

AN INVESTMENT FOR FUTURE GENERATIONS

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**Vol. 136, April 2024** 



Serving Orono and surrounding communities www.oronolandtrust.org

## **OLT Annual Meeting presentation: "Our Maine"**

Once again, we will gather on May 10 to meet new and current members, hear updates about our busy land trust activities, and get news from the OLT Board. The meeting will be held at the Keith Anderson Community House, 19 Bennoch Road, Orono. All are welcome.

A potluck meal will be shared, and then we will enjoy a keynote presentation from the authors of "Our Maine-Exploring its rich natural

heritage." Announcements, Board changes will be featured as we thank retiring officers and greet new folks joining our busy organization. The Annual Meeting is a good time to catch up on projects in our area, and ask questions about OLT's environmental work. Maybe a project will spark your interest to become a volunteer – all skill sets are invited and always welcome. Come out for this year's meeting, all are welcome!

See page 3 for more details.

### Who fools who?

his adorable beaver with exceptional engineering skills is so fun to see. They are prolific on the Caribou Bog Conservation Area (CBCA) waterways. Unfortunately, there exists an ongoing battle between the OLT volunteers and the beavers. Beavers flood the trails and volunteers put in "beaver deceivers," which are the wire devices seen along the culverts on the Veazie Railroad Trail, Which party is being deceived?



Text and photo by Gail White



This issue's **Nature Clip**highlights the showy Lady's
Slipper and the underground
network of Mycorrhizal Fungi.
Photos and text by OLT Board
member J. R. Longcore. **See page 8.** 

## Nesting Season: Trail Closure Notice for Newman Hill Reserve

Most Newman Hill Reserve trails will be closed from April 1st through August 31st, except for a single-track trail that will remain open for access to the top of Newman Hill and beyond. Dogs must be on a leash when using this trail. Other CBCA trails remain open for use.

The Newman Hill Reserve provides protection for birds nesting on or near the forest floor. Ground nesters include Ruffed Grouse, American Woodcock, Common Nighthawk, Winter Wren, Veery, Canada Warbler,



Photo by Charlie Todd

Most ground nests are not as conspicuous as this Hermit Thrush nest in the trail.

Northern Waterthrush, Common Nighthawk, and Hermit Thrush. The Black-Throated Blue Warbler, Yellow Warbler, Chestnut-sided Warbler, Brown Thrasher are examples of those that prefer to next in shrubs or low branches of trees. Orono Land Trust wants to give these birds every chance to be successful. Orono Land Trust appreciates your cooperation. See oronolandtrust.org for more information. See also page 9!





Photos by Sharon Fitzgerald

## **Hoods Up for the Ladies**

OLT Board member Sharon Fitzgerald writes: "Yesterday morning (March 13) at Caribou Bog Conservation Area (CBCA) I recorded 27 species of birds for ebird.org.

The first Hooded Merganser photo (above left) was near the flowage on the back side of Boulder Pond taken from a distance. Four males were putting on quite a courtship display with their extended "hoods" for the two females on hand.

The second picture (above right) of two males was taken at the small pond (Taylor) close to the Caribou Bog Outdoor Center. No ladies around so hoods are slicked back."

CBCA is a rich area for birding and other wildlife observations. Access is from Forest Avenue at Taylor Road in Orono.

# OLT members install nesting boxes at CBCA

In February, OLT Board members Bucky
Owen, Charlie Todd, and volunteer Ron Logan installed bird houses at icy CBCA wetland sites.
"We had to make eight holes to get two that worked. Note the box (photo left) just above the ice. It is on a 10' pole in 5-6 feet of muck!" said Bucky Owen.



Photo by Charlie Todd

The final tally for Ron Logan (above left) and Bucky Owen on the ice recently at CBCA. this winter project:

Heron Pond: 2 duck and 2 swallow boxes Beaver Pond: 2 duck and 2 swallow boxes Big Pine: 1 duck and 2 swallow boxes

Intervale (Between Little Pine and Beaver Ponds): 1 duck and 1 swallow box

Black Pond: 2 swallow boxes

Boulder Pond: 1 duck and 2 swallow boxes

Meadow Lands (above Boulder): 1 duck and 1 swallow box



## What a view, Dave! (and nice hat!)

Here's OLT Board member Dave Erker rockin' the OLT swag at 5249' above sea level on Mt.
Lafayette in the Franconia Range of New Hampshire's White Mountains on Wednesday, March 13. OLT hats will be available at the Annual meeting on May 10, see page 3. Photo contributed by Dave Erker.

## **Orono Land Trust 37th Annual Meeting**

Keith Anderson Community House, 19 Bennoch Rd., Orono 04473.

