

University of Maine
 in Partnership with
Coastal Maine Botanical Gardens
 are pleased to present:

A Summer Institute for Educators: *Close Reading in the Garden*

Tuesday August 13 and Wednesday August 14, 2019 9:00 am – 4:15 pm,

132 Botanical Gardens Drive, Boothbay, Maine

Keynote address: Reading, Writing, And Rigor in Science: Helping Students Achieve Greater Depth of Knowledge

Presented by: Dr. Nancy Boyles

Professor Emerita, Southern Connecticut State University, Author, and Independent Literacy Consultant

Sponsored by: Capstone Publishing



The rigor is in the answer, not in the question! In this session, develop a deeper understanding of rigor in literacy—especially what it looks like in reading and writing about science. Explore the connection between rigor and Depth of Knowledge and identify questions and tasks that require rigor at all levels of complexity. Learn about practices that promote rigor and strategies that support both teachers and students. Take home a handout with classroom-ready resources that will inspire deeper thinking in your students.

CONFERENCE SCHEDULE

Day I

9:15- 10:00 Registration
 10:00 -10:30 Welcome and Keynote address
 10:30 -12:00 Keynote
 12:00 --1:00 Lunch
 1:00 – 2:15 Breakout session
 2:15 - 2:45 Break
 2:45- 4:00 Breakout session

Day 2

9:15 -9:30: Welcome
 9:30 – 10:45 Break out session
 10:45 – 11:15 Break
 11:15 – 12:30 Break out session
 12:30 – 1:30 Lunch
 1:00 – 4:00 Work sessions

Beth Fuller representative for Okapi and Capstone will be available at the conference with books for sale.

Breakout Sessions:

Please number your selections 1 thru 7 (see attached sheet for descriptions)

_____ **Highlights Tour**

_____ **Maine Caterpillars and Butterflies**

_____ **Honeybees and Native Bees of Maine**

_____ **Sensory Experiences in the Gardens**

_____ **Cultivating Curiosity: Studying Pollinators in the Gardens**

_____ **Writing about Art**

_____ **Behind the Scenes of a Grassroots Herbarium**

Early Bird Registration of \$400 due by July 12.

Registrations after July 12 will be \$450.00

Name _____

Email: _____

School _____

School District _____

Phone number : _____

Tee shirt size: _____

Registration fee : Includes morning coffee; box lunch and afternoon snack)_

Allergies: _____

Enclose: Check/money order
 Purchase order

Make payable to the University of Maine.

CONFIRMATION WILL BE EMAILED PRIOR TO THE CONFERENCE
 Refunds are NOT available but please feel free to forward your registration to a friend.

**Return to: Close Reading in the Gardens, Attn: Katherine Wing University of Maine, 5766 Shibles Hall, Orono, ME 04469-5766
 PHONE 207/581-2493 • FAX 207/581-9052 • katherine.wing@maine.edu**

A Summer Institute for Educators: *Close Reading in the Garden*

BREAKOUT SESSION

A. Highlights Tour (Tuesday, 1:00-2:15 – Breakout 1, Tuesday, 2:45-4:00 – Breakout 5, and Wednesday, 9:30-10:45 – Breakout 1, and Wednesday, 11:15-12:30 – Breakout 5)

Join us for our standard tour of our central Gardens campus. Our unique story, the history of several of our most loved Gardens, and a review of what's in bloom will all be covered by your guide.

B. Maine Caterpillars and Butterflies (Tuesday, 1:00-2:15 – Breakout 3) (offered one time only)

Everyone is familiar with butterflies, but did you know that there are over 115 species of butterflies in Maine? Join our Plant Curator, Andy Brand, as he looks deeper into this diverse world, taking participants on a tour of butterfly families and pointing out how to tell them apart. Butterfly metamorphosis will also be discussed in depth, revealing that butterfly life isn't easy at any stage. How do these delicate creatures survive the winter? How do they protect themselves from predators? While answering these questions, Andy will also share his experiences rearing butterflies and moths as well as recommend some of his favorite field guides. You'll end better prepared to identify backyard butterflies and, perhaps, even rear them at home.

C. Honeybees and Native Bees of Maine (Tuesday, 1:00-2:15 – Breakout 2, and Wednesday, 9:30-10:45—Breakout 2)

Join our resident Master Beekeeper, Erin Forbes, for a tour featuring an up-close-and-personal visit with the honeybees that call the Gardens home. Hear why the Gardens started an apiary, see our dozen hives first-hand, and learn about what we are doing here at the Gardens to help both our managed bees and the many native and under-recognized bee species that contribute to the Gardens' ecosystem. Along the way, Erin will share the fascinating world of bee behavior and bee ecology, and leave you inspired to welcome more bees into your life.

D. Sensory Experiences in the Gardens (Tuesday, 1:00-2:15 – Breakout 4, and Tuesday, 2:45-4:00 – Breakout 8) (note: offered on Tuesday only)

Nature and gardens provide comfort and enrichment to many of us. In particular, CMBG's Lerner Garden of the Five Senses demonstrates opportunities and design features that support health and wellbeing. Irene Barber, a registered Horticultural Therapist, will guide you to learn about the features, plants and designs that were implemented to enable and encourage personal enrichment for people of all abilities. This tour will discuss opportunities and methods that stimulate cognitive and physical activity as well as identify design considerations towards universal accessibility and emotional support.

E. Cultivating Curiosity: Studying Pollinators in the Gardens (Wednesday, 9:30-10:45 – Breakout 2, and Wednesday, 11:15-12:30 – Breakout 7)

In this workshop, Youth & Family Programs Coordinator Erika Huber will directly model one of our more popular field trip offerings for students in grades K-6. Participants will be introduced to the process of pollination, pollinator preferences and the parts of a flower through dissection, observation and a pollinator field study. Content will be delivered at the K-6 level.

F. Writing about Art (Wednesday, 9:30-10:45 – Breakout 4, and Wednesday, 11:15-12:30 – Breakout 9) (note: offered on Wednesday only)

Join Vanessa Nesvig, Interpretation and Exhibits Coordinator, for a tour of internationally renowned sculptor Steve Tobin's current exhibition, *Unearthed*, at the Gardens. Vanessa will also walk participants through our main summer photography exhibit and the Gardens' permanent sculpture collection. How do we look at and think about sculpture? How do we describe it? Vanessa will share thoughts designed to spark new directions for writing and talking about art.

G. Behind the Scenes of a Grassroots Herbarium (Tuesday, 2:45-4:00 – Breakout 9, and Wednesday, 9:30-10:45 – Breakout 5)

Join our Research Botanist, Melissa Cullina, for a behind-the-scenes tour of the CMBG Herbarium, our archival collection of dried plant specimens. Collections in herbaria may be used to support studies of plant systematics, ecology, conservation biology, biogeography, anatomy and morphology. Part of CMBG's new Research Department, the Herbarium is growing by leaps and bounds, thanks to the contributions of our dedicated team of volunteers. You'll come away with a deeper understanding of this important resource in the field of botany, and a new perspective of some of our local native plants.