



SUMMIT 2006

Who's Taking Care of Lake Champlain?
Building Stewardship for the 21st Century



AGENDA & REGISTRATION

May 19, 2006 at Shelburne Farms, Vermont

Hosted by the Champlain Basin Education Initiative:

Adirondack Visitor Interpretive Center ~ ECHO at the Leahy Center for Lake Champlain
Lake Champlain Basin Program ~ Lake Champlain Committee ~ National Wildlife Federation
Shelburne Farms ~ Vermont Project WET ~ UVM Watershed Alliance, A University of Vermont Extension Program

Don't Miss Summit 2006! Join the Champlain Basin Education Initiative (CBEI) partners, dynamic classroom teachers, and local experts to explore a wide array of workshops in four areas:



Watershed Ecology 101



Humanities, Literacy & More



Current Events & Ecosystem Research



Technology & Geology

**REGISTER BY
MAY 5TH**

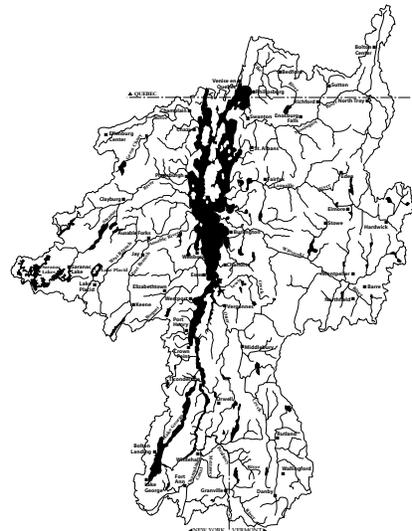
Mix and match workshops from all areas. Applicable standards will be noted by the workshop presenters. Field trips, hands on activities, and lively presentations will fill up early, so register today! **Share your experience... bring a colleague or community member.**

AGENDA: Friday, May 19th 2006

SUMMIT 2006:

Who's Taking Care of Lake Champlain? Building Stewardship for the 21st Century

- 8:00 - 8:45 a.m.** Coffee, Bagels, Registration & Resource Fair
- 8:45 - 9:00 a.m.** Welcome and Introductions
Colleen Hickey, Lake Champlain Basin Program
- 9:00 - 9:45 a.m.** Keynote: "State of the Lake: Your Voice Counts" and Warm-Up Activity
Dr. Mary Watzin, Director, Rubenstein Ecosystem Science Laboratory, University of Vermont
and
Linda Bowden, Educator, ECHO at the Leahy Center for Lake Champlain
- 10:00 - 11:30 a.m.** Choice of Session A
- 11:30 - 12:15 p.m.** Lunch, Amazing Resource Fair & Door Prizes
- 12:30 - 2:00 p.m.** Choice of Session B (1 ½ hrs)
2:00 - 3:30 p.m. Choice of Session C (1 ½ hrs)
- OR -
- 12:30 - 3:30 p.m.** Choice of Session D (3 hrs)
- 3:30 - 4:00 p.m.** John Gailmor, Musician, Grand Finale!
- 4:00 - 4:15 p.m.** Professional Development Certificates,
Door Prizes & Evaluations



THE LAKE CHAMPLAIN BASIN

SUMMIT 2006 WORKSHOPS

Session A: 10:00 - 11:30 a.m.



Watershed Ecology 101

A1 Workshop: Watershed Basics: Terms, Tools and Resources

Don't know where to begin? Join us to define and delineate a watershed, learn the basics about Lake Champlain watershed issues and how to prevent pollution, pollute a watershed to see how land uses affect it, and identify student stewardship activities. Resources to go!

Presenters: Mike Winslow, Lake Champlain Committee and Colleen Hickey, Lake Champlain Basin Program



Humanities, Literacy & More

A2 Workshop: Sustainability: An Overarching Concept for Watershed Teaching

How can this large concept strengthen what you do? How can it be taught through practical, interactive, and age-appropriate community-based experiences for your students? Learn from an outstanding model program.

Presenter: Jen Cirillo, Shelburne Farms Sustainable Schools Project



Technology & Geology

A3 Workshop: Spatial Tools for Field Student Research

Feeling lost? Maybe not, but we'll show you how to know exactly where you are within the watershed. Learn about Global Positioning System (GPS) technology, practice on hand-held equipment, and complete outdoor activities that can be duplicated for your class.

Presenter: Tom Williams, Vermont Center for Geographic Information



Current Events & Ecosystem Research

A4 Workshop: Ecosystem News

Already teaching about watersheds, but want recent information on Lake Champlain's ecosystem? Meet with these three experts to hear more details about the *State of Lake*. Water quality, aquatic nuisance species and cormorants will be highlighted. After three snappy presentations, you'll have plenty of time for Q&A with these experts! Excellent data for your students!

Presenters: Dr. David Capen, University of Vermont; Eric Smeltzer, VT Department of Environmental Conservation; and Lisa Windhausen, Lake Champlain Basin Program



ZEBRA MUSSEL

Great Door Prizes!

