



# LOON PRESERVATION COMMITTEE NEWSLETTER

SUMMER 2018



Photo Courtesy of Kittie Wilson



### **The Loon Preservation Committee**

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*The Loon Preservation Committee (LPC) is a non-profit, self-directed and self-funded organization affiliated with New Hampshire Audubon. Autonomous in membership and fundraising, LPC works to preserve loons and their habitats in New Hampshire through monitoring, research, management, and education.*

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## **DIRECTOR'S MESSAGE**

### ***A Remembrance of Kittie***

Loons and the Loon Preservation Committee lost a tremendous advocate and friend with the passing of Kittie Wilson, The Loon Lady of Pleasant Lake, this past May. Kittie first came to our attention at LPC about 15 years ago, when the loons on Pleasant Lake in New London nested for the first time since 1979. We were thrilled, as always, to welcome a new observer and new volunteer to help us help loons – but we had no idea at that time how important Kittie would become to loons and to all of us at LPC.

Kittie loved her loons, and she had a special relationship with them. She was enthralled with their attentiveness to their eggs, their teamwork caring for and feeding their chicks, and their devotion to each other. She began to document their lives in pictures, and began to share those photos with friends and neighbors around the lake, an effort that grew into her weekly “All Things Pleasant on The Lake” emails. Those pictures of her beloved loons and other aspects of nature grew into a phenomenon that introduced people around the state and the world to loons and other natural wonders.

But Kittie was not one to just observe the beauty of nature. She travelled around the state giving presentations about loons, and donated the proceeds to LPC to further our work to protect them. She created books and calendars with her photos and always included a conservation message and encouraged people to support LPC. After losing a loon on Pleasant Lake to lead fishing tackle, Kittie and husband John (both LPC Spirit of the Loon Award recipients, in 2009 and 2012 respectively) worked with fierce determination to pass legislation restricting the sale and use of lead tackle. And the day that legislation was implemented, she and John came to The Loon Center, with a cake, to help us celebrate a great day for loons.

We made full use of Kittie's passion and talents at LPC. Her beautiful portraits of her loons grace every one of our newsletters and reports since 2009. She is and always will be a Presence at The Loon Center, and the world is a better place, for people and for loons, because of her passion and generosity. We at LPC, and I hope all of you, will continue to draw strength and inspiration from Kittie's pictures – her love of loons and nature shines through them – and be reminded of the joys of a life lived close to nature.

## *LPC Partners with University of New Hampshire and Biodiversity Research Institute to Study Cyanobacterial Toxins*

What do fruit bats in Guam, coots in Georgia, and fish in New Hampshire all have in common? They have all been found to accumulate—or bioconcentrate—neurotoxins produced by cyanobacteria, formerly known as blue-green algae. These cyanotoxins can be deadly. On Guam they have been blamed for a devastating disease akin to ALS (amyotrophic lateral sclerosis, or Lou Gherig's Disease) affecting the Chamorro people, whose diet includes fruit bats. In Georgia and other southeastern States, cyanotoxins have been linked to die-offs in American coots (*Fulica americana*) and the bald eagles that prey or scavenge them. Here

in New Hampshire, cyanobacterial algal blooms in freshwater lakes are now the subject of intense study as a source of toxins that can move through the aquatic food web, building up in fish, and posing a potential risk to long-lived apex predators who consume fish, including loons and humans. In all three systems—Guam, Georgia, and New Hampshire—the accumulation of cyanotoxins in the food web may put species at the top of the web at risk. LPC's work this summer will help measure cyanotoxins in New Hampshire lakes and identify mechanisms that could make them harmful to wildlife using loons as an indicator species.

All cyanotoxins are not alike. One broad class, microcystins, have long been known as a health hazard to humans and animals, including livestock and pets. Dr. James Haney, a limnologist at the University of New Hampshire's (UNH's) Center for Freshwater Biology, has been studying microcystins for several decades. Recently his research focus has broadened to include the cyanotoxin BMAA (Beta-Methylamino-L-alanine). BMAA is the compound that accumulates in fruit bats in Guam. It caught the attention of researchers in New Hampshire, including Dr. Haney, when they realized that BMAA derived

*continued on page 4*

### *Remembering Kittie...*

Linda Egli Johnson, Newsletter Editor:

Kittie Wilson was a kind, generous, and dear friend to all of us at LPC, but especially to New Hampshire's loons. She devoted her summers to protecting loons in any way she could. A retired school teacher, she traveled the state with her husband, John, giving presentations on loons and donating her speaking fees to LPC. In addition to her great skills as an educator, Kittie was an exceptional photographer. She photographed her loon family on Pleasant Lake in great detail, always with high powered lenses from a safe and respectful distance. And she shared her photography selflessly for the benefit of loon preservation. As the Editor of the LPC Newsletter, I have been immensely blessed to have Kittie's large archive of loon photography at my disposal. Her images tell a story that words cannot always capture. They offer enjoyment and a heightened awareness to the reader. And they set our publication apart with their professional quality and unique compositions.



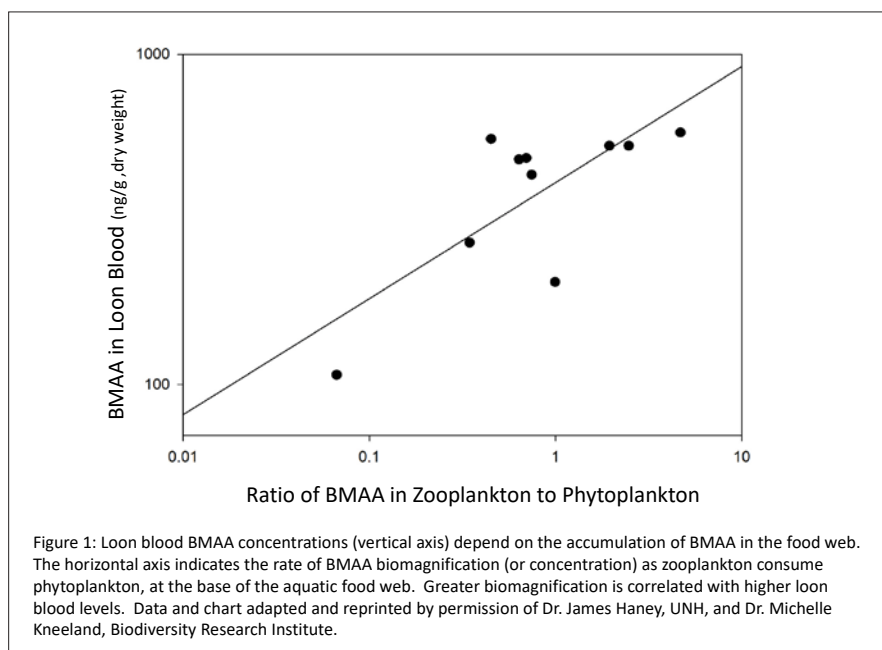
It was just last fall that Kittie and I collaborated on a new column for the LPC Newsletter, "Looking at Loons—A Telephoto Look at the Natural History of New Hampshire's Loons" (see page 21). This column captured the subtle nuances of loon behavior that many of us would otherwise miss. Prior to her passing she submitted what would be her last article and accompanying photographs for this Summer 2018 issue. But she left us a treasure trove of loon images captured with her indomitable spirit for loon behavior and preservation. We will honor her legacy by continuing to share her images through the LPC Newsletter, e-news, website, and our educational outreach efforts throughout the state. We are forever grateful to Kittie for leaving her mark in such a positive and inspiring way!



*continued from page 3*

from cyanobacterial blooms might help explain an unusual cluster of human ALS cases around Mascoma Lake in Enfield. Environmental sampling to measure BMAA levels at the bottom of the food chain, in the plankton, and in the predators higher up, like fish, has also included loon blood, feather, and egg samples. Indeed, recent results based in part on LPC's samples has confirmed the idea that BMAA may be accumulating, or bioconcentrating, in lake predators like loons (see Figure 1).

But accumulating in the upper echelons of the food web may not be the only way to the figurative top for cyanotoxins. Recent work at Dr. Haney's lab has highlighted a different route. To bypass the long trip up the food chain, a cyanotoxin like BMAA need only be lofted from the water column into the air to become immediately available to humans, loons, and other organisms living and



breathing at or near the surface of the lake. At the surface of a wind-swept or sun-baked lake, this aerosolization happens continuously, and may account for a substantial part of the total exposure

to cyanotoxins. Species like loons that eat fish *and* breath only a few inches above the lake surface would be exposed through both pathways.

*~John H. Cooley*



Photo Courtesy of Lorraine Virge

*In mid-May, North Country photographer Lorraine Virge discovered this Common Loon stuck in a small retention pond behind commercial buildings in Littleton, NH, without enough water to take flight. After several days, the loon headed over land across the parking lot between TJ Maxx and McDonald's. Virge and local law enforcement intercepted it just before it reached busy Route 3. Veterinary staff at Meadow Pond Animal Hospital in Moultonborough provided first aid and found no major injuries, and LPC staff released it the same day on Echo Lake in Franconia Notch, near the rescue site. Inclement weather the week before the rescue, which produced noted fall out of migrating waterbirds on large lakes throughout western NH, may have brought this loon to an unexpected landing.*

## Understanding and Managing for Climate Change in New Hampshire

Ice-out on Winnepesaukee this spring came on April 26, a few days later than average, marking a welcome end to what felt like a long winter. A cold, late spring had kept the ice intact, making this a pretty ordinary year in the 132 years of local record keeping. But as our summer newsletter goes to press, the weather patterns seem to have returned to the new normal. The month of May featured only a third as much rain as usual, and temperatures were five degrees Fahrenheit above average. When we look past the varying weather, though, the long-term trends are clear. New Hampshire's climate is warming and changing, and that change is impacting wildlife, from moose to river herring to loons.

Nesting at the water's edge, loons are vulnerable to weather events that can flood or strand their nests. Near the southern limit of the species breeding range, the loon population that we monitor and manage in New Hampshire may also be pushing the climate envelope, assuming loons have evolved climate-driven adaptations better suited for breeding further north. Fortunately, our close monitoring, over decades of variable weather, can give us insight into how loons fare during a warmer or cooler summer, or in dry or wet years. And this can help us anticipate, adapt, and plan.

