

Discovering STEM: A Holistic Approach

Engineering Design Process & Project Based Learning



A learning experience for PreK-20 educators:

June 29-30, 2015

Hampton Inn

49 Olean Street

East Aurora, NY 14052

This is the anchor event for the **STEM/STEAM Immersion Experience** through July 1 (see below*).

In this two day session, PreK-20 educators will actively explore components of a holistic approach to STEM education. A preview of the New York STEM Quality Learning Rubric will be an integrated reference point throughout the sessions.

On the first day, educators will begin to develop common language toward articulating a philosophy of STEM education, particularly focusing on a holistic, integrated approach to STEM teaching and learning. Special attention will be given to the Engineering Design Process (EDP) in engaging students in STEM.

On the second day, educators will develop an awareness of the characteristics of Project Based Learning (PBL), which aligns specifically to the expected outcomes of the NYS STEM Quality Learning Rubric. As a culminating activity, educators will begin collaborative discussions to determine the support required for future work in implementation of EDP and PBL and the statewide initiatives in STEM education.

This two-day anchor workshop will provide educators with essential grounding in pending state-level changes in STEM education related to the Science Strategic Plan, new Diploma Pathway Options and the NYS STEM Quality Learning Rubric.

This learning experience is presented by WNY STEM and SUNY Fredonia with sponsorship from Siemens and others. The program is delivered by a national professional development team from **ASSET STEM Education**.

ASSET is a leading, recognized STEM education improvement nonprofit established more than 20 years ago by the Bayer Corporation and a coalition of partners in Pittsburgh. ASSET programs align with national and state standards and are results-oriented, research-grounded and inquiry-based.

*STEM/STEAM Immersion Experience

This is a unique professional learning experience from **June 29 - July 1, 2015** that will extend the anchor workshop learning to include these options and more:

- Free tours of model STEM programs
- Free tours of well-known business sites using advanced technology and EBD
- Free tours of Explore & More Museum and the Roycroft Inn
- Free mini-workshops

Visit wnystem.org for more information.

**WNY STEM/STEAM Immersion Experience
Registration Information**

Includes:

- Two-day Holistic STEM Workshop with ASSET STEM Education (9:30AM – 3:30PM on June 29-June 30)
- Optional mini-workshop with the Institute for Learner Centered Education (July 1)
- Optional mini workshops on career pathways, new instructional technology, robotics and more
- Optional tours of two advanced engineering facilities
- Optional tours of the Roycroft Inn and Explore & More Museum
- Preview Copy of the NYS STEM Quality Learning Rubric
- Breakfast and Lunch during the ASSET STEM Workshop at Hampton Inn
- Professional Development Certificates for all learning experiences
- Also enjoy notable sites such as:
 - Salut – complimentary wine tasting for the group
 - Fisher-Price & Vidler's
 - ...and more (See details at wnystem.org.)

Fee: \$350 per person

Reduced rate: \$300 per person for teams of three or more

Seating is limited and registration may close early.

To register, send form and/or payment to:

WNY STEM Hub

P.O. Box 12

Elma, New York 14059

Purchase Orders are accepted.

Receipt of your registration form will secure your seat, pending payment or Purchase Order. Questions may be directed to Michelle Kavanaugh at mkavan61@aol.com or (585)690-7311.

Overnight Room Accommodations: A block of guestrooms at Hampton Inn is available and can be reserved by calling (716) 655-3300.

Mail this form to PO Box 12, Elma NY 14059:

Name: _____

Affiliation: _____

Please check:

_____ Payment Enclosed

_____ Payment Pending (Explain):