

2nd Annual Frogs, Logs, & Bogs Road Ride is September 14, 2008

Get your bikes and helmets out and get ready to ride this year's Frogs, Logs, & Bogs Road Ride!

Last year was a great success with over 100 riders and dozens of volunteers participating despite the chilly October weather. We look forward to building on the successes and energy from last year, and have made a few changes in response to rider requests that

we hope will be welcome improvements this year.

You'll notice our new, earlier, date: **Sunday, September 14th**. We hope this will bring slightly warmer weather, but this also means you'll need to sign up earlier! *Don't delay—our pre-registration deadline is September 2nd and registration is limited to 200 riders.*



2007 Frogs, Logs, & Bogs Participants start their 20 mile ride at the Bangor Waterfront.



2007 Riders eagerly await the start of the ride

And most noticeably we've changed the route to a very scenic and safe **28 mile loop** along the Penobscot River. For those of you that still prefer a shorter route, we're offering a **14 mile option** where pre-registered riders can be shuttled back to the waterfront from the half-way rest stop.

Our route celebrates BLT's work with the Trust for Public Land and Penobscot Valley Community Greenprint by passing through eight of the twelve Greenprint communities: Bangor,

Veazie, Orono, Old Town, Milford, Bradley, Eddington, and Brewer. Members of all of these communities want a bike-friendly environment—help to show your support by signing up for the Road Ride today!

Riders of all ages and abilities are welcome. We also encourage teams of 3-5 members as a great opportunity to involve friends, family, and co-workers.

Participants will receive a t-shirt, celebration at the waterfront,
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BLT Partnering with Local Schools

BLT is expanding its environmental education programs to serve local middle and high schools in a wide range of subjects and outdoor experiences.

Throughout the spring, our Program Coordinator met with local teachers to determine how to best serve the individual teachers and their schools

with a fun and practical set of programs and field trips.

Teachers responded enthusiastically and BLT was lucky enough to schedule outings with Chris Packard's Ecology class at John Bapst Memorial High School and Ted Taylor's Environmental Science class at Bangor High School in May to teach

students about vernal pools and forest succession.

We have much more planned for this coming school year as we continue to work with teachers to create programs and identify areas of our wonderful properties that work best as outdoor
(continued on page 3)

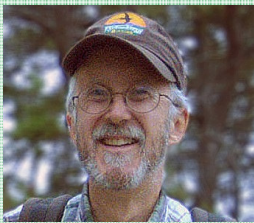
Bangor Land Trust Board of Directors



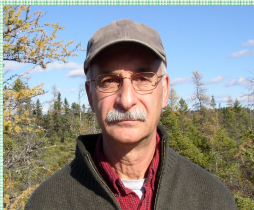
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A Message From Our President

Ever since a botanist companion introduced me to the joys of a loupe, I have been fascinated by the world at 10X magnification. Recently I persuaded Karla Gustafson, a new member of our

Programs Committee, to take me on a Teeny Tiny adventure at Walden-Parke Preserve. On hands and knees, peering through my loupe, I experienced the world anew.

Weeds, common midsummer roadside companions, when magnified enchanted me with their color and beauty. High school biology taught us that flowers are all about sex – actually seeing the tiny stamens (male, pollen-producing) and pistils (female, ovaries and later fruit) revealed in such detail was fascinating. I could look inside Butter-and-eggs (*Linaria vulgaris*), that yellow flower that looks a bit like snapdragon, and Heal-all (*Prunella vulgaris*), the common low weed with the very small purplish blossoms tightly arranged on a stalk whose bottom blossoms open first. The colors – glowing yellow-orange and delicate, vibrant, blue-purple – drew me in and imprinted their beauty on my brain, just as surely as their stamens



A 10X Magnification scope (or loupe) can make a world of tiny things appear before your eyes

left their burden of pollen on any insects venturing into their recesses.

Once fertilized, the ovaries within the pistils swell and become seed-containing fruit. My loupe made visible the transition between a blackberry blossom and the composite fruit. Tiny remains of the pistils on each tiny round blackberry lobe were clearly visible.

