



10:35 a.m. – 11:55 a.m.

‘Discovering Lakes’ – a 1.5 hr. Lakes **Curriculum Share workshop** to introduce teachers to a newly created **‘Discovering Lakes’ curriculum**.

Join us during this session to learn the story behind the ‘Discovering Lakes’ curriculum creation, and then engage in experiencing it first hand with the hopes that the workshop experience generates quality discussion/feedbacks about the curriculum.

In this session teachers will be introduced to a newly developed curriculum to teach our students about lakes; one that is holistically guided in its design by the NGSS science teaching standards. A curriculum which utilizes local lake data shared by the new data buoy deployed in Sebago lake in 2017, and much more.

This curriculum is broken down into manageable and effective units associated with lake study and it then culminates with a Human Impact on Lakes unit plan.

Join us to engage with these newly designed units, to then offer your feedback, which we will add into our curriculum design reflection process.

Detailed Agenda:

10:35 - Emily Lesher

Welcoming Remarks/Brief summary of the project and partnerships.

10:40 - Jeff Riddle

NGSS and Backwards Design.

10:50 - Alyssa Charette

Curriculum overview, unit sequence and design template

11:00 - Participants rotate through 2 hands on stations.

Lake Turnover Unit Station

Turbidity Unit Station

Temperature/Human Impacts Unit Station

Dissolved O₂ station

11:35: Sarah Plummer

Discussion & Feedback

Email to publicize “Discovering Lakes” curriculum workshop

Subject line

Invitation: Sebago Lake Science and Curriculum Workshop, free event 2/2, continuing ed credits available

Dear Educator,

Join us at the “Discovering Lakes” curriculum sharing workshop, which is part of the Sebago Lake Symposium at Saint Joseph’s College on February 2. The symposium presents science for anyone who loves Sebago Lake, but we have also created a special educator’s workshop centered on the “Discovering Lakes” curriculum that has been developed in conjunction with the Sebago Lake real time water quality measuring buoy project (a collaboration between Saint Joseph’s College and Portland Water District).

Why should I attend?

- Hear from experts in water quality, sensors, climate change impacts on lakes as part of the larger symposium
- Break out with fellow educators for a focused engagement with the new curriculum
 - Where it came from
 - How it was designed
 - Test hands-on activities
- Free lunch!
- Continuing education credits (3 hours for participation in the first half of the day, or 5 if you stay the whole day)

- Beer tasting at the end of the day featuring breweries using Sebago Lake water (Allagash, Rising Tide, and Goodfire!)

Please note:

- Registration is free, but required, visit www.sjcme.edu/sebago for the registration link; be sure to indicate in the last question you are attending the educator’s workshop
- Educator’s workshop is limited to the first 20 registrants, act quickly!
- Please feel free to share with colleagues
- Inclement weather date: February 9

Agenda (where two sessions are listed in the same time slot, the attendee chooses which to attend)

8:45-9:30	Registration, coffee	
9:30-10:05	Sebago Lake: Past, Present, and Future Paul Hunt (PWD), Brie Holme (PWD), Emily Leshar (SJC)	
10:15-10:35	The Impact of Weather and Climate on Sebago Lake Ryan Dorland (SJC)	Climate Change Impacts to Maine’s Lakes Jessie Meeks (Bates College)
10:35-12	Discovering Lakes Educators’ Workshop Jeff Riddle (Windham High School), Sarah Plummer (PWD), Alyssa Charette (SJC), Emily Leshar (SJC)	
12	Lunch	
1-1:20	LakeTemps Network - Citizen Science on Sebago Lake Todd Rodgers (Rodgers Research Group LLC)	Aliens Among Us: Invasive Plants in Sebago Mary Jewett (Lakes Environmental Association)
1:20-1:40	The Value of Ecosystem Services and Forest Conservation in the Sebago Lake Watershed Adam Daigneault (U Maine) Spencer Meyer (Highstead Foundation)	The Hunt for Aquatic Invaders: building and sustaining an effective citizen-powered early-detection effort on Sebago Lake Roberta Hill, Lake Stewards of Maine
1:50-2:35	Taking action - Policies to Protect Lakes Colin Holme (LEA), Susan Gallo (MLS), Bill Diamond (District 26 Senator), and Richard Cebra (District 68 Representative)	
2:30-3:30	Beer tasting, Conversation, Posters and Exhibits	

The educator’s workshop is presented by those involved in the creation of the Discovering Lakes curriculum: Jeff Riddle (Windham High School Earth science teacher), Sarah Plummer (Portland Water District Environmental Education Coordinator), Alyssa Charette (Saint Joseph’s

College Biology and Secondary Ed student), and Emily Lesher (Saint Joseph's College Asst. Professor of Chemistry).

Educators may choose to stay for the first half of the day (registration – lunch 3 CECs) or the entire day (5 CECs).

Please reply to this account if you have any questions, we hope to see you there!

Sincerely,
Jeff Riddle



Sarah Plummer



Alyssa Charette



Emily Lesher

