Highlight on Graduate Students

As the Master of Science in Lake Management degree program enters its 3rd year, it appears it will meet its target number of 15 students soon. The program intensively uses the resources of the Biological Field Station, most courses being taught on site in Cooperstown. Individuals enrolled are developing comprehensive management plans for selected lakes and their watersheds throughout the State. Students are now active on 7.

Carter Bailey is local, hailing from Mt. Vision, N.Y. He did his undergraduate work at the SUNY College of Environmental Science and Forestry and is now studying Canadarago Lake, by Richfield Springs, specializing in algal community dynamics.

Ben German, a US Air Force veteran from Oneonta, graduated from SUNY Cobleskill in Wildlife and Fisheries Technology. He is working on Moraine Lake in Madison County, near Hamilton, where the BFS has conducted aquatic plant management research and monitoring for years. Derek Johnson from Ava, N.Y. graduated from Paul Smith’s College in the Adirondacks after previous work at Virginia Commonwealth University. He is developing a plan for Panther Lake north of Oneida Lake in Oswego County.

Dan Kopec was a SUNY Oneonta undergraduate in the Earth Sciences. He is now developing a groundwater based comprehensive management plan for Cazenovia Lake in Madison County near Syracuse. Jason Luce is doing research on two connected lakes in Madison County; Hatch Lake and Bradley Brook Reservoir. He comes from East Freetown, N.Y. and graduated from Cazenovia College. Caitlin Stroosnyder is working on Goodyear Lake on the Susquehanna river near Oneonta. She lives in Worcester, N.Y., having held a position at Delaware Engineering since her graduation from Cornell University. Owen Zaengle
Graduate Students, cont. from p. 1

is from Cooperstown, having done undergraduate work at Davis College, Broome County Community College, SUNY Oneonta and most recently, the SUNY College of Environmental Science and Forestry. He is working on one of the Indian River Lakes Conservancy waters, Grass Lake, near the St. Lawrence River north of Tug Hill.

Eight applicants have been accepted for fall 2014. Maxine Verteramo, from Ware, Massachusetts has been employed by a consulting firm, Water Resources Services, since 2011. She received her undergraduate degree from Hampshire College in Amherst, Mass. We first met her at the North American Lake Management Society meetings last fall in San Diego. Four students are coming to us from SUNY Environmental Science and Forestry, all with backgrounds in fisheries ecology. Christian Jenne, is from Richford, N. Y., Luke Gervase from Malverne, N. Y., Edward Kwietriewski, from Lake View, N. Y. and Michael Greco from Glenmont, N. Y. Michael has also done undergraduate work at both Hudson Valley and Columbia Green Community Colleges. Jenna Leskovec, from Fort Edward, N. Y., did her undergraduate work at SUNY Geneseo in geology. Kathleen Marean, from Jamaica, N. Y., graduated from Cornell University in 2010. Since then she has been employed by the NYSDEC in their Region 1 Freshwater Fisheries Unit.

Shane Pickering, a graduate student enrolled in the MS in Biology program, is from Star Lake, N. Y. He went to undergraduate school at SUNY Potsdam. Shane is working with the effects of environmental variables on the maturation and spawning of zebra mussels in Otsego Lake.

All the above students are advised by Oneonta Biology faculty who are involved in the Lake Management degree program. Bill Harman, an internationally Certified Lake Manager by the North American lake Manage-
The graphic illustrates the numbers of days annually that Otsego Lake has been covered by ice from 1850 to 2013. The scatter documents annual data, the blue dots 10 year averages. The regression line to the right shows the trend since 1960. Note that the lake had 0 days of total ice cover during the winters of 2001-02 and 2011-12, the only times in recorded history. The annual maximum duration of ice cover, between 125 - 131 days, occurred 4 times in the 1870s.

Karl Schoeberl writes: My experience at the BFS consisted of three fantastic weeks taking a fish biology class through SUNY Cobleskill in the summer of 1984. I lived in a tent at Glimmerglass State Park. What an experience! After graduating with an AAS from the Fish and Wildlife program at SUNY Cobleskill I went to Cornell and received a BS in Natural Resources. I then worked in environmental consulting for 4 years before taking a position at Central Hudson Gas & Electric in Poughkeepsie where I spent 19 years, the last three as Director of Environmental Affairs. While there I completed my MA in biology at SUNY New Paltz. I recently joined Lieinfelder, a large engineering firm headquartered in San Diego (I am based in Newburgh, NY) as Program Manager for Environmental Planning and Permitting. We have heavy focus on energy projects. My experiences at Coby and the Biological Field Station have been a solid foundation for my success. Thank you for that!

A Few Relevant numbers

2.5 = Percent of the earth’s water that is fresh.
68.6 = Percent of fresh water locked in glaciers and ice caps.
37 = Percent of the 127 trillion gallons of fresh water withdrawn in the US each year that’s used for irrigation.
2,900 = Gallons of water needed to make one pair of jeans.
1,847 = Gallons of water needed to produce one pound of beef.
146 = Gallons of water needed to produce one pound of corn.
35.7 = Gallons of water needed to make one egg.
400 = Gallons of water used daily by an average U.S. household.
4.25 = Average gallons of water to flush a conventional toilet.
1.6 = Average gallons of water to flush a low-flow toilet.
900 = Gallons of water consumed per MWh of nuclear electricity produced.
585 = Gallons of water consumed per MWh of fossil fuel electricity produced.
0 = gallons consumed per MWh of wind energy produced.

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