The Connecticut River Valley is one of the best places to study geology in the world. It displays an amazing array of dramatic and even unique geologic events. The Valley’s geologic heritage also created the environment for diverse human achievements. Waterfalls, due to glacial Lake Hitchcock that disrupted the Connecticut River’s natural course, became an essential part of the Valley’s famous industrial heritage. Glacial Lake Hitchcock also provided the Valley’s agricultural richness.

During this 5-day, small-group program, you will learn how colliding plates enlarged North America to become part of the Pangea Supercontinent, and then split to create the early Connecticut Valley as well as the Atlantic Ocean. Dinosaurs ruled this faulted valley landscape, and you will see abundant evidence of the history. There will be talks by experts in geology, paleontology, history, and culture, and we will explore the first person to bring dinosaur footprints into the scientific world, Deerfield’s Edward Hitchcock, an important figure of the mid-19th century who eventually became president of Amherst College. You will learn how the river shaped the lives, culture and economy of humans since the beginning of their occupation in the valley.

This Historic Deerfield program will highlight how geology influences world history and local culture and development. You will learn how to read the history preserved in rocks and landscape, a language that is universal. A talk and picnic on top of Mt. Sugarloaf will cap off the week with the iconic views of the valley that has enriched all locally and beyond. Transportation is included to all field trip locations.
Speakers:

Richard Little is Professor Emeritus, Greenfield Community College, Greenfield, Massachusetts. Little is the founder and owner of Earth View LLC, a geology education services and products company featuring lectures, videos, and tours. He was inducted into the Massachusetts Science Educator Hall of Fame in May 2004. His publications include: *Dinosaur, Dunes, and Drifting Continents: The Geohistory of the Connecticut Valley*, *Exploring Franklin County: A Geology Guide*; "A Trip Through Time in the Connecticut River Valley" in New England Intercollegiate Geology Conference Guidebook; "The Rise and Fall of Lake Hitchcock, New England's Greatest Glacial Lake," a 40-minute video; and "Overview of Connecticut Valley Geology" in *Guidebook & Proceedings Volume*, National Association of Geology Teachers, Eastern and New England Sections Meeting 1991. Mr. Little received his B.A. from Clark University and M.A. from the University of Southern California. He lives on the edge of a drumlin along the old Lake Hitchcock shoreline in Easthampton, MA.

Claire Carlson is the Education Program Coordinator in the Department of Museum Education and Interpretation at Historic Deerfield where she manages youth, family and public programs. She also oversees the Open Hearth Cooking and Domestic Arts program, which provides interpretive food programs, classes and demonstrations. She has a bachelor’s and master’s in Anthropology and was an instructor in Historic Deerfield’s Summer Field School in Historical Archaeology. She is a certified History teacher and came to Museum Education after an active career in Public Archaeology.

Harry Sharbaugh is a retired pathologist who has been a guide for Historic Deerfield since 2010 and has a special interest in Natural History. He has pursued his interest in Connecticut Valley geology for 30 years with a special interest in Jurassic fish fossils. His personal collection of rock specimens illustrates the broad range of ancient geological formations of the region. He lives in Erving, Massachusetts, in the geologic core of the (metamorphic) Pelham Dome.

Steven Winters is a trained hydrogeologist and geoscience educator. He has passion for geology and way of telling the stories hidden in rocks that make science come alive. Currently, Mr. Winters is an Associate Professor of Earth Science at Holyoke Community College where he teaches courses ranging from "The Dinosaurs of New England" to a course he calls "Cli-Fi: Stories & Science of the Coming Climate Apocalypse."

Schedule:

**Monday, July 13:** Starting at 3:00 p.m. participants may check into rooms and the program at the Deerfield Inn. After dinner, the evening’s program will provide introductions to the program leaders (Faith Deering and Julie Orvis), participants, and brief overview of the program.

*Meals included:* Dinner

**Tuesday, July 14:** Richard Little will start the day with his lecture, "Dunes, Dinosaurs, & Drifting Continents" that provides the broad geological history of the Connecticut River Valley. The lecture will be followed by a geology and nature walk in Old Deerfield. After lunch, the day will continue with a hands-on workshop to explore the collection of rocks and fossils with local amateur geologist, retired pathologist and Historic Deerfield guide, Harry Sharbaugh. He has collected fine specimens of rocks and fossils of the Valley for more than 30 years and has curated them into an interactive exhibit for the public. Participants will also learn about the history of the scientific discoveries found in the geology of the valley, especially the dinosaur footprint fossils. In the evening, Claire Carlson will give a talk about the human occupation of the Connecticut River Valley, from the deep past to the early colonial period. Her talk will focus on the changing climate and environment from the time of the first peoples who came to the valley after Lake Hitchcock drained to the more recent past.

*Meals included:* Breakfast and Dinner at the Deerfield Inn, Lunch at the Deerfield Lunch Box.

**Wednesday, July 15:** Participants will embark on the first field trip of the program to explore the river landscape and geology at the French King Bridge in Erving, the Gill Dinosaur Print outcropping along Rt. 2, and fossil waterfalls and rift valley rocks found at Barton Cove. In Turners Falls the group will explore and learn from the Connecticut River map and diorama exhibits at the Great Falls Discovery Center. After lunch on your own in Turners Falls, the group will travel to Greenfield and will hike along the base of Poet’s Seat to view the dramatic basin column. The afternoon will also include time in Shelburne Falls to view and learn about the “Glacial” Potholes and the famous Bridge of Flowers.

