

Teacher Professional Learning



Ignite Your Students' Interest in Science through Field Trips & STEM Role Models at the **BELLE ISLE AQUARIUM**

**ALL 5th Grade Teachers in DPSCD are Invited to Participate:
4-Day Summer Teacher Institute, Class Field Trips, and Follow-up Activities**

APPLICATION DEADLINE:

July 5, 2019

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

SIGN UP NOW

*even if you can't participate in
this summer's institute.*

ON-LINE REGISTRATION:

www.BIAquariumSTEM.org



4-Day Summer Teacher Institute

Teachers will be randomly selected to
attend one 4-day Institute in 2019 or 2020,
taking into account your availability.

**The 2019 teacher institute will be:
8:30 am-3:30 pm, M-Th, Aug 5-8, 2019**

**Participating in a Summer Institute
is required before bringing your class
to the Belle Isle Aquarium.**



For more information, contact:

Sandra Yarema, co-Project Director

Jeffrey Ram, co-Project Director

Wayne State University,

sandra.yarema@wayne.edu

Subject line: BIA Education Research

**WAYNE STATE
UNIVERSITY**

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 class field trips and place-based learning activities.

How Teacher Participants Will Benefit:

1. Participate in a 4-day Summer Teacher Institute on Belle Isle in 2018 or 2019.
 - a. Gain new knowledge and skills through presentations, hands-on activities, field trips, and lesson plan development.
 - b. **Receive classroom supplies, activity guides, and other resources.**
 - c. Receive **\$800 for attending a summer institute**, \$200 refresher and **up to \$1100 total** in stipends for participation over 2 years.
 - d. Choose to earn **24 SCECHs OR 2 graduate credits** from Michigan Technological University at no additional cost, with completion of course requirements (assigned reading and preparation of lesson plans).
2. **Bring your class on a field trip to Belle Isle Aquarium (BIA)** to engage your students in scientific investigations, science career explorations, and hands-on activities.
3. Opportunities for **\$500 grants** to develop classroom projects.

Program Requirements of Teacher Participants:

- Attend one 4-day Summer Institute on Belle Isle in 2018 or 2019.
 - The NSF project will assign which year
 - The Institutes are limited to 35 participants each, so **sign up early!**
 - Sign up for the program NOW** and indicate your availability for each year.
- Bring one or more classes on a field trip to the Belle Isle Aquarium.
- Participate in research activities to assess teachers' and students' STEM interest, knowledge, and behavior. Participation in this project is voluntary.

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



sponsored by the Erb Family Foundation

Register on-line at **www.BIAquariumSTEM.org**

by July 5, 2019

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 & 1-day Fall workshop).
- ◇ Class Field Trips to Belle Isle Aquarium (BIA).
- ◇ Place-based learning activities related to the Aquarium—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 at Belle Isle Aquarium (August 5 – 8, 2019)

The Institute will meet **Mon-Th, 8:30-3:30 pm.** It is designed to enhance content knowledge and pedagogy skills of 5th grade classroom teachers to teach about aquatic systems (e.g., lakes and ponds on Belle Isle and at the Belle Isle Aquarium) via field trips, data collection and analysis, and hands-on activities. Science, social studies, math, language arts, and technology standards will be woven into the Institute, including discussions with experts and science career role models.



2017 summer institute



Field Trips to the Belle Isle Aquarium

Your students will dive into the 5th grade Next Generation Science Standard “Matter and Energy in Organisms and Ecosystems” both in our gallery and our ecosystems lab. Students design food webs utilizing our exhibit animals and explore the phenomena of how matter moves through an aquarium setting. Students will get their hands wet and dirty, literally, as they meet scavengers, decomposers, and invasive species and conduct water quality tests. During their field trip, students will also have the opportunity to meet our STEM professionals, ask questions and discuss job opportunities for their future.

For more information, contact:

Belle Isle Aquarium

Field Trip Program Coordinator:

Amy Emmert, Belle Isle Conservancy
emmert@belleisleconservancy.org



Summer Institute Coordinator:

Joan Chadde, jchadde@mtu.edu
Michigan Technological Institute



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APPROVAL PERIOD

AUG 30 2018

JUN 14 2019

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INSTITUTIONAL REVIEW BOARD