Our investigation of the effects of these challenges on loons has focused on the influence of weather—precipitation, temperature, and humidity—on loon nesting success. This has been complicated by the many other factors that also influence nesting. To highlight the role of weather, we have matched loon nesting



Photo Courtesy of John Rockwood

*An adult loon vigorously pants on the nest in an attempt to cool itself. Loons will also leave the nest to drink and cool off in the water, leaving eggs vulnerable to predators.*

data—the site location, nest initiation and completion dates, and other monitoring data painstakingly compiled since the 1970s by numerous field crews and volunteers—with daily weather data from local weather stations, using over 100 stations throughout New Hampshire to cover the 4,000+ loon nest attempts with precisely known dates. This, we hope, gives us the clearest possible picture of the relationship between weather and nesting success.

The results of this analysis confirm that precipitation—especially the flood events that can cause widespread nest failure—and high temperatures are both negatively associated with loon nesting success. Rainier or warmer weather during a nest attempt makes the nest significantly less likely to succeed. As we refine these results, we are also focused this summer on nest observations that pinpoint the direct effects of weather and temperature on loon behavior and egg viability, to

better understand this relationship.

LPC is also investigating how to protect loons in the future, as the climate changes. A proactive part of our nest observations this summer will be LPC Staff Biologist Caroline Hughes' thesis investigation of raft cover materials. Will a shaded, cooler raft be a haven for loons on a hot day, making a nest in southern New Hampshire feel a little more like one in central Canada, or a nest in the future a little more like one from a past, cooler climate? Perhaps modest alterations to the nesting habitat, such as a little more shade, can buy our loons many decades more of comfortable nesting conditions, as the climate warms. To investigate, Caroline's Master's thesis is comparing simulated egg temperatures under rafts with additional shade at three experimental sites in southern, central, and northern New Hampshire. She is

*continued on page 6*



*continued from page 5*

also testing shade fabric on a few active nest rafts on Winnepesaukee and Squam, to measure the temperature differences and loon behaviors on these different rafts. In addition to nest raft design, Caroline's results may point to important differences in natural shade conditions at loon nest sites around the state.

*~John H. Cooley*



Photo Courtesy of John Rockwood

*Eggs left unattended, while incubating parents seek relief in the water from hot temperatures, are not only susceptible to predators but are at risk of overheating without the shade provided by the parents.*

## ***Master's Thesis Explores Raft Cover Materials and Nest Temperatures***

Given that the effects of climate change are already being felt by many species, particularly by those at the southernmost extent of their breeding ranges, LPC is gearing up to address the challenges that incubating loons are likely to face in New Hampshire as summers grow progressively warmer. Last summer, Staff Biologist and Field Program Coordinator Caroline Hughes conducted a pilot study to determine whether our nest raft covers could be modified with UV-blocking covers to provide shade, thus reducing heat stress on nesting loons. As the limited results of this pilot project were promising, Caroline is expanding upon that study this summer for her Master's Thesis.

The current study seeks to compare temperatures across multiple types of nests, with special emphasis on temperature differences between our current model raft, which has a cover consisting of one layer of camouflage netting stretched over an arch of lobster trap mesh, and our experimental model raft, which has a cover that incorporates a layer of UV-blocking shade fabric in addition to the camouflage netting and mesh. On lakes throughout New Hampshire, we have set up study sites that compare temperatures

among our experimental raft model, our current raft model, a nest raft with no cover, and shoreline (natural) nest sites. At each site, we are measuring both the ambient temperature and the temperature of mock eggs. Through this study, we hope to be able to determine whether the ambient and mock egg temperatures on the experimental raft model are significantly lower than on the current model rafts. We also hope to discover whether rafts in general (and the experimental rafts specifically) differ significantly from natural nest sites in terms of nest temperatures.

In addition to comparing temperatures among the raft types, we are also interested in deter-

mining whether the experimental raft covers provide a **biologically** significant temperature reduction for nesting loons. To determine this, we are equipping multiple nest rafts (with and without the UV-blocking fabric) that we expect will be used this season with a temperature sensor and with a game camera. Through this portion of the study, we hope to measure both temperature differences and differences in loon behavior (especially the expression of thermoregulatory behaviors, such as panting) between raft models. The results of this study should help us to improve the design of our rafts in order to better aid New Hampshire's loons as climate change progresses.



*An experimental raft setup on Lake Massabesic will compare temperatures among raft types and materials.*

## LPC Launches New Lead Tackle Buy Back Program to Combat Continuing Loon Lead Deaths

During a meeting this winter of the Loons & Lead Working Group at New Hampshire Fish & Game Headquarters in Concord, a radical idea was thrown on the table. "How about a lead tackle buy-back program?" Or as LPC's Harry Vogel likes to say, "Lead is still a serious problem for our loons. Let's give anglers some cold hard cash for their lead tackle!" The idea was discussed for a while longer, pros and cons presented, and a decision was made to try a pilot program during the summer of 2018.

The Loon Preservation Committee (LPC), New Hampshire Fish & Game Department (NHF&G), and two local tackle shops have teamed up to offer a lead tackle buy back between June 2 and September 3 (Labor Day). Anglers can exchange one ounce or more of banned tackle for a \$10 gift certificate to either AJ's Tackle in Meredith or The Tackle Shack in Newbury, the two participating shops this year.

This pilot program could not come at a better time, as we are on the heels of the highest number of adult loon deaths from ingested lead fishing tackle in the last 5 years. Eight loons were confirmed dead after ingesting lead sinkers and jigs in 2017. This was despite the new law that went into effect in New Hampshire on June 1, 2016, banning the sale and freshwater use of lead sinkers and jigs weighing one ounce or less, regardless of length or attachments. These loons were discovered on lakes or ponds in Alton, Auburn, Danbury, Franklin, Moultonborough, Pittsburg and Sunapee, which demonstrates the impact this issue is having across



Photo Courtesy of Bion Pike

*This loon was picked up by Harbormaster Bion Pike's boat at Manchester-by-the-Sea in Massachusetts at the end of November. Bion called LPC, and The Animal Rescue League of Boston, whose staff was able to get it to Tufts Veterinary Clinic. Although lead tackle ingestion is only rarely documented on saltwater, this loon had ingested a lead-headed jig, tested very high for lead, and unfortunately died overnight. The lead levels in this loon's blood were more than 10 times as high as the upper limit of our test machine at LPC.*

the state. They were a powerful reminder that it is one thing to have a law on the books, and another to have people aware of and follow that law. This new initiative is an attempt to offer an incentive to clean out Grandpa's old tackle box in the dusty corner of the garage and replace its lead tackle with new, loon-safe, non-toxic tackle.

In addition to the buy-back program, LPC and NHF&G will continue to educate anglers about the effects of lead poisoning on loons. Both organizations are part of a region-wide initiative called Fish Lead Free ([www.fishleadfree.org](http://www.fishleadfree.org)) which is dedicated to providing resources for anglers across New England to help them make the switch to lead-free tackle. There are many safe alternatives to lead that are easy to find and

affordable. It is our hope that the continued outreach will remind anglers that they should not wait any longer to do the right thing for loons. Not to mention fishing with lead sinkers or jigs weighing one ounce or less is against the law in New Hampshire now! Collection receptacles for old lead tackle can be found at all NHF&G offices, at The Loon Center in Moultonborough, at the NH Lakes Association office in Concord, and several transfer stations around the state as well.

We will be excited to share results from the 2018 pilot program in our Fall Newsletter, and we are hopeful we can expand the program next year if more tackle shops are willing to participate.

~Susie Burbidge



## *Lead Tackle Continues to be a Major Problem for NH's Loons in 2017*

When all was said and done, LPC's ongoing investigation of loon mortality produced a disappointing but very clear result in 2017: lead tackle ingestion continues to be a major problem for New Hampshire's loons. Forty percent of documented mortalities, or eight adult loons, died of lead poisoning. In 2017, another two loon mortalities involved fishing line entanglement, meaning that at least half of the documented adult loon mortalities were preventable. Other causes of adult mortality included infection (2), trauma (3), and injury from other loons (1). The cause of death could not be determined in five cases. In addition to adult cases, three immature loons (1-2-year olds) were collected, and seven juveniles or chicks (less than one year old). Most of the

juvenile mortalities were attributed to trauma (usually from attacks by other loons) but in one notable case on Conway Lake, from a bald eagle.

The 2017 mortality collections represented over a third of the mortalities expected in the adult loon population for the entire year, given a background mortality rate of 8% and an adult population estimated at about 700 loons. This is a remarkably high rate of collected and examined carcasses, for a free-ranging wildlife population, and speaks to the strong public interest and cooperation in reporting dead loons. We were surprised to find that in 2017 over a third of the adult mortality cases were banded loons, including three of the lead mortalities. Two of these lead poisoned loons were at least 21 years old (origi-

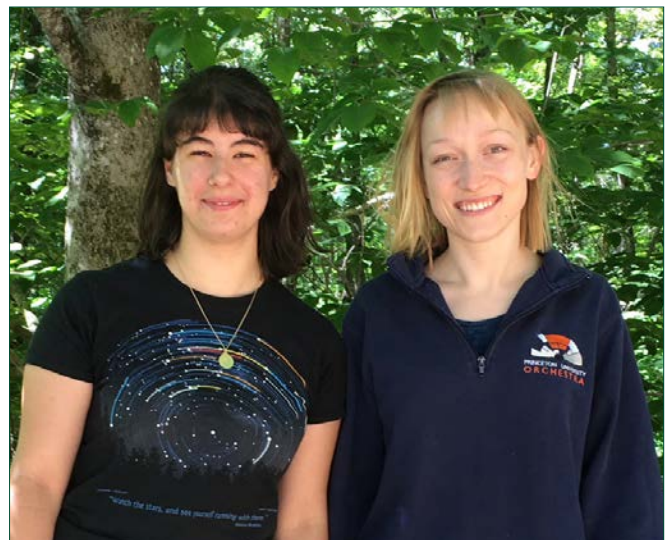
nally banded in 1999) and the third was at least 15 (originally banded in 2005). For one, banded in 1999 on Walker Pond in Boscawen, lead poisoning ended a successful recent breeding effort on Tower Hill Pond in Auburn. At 25 miles from Walker Pond, his establishment at Tower Hill Pond marked a record dispersal distance, across the Merrimack River Valley, for an adult male loon.