All are welcome!

## Friday, May 10, 2024

6 p.m. - Potluck social, refreshments



**6:30 p.m.** – Program: "Our Maine" with guest speakers Aram Calhoun and Malcolm Hunter.

7:30 p.m. - Annual Corporate Membership Meeting

Officers Annual Reports

New business

**Election of new Board Members** 

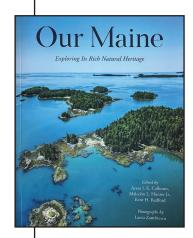
Board Recognitions, retirements, announcements

Adjourn

Immediately after: Short OLT Board meeting

### **2024 Program Keynote Program:**

Aram Calhoun & Malcolm Hunter
"Our Maine: Exploring Its Rich
Natural Heritage"



s part of OLT's Aannual meeting, come and enjoy an evening with co-editors Aram Calhoun and Mac Hunter as they discuss their new book, "Our Maine-Exploring its rich natural heritage." Learn why it should be in everyone's library. Already in its second printing after only a few months, it is truly a masterpiece. There will be time for book signing after the meeting.





OLT President Adam Toothaker shot these photos of a Peregrine Falcon. He and Board member Chris Reidy saw the raptor at University of Maine's Orono gym parking lot in March. And, for those who are Audubon members, a recent Maine Audubon Habitat magazine has an article on Peregrine Falcons featuring OLT Board member Charlie Todd!

## **Orono Land Trust Membership List as March 1, 2024**

#### **Annual Members** (\*Indicates Legacy Member)

Joe and Joanne Alex Grace Bartlett

Linda Basilicato and Clayton Cole

\*Robert Bass Jr. Beth Beaulieu Scott Belanger Liam Berigan

Warren and Jessica Black

Erik Blomberg Stanley Borodko Guillaume Bourdin Conor Broughan Eric Brown John Burch Pat Burnes

Marci Buschner and Leila Doerfler

Sandra Butler

Adrienne and David Carmack

\*Lynn Caron Raymond Caron

Laurie Carpenter and Doug Johnson Cami Carter and Jon Hawley \*Connie Carter and Ed Brazee Gail and Devon Carter Polly and Bill Ceckler Chandler and Jim Clarke

Jason Clarke

Jesica Cleary-Reuning Sarah Clements Mark Cogen Ben Collette Zoe Colwell Kati Corlew

Josh Cottrell Wade Cressey

Henry Cunningham and Beth Cuddy

Robert Cunningham William Cunningham Rose Marie Curtis

Erik DaSilva and Laura Leighton Farahad Dastoor and Jean MacRae

Leanne Davis Ruth Dennis Kristie Deschesne Anthony Diba Alan Dickey Christina Diebold Jessica Doherty

Paul Doucette and Sandra McQuilkin

Downeast Outing Club Beth and Tom Drummond Gerald and Donna Dwyer Matthew Dymowski Mary Ann and Rick Eason Gregory Edwards

Ramona and Kelly Edwards Max and Stefanie Egenhofer

Patricia Eldershaw Susan Elias Shirley Ellis

Jessica & the LaBree Family

Matt Farragher Cecile Ferguson Emily Filiberti

Sharon and John Fitzgerald
David Flewelling and Gail Tunstead

Isaac Forbes
Irja and Stella Frank
Brian Frederick
Brian Galipeau
Sadvi Ganesh
Christopher Gerbi
Melissa and James Gerety

Alan Gray

Marion and Mac Gray John and Carol Gregory

David Griffin Nils Haentjens

Frances and Terry Haines

Nancy Hall Fiona Hamilton

Kenneth and Cathy Hanscom

Greg Harkay Karen Hartman Lynn Hempen Caleb Heuss

Laurie Hicks and Roger King

Barbara Hildreth Mary Rose Holland Janet Horsager Mary Hough and Paul Schroeder

Patty Huntley Christopher Hutchens James Jackson Sanborn

Nancy Jacobson and Jeffrey Jones

Jeffrey Jeter Sandra Johnson Elliot Johnston

\*Leslie Hudson

Jeffrey Jones and Nancy Jacobson

Patricia and Harvey Kail Fran Kelly and Robert J. Kelly

John Kelly

\*David and Mary Kenney Linda Koehler and Rissa Moore Margo Koning-Wells and Mark Wells

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Steve and Mary Lammert

Kristin Langellier and Eric Peterson

Karen Littlefield

Nicole and Dan Loranger

Nick Ludwig Margaret Lukens Stephanie and Greg Lull Elizabeth Lyman

Kathy Lyons and David Frankel Molly MacLean and Eisso Atzema

Andrew Madsen
Jonathan Malacarne
Bruce and Terry Malmer
Richard and Laura May
Ben McAlexander
Jessica McCutcheon

