



Luzerne Intermediate Unit 18

## **STR<sup>2</sup>EAM: Evidenced-Based Practices Conference**

**K-12 Science, Technology, Reading, Writing, Engineering, Arts and Mathematics**

**THURSDAY, AUGUST 13, 2015**

**Location: O'Hara Hall – King's College Education Department**

**Registration & Refreshments: 8:00 a.m. – 8:30 a.m.**

**Sessions: 8:30 a.m. to Noon**

As a tune up for elementary and secondary school teachers before the 2015-16 school year, the King's College Education Department will partner with the Luzerne Intermediate Unit 18 to host an "Evidence-Based" conference from 9 a.m. to noon on Thursday, August 13th. The workshops will be taught by members of the King's College faculty as well as teachers from member schools of the Luzerne Intermediate Unit 18.

- Participants will chose three (3) of the 17 sessions being offered at the conference (schedule and description below).
- Registration\* for the conference is \$25. Registration for undergraduate students is \$20.
- Pre-registration is encouraged, however walk-in registration will also be accepted.
- The LIU18 will facilitate the reporting of the three (3) Act 48 hours.
- Contact King's at (570) 208-5983 or [JaniceGavlick@kings.edu](mailto:JaniceGavlick@kings.edu) for more information

### **Session Descriptions and Schedule**

#### **8:30 – 9:30 a.m.**

**Web/Mobile Tools to Support STEM-based Exploration in the Classroom.** Presenter: Richard Mackrell, LIU18 Program Specialist. This session will demonstrate a multiple of technology resources available to facilitate simulations, experimentation, and design of STEM lessons.

**Cross-Curricular Connections.** Presenters: Cindy Fetchko, Kayla Riccuitte, Brianna DePierro, Jamie Belles, Erin DeJoseph-Hazleton Area Academy of Sciences. Building on two years of experience in a high school STEM Program, this cross-departmental teaching group will share activities emphasizing higher order thinking, extended learning, the Socratic Seminar Method, reading lists and various resources.

**The WWV STEM Journey.** Presenters: Sandy Labashosky, Doug Shook, Theodore Settas, William Smedley, Tim Needle, Chuck Suppon, Jr. – Wyoming Valley West STEM Team. This team's process for development of their STEM program will be discussed sharing critical information from STEM Programs the team visited (i.e., Lake Placid and NASA).

**Learning the “Write Way” through Kid Writing.** Presenter: Cassie Catania, Kindergarten Teacher – Hazle Twp. Early Learning Center. Participants will explore the Kid Writing approach to phonics, journal writing, mini-conferences, and the utilization of lines and symbols to gain an understanding of beginning writing development. Dr. Richard Gentry’s scale of writing development and the “Monster” Test will also be discussed.

**STEM Thinking.** Presenter: Brian Jacobs, Mathematics Teacher - Hazleton Area Academy of Sciences. This session will highlight and discuss successful models of practice within a high school STEM statistics classroom. Participants will explore the mathematical practices and STEM-based strategies to discover how STEM thinking and learning can be applied to any content classroom.

### **9:45 – 10:45 a.m.**

**World Wide Web .... Quests!** Presenter: Jenn Mason, Biology Teacher - Hazleton Area High School. A well designed WebQuest can harness knowledge from the internet and scaffold learning to guide students’ self-discovery of information. Note taking can be a long tedious process OR it can be interactive, fun and technology based. Learn how to create WebQuest about resources for development of the WebQuest to meet the needs of your classroom.

**The Lit-Hit List: Top 10 Ways to Incorporate Technology in Literacy.** Presenters: Kayanne Barilla, Literacy Dept. Chair -Wyoming Seminary Lower School; Janel McCormick & Elizabeth O’Malley, Wyoming Seminary Lower School. Our top-ten list of project-based ideas for engaging and meaningful tools for any classroom into the 21<sup>st</sup> Century with the rigors of national standards.

**Integrating STEM at the High School Level.** Presenter: Rachel Bartron - Director, Maslow STEM School at Wyoming Seminary. The launching of a ninth grade STEM Foundations course will be presented from the perspective of the research, the development and the implementation. This session will include the rationale behind decision-making as well as the expected and unexpected consequences of this curricular change.