~John H. Cooley



## *LPC Hosts Tufts Veterinary Students – Olivia Bolus & Kim Freid*

This summer, LPC will again host two Tufts University veterinary interns. Olivia Bolus (pictured left) is a rising second year veterinary student with a background in environmental science and marine mammal biology. Her previous experience includes work with Allied Whale, where she helped to manage the North Atlantic Humpback Whale catalog, responded to marine mammal strandings, and participated in necropsies. This summer, Olivia will focus on testing a new device to aid in the detection of aspergillosis (an opportunistic fungal disease) in loons. While this device has been used for humans, it has never before been used on wildlife. Our second intern, Kim Freid (pictured right), is a rising third year veterinary student. During her previous experience as a veterinary assistant, Kim developed an interest in toxins that affect wildlife after seeing mass seabird mortality as a result of red tide poisoning. This summer, Kim will be working closely with both LPC and the University of New Hampshire Center for Freshwater Biology to investigate the potential health consequences to loons from exposure to the toxins produced by harmful algal blooms. We are glad for the continued opportunity to collaborate with Tufts University Cummings School of Veterinary Medicine and look forward to having both Kim and Olivia join our team this summer.





# 2018 LPC SUMMER FIELD STAFF

## LAKES REGION



HENRY STEVENS

Henry is enrolled at Tufts University with a dual major in Biology and Environmental Science. He founded the Tufts Ornithological Society, a student organization promoting ornithology and avian biodiversity education and awareness.

## SEACOAST



OWEN BRENNICK

Owen is enrolled at the University of New Hampshire majoring in Wildlife Conservation Biology. He served as a research assistant on a New England Cottontail monitoring and conservation project, overseeing data collection and integrity.

## MONADNOCK



HILLARY SIENER

Hillary earned a B.S. in Geology /St. Lawrence University, and an M.S. in Environmental Studies/Antioch University New England. She has dedicated much of her career to date studying and banding birds throughout the northeast.

## SUNAPEE



SARAH CANTWELL

Sarah returns for a second summer monitoring the loons in New Hampshire's Sunapee Region. She continues her undergraduate studies in Wildlife Conservation Biology as a senior at the University of New Hampshire.

## NORTH COUNTRY



NOAH BELIVEAU

Noah is a recent graduate of St. Lawrence University/Biology. He spent two summers as a field technician for the Institute for Bird Populations (IBP)—the first on willow flycatchers, and second on bumblebees—in the remote Sierra Nevadas.

## WINNIPESAUKEE



ERIN HALEY

Erin is enrolled at the University of Montana majoring in Wildlife Biology. She volunteered for a Wolverine Watch Station in northwestern Montana, as well as for a habitat restoration project in the Blackfoot-Clearwater Game Range.

## SUMMER INTERN



JULIAN MOULTON

Julian is an Organismal Biology and Ecology major at Colorado College. Research experience includes the Bronx Zoo, American Museum of Natural History, Cape Eleuthera Institute, and Ecology Project International in Costa Rica.

## SUMMER INTERN



MATT TOLMAN

Matt is enrolled at Paul Smith College where he majors in Wildlife Biology. He has gained valuable experience surveying and banding birds through his course work and is eager to further expand his field skills helping LPC this summer.

The SQUAM LAKE territory is monitored by Tiffany Grade, LPC's full-time Squam Lake Project Biologist.

## LPC Hosts 29th Annual Northeast Loon Study Working Group

On March 15th-16th, the Loon Preservation Committee hosted the 29th Annual Northeast Loon Study Working Group (NELSWG) meeting at The Loon Center. NELSWG provides a forum for researchers from throughout the northeastern states, the eastern Canadian provinces, and beyond to share new findings about the basic biology and life history of loons; discuss continuing and emerging threats to loon populations; and improve our ability to address challenges facing loons through management and public education. Meeting as a group allows researchers and state-wide organizations like the Loon Preservation Committee to place their findings into a larger regional context, and facilitates in-depth discussions about priorities for new research and new collaborations to benefit loons.

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*NELSWG provides a forum for researchers from throughout the northeastern states, the eastern Canadian provinces, and beyond to share new findings about the basic biology and life history of loons; discuss continuing and emerging threats to loon populations; and improve our ability to address challenges facing loons through management and public education.*

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An impressive list of close to 50 representatives of 19 not-for-profit organizations, industries, and government agencies attended the gathering. The subjects covered at the meeting were nearly as diverse as the participants, with a total of 29 presentations and discussion topics addressed over two

intensive days dedicated to safeguarding and recovering loons. An entire section of the meeting was devoted to the continuing challenges posed to loons by lead fishing tackle and ongoing research and education to reduce mortalities from ingested lead tackle.

LPC staff led discussions of new techniques to rescue and rehabilitate sick or injured loons based on our experience and recent successes, and considerable time and discussion were devoted to the threats of contaminants revealed by LPC's Squam Lake Loon Initiative (see page 16) and the continued progress of LPC's Loon Recovery Plan. The latter topic included initial results of LPC's comprehensive analysis of effects of temperature and rainfall on loon nesting success and an introduction to our pilot study on management techniques to mitigate these challenges.

NELSWG provides an important venue to share and critically



*LPC Senior Biologist John Cooley discusses the potential effects of Climate Change on New Hampshire's loons.*

examine LPC's monitoring, research, management, and educational activities. The peer review of the many initiatives reported at NELSWG helps hone the work of LPC and other organizations to assure a future for loons in the northeast. The Loon Preservation Committee and the Northeast Loon Study Working Group will continue to expand relationships among researchers and wildlife managers that are working to recover viable region-wide populations of loons and other wildlife. In so doing, NELSWG helps ensure that LPC's work continues to benefit loons and other wildlife in the northeast and beyond.

*~Harry Vogel*

*The dramatic increases in LPC's monitoring, research, management, and education to recover loons have been funded by donations to LPC's Loon Recovery Plan. For more information about the Loon Recovery Plan, or to make a donation, please contact Harry Vogel, Senior Biologist/Executive Director at 603-476-5666 or [hvogel@loon.org](mailto:hvogel@loon.org).*



## Thank you to our donors: April 1, 2017 - March 31, 2018 (\$100 and above)

*The Board of Trustees and staff of the Loon Preservation Committee thank all our supporters for their passion and commitment to our mission. Every dollar and donation of goods and/or services makes a difference in our work to preserve loons and their habitats in New Hampshire. We regret that space limits this listing to monetary donations of \$100 or more. Although we make every effort to be accurate, we would appreciate any notice of errors or oversights.*

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Benevity Community Impact Fund  
Mr. and Mrs. Mark Billings  
Ms. Carolyn Bitetti  
Dr. Joan Boomsma  
Mr. and Mrs. Bud Booth  
Vicky Boreyko  
Rick and Karen Bowe  
Stephen Bradley  
Winthrop and Sarah Brown  
Lalor and Patricia Burdick  
Chase and Wendy Carey  
Mr. and Mrs. Bob Cassato  
Mr. Mark Chaffee  
Jane Choate  
Mr. and Mrs. Jim Clemens  
John and Carla Codispoli  
Jacquie and Ken Colburn  
Ms. Nancy Collins  
Bill Crangle and Lee Webster  
Mr. and Mrs. Fred Dargie  
Charles J. De Siewes  
Deborah Dearborn  
Your Cause, LLC Dell Giving  
Michael A. Di Flora  
E.M. Heath, Inc.  
Ms. Lenora M. Egli  
Kate Esbenschade & Michael Miele  
Harlow Farmer & Nini Lian  
John and Barbara Fibiger  
Dr. Daniel Finn  
E. Ripley Forbes  
Frank Marinace Architect  
Frog Rock Tavern  
Mr. and Mrs. Allan W. Fulkerson  
Mr. Marc Gallagher  
Mr. and Mrs. Tom K. Garesche  
Mr. James F. Goulet  
Joel Grade  
Mr. and Mrs. Donald C. Graham  
Great East Lake Improvement  
Association  
Greater Washington Community  
Foundation  
Dr. and Mrs. Paul Guyre  
Mr. and Mrs. Richard Hawkins  
Barbara Hendricks  
Mr. and Mrs. William Hofmann III  
Mr. and Mrs. William Hohenberger  
Mr. and Mrs. Phil Hunter  
Irving Energy Distribution &  
Marketing  
Irwin Corporation

Jeff Good Landscaping  
Jewish Federation of Cleveland  
Mr. and Mrs. Louis Kahn  
Corrie Kinnicutt  
Katherine Kinnicutt Family Fndn.  
Dr. Ron Katz  
Mr. and Mrs. John Kieley  
Mr. and Mrs. Carl W. Leaman  
Mr. and Mrs. Dick Leaman  
Mr. and Mrs. William Ledingham  
Lemon Grass Restaurant  
Martha B. Lowery  
Mr. Roman Lubynsky  
Mr. and Mrs. Bud Lynch  
Mr. and Mrs. David Lynch  
Sue Mackie  
Richard and Margaret Margolis  
Mr. and Mrs. David F. Martin  
Mr. and Mrs. Neal McKnight  
Andy McLane  
Mr. and Mrs. Mark McNabb  
Merrymeeting Lake Association  
Heather S. Miller  
Anne Montgomery  
Morgan Stanley  
Moulton Farm  
Nelson Law Offices  
Jay and Lynne Newton  
Mr. and Mrs. Andy Noel  
Mr. and Mrs. James Nyce  
Mr. and Mrs. Carl L. Nydegger  
Joseph and Molly Nye  
Mr. Jeffrey B. Parker  
Pfizer Foundation Matching Gifts  
Pine River Pond Association  
The Pinkard Group  
Mr. and Mrs. Kevin Poitras  
Mrs. Suzanne Pratt  
Linda Price  
Mr. Jordan S. Prouty  
Pumpnickel Press  
Mr. and Mrs. Peter M. Richards  
Dr. Beverly S. Ridgely  
Saltmarsh Insurance Agency  
Samuel and Gail Murdough  
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Bruce and Sarah Schwaegler  
Mr. Peter Segal  
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William and Pam Simonds  
Janet Smith  
Martha Soucy  
Mr. and Mrs. Anthony Spinazzola  
Mr. and Mrs. Ed Stephenson  
Mr. and Mrs. Glenn P. Strehle  
Taylor Family Fund  
The New Woodshed  
Mr. and Mrs. John Thompson  
Mr. and Mrs. David S. Thorpe

