BEING A MEMBER OF A CONSORTIUM:

An exponential effect in partnerships fostering and supporting student engagement, problem-solving skills, college preparation, and career exploration

Dr. Jeanette Schnars, Regional Science Consortium - Executive Director Sarah Skelton, Iroquois School District - Gifted Coordinator



WHAT IS THE REGIONAL SCIENCE CONSORTIUM (RSC)?

- Located on the shores of Lake Erie, the RSC is a 501(c)3 non-profit organization facilitating research, education, and collaborations with RSC members. The RSC is not directly affiliated with an institution, but instead is a consortium of institutions seeking collaborations in scientific research. Organized in 2004, the RSC moved into the research wing of the Tom Ridge Environmental Center prior to its opening in May 2006. Since that time, the RSC has been an active part of the scientific research community fostering numerous collaborations on a variety of topics.
- The mission of the RSC is to promote and enhance our knowledge and understanding of the Lake Erie and Ohio River Basin ecosystems through <u>research</u> and <u>education</u>. The RSC accomplishes this by:
 - Facilitating collaborations among researchers, K-12 educators, and the community
 - Providing centralized facilities and equipment
 - Exchanging of scientific information through conferences, courses, workshops, and other public events
 - Offering educational opportunities for students, researchers, and teachers
 - Advancing the understanding of watershed-related issues
 - Focusing on Lake Erie and the tri-state region
- http://www.regsciconsort.com/





WHO IS THE RSC?

- Formed in February 2004
- Members
 - Colleges/Universities (13)
 - State and Federal Agencies (6)
 - School Districts (9)
 - Education/Outreach/Research Organizations (5)





WHERE IS THE RSC?

- Located on the Shores of Lake Erie, at the gateway to Presque Isle State Park
- Located in the Research Wing of the Tom Ridge Environmental Center (TREC)









THE RSC IS HOUSED IN TREC, BUT...

- The Regional Science Consortium is located at the Tom Ridge Environmental Center
- The TREC is a Commonwealth building, maintained and operated by the PA DCNR
- The RSC is an independent, nonprofit collaborative organization housed in the Research Wing of TREC
- The RSC focuses on Research and Education in the region
- The RSC facilitates Research and Education with its 33 member organizations





THE RSC RESEARCH WING

<u>Lab Space (7,000 sq. ft.)</u>

- Cell Culture Lab
- Chemistry Lab
- Instrumentation Room
- Microscopy Lab
- Plant Lab
- Aquatics Lab
- Sample Prep Lab
- Mud Room
- Marina Field Station















THE RSC MEMBERSHIP

Full Members

- Allegheny College
- California University of PA
- Edinboro University of PA
- Fairview School DistrictFort LeBoeuf School District
- Gannon University
- Grove City College
- Harborcreek School District
- Indiana University of PA
- Iroquois School District
- Lake Erie College of Osteopathic Medicine
- Mercyhurst University
- Millcreek Township School District
- North East School District
- Penn State Erie
- PA Sea Grant
- PA Dept. Conservation and Natural Resources
- PA Dept. Environmental Protection
- PA Fish and Boat Commission

- School District of The City of Erie
- Slippery Rock University of PA
- Union City School District
- U.S. Geological Survey
- University of Pittsburgh Bradford
- Warren School District

Associate Members

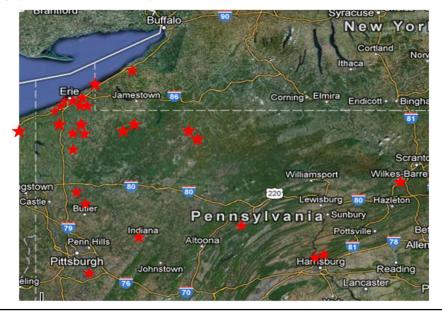
- Cleveland Museum of Natural History
- · Erie County Dept. of Health
- State University of New York Fredonia
- Wilkes University

Affiliate Members

- Barber National Institute
- Environment Erie
- Erie Bird Observatory
- Erie County Conservation District
- Purple Martin Conservation Association



THE RSC MEMBERSHIP





RSC MEMBER RESOURCES

- Lab and field equipment
- Grant opportunities
 - Research and Education
- Boat Opportunities RSC Science (4), Environaut (20), Flagship Niagara (60)
- Natural History Museum Specimens and Herbarium
- Experiences on current research issues
- Interactions with researchers and experts in the field
- Customizable educational experiences to best benefit your students

- Big Green Screen Theatre (similar to IMAX)
 - Educational films with curriculum















COLLEGE PREP WORKSHOP SERIES

- Works with students in grades 7-19
 - Develops and prepares competitive application for college admittance, honors colleges, and scholarships
 - Activities/presentations targeted for each grade level
 - Three workshops student centered offered in the series
- Participation for subsequent yearsDifferent activities each workshop
- Upon completion of the series- developed comprehensive portfolio: including, resume, cover letter, application essays

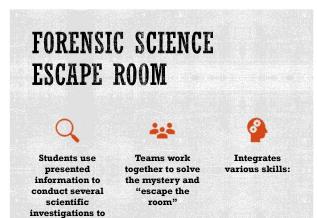
WORKSHOP TOPICS INCLUDE:

