

Westminster College

IQ-STEM: Increasing Quality STEM Secondary Educators in Western Pennsylvania. National Science Foundation Robert Noyce Teacher Scholarship and Mentoring Program.

2016 IQ-STEM: WEEK AT A GLANCE

MON: [JUN 20](#)

TUES: [JUN 21](#)

WED: [JUN 22](#)

THUR: [JUN 23](#)

FRI: [JUN 24](#)

MONDAY

8:45 AM Coffee and Pastries

9:00 AM Welcome and Introductions

9:15 AM Dr. SaraRose Lynch – **Best Practices**

12:00 – 12:45 Lunch

1:00-2:45 PM Dr. Kerri Duerr, Dr. SaraRose Lynch, and Ms. Brooke Mancuso – **Citizen Science**

2:45 – 3:00 Wrap up

TUESDAY

8:45 AM Coffee and Pastries

9:00 AM **Dr. H. Richard Milner IV** (also known as Rich) is Helen Faison Endowed Chair of Urban Education, Professor of Education, Professor of Social Work (by courtesy), and Professor of Africana Studies (by courtesy) as well as Director of the Center for Urban Education at the University of Pittsburgh. In addition, he is a policy fellow of the National Education Policy Center. His research, teaching and policy interests concern urban education, teacher education, African American literature, and the sociology of education. In particular, Professor Milner's research examines practices and policies that support teacher success in urban schools. Professor Milner's work has appeared in numerous journals, and he has published five books. His book, published in 2010 by Harvard Education Press, is: *Start where you are but don't stay there: Understanding diversity, opportunity gaps, and teaching in today's classrooms* is a bestseller and represents years of research and development effort. Currently, he is Editor-in-chief of *Urban Education* and co-editor of the *Handbook of Urban Education*.

12:00 – 12:45 Lunch

1:00-2:00 PM Ms. Brooke Mancuso – **Apps for the Classroom**

2:00-2:45 PM Group activity – **Teaching Tips: Motivation and Management**

2:45 – 3:00 PM Wrap up

WEDNESDAY

7:15 AM Departure for Clarion University – Educational Leadership Conference, STEAM

9:00 AM Experience the excitement of a regional technology conference and share best practices with your peers throughout the state at the RIU6 Education Leadership Conference. More than 20 break-out sessions, nationally renowned keynote speaker – Mark Dohn, a vendor area and participant prizes!

Lunch included

4:00 PM Approximate return time to New Wilmington

THURSDAY

8:45 AM Coffee and Pastries

9:00 AM Abbey Alter and James Willaman

9:15 AM

Science on a String

A metal string, a Coke bottle, and electric components are strewn about. 90's guitar icon Jack White steps into frame and hammers the pieces together on a rough slab of wood. The contraption is then plugged into a weird looking metal box and screams out. Jack then looks at the camera and asks, "who needs to buy a guitar?" Not the people taking part in our workshop because we're going to design, build, and then play our own music on a "Jack White guitar" through homemade "fuzz boxes".

This workshop will have 3 components: (1) we'll use visual art and design to customize our guitars; (2) we'll explore the science behind how magnetic fields are changed into electronic pulses; and, (3) we'll investigate how string tension and length translate into pitch.

We'll also learn basic woodworking, soldering, and construction techniques as we build our own instruments.

12:00 – 12:45 Lunch

1:00-2:45 PM **Science on a String** cont.

2:45 – 3:00 Wrap up and Exit Survey

FRIDAY

7:45 AM Departure for Jennings Environmental Education Center

8:30 AM

12:45 PM Lunch at North Country Brewing Company, Slippery Rock, PA

2:00 PM Approximate return time to New Wilmington