TIAA Charitable  
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Mark and Pamela Trailsmith  
Mr. and Mrs. F. K. Von Gottberg  
Mr. and Mrs. Alan Walts  
Stephen Wells  
Ms. Catherine Williams  
Elizabeth Woodard

#### **\$250 to \$499**

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Ms. Margi K. Alderfer  
Alexandria Titans Volleyball Club  
Ms. Jane Alvord  
David Andrews  
Mr. James A. Babson  
Bank of America Charitable Gifts  
Dr. and Mrs. Marc Bard  
Mr. and Mrs. Robert Barr  
Dorothy A. Bauer  
Mrs. Thomas P. Beal Jr.  
Bearcamp Pond Association  
Kathy Berman  
Gilbert Binninger  
Rick and Robin Blank  
Mr. and Mrs. David Blohm  
Anne W. Borg  
Mr. and Mrs. Michael Borkowski  
Jonathan Bourne  
Mr. and Mrs. Ronald Brienza  
Eleanor Briggs  
Isabel V Brintnall  
Richard G. Brown  
Ryan Buchanan  
Camp Deerwood, Inc.  
Mr. and Mrs. Bruce Casper  
Curt and Joanne Chesley  
YourCause, LLC Trustee for  
Chevron Matching Gifts  
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Nancy E. Christie  
Mr. and Mrs. Armand Circharo  
Chuck Clement  
Cleveland Foundation  
Mr. and Mrs. Raymond Comenzo  
Mrs. Peace Conant  
Pam Conover & Jon Adams  
Mr. and Mrs. Nathaniel Coolidge  
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Mr. and Mrs. Robert Doretti  
Deborah Downs  
Mr. John F. Dufrat  
Carl and Amy Du Rei  
Eastman Community Association  
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Mr. Douglas Fais  
John Faunce  
Mr. and Mrs. Merrill Fay  
Mr. and Mrs. Patrick Feely  
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Rev. Richard R. Fernandez  
Mr. Richard P. Fisk  
Jon Fliss  
Mr. Peter Formato  
Ms. Mavis H. Foster  
Jon Franklin

Stephen and Jane Frasca  
Ruth I. Freeman  
Mr. Steve Fusi  
Mr. and Mrs. Jerome Gates  
Barbara Gavin  
Mr. and Mrs. Cyrus F. Gibson  
Giuseppe's Pizzeria  
Mr. Rudy Glocker  
Joyce L. Goerke  
Mr. and Mrs. Richard L. Goodby  
Goose Pond Lake Association  
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Mr. and Mrs. Kenneth G. Green  
Mr. and Mrs. David Gregg III  
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Barbara Groth  
Mr. and Mrs. Alan Halperin  
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Mrs. Barbara Hartford  
Mr. and Mrs. Gerry Hayes  
Karel Hayes  
Mr. and Mrs. George Hibbard  
Mr. Scott Hoekman  
Laurie Hoyt  
Jeffrey Hugel  
Blake Ireland Jr.  
Mr. Bill R. Irwin  
Christine Jacobs  
Carl and Linda Egli Johnson  
Mr. and Mrs. Clinton Johnson  
Ms. Ingrid Johnson  
Gail Johnston  
David Katz  
Tim Keith  
Jane Kellogg  
Nate Kelly  
Jay and Janet Kenty  
Mr. Ralph M. Kirshner  
Mr. and Mrs. Fred Knapp  
Mr. and Mrs. Richard Knox  
Timothy Krebs  
Phil F. LaCasse  
Lucille Lacombe  
Beverly LaFoley  
Lake Winona Improvement Assoc.  
Robert and Maureen Lamb  
Mrs. Jean Lamont B. Fiske  
Mr. and Mrs. Dave Larsen  
Mr. and Mrs. David S. Lee  
Mr. and Mrs. William F. Lee Jr.  
Karen Levitt  
Mr. and Mrs. Duff Lewis  
Little Sunapee Protective Assoc.  
Lovell Lake Association  
Mr. and Mrs. Robert P. Lowndes  
Audrey T. MacLean  
Ken Mahl & Rachel Williams  
Mr. and Mrs. Steven L. Marcus  
Mrs. Winston Markey  
Mr. and Mrs. David Marotta  
Virginia C. Mars  
Millicent Mason  
Donald H. May  
C. Joseph McCannon  
Sally McGarry & Phyllis Veazey  
Mr. and Mrs. Matthew T. McGinnes  
Mr. John S. McKinney  
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Cole Mills  
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Mr. and Mrs. John Mooradian  
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William Morris & Evelyn Conroy  
Mr. and Mrs. David Morse  
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Mark Musselman  
Mr. and Mrs. James A. Neel  
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Charles F. Obrecht  
Ms. Phoebe C. Olmsted  
Gerry Oullette  
Susan Parker  
Estelle Parsons & Peter Zimroth  
Partridge Lake Property Owners  
Tim Perry  
Mr. Sidney Peterman  
Juliana Phillips  
Leslie Pires  
Pleasant Lake Protective Assoc.  
Mr. Robert H. Potts  
Mr. and Mrs. Peter G. Powers  
Michael and Susanne Prakken  
Tricia Pratt  
The Honorable Phil Preston  
Jamie Pringle  
Adam and Rachel Ramsey  
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Donald N. Rice  
Mr. and Mrs. Michael C. Rich  
Mr. and Mrs. John C. Robbins III  
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Mr. and Mrs. Dan Robusto  
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James Salmon  
Mr. David Sandmann  
Dr. Leo B. Sanfacon  
Mr. and Mrs. Brian Sanford  
Everett and Sally Schenk  
Mr. Andrew C. Schirmeister  
Ms. Donna Schmalberger  
Pat Schmidt  
Mary Anne Scott  
Ms. Susan Scrimshaw  
Mrs. Debra Sedgwick  
Shell Matching Gifts Program  
Ms. Joanne Shelton  
Silver Lake Association of  
Harrisville & Nelson  
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Mr. and Mrs. Dudley R. Smith  
Michael Smith  
Martha Soucy  
Mr. and Mrs. Robert Stewart  
Brenda Stowe  
Mr. and Mrs. Mark Sullivan  
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Dr. and Mrs. Andrew L. Taylor  
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Ellen Vail  
Timothy and Lucy Vaill  
Deirdre Wachtel  
Peter and Gail Walcott  
Lisa Wardlaw

Mr. and Mrs. Robert H. Watkinson  
Waukewan and Winona  
Watershed Protective Association  
Fran West & Roberta Stack  
Sue Whaley  
Mr. and Mrs. Mark Whary  
Mr. and Mrs. Steve White  
Mr. and Mrs. Kent Willing  
Winnepesaukee Chocolates  
Kim Wiscol  
Peter and JoAnn Wood  
Mr. and Mrs. Steve Wright  
YMCA Camp Huckins  
Carol Zink

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Abigail Adams  
Jonathan D. Adams  
Mr. and Mrs. Wayne H. Adams  
Mr. and Mrs. Peter Allen  
Richard and Nelleke Allen  
Amazon Smile Foundation  
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Mr. and Mrs. Colin F. Anderson  
Nancy Anderson  
Mr. Hugh T. Antrim  
Mr. Frank E. Argersinger  
Ms. Judith M. Arms  
Kevin Ash  
Betsy G. Atkinson  
Steve Avery  
Ms. Deborah Ayers  
Mr. Brian Babcock  
Kathryn Bacastow  
Christine Bachrach  
Dr. and Mrs. Robert L. Bahr  
Col. and Mrs. Broadus Bailey Jr.  
Mr. and Mrs. Bill Bardsley  
Ben Bare  
Wendy Baring-Gould  
Catherine E. Barrett  
Mr. Mike J. Bartlett  
Ronley Bates  
Todd Bates  
Mr. and Mrs. Bill Batsford  
Penelope Beal  
Tom Beal & Laura Nash  
Mr. and Mrs. David L. Beardsley  
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Mr. Ned B. Beecher  
Wills Begor  
Mr. and Mrs. Dan Bell  
Deborah K. Benjamin  
Ms. Alice T. Bennet  
Mr. and Mrs. Charles A. Bennett  
Beth Benoit  
Mr. and Mrs. William Berkeley  
Chris, Hans & Carol Bernau  
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Mr. John Besser  
Mr. and Mrs. Richard Beyer  
Mr. and Mrs. John Bidwell  
Big Island Pond Corp.  
Bijou Productions  
Mr. and Mrs. Gordon H. Bingham  
Rev. Nancy G. Bischoff  
Mr. Kirk C. Bishop  
Peter Bixby & Frieda Yueh



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 Black Point Derby Side Association  
 William and Elaine Blaylock  
 Blue Loon Botanicals  
 The Blue Shutter Gallery &  
 Frame Shop  
 Ms. Marcia Blutstein  
 David Booth  
 Vicky Boreyko  
 Mr. and Mrs. Arthur J. Bouffard  
 Mr. and Mrs. Roy E. Bouldry  
 Karin and Jeff Bouvier  
 Nicole Bouvier  
 Bow Lake Camp Owners Assoc.  
 Fred and Sue Bowden  
 Mr. and Mrs. David Boyce  
 Ellen Bradley  
 Mrs. Helen J. Bradley  
 Mr. and Mrs. Jim Bradley  
 David Brady  
 John Bratten  
 Breakaway Athletic Coaching  
 Tom Brendal  
 Barbara Brennan  
 Bridgman's Furniture, Inc.  
 Mr. Richard Brisbois  
 Ralph Bristol  
 Elizabeth Brookman  
 Mr. and Mrs. Alfred R. Brown  
 Bruce Brown Family  
 Sheridan T. Brown  
 Mr. and Mrs. David Buffum  
 Mr. and Mrs. Kenneth Burchard  
 Kristina Burgard  
 Karen Burnett-Kune  
 Katy Burns  
 Stephen Burtchell  
 Trent Busch  
 Ms. Catherine Bushueff  
 Dr. and Mrs. Peter D. Byeff  
 Betsy Washburn Cabot  
 Timothy Callahan  
 Camp Tecumseh  
 Canaan Lake Association  
 Jon Cannon  
 Canobie Lake Protective Assoc.  
 Mr. and Mrs. Alan Cantor  
 Keith J. Capulli  
 Jane Carlson  
 Sandra Carlson  
 Martha Caron  
 Mr. and Mrs. James Carr  
 Ms. Anne Carroll  
 Centennial Senior Center, Inc.  
 Randy Cepuch  
 Mr. and Mrs. Clark Chandler  
 Martha Chandler  
 Edward H. Chapman  
 Jocelyn D. Chertoff MD  
 Mrs. Mary F. Chesebrough  
 Christopher P. Williams, Architects  
 Circle Dental  
 Mr. and Mrs. Fred G. Clark  
 Mr. and Mrs. Warren Clark  
 Clarke's Hardware  
 Mr. and Mrs. Richard Clayton  
 Mr. and Mrs. Pete Cohee  
 James and Jackie Colthart  
 Suan Columbia  
 Dr. and Mrs. James F. Conway Jr.  
 Mr. Hamilton Coolidge

