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Please put LCCA in the subject line.

Moving? Change of address?

Send your new contact information to
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Please put LCCA in the subject line.

 Send it to:
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Arcadia to Publish History of Lake Carey

Walter Broughton has signed a contract with Arcadia Publications to complete an illustrated history of Lake Carey as part of their Images of America series. This 128-page paperback will include over 200 images of life at the lake from 1875 to 1950. It should be on sale in the late spring of 2008 for \$19.99. Walter is donating any royalties the book earns to the association's Lake Carey Conservation Fund.

The book will describe the development of the summer community at Lake Carey after the Montrose Railroad began service to the lake in 1874, portray Lake Carey's heyday as a railroad resort when large crowds came to enjoy its steamboats and picnic grounds, and cover the lake's less intensive use after automobiles changed American summer vacations, here, and elsewhere. The last chapter will trace the patterns of cottage life through WWII, featuring photographs of Lake Carey cottages and the summer life of their owners.

Walter is collecting photographs of life at Lake Carey this spring and welcomes contributions from past and present residents. He will need to borrow them for a day or so to scan them. Stories and tall tales are welcome too. You can phone him at (570) 346-4676 or e-mail him at broughton@marywood.edu.

Admiral Stark often arrived from Washington by seaplane. In this photo from WWII, the "Anacosta" is being greeted by row boats after landing.

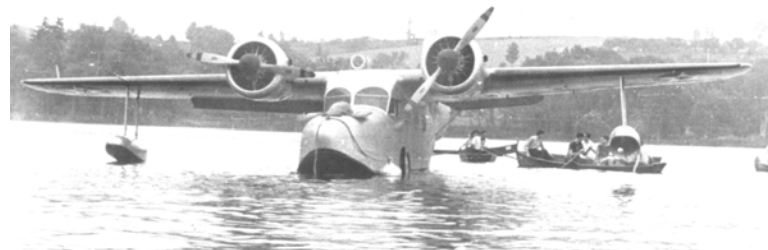


Photo courtesy of Robert Fellows

PALMS Conference *continued from page 2*

Dr. Fred Lubnow discussed stormwater treatment technologies. One pound of phosphorus = 11,000 wet pounds of algae. A SNOUT costs about \$200-500 and is inserted into existing catch basins. They settle out heavy solids averaging about 45% phosphorous removal. Cleanout would need to occur a minimum of 2 times per year. Solids removal is roughly 58-99%. An aqua guard uses filter media for 80% phosphorous removal costing \$2,000 each. A Grate Inlet Skimmer Box (Suntree Technologies) can be used to bind dissolved phosphorous. Finally, there is a Nutrient Separating Baffle Box, this is what is used at Harvey's lake, which uses three compartments and provides 30 pounds per year of phosphorous removal.

Notes and Reminders

- **The Boards**—Ed Hetzel will begin putting the boards back into the dam beginning the third Sunday in March as long as most of the ice is gone and mother nature cooperates.
- **Docks**—If you are planning to build a small dock, you will need a permit. For further information contact Phil Amico at the PADEP NE regional office in Wilkes-Barre at 570-820-4920 or e-mail at pamico@state.pa.us. Copies of PADEP's General Permit #2, for small docks/boat launches, can be found at: <http://164.156.71.80/WXOD.aspx?fs=7780d840f80b00008000080e0000080e&ft=>
- **Dam Site Reservations**—Ed Hetzel will be in charge of handling all reservations for the dam site. If you would like to reserve the dam site, please contact Ed at 570-836-4733 or at edwardh4@epix.net.
- **Lake Carey Day**—Saturday, July 28, 2007. Watch for more news!



Don't Forget!

Send in your 2007
membership form in
today.

The Lake Carey Cottager's Association

A newsletter for the residents of Lake Carey



MARCH 2007

A message from the President

Dear Neighbors—

By the time you get this, the worst of winter will be over.

But, there's other good news. Our fund drive has now received almost \$4,000; we are very close to our goal of \$5,000. I want to thank everyone who has contributed and to encourage those who have not done so yet to chip in whatever they can—every dollar helps (send donations to LCCA - Fund Drive, PO Box 637, Tunkhannock, PA 18657).

The money we are raising will pay for the watershed implementation plan we need for our Growing Greener grant application due April 13th. Preparations for the grant application are proceeding well (see the article below).

And there's more good news...in March, the association will receive a Stewardship Award from the Countryside Conservancy. The award recognizes the hard work of so many of our members following through on the strategies in our 2001 Vision and Action Plan to improve water quality and manage future growth. Since 2001, we have tested lake, stream and well water, sampled the sediments at the bottom of the lake and mapped its contours, planted 100's of trees and shrubs, supported the Joint Planning Commission's proposals for zoning and subdivision ordinances, and educated ourselves about how best to care for the lake we all enjoy.

Thanks to all our members for their many contributions.

Walter Broughton

Association Prepares for Growing Greener Grant Application



Minturn Smith, Ed Hetzel, & Fred Lubnow

We have had a number of meetings with our consultant, Fred Lubnow, of Princeton Hydro. Fred has looked at the work that FX Browne has done and prepared a subwatershed implementation plan. He believes that concrete catchments can be built to significantly reduce sediment and harmful nutrients from entering the lake during storms. Fred has already installed several such basins at Harvey's Lake with good success.

These catchments would be located where stormwater runoff enters the lake. Special "pillows" installed in the concrete boxes would hold the nutrients and keep them from entering the lake. Periodically, these pillows would be cleaned out and the sediment they contain deposited elsewhere.