Karla and I snuck up on Japanese beetles and other, tinier, insects visiting the Queen Anne's lace (*Daucus carota*). As we approached with our loupes to admire them, the beetles raised their hind legs in a menacing gesture. It definitely looked more convincing through the loupe. We were terrified (almost)!

Lichens magnified were not what I had expected. I had imagined a delicate, feathery scene like the illustrations in children's fairy stories. Instead, the lichen world looked leathery, lizard-like, foreign, and forbidding – not one into which I would want to put an imagined miniaturized

self. Some of the mosses, on the other hand, looked even more look soft and inviting at 10X.

Karla found a bird's feather midst the moss and pointed out to me that with the loupe we could see the

tiny hair-like structures (barbules) that hold the main "branches," or barbs of the feather together, giving it structural strength. The barbules are in turn attached to each other by tiny hooks called barbicels.

Our natural world resembles a matryoshka doll, a nested Russian doll that when opened contains ever smaller dolls – each with its own design and artistry. The loupe enables us to peer below the everyday, to see things afresh and enjoy anew the pleasures of our home.

We are very grateful to Bangor Rotary whose grant made it possible for us to purchase 5 loupes to share with you and use in our school and community education programs. Join us on one of our walks and see the 10X world. If you want to purchase your own loupe, I recommend googling Belomo 10X Loupe. Happy explorations!

Education *(cont'd from page 1)*

classrooms and research sites.

We owe many thanks to the Rotary Club of Bangor for providing a grant to purchase forestry tools and equipment to teach students how to conduct a timber cruise and study other aspects of a forest ecosystem.

Volunteer Board member Dave Thompson has already made great use of these supplies by training local teacher Tracy Vassiliev and UMaine student Katy MacDonald in the proper uses of an increment borer, abney level, and prism. Tracy and Katy are working with the Forest Bioproducts Research Initiative (FBRI) and Tracy is also a teacher at the James F. Doughty middle school in Bangor.

Many thanks to all of these incredibly supportive teachers. We look forward to creating opportunities for students to share in the enjoyment of nature and science.

Corporate Council

To properly recognize the essential financial assistance provided by the local business community, Bangor Land Trust is establishing a Corporate Council of supporters. Contributions from these public spirited businesses will fund BLT's stewardship, education, and conservation programs, as well as enable us to facilitate projects such as the regional Greenprint and Bangor Trails Committee report. Donors

will participate in the Council at gift levels ranging from \$100 to \$5,000; they will receive benefits including recognition in area media, semi-annual "State of the Trust" reports, guided walks on BLT preserves, and an annual awards luncheon. Donations may be either cash contributions or gifts-in-kind of goods and services. For further information, please call the BLT office at 942-1010.

LMF success

The Land for Maine's Future program (LMF) has recently awarded \$313,000 to Orono Land Trust and Bangor Land Trust for acquisition of nearly 1,200 acres in the Caribou Bog-Penjajawoc Marsh Corridor.

The award is one of approximately 50 projects

supported by LMF for a total of \$18 million in funding this July for conservation and recreation projects, farmland preservation, and protection of coastal properties and working waterfronts for commercial fishermen.

Bangor Trails Update

The Bangor Trails committee is reaching a major milestone in its work to create a city-wide, multiple-use trail system.

Over the past year, the committee has thoroughly evaluated potential trail segments in response to requests and comments from trail user surveys in the spring of 2006.

Eighteen new segments have been recorded and ranked in a series of categories that consider public benefit, safety, ease of construction, cost, uniqueness, and other considerations to assign a score for overall "trail feasibility."

Committee members have assembled these rankings and a number of associated documents into a preliminary report that will be presented to the City of Bangor's Transportation and

Infrastructure Committee in September.

The report features detailed information on each segment, including a summary of the trail, rankings and total score with commentary, a detailed map, and photos of features along each proposed trail. In addition to the 18 proposed segments, there are additional connections that have not been ranked but may serve as valuable secondary segments to provide more opportunities for recreation and commuting.

The committee is excited to reveal the report to both the City of Bangor and the public. After the September meeting, the report will be available for viewing on the City of Bangor's website as well as BLT's.

Continuing Education

We are happy to announce that Dick Andren, BLT board member, is teaching a six-week non-credit course at the University of Maine's Senior College this fall.