Lawrence and Nancy Coolidge  
 Mr. and Mrs. George D. Cooper  
 Mr. George C. Corson Jr.  
 Mr. and Mrs. Kenneth A. Costa  
 Mrs. Page P. Coulter  
 Virginia Craig  
 Mr. and Mrs. James L. Crandall  
 Mr. and Mrs. Hugh J. Crawford  
 Rev. and Mrs. James Crawford  
 Bernie Criasia  
 Lorraine Crocker  
 Mr. and Mrs. Kent R. Cromwell  
 Mr. and Mrs. Court Cross  
 Cross Insurance Agency  
 Tom Crouse  
 Denise Crowl  
 Mr. Tom Cullen  
 Mrs. Sally S. Cutler  
 DAK Financial Group  
 Mr. and Mrs. Henry Damon  
 Mr. and Mrs. George Davies  
 Laura Davis  
 Mr. and Mrs. William M. Davis  
 Mr. John H. Dawson  
 Deborah De Peyster  
 Rose DeMars & Joseph Ingari  
 Robert Denious  
 Charles G. Depew  
 Harvey and Sharon Dewees  
 Wendy DeWeirdt  
 Mr. George Dewolf  
 Diamond Pond Association  
 David Dickinson  
 Ms. Jean Diehl  
 Mark Diette  
 Mr. and Mrs. Neal Dini  
 Alan DiStasio  
 Dog Cove Corporation  
 Evelyn Dolan  
 Alan Donaldson  
 Mr. Thomas Dore  
 Mr. and Mrs. Scott C. Dow  
 William Draper  
 Kathryn Drew  
 Karen Duggan  
 Duke of Omnium Fund  
 Voorhees Dunn  
 Dana R. Duxbury-Fox  
 Mr. David Eastman  
 Janice Eaton  
 Mr. and Mrs. Brian Eddy  
 Mr. and Mrs. Jeb Eddy  
 Linda Edelman  
 Mr. and Mrs. John Edie and Family  
 Mr. and Mrs. John Edson  
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 Midge Eliassen  
 Mr. and Mrs. Tom Elkinton  
 Chris Elliot  
 Mr. and Mrs. William A. Emerson  
 Mr. and Mrs. Charlie Emmons  
 Mr. Richard Englund  
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 Jennifer Esten  
 Mr. and Mrs. Kenneth H. Evans Jr.  
 Ms. Jean Evvard  
 Experience Squam  
 Anita B. Fahy  
 Mr. and Mrs. Charles G. Fairman  
 Michael and Sharon Fanger

Kim Faulkner  
 Mr. and Mrs. Michael Fenollosa  
 Ms. Marilyn Fitzgerald  
 Mr. and Mrs. Harvey J. Flanders  
 Ted Fodero  
 Mr. and Mrs. Pete Fogle  
 Lori Folts  
 Ms. Teresa Forbes  
 Forest Lake Association  
 Mr. and Mrs. Edward Foster  
 Francetown Land Trust  
 Ms. Barbara J. Francisco  
 Franklin Pierce Lake Association  
 Frase Electric  
 Bette Frazier  
 Freedom Club of New Hampshire  
 Kyle Freeman  
 Mark Freeman  
 Mr. Joseph Freitas  
 Elizabeth Frey  
 Mr. and Mrs. Roger Frieden  
 Friends of Big Island Pond  
 Friends of Libby Museum  
 Mr. and Mrs. Donald R. Frisch  
 Darlene M. Fritz  
 Betsy Gagnon  
 Julius Gamble  
 Geoff Gannon  
 Whitney Gay  
 Mr. and Mrs. Richard Gerken  
 Gilford Islands Association  
 Dr. and Mrs. Joseph Gluck  
 Mr. and Mrs. Vernon Goddard  
 Mr. and Mrs. Walter Goddard  
 Brenda Godin  
 Mr. Steve Goldsmith  
 David and Jean Gottesman  
 Mr. and Mrs. Kingdon Gould  
 Grace Wellness Center, LLC  
 Tiffany Grade  
 Mr. John S. Graham  
 Granite Lake Association  
 Mrs. Winslow Green  
 Mr. and Mrs. David B. Greenwood  
 Mr. and Mrs. Chilton B. Greer  
 Mr. and Mrs. William G. Griffin  
 Kenneth Grinnell  
 Mr. Tom Gross  
 Ms. Barbara Grossman  
 Nancy L. Grossman  
 Ms. Marjorie Guroff  
 Holly Haeefe  
 Mr. and Mrs. Thomas P. Hall  
 Pam Halsey  
 Mr. and Mrs. Charles Hamann  
 Mr. Jeffrey G. Hamlin  
 Evie Hammerman  
 Celia Harper  
 John Harrigan  
 Rachel Harrigan  
 Mr. Joel Harrington  
 Mr. and Mrs. Chip Harris  
 Frances Harris  
 John and Patricia Harris  
 Mr. and Mrs. Harry Hartford  
 Mr. and Mrs. William Hassett  
 Mr. Roger Hatch  
 Mr. and Mrs. Jeffrey A. Hathaway  
 Mr. John Hawes  
 Hawkeye Appraisals, LLC  
 Susan Hayes

Mr. and Mrs. Wesley Hays  
 Jane Hearn  
 Mr. and Mrs. Paul Heaslip  
 Jonathan Hecht  
 Kathleen Hedberg  
 Steven P. Heinrich  
 Barbara Helmstetter  
 Mrs. Barbara H. Hendrick  
 Mr. and Mrs. Tom Herwig  
 Mr. and Mrs. Colin High  
 Highland Lake Protective Assoc.  
 Mr. and Mrs. David F. Hill  
 Mr. Douglas Hill  
 Dr. Lauren C. Hill D.V.M.  
 Mr. and Mrs. Gary Hirschberg  
 Mr. David Hitchcock  
 Mrs. Patricia P. Hitchcock  
 HMD Durante Corp.  
 Hoag Island Preservation Trust  
 Colette Hodes  
 Mr. and Mrs. John E. Hoffmann Jr.  
 Dr. and Mrs. Lewis B. Holmes  
 Dennis Holt  
 Mr. and Mrs. Bob Hopkins  
 Thomas Hopper  
 Horizon Foundation for NJ  
 Mr. and Mrs. Todd Horn  
 Mr. Bruce Houghton  
 Howard Precision Inc.  
 Mr. Thomas A. Howe  
 Judith Hudson  
 Lisa Hull  
 Ms. Bonnie M. Hunt  
 Mr. and Mrs. Derek Hunt  
 Revs. Marshall and Victoria Hunt  
 Carolyn Hunter  
 Mr. John Hurd  
 Ippolito's Furniture  
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 Teresa Jacobson  
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 Christopher Johnson  
 Virginia D. Johnson  
 Nancy Jovanovich  
 Spencer and Susan Joyner Jr.  
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 Karla Karash  
 Allen Kasiewicz  
 Elinor Kehas  
 Lynn Kehoe  
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 Kellogg Family  
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 Mr. and Mrs. Kevin Kelly  
 Margaret V. Kemp  
 Mark Kendall  
 Mr. Bob Kennelly  
 Elizabeth Kent  
 Mr. and Mrs. Jay W. Kenty  
 Mr. and Mrs. Bruce Keough  
 Mr. and Mrs. William R. Keylor  
 Kezar Lake Protective Association  
 Mr. Keith Kidder  
 King Arthur Flour