- Career Interest Inventory Survey PSU-Behrend
- Intro to College Mathematics PSU Behrend
- Critical Thinking Activity: robotics Grove City College
- · College Freshman Seminar Mercyhurst University & Gannon University
- The Common App Introduction Regional Science Consortium
- Into to English Gannon University
- Resume Building PSU Behrend
- Round Table Discussions with College Students Mercyhurst University, Gannon University, PSU Behrend
- Integrates Standards for Career Awareness and Education 339 Plan
- Free Dual Enrollment Course
- Participate in 3 out of 4 activities throughout the year

• Video: https://www.youtube.com/watch?v=iMIyd0VNlvY

• Video: https://www.youtube.com/watch?v=uzsN2L6 4Lk





Student teams of four

Teamwork
Problem Solving
Hands-on STEM
Investigation
Critical Thinking

solve a mystery



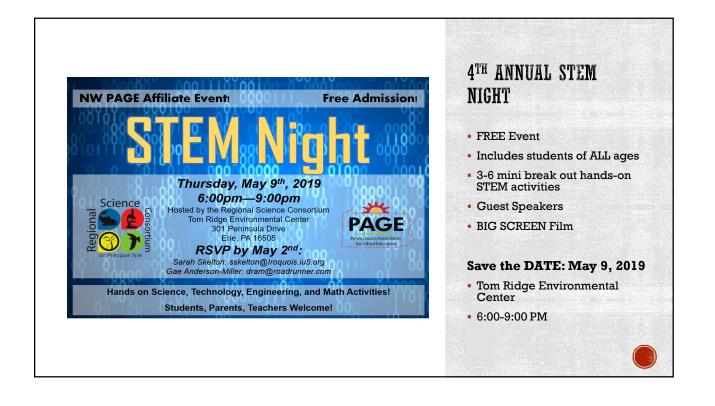












MINI PAGE CONFERENCE



- SAVE the DATE May 9, 2019
- Erie, PA Tom Ridge Environmental Center, Regional Science Consortium
- 12:00-4:30 pm
- Cost \$50
- Includes light breakfast and lunch
- Mini PAGE conference
 - Educators
 - Parents
 - Administrators
 - Affiliate members
- 4 break out sessions
 - Topics may include:
 - Acceleration
 - Funding for Gifted Programs/ Affiliates
 - College/ Career Preparation
 - Social/ Emotional Needs of Gifted Students





MEMBERSHIP — Long Distance

- Experiences on Lake Erie
- Presque Isle State Park Science
- STEM Days at your school
- Weekend Field and Lab Experiences
 - Assistance with hotel reservations and discounted rates
- Equipment for the Classroom Aquaponics
- www.RegSciTV.com
 - Live broadcasts
 - Archived Videos
- Current Long-Distance School Districts: Warren SD and North East SD

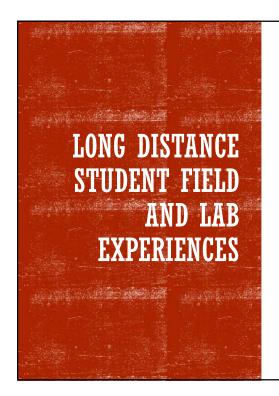












Example Agenda (Topics may vary)

- 8:00-10:00 Travel to RSC and Arrival
- 10:00-10:30 Introduction to Topic (Harmful Algal Blooms)
- 10:30-11:30 Boat Sampling on Lake Erie and Presque Isle Bay
- 11:30-12:00 Lunch
- 12:00-1:00 Field Sampling; Proper Technique, Collect Water Samples; Collect Water Chemistry data
- 1:00-2:30 Field Work: Wetland Restoration Planting
- 2:30-4:00 Lab Analysis; Process all water samples
- 4:00-4:30 Result Analysis and Summary
- 4:30-6:30 Departure and Travel
- Customize to any amount of time

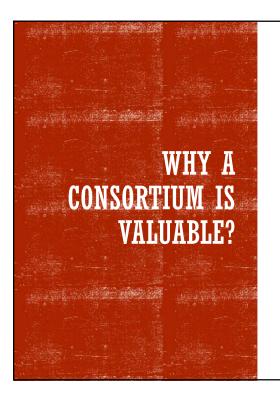


RSC FIELD TRIP TO YOUR STUDENTS!



- The RSC Staff comes to your school!
- Example Activities
 - STEM day for one grade level; rotate through three stations
 - Take-over the Science classroom for a day
 - Mobile HAB (Harmful Algal Bloom) Lab
 - educational interactive display





- Diverse membership allows School Districts to interact with Colleges/ Universities in a different way
- RSC invents and facilitates events incorporating multiple member types
- RSC has the ability to create events/experiences that a single high school alone could not provide
- Awards and Acknowlegements
 - Iroquois Gifted Students Pennsylvania Governor's Award for Environmental Excellence 2016
 - Fairview School District PJAS State Competition
 - Millcreek School District Student researcher accepted to the Penn State Schryer's Honor College











THANK YOU!

- Questions?
- How can we assist?
- Need more information:Sarah Skelton, ISD Gifted Coordinator
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 - Dr. Jeanette Schnars, RSC Executive Director
 Jeanette@RegSciConsort.com
 - Regional Science Consortium
 - www.RegSciConsort.com
 - www.RegSciTV.com