Steve McKay and Cathy Anderson

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Merrill Milham and Ann Davidoff

Erin and Shane Miller Shawn Miller Laura Mitchell

Mr. and Mrs. Donald Mitchell Donald and Paula Moore

(Continued on page 5)

Jack and Sylvia Moose

Cathy Nadeau Noah Nesin P. Scott Nichols Jeffrey Nickels Victoria Niedzinski Nancy Noack

Don and Megan Olson Shawn Owens Christine Payne

Elizabeth Payne and Richard Brucher

Tim Pearson Jennifer Perry

Gwethalyn and Bill Phillips Marisue and John Pickering Paula Pietrowski and Kim Miller

Susan Pinette Linda E. Pletka

Glen Porter and Jean Deighan Annie and Matt Powers

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\*Katie Quirk and Tim Waring

Christopher Reidy David Renedo Hetty Richardson

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Amber Roth and Dan Haskell Karen and Roderick Rublee Phil Ruck and Deanna Prince

Belle Ryder Stuart Salom

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Silva Ratio Consulting Pam Simon and Harlan Onsrud

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Don and Nancy Smith Shawn Snyder

Adele and Ronald St. Pierre

Milton Stein Christine Stevens

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\*Linda Swackhamer and Ken Croatman

G. Kent Tableman Amy DiFrancesco Charles Thompson

Jon Thompson

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Lenore Tipping and Thomas Spitz

Mike Tipping Charles Todd Matthew Tomasko

\*Adam and Joanna Toothaker

Olcott Toothaker Claudia Torres Deborah Twombly Emmy van den Ban Gabrielle Venne

Irene von Hoffmann and John McCormack

Judy and Bill Walker

\*Jake Ward

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Beth White and Margaret Clancy

Holly White

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Barbara Wicks

Julian Wiggins and Kate Locke

Scott Wilkerson Dominic Winski Eve Wolinsky

Clair and Marian Wood

David Wood and Sharon Campbell

Katrina Wynn

David Yarborough and Nancy Leavitt

Peter Yezukevich

### **Life Members** (\*Indicates Legacy Member)

Janet and John Alexander Travis Baker and Holly Twining Catherine and Dave Baxter

**Emmanuel Boss** 

\*Karen Boucias and George Jacobson

\*Melissa Burch and Jim Bulteel Woody Carville Dan and Dina Cassidy

\*Tom and Lea Cassidy

Mary Cathcart and Jim Dearman Becky and David Chase

Sarah and William Clark
David Clement and Betsy Weiss

\*Jennifer Dann and Chris Apblett

\*Ron and Lee Davis Mary Louis Davitt Chris Dorion

Sue Erich and Stom Ohno
David and Victoria Erker
Janice and Jeff Graham
Susan and Michael Greenwood
Conrad and Fran Griffin
Michael and Valerie Griffin

\*Ben Hale Brent Halsey

Justin R. Harlan and Sarah M. Haughey

Nancy and Tom Harrigan \*James and Patricia Hinds

Ray Hintz Steve Keleti

Gudrun Keszocze and Glen Koehler David Koffman and Michelle Toder

George Kurr

Thela and Roger Leach

\*Jessica Leahy and Bob Seymour

David and Valerie Levy
\*Meg and Ron Logan
\*Jerry and Joyce Longcore

Nancy MacKnight

(Continued on page 6)

#### Life Members (\*Indicates Legacy Member)

(Continued from page 5)

John Manter Shane Martin

John and Leigh McCarthy Mary and Hank Metcalf Robert and Jane Miller

**Caroline Morris** 

Paul and Janet Murphy Desiree and Edwin Nagy

\*Stephen and Natalie Norton \*Susan and Paul O'Brien Oldenburg Family

\*Kathryn Olmstead

Michael Opitz

\*Sue and Bucky Owen Susannah and Jeff Owen

Deta and Bryan Pearce Tom and Connie Perry

\*Nancy and George Putman

Olivier Putzeys and Pauline Kamath

Glenn Rampe

David and Pernille Renado

\*Judith Rhymer Kris and Steven Sader Kathy and Gary Schilmoeller

\*David Sewall

Leigh A. Smith and Gretchen Luxenberg

\*Dick and Kay Storch

\*Pat and Dave Thompson

\*Sharon and Paul Tisher

John Tjepkema and Christa Schwintzer

\*Trudy Tremblay

\*Patricia Vadas

Donna and Leith Wadleigh
\*Emily Wesson and Peter Millard

\*Gail and Jim White Tim and Debbie White \*Jean Woodard Jane and Joe Zenk

#### Complimentary Members (\*Indicates Legacy Member)

\*Dan Baumert

Todd and Denise Burpee

\*Walter and Elaine Carpenter

Bruce Lackie and Jennie Goldenberg

\*Geoff and Suzanne Gordon

\*Nancy and Al Larson

\*Anne Lichtenwalner

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\*Cynthia and Eric Mehnert
\*Dawn Pelletier and Lee Martin