Kingston Lake Association  
 Kingswood Camp  
 Kingwood Lake Public Association  
 Corrie Kinnicutt  
 Hartford Kit  
 Mr. and Mrs. James Klimas  
 Mr. Jeffrey C. Knight  
 Sarah Knowlton  
 William Kobertz  
 Ines Kochman  
 Janet Koehnke  
 KOLEMOOK Lake Protective Assoc.  
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 Ed and Liz Kotowski  
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 Timothy Krebs  
 Mr. and Mrs. John Kreitler  
 Michael Kretschmann  
 Martha Kruse  
 Chris D. Kuhn  
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 Lake Kanasatka Watershed Assoc.  
 Lake Massasecum Improvement  
 Association  
 Lake Todd Village District  
 Lake Wicwas Association, Inc.  
 Lake Winnisquam Drive Assoc.  
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 John Landino  
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 Dean Malouta  
 Pamela Mannion  
 Christi Maple  
 Ms. Carol Maraldo  
 Bill and Cynthia Marcus  
 Mitzi Marsh  
 Drs. William and Stefanie Marsh  
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 Frances Marshman  
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 Ms. Cathy May  
 Mr. Ronald Mayer  
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 Mr. and Mrs. George McClelland  
 Barbara and Clark McClure  
 Mr. and Mrs. John McCormick  
 Nancy McDonald  
 Kathy McEachern  
 Mrs. Cynthia McFadden  
 John McGonagle  
 Mr. and Mrs. Jim McGuire  
 Mr. and Mrs. Scott E. McLeod  
 & Family  
 John and Mary Ann McRae  
 Meadow Pond Animal Hospital  
 MegaPrint, Inc  
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 Meredith Bay Colony Club  
 Meredith Insurance Agency, LLC  
 Meredith Rotary Club  
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 Mr. David Merker  
 Mr. John P. Merrill  
 Dr. and Mrs. Henry Metzger  
 Mr. and Mrs. Robert Metzger  
 Mr. Craig R. Meyer  
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 Mr. Kevin Mills  
 Anne D. Milne  
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 Mr. Nader Moavenian  
 Mr. and Mrs. Geoffrey S. Molina  
 Sy Montgomery  
 Mr. and Mrs. Joel S. Mooney  
 Thomas Morrison  
 Mr. and Mrs. Tom Morrissey  
 Mount Sunapee Resort  
 David Mourer  
 Mr. Dennis Murphy  
 Leanna Murphy  
 Mr. and Mrs. Roger F. Murray III  
 Janet Nelson  
 Bill Nesheim  
 NH Garden Club  
 NH Orthopaedic Center  
 NH Environmental Consultants  
 NH Mushroom Company  
 Ms. Ann Nichols  
 Mr. Paul R. Nickerson  
 Karen North  
 Mr. Robert S. North  
 Mr. George W. Noyes  
 Henry Nuzum  
 Thomas and Jean Nuzum  
 Karalyn Obey  
 Mr. and Mrs. Pete O'Brien  
 Mr. Robert P. Odell Jr.  
 Mr. and Mrs. Walter Ohnemus  
 Mr. and Mrs. Emery Olcott  
 Jack Oliver  
 Opechee Garden Club  
 Andrew Opel  
 Mr. and Mrs. Richard Ormrod  
 Otter Pond Protective Association  
 Mr. and Mrs. Richard Otto  
 Our Lady of Massabesic Lake  
 Karen Palma-Halliday  
 Mr. and Mrs. Scott Palmer  
 Mr. and Mrs. Henry Parker  
 Mr. Northam D. Parr  
 Heath Partington  
 Dr. David Pawlowski  
 Ms. Jeannie E. Pearce  
 Mr. and Mrs. Doug Peel  
 Dick Pendergast  
 Perkins Pond Protective Association  
 Mr. and Mrs. Jeff Pero  
 Ann Perra  
 Mr. Gerald J. Peters  
 A Ray Petty  
 Lee Petty  
 Mr. and Mrs. Don Picard  
 Nancy Pierce  
 Roy Pierce  
 Pleasant Lake Preservation Assoc.  
 Mark Pokras  
 Cate Poole  
 Susan Postlewaite  
 B Powell  
 Marjorie Powell  
 Mrs. Susan H. Pratt  
 Todd Prentiss  
 Prospect Hill Antiques  
 Ms. Sara J. Prouty  
 Mr. Gerard Provencher  
 Province Lake Association  
 Mr. and Mrs. David K. Pruden  
 Lynne Quada  
 Mr. Timothy Quinn  
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 Mr. and Mrs. Richard Ranger  
 Mr. and Mrs. Allen F. Rapp  
 Mr. David Redman  
 Mrs. Elaine J. Reis  
 ReMax Bayside  
 Renaissance Charitable Fndn.  
 Frances Rhoads  
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 Mr. Murray Ruben  
 Mr. and Mrs. Ken Ruhm  
 Mr. and Mrs. Mike Ruyffelaert  
 R.F. Rylander  
 Mr. Jason Saghir  
 Mr. James D. Salmon  
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 Mr. and Mrs. Benjamin F. Sands Jr.  
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 Mr. and Mrs. Robert T. Sanford  
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 Savings Bank of Walpole  
 Carolyn Sawyer  
 Mr. and Mrs. Donald Schaalman  
 Jane Schindler  
 Caroline Schoerner  
 David W. Schorer  
 Mr. Merle Schotanus  
 Kathie Schuster  
 Mr. and Mrs. Bruce M. Schwaegler  
 Mr. and Mrs. Frank Seabury II  
 Mr. David O. Sears  
 Ms. Olivia E. Sears  
 Mr. Rob Sedgwick  
 David Semmens  
 Mr. and Mrs. Paul W. Shannon  
 Ms. Deirdre Sheerr-Gross  
 Dr. and Mrs. Thomas Sheldon  
 Mr. and Mrs. John Sherman  
 Mr. and Mrs. Robert Shirey  
 Alicia Shortill  
 Susanne Shrader  
 Suzan Sigmond  
 Peter Simkin  
 Henry Simonds  
 Ingrid Skadberg  
 Susan S. Small  
 David Smith  
 Mr. and Mrs. Samuel Smith  
 Mr. and Mrs. Robert N. Snelling  
 Betsy Snider  
 Melissa Sorensen  
 Mrs. Priscilla Sorlien  
 South Eastern Retired Educators  
 Association  
 Lorna Sullivan Souza  
 Mr. Stephen Spaulding  
 Ben Sprachman  
 Kathryn Springsteen  
 Jacqueline Spurr  
 Squam Brewing  
 Mr. and Mrs. Henry J. Sredl  
 Mr. and Mrs. Dick St. Onge  
 Mr. Dan T. Stack  
 Adam Stauts  
 Peter Steckler  
 Dr. and Mrs. Theodore I. Steinman  
 Mr. and Mrs. Ken Stern  
 Mr. and Mrs. Robert Sternin  
 Nancy and Bruce Stetson  
 Davin Stewart  
 Phyllis Stibler  
 Mr. and Mrs. Mike Stolpinski  
 Mr. Guy W. Stoye  
 Barbara Strohbehn  
 Richard and Ruth Stuart  
 Mr. and Mrs. Peter J. Sullivan  
 Ms. Marjorie Sullivan-Turley  
 Mr. and Mrs. Lawrence Sunderland  
 Priscilla Sutcliffe  
 Swains Lake Association  
 Mr. and Mrs. Murray Swindell  
 T F Ward Insurance Agency  
 Joy Tarbell



Robert Taylor  
 Barbara Thader  
 The Kalled Gallery  
 Mr. and Mrs. Carl W. Thieme  
 Mrs. Barbara M. Thomas  
 Mr. and Mrs. Charles E. Thorndike  
 William Thorpe  
 Margaret Thrasher  
 Three Ponds Protective Association  
 Joan M. Thuebel  
 Evan Tilley  
 Mr. and Mrs. Dennis Tompkins  
 Allen Torrey  
 Germaine Towle  
 Philip Trasatti  
 Dr. and Mrs. Robert C. Trautwein  
 Kathleen Trider  
 Mr. and Mrs. Will Twombly  
 Mr. and Mrs. Roger Uhler  
 Mr. and Mrs. Stephen K. Urner  
 Tiina Urv  
 Lori Van Dam  
 Wendy and Rick Van de Poll  
 Cornelius Van Diggelen  
 Reverend Jane W. Van Zandt  
 Mr. and Mrs. Gene Venable  
 Mr. and Ms. Dennis Vienneau  
 Village Kitchen  
 Ms. Patricia Vittum  
 Mr. and Mrs. Robert Volpe  
 Frances Von Mertens  
 Donna Wagner  
 Charles Walcott  
 John Waldhausen  
 Ann E. Walker  
 Mr. and Mrs. Tom Wallitsch  
 Mr. and Mrs. Kent F. Warner  
 Mr. and Mrs. Renny Warren  
 Page Wasson  
 Waukegan Golf Course  
 Mr. Michael F. Webster  
 Pat and Sophie Wechsler  
 Andrew Wells  
 Mr. and Mrs. Tim Wells  
 Richard Werkowski  
 Mr. and Mrs. David White  
 Ms. Wendy E. White  
 White Oak Pond Watershed Assoc.  
 Mr. and Mrs. John S. Whiting  
 Mr. and Mrs. Douglas C. Whitley  
 Mr. Craig H. Wiggin  
 Beverly K. Wilson  
 Bonnie Wilson  
 Don Wilson  
 Mr. and Mrs. Kenneth D. Wilson  
 Diane Winn  
 Ms. Debora R. Wirth  
 Nancy C. Wolf  
 Sarah Wolf  
 Mr. and Mrs. Curtis Wood III  
 Mr. Charles C. Woodard  
 Mr. and Mrs. Mark A. Woodin  
 Woodlands Shores Assn., Inc  
 Mr. and Mrs. Bill Wright  
 YMCA Camp Belknap  
 Dr. Carey York-Best  
 Mrs. Roland Young  
 Stephen Young  
 Mr. and Mrs. Richard Zeloski  
 Mr. and Mrs. John Zenker  
 Mrs. Sinclair Ziesing

## The Rawson L. Wood Society

*Have you considered becoming a member of our Planned Giving Society? Your legacy gift is a way of helping us continue our mission to restore and maintain a healthy population of loons throughout New Hampshire.*

*Contact Harry Vogel, Senior Biologist/Exec. Director, at 603-476-5666 for more information.*