**Cruising to Common Core with the Magic School Bus.** Presenter: Jane Mencer, Freeland Elementary/Middle School. Activities with the *Magic School Bus Series* will be shared emphasizing hands-on learning centers that allow children to engage in activities that develop vocabulary, fluency, and comprehension.

**Authentic & Meaningful Learning Through Performance Tasks.** Presenter: Dr. David Reese, Chief Academic Officer for Defined Learning. This session will examine performance, project-based tasks based upon the *Understanding by Design* template promoting deeper learning. Authentic connections utilizing contextualized language tasks, built upon Literacy Design Collaborative templates and real world video will be shared with tasks aligned to a standards-based curriculum that promotes meaningful learning (not just content coverage).

**Star Gazing...Integrating Art into the Science and ELA classrooms.** Presenter: Suzanne McCabe – LIU18 Curriculum Specialist. This session will focus on embedding art into the K-5 classrooms utilizing a combination of literature based texts, informational texts and visual literacy. Participants will be engaged with a hands on approach; however all artistic abilities are encouraged to attend.

### **11 a.m. – Noon**

**Getting Parents In the Know for Students - NOW.** Presenters: Sarah Pryor, Special Education Teacher & Christina Woronko, English Teacher - Lake-Lehman Jr./Sr. High School. Offers ideas for paperless, free, and easy-to-use web-based tools/applications for grading, lesson planning, presenting and reviewing material, and monitoring student behavior while giving parents an active role in the process.

**Fractal Antenna.** Presenters: Keith Eberts - Technology & Engineering Teacher, Meyers H.S., Sam Elias - Math Teacher, Meyers H.S.; Bill Hatzis - Math /Physics Teacher, Coughlin H.S., Jennifer Kemmerer - Math Teacher, Coughlin H.S. Participants will be whisked through several projects for STEM classes: Using volumes of polyhedra to predict the waterlines of homemade boats, building fractal antennae for your TV, relating M&M catapults and quadratic equations, figuring the weight capacity of canoes, finding unknown heights with an altimeter, and estimating the height of soda bottle rockets with your fists and trig.

**Informational Text in STEM Disciplines: What’s My Strategy.** Presenter: Dr. Cecilia Mecca, Curriculum Specialist, NEIU19 and Douglas Womelsdorf, Curriculum Specialist - NEIU19. Students with experiences in STEM disciplines often engage in

complex informational text. This presentation will provide evidence-based practices to help students engage in these complex texts with a focus on individual strategies and the relationship between strategies.

**Power Up with Graphic Narratives (Novels).** Presenter: Brian Stiles, English Instructor – King’s College. Building on the growing popularity of graphic novels this session will examine the value of graphic novels. Additionally, teaching strategies and ideas for their cross-curricular integration will be shared to enhance reading interest for young adult readers.

**Teaching Writing at the Elementary Level.** Presenter: Annie Moran, Maple Manor Elementary/Middle School. Through the use of a Kid Writing initiative, various strategies and procedures for teaching writing to our youngest learners will be discussed. Grade levels K-3 will be focused on during this session. Please bring crayons for this make and take session.

**Comparative Education: A Global Perspective.** Presenter: Megan Borsuk, Director of the King’s College Study Abroad Program. This session examines major concepts and current trends in comparative education and analyzes various elements of societies that impact the educational system. The King’s Fulbright-Hays Project in Uganda 2014 will be highlighted.

**\*Complete and mail the form below with your check payable to King’s College Education Department**

**Janice Gavlick / Education Dept.  
King’s College  
133 North River Street  
Wilkes-Barre, PA 18711**

**Phone: 570-208-5983**

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**Name** \_\_\_\_\_ **PPID** \_\_\_\_\_

**Address** \_\_\_\_\_

**E-Mail** \_\_\_\_\_ **Phone** \_\_\_\_\_

**School(if employed)** \_\_\_\_\_

**Registration Fee Enclosed:** \_\_\_\_\_ **\$25.00**      \_\_\_\_\_ **Reduced Rate for Undergraduates \$20.00**

\_\_\_\_\_ **\$20.00 Early Bird Registration by June 30, 2015**

**Checks payable: King’s College Education Department**