The class will discuss how plants and animals deal with the harsh winter weather in Maine. Topics will include:

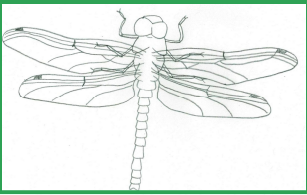
- How frogs freeze solid
- Behavior changes in mammals
- Changes in bird diets
- Plants losing leaves
- And much more!

Contact Dick at 234-2706 for more information or call the Senior College office at 262-7927. We hope you'll sign up to join Dick in a wonderful opportunity to learn more about the natural world around us.

Nature Notes “Dragonflies” by Dick Andren

Darting here and there in the fields, ponds, and streams this time of year are winged insects that have a wonderfully long history with a fossil record stretching back a mind-numbing 300 million years—Dragonflies.

The present day representatives have huge eyes, long slender bodies and two pairs of membranous wings. Dragonflies are unable to fold their wings parallel to their bodies as the closely related damselflies can. This makes the dragonflies look like miniature acrobatic airplanes that can hover in place or fly forward at great speeds or simply



shift the angle of their wings to fly swiftly

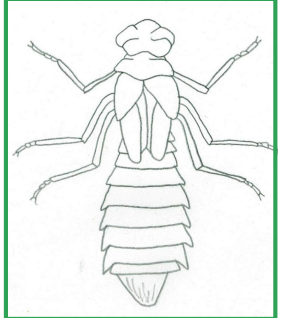
backwards. Each pair of wings is controlled independently for exceptional agility.

In addition to this maneuverability, dragonflies have large pincers allowing them to catch other insects on the fly.

There are about 170 species of dragonflies in New England that eat mosquitoes and other flying insects during the summer and fall. Established territories are defended for hours or days at a time. This territorial defense is especially important during mating and egg laying season.

Eggs are generally deposited in the water where they may overwinter and eggs develop into larva in the spring. These larva remain at the bottom of streams, rivers and ponds for months or years feeding on other aquatic insects. During BLT’s stream

studies on the Kenduskeag, we have often found the fearsome looking aquatic stages. They undergo successive molts, enlarging each time until they crawl out of the water and shed that final aquatic exoskeleton to emerge as an adult.



Dragonfly nymph

They are vulnerable to predators for the next several days or weeks as their new exoskeleton hardens. They are then ready to start a new generation of a colorful and important species. The adults offer wonderful viewing as they chase their dinner and intruders away. Thanks for looking!

USDA project

BLT is partnering with the USDA to research if Emerald Ash Borers have reached Maine Ash trees. The Asian exotic beetles were discovered in southeastern Michigan in 2002. Larvae feed on Ash trees, blocking nutrient flow and eventually killing the trees. Over 30 million trees have been killed in southeastern Michigan alone.

The USDA has placed two traps at our Northeast Penjajawoc Preserve, hanging high in the branches of ash trees. The traps will be in place through the end of August during the beetles flight season. They will be checked monthly and removed in early fall.

The traps pose no risk to humans, pets, or wildlife, but the non-toxic glue can be extremely messy if touched. If you see one on the ground, please call the USDA at 1-866-322-4512.

Join us for our Annual Meeting

The date has been set—BLT’s 7th Annual Meeting will be Wednesday, October 22nd from 7:00 to 9:00pm at Husson College’s Richard E. Dyke Center for Family Business.

Our special presentation this year will focus on both the Caribou Bog-Penjajawoc Project

and the Penobscot Valley Community Greenprint. The Trust for Public Land’s Jim Gooch and Orono Land Trust’s Sally Jacobs will be joining us as we explore conservation efforts on both local and regional scales. Our annual meeting will follow. We hope to see you there!

Volunteers Needed

Here at the BLT office, staff members are working especially hard to ensure that this year’s Frogs, Logs, & Bogs Road Ride is as successful as last year, and *we need your help.*

We need many volunteers to help in the days leading up to the road ride as well as on the big day—September 14th.

We have a wide range of tasks for people of all ages and interests: stenciling the route, setting up the

tents and chairs, hanging signs and banners, refreshments, rest stop, traffic monitors, breakdown van with a mechanic, cheering crowds, and cleaning up after the event.