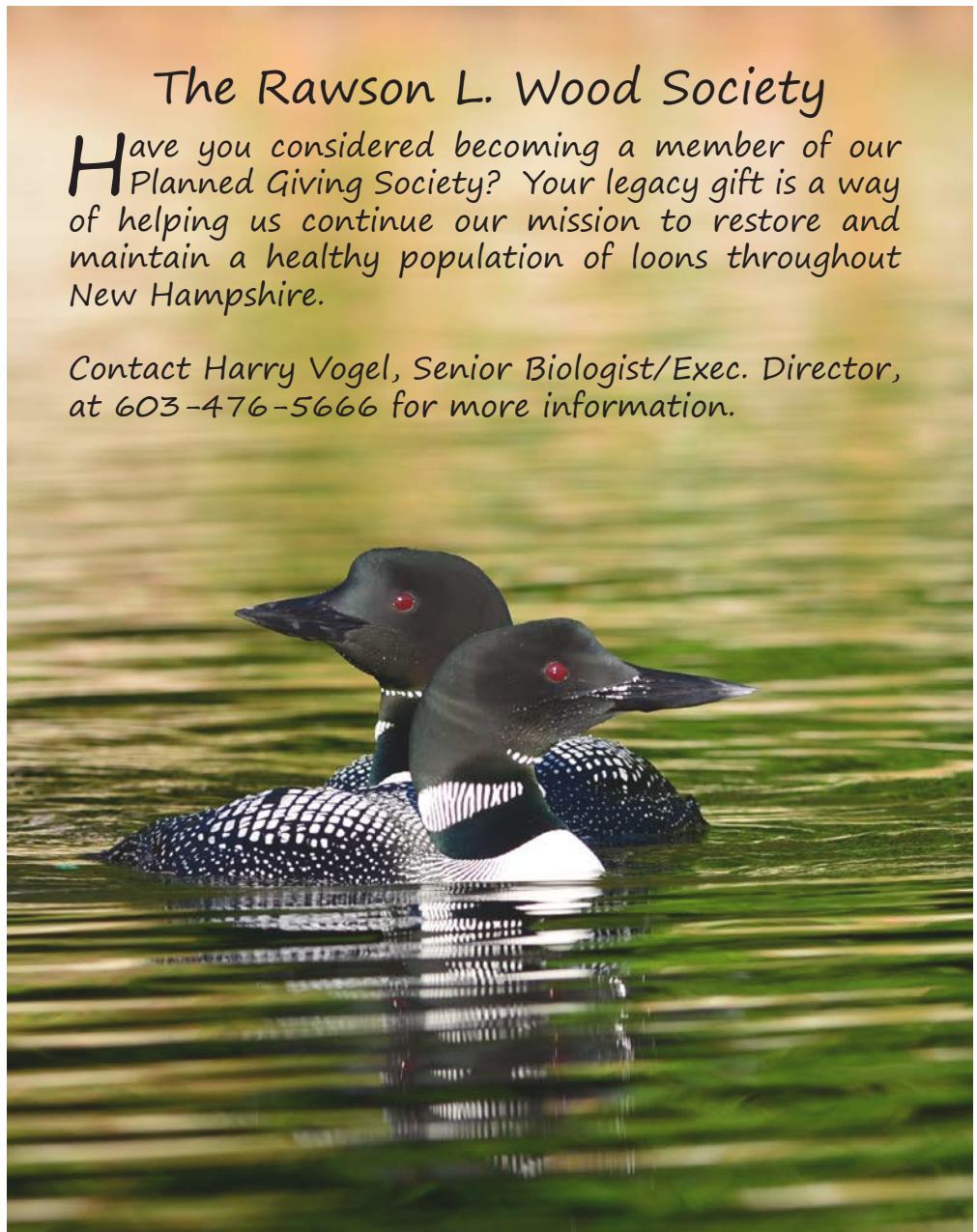


Photo Courtesy of Kittie Wilson



## LPC Annual Meeting August 23, 2018

### The Loon Center

5:30 pm	Potluck Dinner
6:45 pm	Annual Meeting
7:00 pm	Loon Presentation & State of The Loon Report

## Expanding the Circle of Concern for Squam

Ever since LPC discovered elevated levels of chemical contaminants in unhatched loon eggs from Squam Lake over 10 years ago, we have been working to recruit partners to help in our efforts to track down the sources of these contaminants, from state and federal agencies to organizations around Squam Lake. These efforts met with mixed success because of limitations of funding and staff time of these agencies and organizations, so LPC took the initiative to sample crayfish and sediments throughout the Squam watershed with help and advice from researchers at New Hampshire Department of Environmental Services (DES), Plymouth State University (PSU), US Environmental Protection Agency, and US Fish and Wildlife Service to identify potential sources of contaminants.

These efforts culminated in spring 2017 with the submission of a report to DES reporting the results of LPC's sediment sampling and our discovery of three locations of contaminated sediments around Squam (one site for PCB's [industrial insulating agents] and dioxins/furans [by-products of manufacturing processes] and two sites for DDT [an insecticide]). At all three of these locations, the contaminant levels exceeded sediment quality guidelines indicating possible or probable harm to aquatic life.

Since the submission of this report to DES, staff from LPC, the Squam Lakes Association (SLA), and PSU have met on several occasions to review LPC's findings and plan our next steps to address this issue. This has been an education for LPC in the limits of what falls under the purview of DES: contamination in a lake

ecosystem manifesting itself in a top-level predator but which is not clearly from a factory pipe or other point source falls through the established programs of DES. Consequently, there is no state funding to address the issue.

---

*As indicators of the health of the aquatic environment, Squam's loons originally alerted us to the problem of contamination on Squam Lake, and they will continue to serve as sensitive barometers of contamination in the watershed.*

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Within these limitations, DES is working with LPC to assist as they can to organize tasks among collaborators and move the project forward. Last fall, staff from New Hampshire Geological Survey completed an assessment of the culverts near the sites of contaminated sediments identified by LPC. Plans are underway

for late summer fish sampling on Squam to assess contaminants in the food web and potential human health effects from these contaminants. DES is in the process of securing funds from US Environmental Protection Agency for contaminant testing in these fish samples. PCB's come in many forms; and the SLA is, at present, planning to test sediment samples this summer for a limited set of PCB's and DDT. Researchers at PSU are planning a study of contaminant pathways at the sites identified as elevated for DDT by LPC. SLA is also planning on collecting local history information from Squam residents to learn about potential historic sources of contamination in the watershed. This past spring, LPC sent its collaborators detailed recommendations for future sediment sampling. It is hoped that these efforts will continue to help us track sources and extent of contamination in the watershed, with a goal of understanding what



Photo Courtesy of Kittie Wilson

steps may be taken towards remediation of contaminated sites.

Based on LPC's testing of unhatched Squam Lake loon eggs, Squam's loons are carrying a contaminant body burden that includes not just DDT and PCB's but dioxins, furans, flame retardants (PBDE's), stain repellants (PFC's), and chlordane (another insecticide). LPC remains concerned about the overall contaminant body burden of Squam's loons. LPC's sediment testing identified potential sources for DDT, PCB's, and dioxins/furans; but, to date, we have not identified sources for these other contaminants. Full testing of these contaminants in sediments is needed to identify, if possible, sources of other contaminants. LPC continues to advocate for testing that covers the full scope of contaminants of concern revealed by our efforts and will work to retain portions of samples for future testing.

The loons ultimately will tell us about the success of any work or remediation done on Squam. As indicators of the health of the aquatic environment, Squam's loons originally alerted us to the problem of contamination on Squam Lake, and they will continue to serve as sensitive barometers of contamination in the watershed. LPC has committed to continuing to test unhatched loon eggs from Squam for these contaminants, and we will continue to take a leadership role in contaminants work on Squam. This is an issue we are strongly invested in, and we are determined to see that the work continues to be done in a way that is best for the loons, for the health of the Squam ecosystem, and the wildlife and people that call Squam home.

~Tiffany Grade

## *LPC's "Loon Cam" Continues to Enthrall Viewers Worldwide*

In 2017, for the fifth year, the Loon Preservation Committee streamed live footage of a pair of nesting loons on a lake in the Lakes Region of New Hampshire. The camera started streaming on May 3 but the loons did not start nesting until May 25. Up until that time viewers watched different species of turtles basking in the sun on the 2017 nest site and also had a chance to watch some pre-nesting loon behavior including copulation and nest building. The high definition video captured the first egg on May 25, and two eggs were seen on May 28.

Both of these adults are banded so we were able to confirm that the same pair of loons was back at the nest this year. The peak of nest initiation usually occurs the first week of June, and this loon pair was among the first loons in the state to initiate a nest. The female of this pair has been on the lake since she was first banded as an adult with chicks in 1998. Since the average age of first breeding in New Hampshire is 6 years old, she is probably 26 years old or older. This makes her the second oldest female still breeding in New Hampshire, that we know of, and she is even older than most of our field biologists! In 2017, this pair hatched one chick – probably the most famous loon chick in the world – that successfully fledged from the lake last fall!

We installed a new microphone this year that has volume control so we can hear all of the sounds close to the nest, while at the same time, muffling background sounds which helps protect the privacy of the homeowners on the lake. Each year we

learn from our previous experience which allows us to make adjustments and improvements to the camera set-up. We are so fortunate to have the technical expertise of LPC volunteer Bill Gassman, who has been instrumental once again with the set-up and daily operation of our live "loon cam" this year. From dry-runs with the new equipment over the winter to meeting the cable technician on-site to answering technical questions and participating in the chat forum on YouTube to catching highlights and creating video clips, Bill has contributed countless hours and has been there every step of the way with great enthusiasm. Thank you, Bill!

We look forward to giving our members a more in-depth summary of the "loon cam" in LPC's Fall Newsletter. We are hopeful it will be ranked in the top 5 again in the live animal and pet category on YouTube! After all, a local New Hampshire morning radio personality said "Move over April the Giraffe" in a recent article about LPC's webcam!

~Susie Burbidge

## **NEWS FLASH!**

At press time, the "loon cam" pair had successfully hatched two chicks! A second "loom cam" is already underway on LPC's YouTube channel, website, and as a livestream at The Loon Center. [See page 18](#) for more details!



## LOON PRESERVATION COMMITTEE ACTIVITIES

*"Each new year is a surprise to us.  
We find that we had virtually forgotten the note of each bird,  
and when you hear it again, it is remembered like a dream,  
reminding us of a previous state of existence . . .  
The voice of nature is always encouraging."*

*~Henry David Thoreau*



For the fifth year, the Loon Preservation Committee streamed live footage of nesting loons on lakes in the Lakes Region of New Hampshire. This loon pair started nesting on May 25.

At press time this pair had successfully hatched two chicks on June 21 and 22! A second "loon cam" is already underway and can be viewed on the Loon Preservation Committee's YouTube channel, on our website, as well as at The Loon Center. If all goes well, the anticipated hatch date is between July 20 and July 22.



*"It takes a lake to raise loon chicks!" ~Kittie Wilson*

- Loons do not stay on the nest with their chicks. They are true water birds and will always be out on the water.
- Loon chicks are very small. They can only make short, shallow dives. They do not swim fast, and they cannot fly. They spend time tucked on their parent's back as well as bobbing by their parent's side.
- Loon families usually have a designated nursery area. Their range increases as the chicks grow stronger.
- Boaters beware! Slow down if you see a loon. You could run over a chick without ever seeing it. Keep a sharp eye ahead as you boat.
- Paddlers (kayaks, canoes, paddleboards, etc.): Keep at least 150 feet distance from the loons and never surround them. Stay only a short time to observe.
- Call LPC at 603-476-5666 to report a problem or an observation.