YOU COULD WIN...

- USGS Watershed Packets
- US EPA Watershed Puzzles
- National Wildlife Magazines
- Maps
- And More!

EVERYONE will take home new world lakes teaching resources, featuring ECHO's mascot NEWTon, a Lake Champlain Basin Atlas CD ROM and more!

Session B: 12:30 - 2:00 p.m.

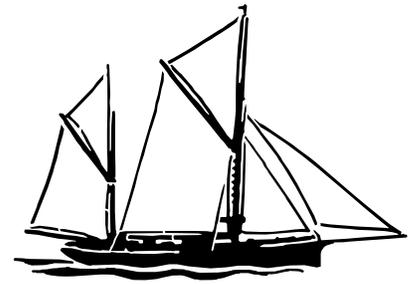


Humanities, Literacy & More

B1 Workshop: *Journaling: Getting Your Students to Write, Draw and Observe!*

Learn to use journaling to extend your curriculum, strengthen student observation and drawing skills, and produce a finished product. Nature journals featuring student work will be featured.

Presenters: Peter Goff and students, Vermont Commons School



Current Events & Ecosystem Research

B2 Workshop: *Research Data: Put it to the Test!*

Citizen science and data analysis: once we collect it, how do we use it? Learn how to use local data, much of which is now on-line. The Lake Champlain lay monitoring data set collected by volunteers is one of the longest running data sets for large lakes. Complete several activities using real water quality and other data during this session. Great for high school math teachers!

Presenter: Amy Picotte, VT DEC Project Wet

Session C: 2:00 - 3:30 p.m.

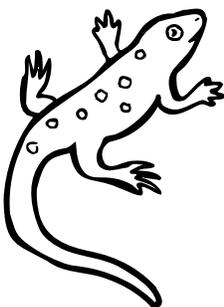
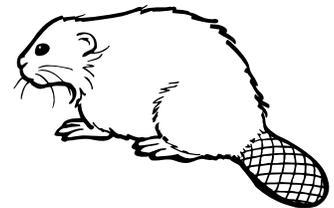


Humanities, Literacy & More

C1 Workshop: *Questing 101 : An Introduction to Community Treasure Hunts*

Quests are an intriguing method of motivating student learning, increasing student and community knowledge and providing assessment opportunities to teachers. Students can demonstrate their proficiency with watershed facts and also their personal creativity by transforming watershed learning into rhyming treasure hunts for all to enjoy. Come find out about the ultimate assessment tool!

Presenter: Ann Bijur, Shelburne Farms



C2 Workshop: *Songwriting to Send a Message*

Tap into your students' creative juices by writing songs that relate to the natural world around them. Join a local musician and songwriter to see how music can enhance and invigorate any curriculum. Participants will create a song during this session.

Presenter: Jon Gailmor, musician and songwriter

(session C: 2:00 - 3:30 p.m., continued)



Current Events & Ecosystem Research

C3 Workshop: *The Canal Schooner Lois McClure – Her History, Archaeology, and Voyages*

Engage in a lively discussion with the *Lois McClure's* first mate about the 2005 voyage to New York City. Try classroom activities from *Canalers Afloat: The Champlain Waterway's Unique Maritime Community, 1819-1940* – a standards based PreK-8 curriculum to teach archeology, geography, math skills and more!

Presenter: Erick Tichonuck, Lake Champlain Maritime Museum

Session D: 12:30 - 3:30 p.m.



Watershed Ecology 101

D1 Workshop: *Jump In! Students, Streams and Scientific Samples!*

Overwhelmed at the thought of your first field trip to the stream? Today you'll get your feet wet, so bring your water shoes! Test for pH, phosphorus and other water quality parameters. Learn basic macro-invertebrate identification. What do bugs really tell you about the health of the stream?

Presenter: Caitrin Noel, UVM Watershed Alliance, A University of Vermont Extension Program

DUMP NO WASTE



DRAINS TO LAKE



Technology & Geology

D2 Workshop: *Geology: The Present is a Key to our Past*

You'll learn basic geology, and receive an overview of the geologic history of the Champlain Valley, and plate tectonics. We'll go in the field to examine rocks, minerals and geologic formations, so bring rain gear just in case! NY roadside fieldtrip handouts available too!

Presenter: Marjorie Gale, VT Geological Survey, VT Department of Environmental Conservation



Current Events & Ecosystem Research



STONEFLY

D3 Workshop: *Aquatic Macro-Invertebrates: Determine the Health of Your Nearby Waterway*

Looking for more of a challenge? After recovering macro-invertebrates from beneath Lake Champlain's rocks, you will test species-area relationships and compare lake samples with leaf litter samples from upstream sites. Complete hands-on classroom activities that will surely engage your students!

