Join our 2020 Virtual Professional Development Institute



Ignite Your Students' Interest in Science through Place-Based Activities & STEM Role Models at the

BELLE ISLE AQUARIUM

In Response to COVID-19, our highly regarded Belle Isle Aquarium Summer Teacher Institute is being offered ONLINE, August 3 – 6, 2020

ALL 5th Grade teachers in DPSCD are encouraged to participate!

SIGN UP NOW

to be eligible also for small grants for student science projects

ON-LINE REGISTRATION: www.BIAquariumSTEM.org



4-Day Summer Teacher Institute 9:00 am-3:30 pm, M-Th, Aug 3-6, 2020

For the first time and with the encouragement of DPSCD, the Summer Institute will be ONLINE. The Summer Teacher Institute will help your class get the most out of place-based activities with Belle Isle Aquarium educators.



For more information, contact:
Jeffrey Ram, co-Project Director
Sandra Yarema, co-Project Director
Wayne State University,
jeffram@wayne.edu
Subject line: BIA Education Research



Join a National Science Foundation program to achieve your Curriculum Goals and Excite Your Students' Interest in Science and STEM Careers. The program focuses on Michigan 5th Grade Science & Social Studies Standards and how the Belle Isle Aquarium can help you meet these through place-based learning activities with the Belle Isle Aquarium.

How Teacher Participants Will Benefit:

- I. The 4-day online Summer Teacher Institute with Aquarium educators will:
- a. Convey new knowledge and skills through presentations, hands-on activities, virtual field trips, and development of grant projects and lesson plans.
 - b. Provide classroom supplies, activity guides, and other resources.
- c. Pay you \$800 for attending the Summer Institute, with additional stipends for other activities through 2021.
- d. Enable you to earn **24 SCECHs** from Michigan Technological University at no additional cost, with completion of Institute requirements (attendance, readings and assigned activities).
- Support bringing your class on a field trip to the Belle Isle
 Aquarium (BIA) pending resumption of DPSCD field trips. Learn
 about our NEW virtual field trip and how to engage your students in
 scientific investigations, science career explorations, and hands-on activities.
- 3. Encourage applications for \$500 grants for student projects in your class.

Program Requirements of Teacher Participants:

- Attend a 4-day Online Summer Institute with Aquarium educators.
 - ☐ The Institutes are fun and provide instructional tools
 - ☐ The Online Institute is limited to 35 participants, so sign up early!
 - ☐ Sign up for the program NOW to be eligible for small grants.
- Engage your classes with Belle Isle Aquarium educational activities.
- Participate in research to assess teachers' and students' STEM interest, knowledge, and behavior. Participation in research activities is voluntary.

DPSCD Office of Research, Evaluation, Assessment and Accountability has approved this project.







Register on-line at www.BIAquariumSTEM.org
Space is limited to 35 teachers. So sign up early.

Project title: "Promoting Student Interest in Science and Science Careers Through a Scalable Place-Based Environmental Educational Program at a Public Aquarium" This National Science Foundation Project includes funding for:

- - ♦ Teacher Professional Development (4-day Summer Institute & I-day Fall workshop).
 - ♦ Place-Based Activities (usually Class Field Trips) to the Belle Isle Aquarium (BIA).
 - ♦ Project and field trip grant opportunities, Professional Learning Communities, and more.
 - Research to determine changes in teachers and students relating to science and STEM career attitudes, behavior, and knowledge.

4-Day Summer Institute by the Belle Isle Aquarium (August 3 – 6, 2020)

The Institute will meet M-Th, 9 am-3:30 pm. Due to DPSCD's decision to offer no in-person professional development this summer, we are moving the Summer Institute ONLINE. Each day we will meet online from 9 am - noon, with breaks and breakouts, then go off-line for lunch and assigned self-directed activities offline until 3 pm, reporting back and sharing from 3 to 3:30 pm. The Institute is designed to enhance pedagogy and knowledge of content, science processes, and science careers of 5th grade classroom teachers. Activities include exploration of aquatic systems, field trips, data collection and analysis, and hands-on experiments. Science, social studies, math, language arts, and technology standards will be woven into the Institute, including discussions with experts and science career role models.





To learn more about our Summer Teacher Institute, please view our award-winning STEM-for-ALL Video about it, at https://stemforall2020.videohall.com/presentations/1753.

This summer many of the hands-on experiences at the Institute will be done as "do it yourself activities" with materials that will be sent to you before the Institute, to give you as meaningful an experience with your colleagues as previous Institutes.







Field Trips to the Belle Isle Aquarium

Your students will dive into the 5th grade Next Generation Science Standard on "Matter and Energy in Organisms and Ecosystems." We've converted our in-person field trip to two virtual field trips, at https://www.biaguariumstem.org/virtual-field-trip.html, but will resume in person when allowed. Students explore food webs utilizing our exhibit animals and analyze how matter moves through an aquarium. Students will meet scavengers, decomposers, and invasive species and virtually conduct water quality tests. During their field trip at the Aquarium,

students will also have the opportunity to meet our STEM professionals, ask questions, and discuss

For more information, contact:

possible science careers.

Belle Isle Aquarium Field Trip Program Coordinator: Amy Emmert, Belle Isle Conservancy CONSERVANCY emmerta@belleisleconservancy.org



Summer Institute Coordinator: Joan Chadde, jchadde@mtu.edu Michigan Technological Institute



Register on-line at

www.BIAquariumSTEM.org PD, pay, and project ideas and grants

APPROVAL PERIOD



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