

Winter Workshop 2019

STEM and EE: Diving into Data with Authentic Applications

February 22-23, 2019

Drake University
Des Moines, Iowa



ICEC
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EDUCATION COALITION

Explore the integration of environmental education and STEM (E-STEM) using authentic data to create real world context for developing critical thinking and problem-solving skills. E-STEM inspires young people to learn, experience, explore, and help solve local community challenges through environmental education, citizen science activities, and project-based learning. Intensive, hands-on "deep dives" will help you leave ready to begin using authentic data and E-STEM in your teaching.

Workshop Features

- Grade-level "Deep Dives" giving participants hands-on experience with tools, resources, apps, and data sources, collection, and analysis
- Field trips and investigations
- Panel discussions with teacher STEM externs and hosts
- Inspiring expert speakers (see bios on next page):

Jeff Weld
Iowa Governor's STEM
Advisory Council

Dr. Gabriele Villarini
Iowa Flood Center

"Deep Dive" Topics

Elementary School:
Animal Types,
Characteristics,
Behaviors, and Habitats

Middle School:
Water and Water Quality

High School:
Climate Change

Recertification credits available through Heartland AEA.

Discounted registration ends February 5th!

iowaee.org/whats-happening

Expert Speakers

Jeff Weld

Executive Director

Iowa Governor's STEM Advisory Council



Dr. Weld is the former STEM Education Policy consultant for the White House Office of Science and Technology Policy. He spent a year leading the production of America's Strategic Plan for STEM Education, published in late 2018.



GOVERNOR'S STEM ADVISORY COUNCIL

dedicated to building a strong STEM education foundation for all Iowans

Gabriele Villarini

Director, IIHR—Hydroscience & Engineering
Iowa Flood Center



Dr. Villarini's research focuses, in part, on climate change and tropical cyclones, especially as related to flooding. He works with faculty in the University of Iowa College of Education to develop professional development opportunities for Iowa teachers to learn how to use real data in the classroom. Dr. Villarini will present on the Iowa Flood Center, its flood-related tools, and evidence of climate change.