Aislinn Sarnacki

Town of Orono Dr. John Tozer Peter Triandafillou

Lin White

#### **Business Members**

Bangor Savings Bank Black Bear Brewery

Castine Kayak Adventures

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Joseph Reinzo Excavating and Recycling

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## Thank you for your support!

Membership levels are posted on the back cover of this newsletter. Life Members have contributed \$1,000 or more to OLT. Legacy Members have agreed to bequeath contributions in their will or estate. For membership information or to contribute to OLT's all-volunteer organization, see the OLT website https://oronolandtrust.org/get-involved/become-member/.



Text and photo by Gail White

A ta December 14 OLT Board meeting, Dave Thompson (above left) handed Bucky Owen (above right) a stuffed Beaver. This represented the Board's appreciation for all the beaver deceiver work Bucky has done on the Veazie Railroad Trail and The Hyland Tract Trail. Unfortunately, however hard Bucky works, the beavers are a tree branch ahead!

Donating your old car can benefit OLT. This website provides more information.
Charitable Adult Rides and Services
If you know someone who wants to donate, let them know!

https://careasy.org/nonprofit/orono-land-trust

Do you enjoy volunteer work that doesn't involve bugs, heat, cold, wind, rain, or rough terrain? If so, reach out to membership @ oronolandtrust.org to find out about indoor volunteer opportunities that don't include the word sunscreen.

## OLT Board Member Bucky Owen '59 to Receive 2024 Common Good Award

As reported by Bowdoin News

Alifelong advocate and champion of conservation, Ray "Bucky" Owen, a member of the Class of 1959, has worked to ensure productive management of Maine's inland fisheries and the preservation of the state's natural resources. For his efforts to support ecological preservation across the state, Owen has been selected by the Bowdoin College Board of Trustees to receive the 2024 Common Good Award.

After majoring in biology at Bowdoin, Owen earned a PhD in ecology at the University of Illinois and spent more than thirty years as a professor at the University of Maine's flagship campus in Orono, during which he was chair of the wildlife department for a decade.

Owen served as commissioner of the Maine Department of Inland Fisheries and Wildlife, where he initiated and oversaw the Quality Fishing Initiative, a program that made sweeping changes to how Maine's wild native brook trout were managed. He was chairman of the Maine Atlantic Salmon Commission, a delegate to the North Atlantic Salmon Conservation Organization, and a key player (and philanthropist, along with his wife, Sue) in the Penobscot River Restoration Project to remove dams and restore eleven species of migratory fish to the waters of the Penobscot. Owen worked closely with the Penobscot Nation on this project.

He was awarded the prestigious Lee Wulff Award from the Atlantic Salmon Federation in 2009. Owen also has served as chair of the Maine Chapter of The Nature Conservancy and President of the Orono Land Trust, as well as a volunteer for several other conservation-oriented organizations. (Fun fact: Bucky and Sue are partly responsible for the sign at the summit of Katahdin—helping to carry it up the mountain in the 1970s.)

The Common Good Award and Alumni Council awards will be presented Saturday, June 1, 2024, during Reunion Convocation.

### **Orono Bog Boardwalk**

It's looking good for a May 1 opening of the Boardwalk! Check online at https://umaine.edu/oronobogwalk or https://www.facebook.com/OronoBogBoardwalk/

## Nature Clip

by J.R. Longcore

## Beauty of a Showy Lady's Slipper Obscures an Essential Underground Network of Mycorrhizal Fungi



Photo by J. R. Longcore

Fig. 1. Showy Lady's Slipper

No one can deny the beauty of Maine's largest lady's slipper, the Showy Lady's Slipper (*Cypripedium reginae*), which is a rare inhabitant (Fig. 1) of fens and *Thuja* swamps. In Michigan, years ago, I knew orchids of this genus as "moccasin flowers"—for the footwear they resembled. This clip was inspired by an article (John Mattor, 2019) that explained why thousands of Pink Lady's Slippers disappeared following the harvesting in 2004 of a white pine stand in Lang Twp. Just north of Rangeley, ME. The gist of the explanation was that the trees through photosynthesis produced almost all the nutrients and shared them with the varied array of fungi in the soil, which in turn supported the orchids. The Showy Lady's Slipper, like all orchids, requires orchid mycorrhizal fungi (OMFs) for germination, seedling nutrition (Shefferson et al., 2005) and other essential nutrients.