## Lakes Region Audubon Chapter Birdathon/Bloomathon Report

The Birdathon/Bloomathon (B/B) is a volunteer fund-raising event hosted by the Lakes Region Chapter of New Hampshire Audubon. The objective is to count as many birds and blooms as possible in a 24-hour period during the peak of songbird migration and spring blooms. Bird and bloom teams solicit per species sponsors and outright donations to help raise money for the Chapter and for the Loon Preservation Committee. The Chapter has held their meetings at The Loon Center since its dedication in 1994, and members of LPC are also active Lakes Region Chapter members.

One hundred twelve species of birds and 84 species of flowering plants were the totals for this year's Birdathon/Bloomathon held on May 22nd—196 total species in Tamworth and contiguous towns. The day dawned clear, but clouds moved in and thickened during the morning, with showers and rain after 2 pm.

A Northern Parula, Cape May, Wilson's and Tennessee warbler boosted the warbler count to 22. An Olive-sided Flycatcher and Indigo Bunting were also among notable birds. Buckbean--a shallow water plant with hairy white or pinkish flowers--was an exciting new find this year, and Marsh Marigold and Fringed Polygala were back on the list.

This year's intrepid B/B Team included: Ingrid Albee, Ned Beecher, Tim Brown, Chris Clyne, Lynne Flaccus, Lucy Gatchell, Tiffany Grade, Michelle Langer, Randy Langer, Susan Lee, Jane Rice, Bob Ridgely, and Peg Ridgely.



*"Tomorrow is a mystery. Today is a gift.  
That is why it is called the present."*

*~Eleanor Roosevelt*

### WHAT AM I?

Written by Charlie Winship, Age 8  
Second Grade, Larkspur, CA  
Summers on Pleasant Lake, New London, NH

I am bold and black with shiny feathers.

I am speckled white with dark red eyes.

I have wings and live on lakes.

I am a mother that cares for her young.

I am a teacher who teaches her babies to dive.

I call to my young and it echoes for all to hear.

What am I?

(I am a Loon!)



Photo Courtesy of Kritte Wilson

# SUMMER BULLETIN BOARD

**Summer Nature Talks:** Thursday Evenings at 7:00pm, July 5 - August 23; FREE

**Loon Festival:** Saturday, July 21; 10am - 2pm; FREE

Come by The Loon Center for loon-themed arts & crafts, face painting, balloon sculptures by Mo, educational loon slide shows, live animals and exhibits, music, refreshments & more!

**The Winni Swim—Making a Splash for Loons!:** Wednesday, July 18 (Rain date July 19)

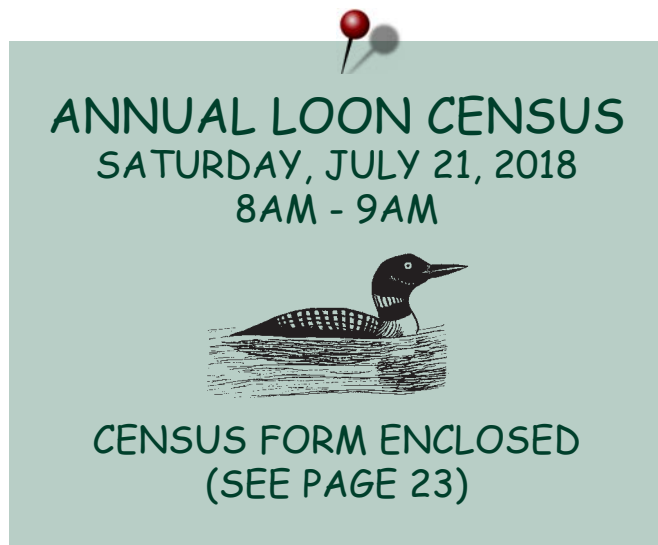
Join Pam Halsey and Brenda Gallagher for a swim or paddle around Ragged Island to call awareness to the plight of our loons. Registration is required and limited so sign up soon! Email: [info@loon.org](mailto:info@loon.org) or call 603-476-5666 for more details.

**Carl Johnson Memorial Golf Tournament:** Monday, August 20; 7am-2pm; \$100 per golfer

A fun morning of golf at Ridgewood Country Club. \$10,000 hole-in-one grand prize along with raffle and other prizes! Breakfast and lunch included. Pre-register by August 13.

**LPC Annual Meeting:** Thursday, August 23; 6:45pm

You are also welcome to attend the volunteer potluck dinner at 5:30pm and/or the end-of-season loon report immediately following the Annual Meeting (see page 15). Contact [volunteers@loon.org](mailto:volunteers@loon.org).



Pick the Loon Preservation Committee from Amazon's list of participating charities and they will donate a portion of the purchase price to LPC!

*"Ah, summer, what power you have to make us suffer and like it."*

*~Russell Baker*



# LOOKING AT LOONS

*A Telephoto Look at the Natural History of New Hampshire's Loons*  
by Kittie Wilson

Newly hatched loon chicks are adorable balls of fluffy down. They can swim, do shallow dives, and rise up and shake their tiny wings, but they are helpless to defend or feed themselves. The loon parents act as a floating nest for the newly hatched chicks and work hard to keep the chicks well fed.

Loon chicks are fed mostly aquatic insects, small fish and tiny crayfish. During the first weeks of a chick's life, one parent stays with the chicks on the surface of the water while the other parent hunts underwater for suitable food.

Loon parents present the food down at the level of the chick, who might be nestled on the other parent's back, or bobbing in the water. Presentation is accompanied by soft hoots of encouragement. Fish are held crosswise in the bill. The chick must learn how to take the fish, then shift it 90 degrees so that the fish will be swallowed head first, which is typically the manner in which loons swallow fish. This shifting takes practice, and in the first weeks of life the chicks frequently drop the fish, at which time the parent must retrieve the fish and offer it again...and often again, and again, and again! The loons show infinite patience as their little chicks work to master the challenges of grasping and swallowing techniques.

References: [The Common Loon, Spirit of Northern Lakes](#) by Judith W. McIntyre



Presenting a fish to the newly hatched chick.



The exchange of the fish from parent to chick.



The chick turns the fish and swallows it head first.

*In loving memory of Kittie Wilson,  
whose love for loons and generosity of spirit  
will forever be woven into the fabric  
of the Loon Preservation Committee  
and its mission.*

# Summer 2018 Nature Talk Series

at The Loon Center  
183 Lee's Mill Road, Moultonborough, NH

Thursdays, 7:00pm ♦ Admission Free ♦ Donations Appreciated

## **July 5      A Wildlife Photographic Odyssey – Rick “MooseMan” Libby**

Join nature photographer Rick “The Mooseman” Libby for a photographic tour of New Hampshire’s wildlife. Enjoy his beautiful photos of the wildlife of the Lakes Region and beyond. You may even see a loon!

## **July 12      New Hampshire Wildlife – Squam Lake Natural Science Center**

Are you curious about the critters that inhabit the Granite State? Meet three wild animals that you could encounter in our forests, fields, or wetlands and discover what makes them well suited for life in New Hampshire.

## **July 19      Learning from Loons – Mark Pokras, DVM, Tufts Veterinary School**

The links between animal health, human health and the environment are undeniable. This talk will focus on how a long-term study of the common loon (*Gavia immer*) is contributing to our knowledge of these links.

## **July 26      A Century of Forest Conservation – Dave Anderson, Co-host of “Something Wild”**

At 84% forested, NH is the second-most forested state in the nation by total land area. Learn about NH’s forest history, succession, and wildlife habitats, including historical photos of early White Mountain logging operations.

## **August 2      Eyes of the Wild: Hawks and Owls – Squam Lake Natural Science Center**

Peer into the raptor world through an up-close experience with live hawks and owls that call NH home. Compare fascinating similarities and differences between hawks and owls and how they are perfectly suited for their habitats.

## **August 9      New Hampshire’s Moose – Kristine Rines, New Hampshire Fish and Game**

This program covers the history and life history of NH’s moose. A review of current management practices and research, as well as a discussion of what the future holds for this icon of the northwoods, will be discussed.

## **August 16      Dragons and Damsels of New Hampshire – Pam Hunt, New Hampshire Audubon**

This program provides an overview of the biology and ecology of dragonflies and damselflies, from their amazing life cycle to their incredible diversity. It also highlights a few of NH's notable species and their stories.

## **August 23      State of The Loon Report – LPC Senior Biologist/Executive Director, Harry Vogel and Wildlife Photographer, John Rockwood**

Trends in New Hampshire’s loon population and preliminary statistics on how loons fared in NH this year will be complemented by photographs and video of a local loon family from two southern NH lakes.





**New Hampshire Loon Census**  
**Saturday, 21 July 2018**  
**8:00 AM - 9:00 AM**

Lake: \_\_\_\_\_ Town: \_\_\_\_\_

Observer(s): \_\_\_\_\_

Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

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

Total number of people in party: \_\_\_\_\_

**Observations:**

	Time	# Adults	# Chicks	# Immatures	*Location/Direction
Example	8:17	1 AD			Flew in from east
1.					
2.					
3.					
4.					
TOTALS					

Please note any bald eagle sightings during this hour & the loons' response (i.e. vocalizations):

(1) Record only the FIRST sighting of each loon or group, then be sure to total the number of loons observed on the appropriate line. Note the direction in which the loons move or fly.

(2) If possible, please attach a sketch/map of census area and the location of any loons you observe.

(3) It is CRITICAL that observations continue for the ENTIRE HOUR.

(4) Remember, a report of zero is just as biologically important as a report of 10 loons.

(3) Your sightings from throughout the summer are also valuable. Please comment on loon activity observed at other times on the reverse of this page.

**CENSUS FORMS MUST BE RECEIVED BY JULY 31 TO BE INCLUDED IN THE FINAL TALLY.**

Please return this form to the LPC: PO Box 604, Moultonborough, NH 03254,  
or you can fax it 603-476-5497 or email it to [volunteers@loon.org](mailto:volunteers@loon.org).

If you were part of a coordinated census effort on a larger lake, please send this form to  
your coordinator so they can send the forms in all together.



Loon Preservation Committee  
PO Box 604  
Moultonborough, NH 03254

The Loon Preservation Committee  
gratefully acknowledges  
**Squam Boat Livery**  
for underwriting this publication.



Photo Courtesy of Kittie Wilson