Several of these basins should probably be built under or on the shoulder of state roads; we will meet soon with PENNDOT to discuss this possibility. Land owners who have significant runoff problems on their own property can also volunteer to have a catchment basin installed. These basins are just one part of a larger strategy for reducing nutrient pollution in the lake.

We are applying to Growing Greener to secure the hundreds of thousands of dollars this work will cost. The Association will contribute some matching funds and in-kind support, as a condition of the grant. The grant application must be filed by April 13th — a very tight schedule. We also plan to request funds for education about the watershed and its problems and for additional trees.

If anyone is interested in locating a catchment basin on their property should quickly contact Walter Broughton 570-346-4676 or Ed Hetzel 570-833-3655.

The LCCA gratefully acknowledges pledges for a Watershed Implementation Plan since the last newsletter from:

- Wilson & Andrea Beauregard*
- Louis & Lynne Bierly*
- Thomas & Frances Carroll*
- Mark Catalano & Cheryle Stone*
- Nanzio Cuttitta*
- James & Martha Davis*
- John Fassett*
- Schuback & Gintoff*
- David Green / Ed & Joan Lagan*
- Bernadette Kozlowski*
- Jean Ann Longacre*
- Mel & Mary Ellen Mills*
- George Ostrowski*
- Gerard Pallis*
- Linda Pallis*
- Cynthia Place*
- Roger Place*
- Ed & Jean Reynolds*
- Michael & Elizabeth Ripple*
- Fredrick & Sally Sanford*
- Barbara Scanlon*
- Steve & Marcy Pitkin*
- Jay & Joan Siegrist (Trustees for Beechwood)*
- Gene & Patty Skrynski*
- Wade & Linda Stackhouse*
- Tom & Carol Thomas*
- Jim & Deb Tierney*
- Mr. & Mrs. Lowell Tinner*
- Ken Weaver*
- Stuart & Jessica Young / Mary Bishop*
- An Anonymous Donor*

PALMS Conference 2006

By Ed Hetzel

I recently attended the PA Lake Management Society (PALMS) conference. There was a significant focus on the use of ecological engineering to treat wastewater. Constructed wetlands are probably the best example of this. Dr. Horne, Professor Emeritus – U. Cal Berkley, provided data on the design and operation of wetlands. While nitrogen removal is good, it's much more difficult to remove phosphorous due to its ability to recycle within the sediments of most water bodies. Source control (i.e., erosion, etc.) is best and low levels of alum can work on phosphorous – just don't let the system go acidic (releases phosphorous). We should investigate this technology for possible use as wastewater treatment for our lake and septic systems.

Dr. Horne also presented an interesting talk concerning blue green algae. While the details were pretty deep, one interesting tidbit was to not let your dogs drink from the very green floating scums we sometimes see along the shoreline. They could experience a fast toxic shock death or slow liver shutdown. The wind can concentrate the floating blue greens into dead spots and this high concentration is not good for drinking (or swimming for that matter). The focus of Dr. Horne's talk was directed towards the role nitrogen plays in blue green algae growth. Since some blue greens can fix nitrogen from air and can store phosphorous, iron can become their limiting nutrient.

Costs for alum treatment of lakes were presented by FX Browne. Using a massive dose of alum to seal the bottom sediments can last 10-15 yrs but all major sources of inputs of phosphorous must be controlled first. This will cost about \$1,600/acre for construction and approx. \$100/acre as an annual operating and maintenance cost. 96% of all phosphorous inputs must be controlled. This sounds almost impossible with all the non-point sources coming from lawn's, roads, etc. We would need a fairly extensive stormwater collection and treatment system to provide this type of control.

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Won't You Join Us!

If you enjoy living at or visiting Lake Carey, then you need to belong to the Lake Carey Cottager's Association (LCCA) to help keep the atmosphere of the lake what it is today. The LCCA was established to promote safety on the roads and waters, protect the quality of the lake water, assist in developing recreational activities, combat excessive commercialism, and undertake activities for the general welfare of the area and its residents. The association maintains the dam (including annual inspections), sponsors boating safety courses, organizes social activities (e.g., Lake Carey Day), brings in and administers grants, represents the lake to local officials, and a whole lot more. Members of the LCCA can serve on a number of committees that work towards the betterment of Lake Carey.

- Auditing Committee
- Lake Carey Day Committee
- Membership Committee
- Planning Committee
- Safety Committee
- Water Quality Committee



New members bring in new ideas. It is important, as a property owner/resident, that all of our voices and opinions are heard on a variety of topics that affect our community. Members also receive some valuable benefits over the years..

- Free water well testing
- Free trees and vegetative plantings
- Free summer lectures and presentations
- Free use of the dam site for private parties

Come and meet your neighbors, join the LCCA today!

2007 Membership Form

THE LAKE CAREY COTTAGER'S ASSOCIATION

Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ e-mail _____

Family: \$40.00

Single: \$30.00

Please return to:

LCCA - Membership

PO Box 637

Tunkhannock, PA 18657

Mark your calendars!

2007 Meeting Dates

- May 13
- June 10
- July 15
- August 12
- September 9



We Want You to Receive Our Mailings

Please let us know if you would like to receive the newsletter and other important mailings at a different address during the winter/summer months. Just make a note on your renewal form or send us an e-mail at dctierney@verizon.net.



All meetings are held at the Dam Site.