Next, I was curious about the size of an orchid seed, so I collected a mature capsule from a pink lady's slipper and put

the seeds, which were the size of dust (length  $= \sim 1/300$ th of an inch), in a vial (Fig. 2). Further research revealed that these tiny seeds lack an endosperm (Fig. 3) thus, are extremely light, are produced in the thousands to millions, and are mostly disseminated by wind (Arditti and Ghani, 2000). The bottom line is that if the tiny seeds that can float for miles on air currents do not land on sites with an adequate network of OMPs they will



Photo by J. R. Longcore

Fig. 2. Pink Lady's Slipper seed pod, seeds



Photo by Joyce E. Longcore

Fig. 3. Pink Lady's Slipper seeds, magnified

not germinate. Similarly, removing the forest trees responsible for the fungal network cuts off the orchid food supply.

Most of the *Cypripedium* mycorrhizal fungi are in the Tulasnellaceae, a family of fungi in the Order Cantharellales

that is mainly patch-forming. Species are saprotrophs that decompose woody material and many are endomycorrhizal species associated with orchids and other species are thought to form ectomycorrhizal associations with trees and other plants. After researching this intriguing relationship between orchids and fungi my appreciation for them has increased substantially. I now view this Mountain Lady's Slipper (*Cypripedium montanum*) image (Fig. 4) that I obtained in Glacier Natural Park with more awe and respect.

J.R. Longcore

#### Cited References

Arditti, J. and A.K.A. Ghani. 2000. Tansley Review No, 10. Numerical and physical properties of orchid seeds and their biological implications. The New Phytologist, Vol. 145 (3): 367–421.

Mattor, J. 2019. A *Cypripedium acaule* (Lady-Slipper) Mystery—Resolved. Native Orchid Conference Journal, Vol. 16 (1): 18–23.

Shefferson, R.P., M. Weiss, T. Kull, and D.L. Taylor. 2005. High specificity generally characterizes mycorrhizal association in rare lady's slipper orchids, genus *Cypripedium*. Mol. Ecol., Vol. 14 (2): 613–628.



Photo by J. R. Longcore

Fig. 4. Mountain Lady's Slipper



Photo by Linda Swackhamer

#### **Correction: OLT at Banff Outdoor Film Festival**

I misidentified the OLT board member on duty at the Banff Film Festival: Sharon Fitzgerald spoke to interested patrons of this annual event at Husson College in Bangor on Feb. 7. (Sharing the table with Outreach committee members Sharon, Judy Walker, and Lynn Caron was awesome!) My apologies for this error- Linda Swackhamer, Newsletter editor.



Photo by Ben Hale

#### **Snowy visitor in Orono**

This woodcock was spotted on March 24 at Vice President Ben Hale's home in Orono. OLT Board member Charlie Todd saw the picture and commented, "It's birds like this one that will benefit from April 1 trail closures on Newman Hill. It will likely lay eggs by mid-April. American woodcock do start showing up in late-March. This one probably wishes that it came a few days later!"

#### **Board of Directors**

John Banks, Lands Dan Baumert Lynn Caron, Membership Tom Cassidy Jennifer Dann, Treasurer David Erker, Equipment Mgr. Sharon Fitzgerald, Membership Ben Hale, Vice President Karl Kreutz Kate Locke, Invasives Control Jerry Longcore, Bog Boardwalk Bucky Owen, Volunteers/Legacy **Chris Reidy** Linda Swackhamer, Newsletter David Thompson, Trails/Stewardship **Charlie Todd** Adam Toothaker, President Judy Walker, Outreach Gail White, Trails/Stewardship Tim White, Secretary/Tech



Orono Land Trust PO Box 4, Orono, Maine 04473

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#### Calendar

Next Board meeting: Wednesday, May 8, 6:30 pm and Annual meeting: Friday, May 10, both to be held at the Keith Anderson Community House, 19 Bennoch Rd., Orono

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## Please check for membership expiration date on your address label above. Orono Land Trust Membership Application / www.oronolandtrust.org

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Address:	Preferred phone:	
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\$1000 System Supporting Membership \$1000 Eagle Membership  L'd like to make an additional donation to help protect green space in Orono. \$  Please send my newsletter by: email only US Postal Mail		

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