigel@ocsj.org). OCSJ.

#### Saturday, December 22

Social Moonlight Hike & Campfire  
6 miles moderate pace. Open to everyone. Hike the Pines under the Cold Moon and return to a campfire. Bring picnic type food to share at our tailgate social after hike. NC/NP. Meet at 7pm at Atsion Lake, Burl. Co., From Rt. 206 take Atsion Rd. west 1 miles, go to Goshen Pond Group site sign turn left go to camping area. Camping is available Saturday, call to reserve space. NC/NP Leader, Paul Serdiuk 609-463-3593 eve. or [pis1@cccj.net](mailto:pis1@cccj.net). Inclement weather cancels. OCSJ.

#### Monday, December 24

Search for Santa on North Branch Rancocas Creek

Wear your Santa hat as we look for Santa on the 10-mile Canoe Trail from Burlington County Community College to Smithville. Meet at the Vincentown Diner - arrive early for breakfast. Contact leaders for trip participation, meeting time and logistics. Leaders: George & Leona F, 609-259-3734 or [leona@pinypaddlers.com](mailto:leona@pinypaddlers.com). OCSJ.

#### Saturday, December 29

Friendly Friendship Hike  
9-10 miles, moderate pace. Hike the old bogs and a side trip to the blueberry monument. Could be wet in spots. Bring lunch. WF Meet at 10am at Friendship. Dave & Julie Hegelein 856-235-8792. OCSJ.

#### January

January is Cactus Island Park Trails Month

January 5 & 6: Blue Trail Jaunt;  
January 12 & 13: Red Trail Ramble;  
January 19 & 20: GPS Scavenger Hunt;  
January 26 & 27: Orienteering Bushwhack. No preregistration is required and if the temperature is below 40 we'll provide free coffee and hot chocolate. 2-3pm. Free. Phone: (732)270-6960.

If your organization is having an activity you would like to see listed, contact *Inside the Pinelands*, 17 Pemberton Road, Southampton, NJ 08088; ph: (609) 859-8860; e-mail [mikeh@pinelandsalliance.org](mailto:mikeh@pinelandsalliance.org). Next deadline: Jan. 5, 2008.

THE PINELANDS NEEDS YOUR HELP...AND SO DO WE!  
PLEASE SUPPORT OUR MISSION & BECOME A MEMBER

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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E-Mail: \_\_\_\_\_ Referred by: \_\_\_\_\_

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Card Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Signature of Card Holder: \_\_\_\_\_

**Membership Categories**

- Basic       \$35  
Family       \$60  
Sponsor       \$100  
Patron       \$250  
Benefactor       \$500  
Chairman's Circle       \$1,000  
Other       \_\_\_\_\_

*All members receive:*  
A PPA membership card  
A year's subscription to *Inside the Pinelands*  
A Free *Pinelands Adventure* (new members)  
A PPA window sticker  
Discounts on PPA merchandise and events

**SEE PAGE 3 FOR WATER FACTS  
& WEB RESOURCES**

A Sponsor will receive an *Exploring the Pine Barrens of New Jersey* map  
A Patron will receive a copy of *Exploring the Pine Barrens of New Jersey* book  
A Benefactor will receive a Pinelands Botanical Print by Robin Jess  
A member of the Chairman's Circle will receive a personalized tour of the Pinelands



PINELANDS PRESERVATION ALLIANCE  
BISHOP FARMSTEAD  
17 PEMBERTON ROAD  
SOUTHAMPTON, NJ 08088

ADDRESS SERVICE REQUESTED

Nonprofit Organization  
U.S. Postage  
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08068

## SPECIAL WATER ISSUE

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