*Meals included:* Breakfast and Dinner at the Deerfield Inn.

**Thursday, July 16:** The second field trip will bring participants 30 miles south to the Dinosaur Footprints in Holyoke, managed by Trustees of the Reservation. At this site participants will find footprint fossils maintained where they were found. Then, the group will explore the economic power of the river at the Holyoke Heritage State Park and Canal Walk and the Wistariahurst Museum. After lunch in Hadley, the group will travel to Amherst to visit the Beneski Natural History Museum at Amherst College, home of the largest collection of dinosaur footprint fossils in the world. Participants will have time to visit the Emily Dickinson Museum (3 blocks away) if they choose. On the bus returning to Deerfield, Richard Little will interpret stops at the Delta Sand and Gravel site that illustrates evidence of the river delta flow in the glacial Lake Hitchcock and at the Mill River Cemetery that has evidence of the Lake Hitchcock shoreline. The group will have a free evening (dinner is included).

*Meals included:* Breakfast and Dinner at the Deerfield Inn and Lunch in Hadley.

**Friday, July 17:** Led by Steven Winters, the group will take a final look at the river at its confluence with the Deerfield River from the Franklin County Greenway Bike Bridge. A shuttle bus will take the group to the top of Mount Sugarloaf for a discussion of rock formations. A picnic lunch will be given. The bus returns to Deerfield at 2:30 p.m. and the program concludes.

*Meals included:* Breakfast and picnic lunch.

The cost of the program is $995/person including a double occupancy room at the Deerfield Inn for 4 nights (Monday, July 13 to Friday, July 17) and most meals (4 breakfasts, 3 lunches, and 4 dinners). For a single room, add $350. If you like to extend your stay at the Deerfield Inn through Friday night, July 17, leaving on Saturday, July 18, you may add a reservation for the extra night below for $200/inclusive. For more information and registration, contact Julie Orvis at jorvis@historic-deerfield.org or (413) 775-7179. Online registration for this program is available.

Cancellation Policy

A full refund of the registration fee can be obtained if you cancel before 4:30 p.m. on Friday, June 13, 2020.
Registration Information

The cost of the program is $995/person including a double occupancy room at the Deerfield Inn for 4 nights (Monday, July 13 to Friday, July 17) and most meals (4 breakfasts, 3 lunches, and 4 dinners). For a single room, add $350. If you would like to extend your stay at the Deerfield Inn through Friday night, July 17, leaving on Saturday, July 18, you may add a reservation for the extra night below for $200/inclusive. For local residents not staying at the Deerfield Inn, subtract $350 below. For more information and registration, contact Julie Orvis at jorvis@historic-deerfield.org or (413) 775-7179.

Online registration for this program is available at www.historic-deerfield.org.

Cancellation Policy

A full refund of the registration fee can be obtained if you cancel before 4:30 p.m. on Friday, June 13, 2020.

Participant 1: ________________________________________________
Participant 2: ________________________________________________
Badge Names (if different): ______________________________________

Address _______________________________________________________
City/State/ZIP __________________________________________________
E-mail Address ___________________________________________________
Phone __________________________________________________________

If different, Participant 2's Contact Information:

_________________________________________________________________

Special Needs

Do you have any special needs (dietary or mobility)?
☐ Yes, dietary
☐ Yes, mobility
☐ No

If yes, please briefly describe your special need and how we may accommodate it:

_________________________________________________________________

How did you hear about this program?

_________________________________________________________________

Logistics:

The Deerfield Inn has a variety of room configurations: Kings, Queens, 2 Queens, and 2 Twins. Two-bed rooms are very limited and will be given to unrelated traveling companions and those asking for an unknown assigned roommate first. We will assume that a one-bed room is okay if two people are registering on one form.

Who would you like your roommate to be?
☐ My companion included in this registration.
☐ Another person registering separately.
☐ Please assign me a roommate.
☐ I'm registering for a single and will add cost to my registration below

If you answered another person registering separately, please indicate the name here:

_________________________________________________________________

Join the Friends of Historic Deerfield as an individual member for one year for $35 (a $50 value) and receive free admission to Historic Deerfield, discounts at the Museum Store and Deerfield Inn, a member newsletter and Historic Deerfield magazine. The discounted rate does not apply to renewals of current or lapsed members.

Fees

☐ Registration per person/double occ. $995 x #_____ = $_______
☐ Single occupancy upgrade $350 = $_______
☐ Extra Night at the Deerfield Inn (Fri., 7/20) $200 = $_______
☐ New membership $35 = $_______
☐ I will not be staying at the Deerfield Inn - $350 = $_______

Total Enclosed: $___________

Payment

Please make checks payable to Historic Deerfield, Inc., or pay by credit card:
☐ Amex  ☐ MC  ☐ Visa

Card #: _______________________________________________________
Exp. Date: ________ Sec. Code: __________
Cardholder Name: _____________________________________________

Mail to:
Natural History Program, Historic Deerfield, Inc., PO. Box 321, Deerfield, MA 01342
Phone: Julie Orvis, (413)775-7179
E-mail: events@historic-deerfield.org
Online: www.historic-deerfield.org
Fax (with credit card payment): (413) 775-7220
(Please make checks payable to Historic Deerfield, Inc.)
A confirmation of your registration will be sent to you by mail.