Presenters: Dr. Tim Mihuc, SUNY Plattsburgh and Dr. Janet Mihuc, Paul Smith's College

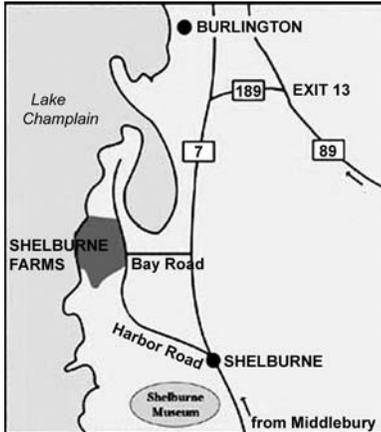
Don't Miss the Resource Fair!

Free materials from all the CBEI partners! A local bookstore will be there with lots of books and teacher discounts.

HOW DO I GET TO SHELBURNE FARMS?

From New York...

Following signs from the Northway (I-87), proceed to the Champlain Bridge. Once in Vermont, follow Route 17 to Route 22A. Turn left (north) on Route 22A. Follow 22A to Route 7. Turn left (north) on Route 7 to Shelburne, VT. OR, take the Essex-Charlotte ferry and follow Route 7 (north) to Shelburne. See map for continued directions.



From Southern VT...

Follow Route 4 to Rutland and turn right (north) onto Route 7 to Shelburne. See map for continued directions.

From Northern VT...

From I-89, exit at Shelburne Road/Route 7. Turn left (south) onto Route 7 and to Shelburne. Please allow at least 15 minutes of extra time due to Route 7 construction.

The Summit will be held at the Coach Barn. Follow the CBEI signs when you reach the Farm. Shelburne Farms can be reached at (802) 985-8686.

ONE MORE NOTE...

The Lake Champlain Basin Program (LCBP) is proud to sponsor this workshop. CBEI is committed to enriching and supporting education about the Lake Champlain Basin in many ways. We hope that this Summit will enhance your current work and inspire new directions. Aside from the workshops, where an interactive setting will encourage reflection and sharing of your own practice, the schedule allows time to catch up with colleagues and gather resources. **Sharing our knowledge and experience is the key to success!**

A limited number of scholarships are available. Contact the LCBP for details.

Mail or fax your registration by May 5th to:

Lake Champlain Basin Program
54 West Shore Road
Grand Isle, Vermont 05458
FAX: (802) 372-3233

Make check for \$25.00 payable to NEIWPC (students may register for \$20.00).

Questions?

Call Colleen Hickey at (800) 468-5227 or (802) 372-3213
or email: chickey@lcbp.org

WHAT IS CBEI?

Established in 1992, the Champlain Basin Education Initiative (CBEI) is a consortium of New York, Vermont and Quebec organizations dedicated to helping educators learn and teach about Lake Champlain Basin issues.

About 540 educators have participated in our one-day forums or weeklong institutes.

Contact the LCBP or one of the organizations listed on the cover of this agenda for more information.



Lake Champlain
Basin Program

REGISTRATION FORM

The registration deadline is May 5th. The fee is \$25, which includes the workshops, a resource fair, materials, lunch, and snacks. Note: If you are planning to attend, but need to wait for a check to be cut by your school, please **register today** by faxing this form to the Lake Champlain Basin Program at (802) 372-3233. Then, **send in your payment by May 5th**. Participants will be registered on a **first come, first served** basis. **Make check payable to NEIWPCC. (Students may register for \$20.00).**

Name: _____
School: _____ Grade Level: _____
School Mailing Address: _____ Zip: _____
Home Address: _____ Zip: _____
Daytime Telephone: _____
Email (optional): _____

Are you attending as part of a team? **YES NO**

Do you teach about the Lake Champlain Basin? If so, tell us about the content.

Are there specific resources that you would like to see at the Resource Fair?

I would like a vegetarian lunch. **YES NO**

Please choose the workshops you would like to attend:

MORNING: Choose your 1st and 2nd choice from A:

SESSION A: 10:00 – 11:30 a.m.

Choose from: **A1 A2 A3 A4** 1st Choice: _____ 2nd Choice: _____

AFTERNOON: Choose two 1^{1/2}-hour sessions from B and C, **OR** choose one 3-hour session from D. Be sure to indicate your 1st and 2nd choices.

SESSION B: 12:30 – 2:00 p.m.

Choose from: **B1 B2** 1st Choice: _____ 2nd Choice: _____

- AND -

SESSION C: 2:00 – 3:30 p.m.

Choose from: **C1 C2 C3** 1st Choice: _____ 2nd Choice: _____

OR, choose one 3-hour session:

SESSION D: 12:30 – 3:30 p.m.

Choose from: **D1 D2 D3** 1st Choice: _____ 2nd Choice: _____



PLEASE POST

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May 19, 2006

Lake Champlain Basin Program
54 West Shore Road
Grand Isle, Vermont 05458

**SUMMIT 2006
Agenda &
Registration**