You can view a full list of volunteer tasks at www.bangorlandtrust.org/volunteeropportunities.html. Please contact Lyndsey at 942-1010 or info@bangorlandtrust.org for more information or to sign up to help out with this great event!

Frogs, Logs, & Bogs Road Ride (continued from page 1)

and a one-year membership in BLT.

We also have fantastic prizes for three of our lucky participants. **Prize #1** will be given to our top fundraiser. See the "sponsorship" column below for details on setting up your own fundraising webpage. **Prize #2** will be given to the owner of the best decorated helmet on the day of the ride. **Prize #3** will be given to the rider that travels the greatest distance to participate in our road ride.

During the ride, your safety will be our primary concern. We'll have a half-way rest stop with refreshments and facilities, a breakdown van with a mechanic, a sweeper bike, medical team, and

volunteers will be posted at major intersections to help direct you along the route. *Remember:* riders must obey traffic laws; vehicles will not be stopped for bicyclists. All riders must wear helmets.

We hope you'll ride with us on September 14th and have a great time with friends and family while supporting conservation in the Bangor area. If you can't ride, we hope you'll consider volunteering. Flip to page 4 for more on these volunteering opportunities.

Send in your registration form today or visit www.bangorlandtrust.org to sign up online. We hope to hear from you soon!

SCHEDULE

Sunday, September 14th

Registration

Pre-registration deadline is September 2nd

7:30 am – 8:30 am

Bangor Waterfront Starting Line Area at the corner of Front St. and Railroad St. *Ride day registration will be \$40 per participant.*

Start

8:30am. Welcome Address and Safety Presentation.

9:00 am prompt, Ride Start.

Corner of Front St. and Railroad St., Bangor Waterfront.

Post Ride Celebration

10:30 am - 1:00pm

Light refreshments & drinks for all riders.

Parking

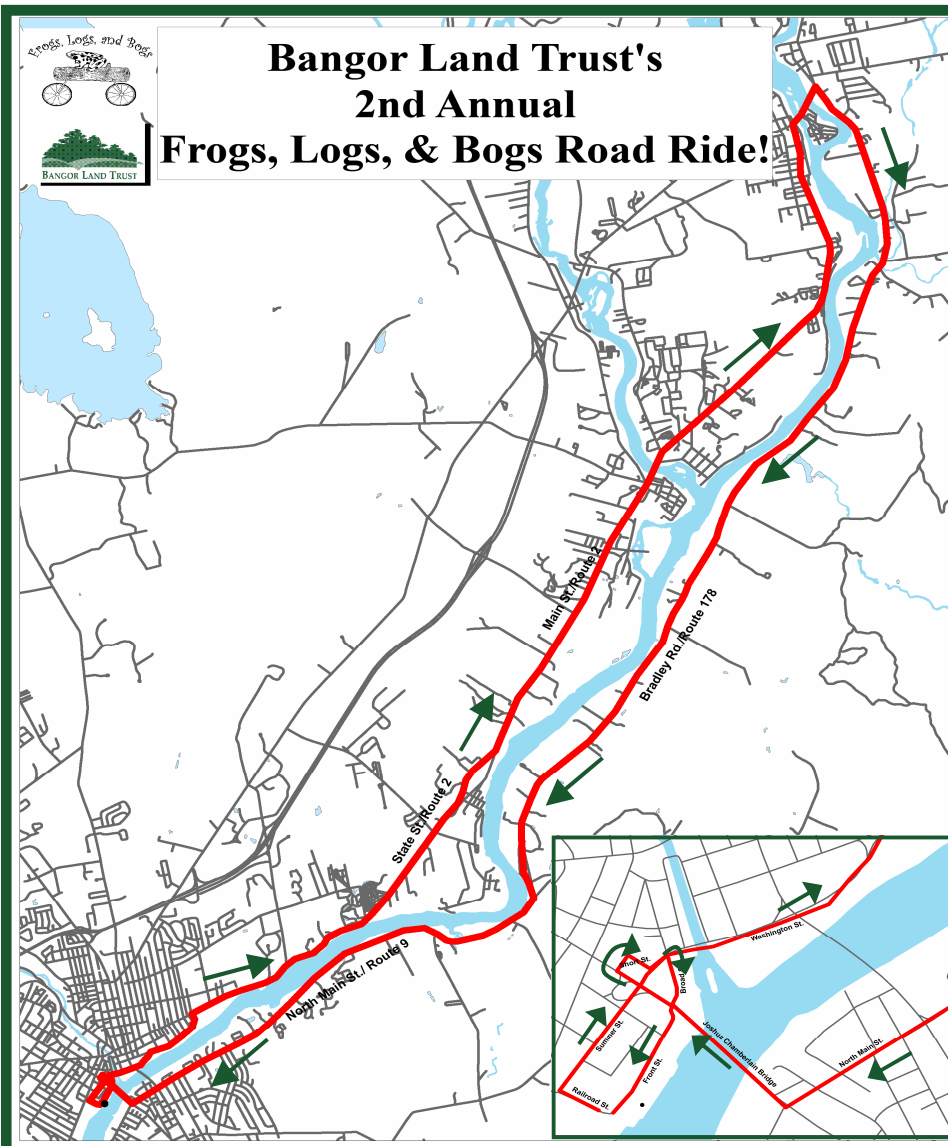
Free parking is available at the Start and Finish lines at the Bangor Waterfront on Front Street and in Pickering Square Parking Garage.

