

April 2, 2019 @ 6:30
Ponds: How They Got Here
& How They Work

Formed as a towering glacier scraped the earth and retreated, Eastham's kettle ponds have been continuously shaped by the geology of water ever since.

Recently retired as the Director of Water Resources at the Cape Cod Commission, **Tom Cambareri** is a Water Resources Specialist and Hydrogeologist with 40 years on Cape Cod and is a member of the Massachusetts Water Resources Commission. At the Cape Cod Commission, Tom focused on the protection and restoration of water quality and water resources management and worked on the cleanup at the Joint Base Cape Cod; water supply assessments with the Outer Cape Towns and National Seashore; the Cape Cod Ponds and Lakes Stewardship project; the Mass Estuary Project; five regional groundwater modeling projects with the USGS; and cleanup of Hydrocarbons, MTBE, Perchlorate and PFAS at the County's Fire Training Academy. In retirement, Tom will devote more time to biking, hiking, boating, fishing, and swimming while he continues to work on water resource management issues.



April 30, 2019 @ 6:30
Sea-Run Fish in our Ponds

River Herring come from the sea to spawn, while American Eel spend most of their lives in Eastham ponds before making their way to the Sargasso Sea and their spawning grounds.

As the MA Division of Marine Fisheries Senior Biologist and Project Leader with the Diadromous Fish Biology and Management Project, **Brad Chase** has worked with diadromous (sea-run) fish for over 30 years, focusing on river herring, rainbow smelt and American eel. Brad also serves as the Massachusetts representative on the Atlantic States Marine Fisheries Commission's technical committees for American Eel, River herring and Shad, and Fish Passage. Closer to home, Brad is the Chair of the Harwich Conservation Commission.



May 21, 2019 @ 6:30
Ponds: Recognizing and Responding to
Environmental Threats

Ponds and other wetlands are open to the world and vulnerable to all we impose on them, with their health both a bellwether of a healthy environment and vital to our own safe enjoyment of our natural resources.

Harwich native **Bryan Horsley** began his higher education in environmental studies at Cape Cod Community College, completing his Bachelor's degree in Ecology and Evolutionary Biology at the University of Colorado at Boulder. In Boulder he focused on limnology (science of lakes and ponds) and worked in the school limnology laboratory where he became interested in stream and pond ecology. After graduating in 2016, he interned with the Association to Preserve Cape Cod (APCC) and was then hired as their Restoration Technician. At APCC Bryan manages technical field work and GIS mapping of ecological restoration projects around the Cape. Additionally, working with partners, he has developed a cyanobacteria monitoring program to measure and document cyanobacterial toxicity in freshwater ponds across Cape Cod.



April 16, 2019 @ 6:30
Mallards, Mollusks, Mosquitos & Mud

Life in a freshwater pond is profuse, with layer upon layer of organisms forming food chains and ecological communities all dependent on each other and sensitive to the world around them.

Sophia Fox moved to the Outer Cape as the Aquatic Ecologist for the Cape Cod National Seashore in 2010 following a Ph.D. and M.A. from the Boston University Marine Program in Woods Hole and research into such things as wastewater pollution and water quality in the Venice Lagoon and the impacts of deforestation on the mangrove swamps of Panama. At the seashore, she conducts scientific monitoring and research in the Park's freshwater and coastal ecosystems, focusing on understanding and predicting natural and human-driven changes to marine and freshwater ecosystems, including the effects of global climate change on water quality, biological processes and food web interactions.



May 7, 2019 @ 6:30
Diving Into Wonderland

Ponds are made for swimming and exploring the shadowy, mysterious places where the real business of life goes on.

Fifteen years ago **Susan Baur** moved to Chatham and exchanged sunny summer swims in Buzzards Bay for anxious dips in weedy ponds where snapping turtles lived. As she swam from May

Through October she gradually discovered a fascinating community of fish, turtles, pond weeds, old Christmas trees, and sometimes so many water striders on the surface that she could hear and feel them clicking against her arms. Since then she has explored ponds from Falmouth to Wellfleet and befriended snapping turtles, stinkpot or musk turtles, and painted turtles wherever she goes. Now she divides her time between Dennis and Falmouth and between writing and illustrating the Turtle Sisters books for children and producing A Guide to the Best Ponds on Cape Cod AND the Best Ways of Preserving Them. For her, ponds are her happy place, her Wonderland. During the day she's a psychologist.



June 4, 2019 @ 6:30
How Healthy are Eastham's Ponds?

Data gathered by volunteers helps to evaluate the water quality, ecological health, and changes taking place in Eastham's ponds, from which come recommendation for remediation

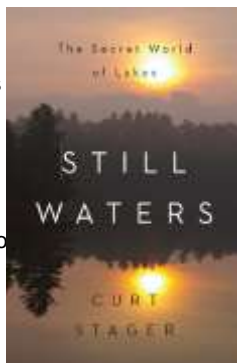
Dr. Liz Moran is a water quality and watershed scientist who has spent much of her career at the interface of environmental sciences, engineering, and public policy. She earned her M.S. and Ph.D. from Cornell University in the field of Water Resources. In 1997, Liz founded EcoLogic LLC, a woman-owned environmental consulting firm located in Cazenovia NY, serving public and private sector clients throughout the Northeast. Since 2011, Liz and her colleagues at EcoLogic have been working with the Town of Eastham on efforts to protect and restore Eastham's unique kettle ponds.



Lessons from Walden

June 15, 2019 @ 2:30

More than a century and a half have passed since *Walden* was first published, and the world is now a very different place. Lakes and ponds are changing rapidly, not because we are separate from nature but because we are so much a part of it. Ponds are not only mirrors reflecting our place in the natural world but also windows into our history, culture and the primal connections we share with all life. In his most recent book, **Curt Stager** has introduced us to the secret worlds hidden beneath the surface of our most remarkable lakes, leading us on a journey from the pristine waters of the Adirondack Mountains to the wilds of Siberia, from Thoreau's cherished pond to the Sea of Galilee. **Curt Stager** is a climate scientist, educator, and



author whose research deals with the ecological histories of lakes in Africa and the Adirondacks. He has published in prominent journals including *Science* and *Proceedings of the National Academy of Sciences*, his writings have appeared in periodicals such as *National Geographic*

and *The New York Times*, and he co-hosts *Natural Selections*, a weekly science program on North Country Public Radio. Curt is the author of four books, including most recently *Still Waters: The Secret World of Lakes* (W.W. Norton). He holds the Draper-Lussi endowed Chair in Climate and Lake Ecology at Paul Smith's College and is a research associate with the University of Maine's Climate Change Institute. In 2013, the Carnegie-Case Foundation named him Science Professor of the Year for New York State. In his spare time, he has also been known to subject people to his banjo and guitar playing.



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