

# Connecting STEM Learning to the Community

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# Dr. William Hunter

## Illinois State University



# Connecting STEM Learning to the Community

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- 8:30 AM Plenary Session – *Grand Ballroom*
- Dr. Jessica Krim, Southern Illinois University at Edwardsville
  - Dr. Sandra Richardson, National Science Foundation
  - Dr. William Hunter, Illinois State University
  - Mr. Nick Witt, Kalamazoo Central High School

9:30 AM Groups Debrief Site Visits  
*Grand Ballroom, Boone, Blanchette I & II*

10:00 AM Smaller Groups Generate  
Lessons and Proposals – *Grand  
Ballroom, Boone, Blanchette I & II,  
and Salon E & F*

Session for PI's – *Discovery Room*

9:30 AM Dr. Sharon Vestal, South Dakota State University, will present on Using a Professional Learning Community to Retain STEM Teachers

10:15 AM Dr. Sandra Richardson, National Science Foundation, will share Robert Noyce Teacher Scholarship Program Updates

11:00 AM Dr. Kim Nguyen, Indiana University Purdue University Indianapolis, and Dr. Gillian Roehrig, University of Minnesota, will discuss Noyce Research Collaboration -- Collective Impacts on STEM Teaching and Learning

11:30 AM Break

# Groups Breakout

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Three tasks for the next session:

1. Share ideas from one group to the other.
2. Take the time to develop lessons you could teach in your own classroom. In school, in college, in teacher education.
3. Dream ways in which some money would help your lessons happen.



# Groups Breakout

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1. One person in each group serves as the spokesperson.

Share what you experienced at the sites with the other group.



# Groups Breakout

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2. Take the time to develop lessons you could teach in your own classroom. In school, in college, in teacher education.

You have 2 hours to formulate plans.



# Grant Awards Available

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3.

**\$3,000 to \$8,000**

awards available



# Grant Awards Available

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3.

**\$3,000 to \$8,000**

Proposal deadline: November 15, 2017.



# Requirements for Proposals

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Successful proposals:

Partnerships among schools in two different districts at a minimum but preference will be given to those proposals that cut across geographical and ethnographic lines.





# Requirements for Proposals

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Successful proposals:

An innovative way to teach a practice/concept and have measureable indicators of success.



# Requirements for Proposals

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Successful proposals:

Connected to the field trip sites or similar installations in your own community.



# Requirements for Proposals

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Successful proposals:

Mechanisms for sustainability are incorporated



# Optional

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## Bonus Points in the Evaluation Rubric

- You show evidence of beginning to work with your students or partners on something **based upon this weekend's conference.**



# Optional

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## Bonus Points in the Evaluation Rubric

- ~15% (30/210 pts)
- 10 pts – Plan with partners
- 20 pts – Work with students
- 30 pts – Classroom/community activity with students



# Eligibility

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At least two people who are:

current or former Noyce Scholars, Fellows, PIs or other Noyce project personnel connected to a current or expired Midwest Robert Noyce Teacher Scholarship project.



# Awards

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Six to eight awards of \$3,000-\$8,000 per proposal

First funding cycle of \$50,000 December 2017.



# Awards

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A further \$25,000 grant in October 2018 and \$25,000 in December 2018.





# Expenses

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Eligible expenses include Travel, Supplies, Subscriptions, Software, Equipment, Honoraria.

Unlikely: salary and benefits for personnel



# Deadlines

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Proposal deadline: November 15, 2017.

Link in the Google drive on the  
Conference Links document.

Grant Program Website

<https://cemast.illinoisstate.edu/faculty/noyce-conference-grant.php>

Grant Submissions:

[https://illinoisstate.az1.qualtrics.com/jfe/form/SV\\_5neWAJPK5ize5jD](https://illinoisstate.az1.qualtrics.com/jfe/form/SV_5neWAJPK5ize5jD)

Grant Support Webinars:

<https://zoom.us/j/6071096974>



# Deadlines

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Proposal deadline: November 15, 2017.

Awards announced: December 15, 2017.



# Deadlines

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Proposal deadline: November 15, 2017.

Awards announced: December 15, 2017.

Paperwork complete: January 15, 2017.



# Deadlines

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First half of activities conducted:

February, March, April, May, 2018



# Deadlines

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1<sup>st</sup> half of activities conducted:

February, March, April, May, 2018.

Site visits: April, May, 2018



# Deadlines

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Online updates: April, 2018

Halfway program reports due: June 30, 2018



# Deadlines

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Second half of activities conducted:

August, September, 2018

All funds must be spent by September 30, 2018.





# Deadlines

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Final reports due:

October 13-14, 2018

at the Midwest Regional Noyce Conference  
here in St. Louis.



# Deadlines

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Final reports due: October 13-14, 2018  
at the Midwest Regional Noyce Conference

Lesson and unit plans uploaded to website:  
October, 2018



# Workshops to Assist You

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October 23    November 1, 7, 13

4:00 PM central time



# Workshops to Assist You

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October 23, Monday, 4:00 PM central:

## Idea Generation and Q&A

Timelines, developing a partnership, budget and eligible expenses, and ideas



# Workshops to Assist You

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November 1, Wednesday, 4:00 PM central:

**Measurable Objectives and Q&A**



# Workshops to Assist You

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November 7, Tuesday, 4:00 PM central:

## Assessment Methods Quantitative and Qualitative

What is evidence? What types can you provide?



# Workshops to Assist You

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November 13, Monday, 4:00 PM central:

**Open Q&A**



# Grant Awards Available

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# Groups Breakout

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- **Ballroom** – Red and Light Green
- **Boone** – Orange and Dark Green
- **Blanchette II** – Purple and Dark Blue
- **Blanchette I** – Gray and Light Blue