SPONSORSHIPS

Set up your own personal fundraising webpage!

We encourage each of you to increase your level of giving by getting sponsors to support your ride. Our goal is to have each rider raise at least \$100.00 this year. We've made it even easier for you by offering an online fundraising tool through active.com where you can set up your own personal webpage. Create your own page by visiting www.active.com/donate/flbride and click on the "Become a Fundraiser" link at the top of the page.

The funds you raise will support stewardship of our 300+ acres of lands, including trail development and maintenance, research, and education.



Upcoming Events

2nd Annual

Frogs, Logs, & Bogs Road Ride

Join us for our 2nd Annual Frogs, Logs, & Bogs Road Ride--a 28 mile bike ride and celebration at the Bangor Waterfront. Don't want to ride all 28 miles? Pre-register by 9/2/08 to select our 14 mile option and return to the waterfront by shuttle from our rest stop.

Registration will be \$35.00 (\$40 after 9/2/08) and we encourage participants to raise additional funds through sponsorships.

Prizes will be awarded to the top fundraiser as well as the rider with the best decorated helmet and the rider that traveled the greatest distance to participate.

September 14th 9:00am
Bangor Waterfront

Stream Study

Living among the rocks in streams and rivers are wondrous miniature communities. With the aid of a microscope we will examine these creatures and their special adaptation for living in this wet, fast-moving world. Kids of all ages will love getting their feet wet as we explore this habitat on the Kenduskeag. Meet at the last parking area on Valley ave.

September 27th 1:00pm
Kenduskeag Stream

Forest Walk

BLT's Dave Thompson will lead an early fall Forest Walk through Northeast Penjajawoc Preserve to look at forest species, succession, and forestry techniques for the property. Meet at the BLT kiosk on Kittredge Rd.

October 11th 10:00am

Northeast Penjajawoc Preserve

Annual Meeting

Please join us for our 7th Annual Meeting at Husson College's Richard E. Dyke Center for Family Business. Our special presentation this year will focus on both the Caribou Bog-Penjajawoc Project and the Penobscot Valley Community Greenprint. The Trust for Public Land's Jim Gooch and Orono Land Trust's Sally Jacobs will be joining us as we explore conservation efforts on both local and regional scales. Annual Meeting to follow.

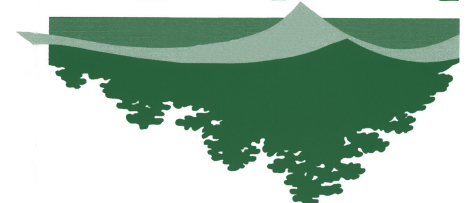
October 22nd 7:00-9:00pm
Husson College
Richard E. Dyke Center for
Family Business

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**"Conserving
Bangor's Natural Heritage"**
Our mission is to protect in perpetuity for public benefit significant lands and waters, and their natural, agricultural, scenic, and traditional values and characteristics; promote general and scientific understanding of the region's natural resources and the need for their preservation; collaborate with organizations having related missions.

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