



2022 Midwest Annual Robert Noyce Teacher Scholarship Program Conference

“Exploring Beneath the Surface: Going deeper into culturally relevant practices across the rural-urban continuum”

**Louisville and Cave City, KY
February 3 - 6, 2022**

PROGRAM AGENDA

Thursday, February 3 at Hilton Garden Inn, Louisville, KY (Louisville in the EST):

- 5:00 PM Onsite Registration until 9:00 PM
- 6:00 PM NETWORKING EVENING - Introductory Session with hors d'oeuvres
 - Dr. Jessica Krim, Southern Illinois University at Edwardsville

Friday, February 4 transition to Cave City Convention Center, Cave City, KY:

Bus Departure Time	Departure Location	Notes
9:00 AM	Hilton Garden Inn, Louisville, KY	Anyone attending Mammoth Cave tour must be on this bus or use personal transportation to arrive at Cave City Convention Center by 12:15PM.
12:00 PM	Hilton Garden Inn, Louisville, KY	This bus will make a brief stop at the Louisville Airport before heading to Cave City, KY
1:00 PM	Louisville Airport	Exit 1st floor baggage claim area and look for charter busses. Locate Jefferson Tour and charter bus with sign for “Noyce Conference – Cave City, KY”

3:00 PM	Louisville Airport	Exit 1st floor baggage claim area and look for charter busses. Locate Jefferson Tour and charter bus with sign for “Noyce Conference – Cave City, KY”
6:00 PM	Louisville Airport	Exit 1st floor baggage claim area and look for charter busses. Locate Jefferson Tour and charter bus with sign for “Noyce Conference – Cave City, KY”
8:00 PM	Louisville Airport	This is the last bus that will leave Louisville, KY for Cave City, KY

9:00 AM Bus leaves for 1 PM tour of Mammoth Cave National Park

Cave City, KY is in the CST

11:30 AM Check in at Cave City Hotels

12:15 PM Get on the bus to get to Cave City Convention Center

12:30 PM Grab Box Lunch for the Mammoth Cave National Park tour

12:40 PM Bus Leaves for tour of Mammoth Cave National Park from Cave City Convention Center

4:00 PM Bus returns from Mammoth Cave National Park tour to Convention Center

4:20 PM Poster Session with Coffee Service **(abstracts for the posters can be viewed on Whova App)**

Poster #	Author Name	Presentation Title	Institution Name
1	Tiffany Sulser and Craig Kirchner	A Sense of Place: Using Place based Instruction to Teach Life, Earth, and Environmental Sciences in Rural Elementary and High School Classrooms	Marion Junior High Unit #2
2	Adem Ekmekei	Teacher retention: The role of self efficacy, leadership, and social network	Rice University
3	Adem Ekmekei	Lessons Learned from the Rice University Noyce Master Teaching Fellows Program	Rice University
4	Rebekka Darner, Sarah Boesdorfer, and Allison Antink Meyer	Teachers Engineering Science Learning for All (TESLA): Reflections on a Noyce Workshop for Science Teachers	Illinois State University
5	Meteicha Green and April Bartnick	Robert Noyce Subgrant: How a year of Conservation and Creativity were Implemented at Two Rural Southern Illinois Schools	Southern Illinois University
6	Lauren Landando	Evaluating the Efficiency of the Robert Noyce Teacher Scholarship Program Using Scholar and Non-Scholar Student Evaluations	Lewis University
7	Remelia Arpino	Utilizing CRA Approach in Teaching Science Concepts to High School Students	Rice University
8	April Bartnick	Making the Tardi-Grade: Measuring Student Engagement, Fascination, and Competency Beliefs with Art Integration and Hands-On Science	Southern Illinois University Carbondale

9	Amy Telford	Diatoms Tell the Story: Students study lake paleolimnology by interpreting diatom data	Southern Illinois University at Carbondale
10	Aidan Link	Experiential Science: Using Manipulatives to Make Science Concrete	University of Arkansas
11	Amanda Gonczy, Dawn Kahler, Darci Merrilat, Lorie Hurley, and Jacqueline Huntoon	Co-generative dialogues: Mechanisms to Improve Student Engagement and Inspire Teachers During COVID	Michigan Technological University
12	Jae Park and Huseyin Colak	Incorporating historical and contemporary case studies in a unit plan to improve students' nature of science understanding and content acquisition	Northeastern Illinois University
13	Sylvia Fox and Huseyin Colak	Creating Confidence Through Inquiry: Connecting Preservice Elementary Teacher Self-Efficacy to Inquiry-Based Science Practices	Northeastern Illinois University
14	Sydney DelGhingaro and Alyssa Hoffmann	Research Experience for Teachers	Loyola University Chicago
15	Nicolle von der Heyde	Noyce Midwest Summer 2022 Workshops	Illinois State University

5:20 PM Posters moved to the hallway

5:30 PM DINNER / Keynote Speaker – *Grand Ballroom*

- Dr. Jessica Krim, Southern Illinois University at Edwardsville
 - Mr. Benjamin Winchester Rural Sociologist, University of Minnesota Extension, Center for Community Vitality 2001. Masters of Science, Rural Sociology from the University of Missouri, Columbia. 1995. B.A. Mathematics, Area of Concentration in Statistics from the University of Minnesota, Morris. Q&A will follow the presentation.

7:00 PM Open Network Session / 2022 Summer Workshop Preview (abstracts for the posters can be viewed on Whova App)

Table #	Presenter	Workshop Title	Institution Name
1	Nicolle von der Heyde	Noyce Midwest Summer 2022 Workshops - General information and registration	Illinois State University
2	Todd France	Math + Engineering Project-Based Learning	Ohio Northern University
3	Tuan Nguyen and Sherri Martinie	Data-driven Decision-Making Workshop	Kansas State University
4	Dorene Huvaere	Integrating Engineering & Robotics and Culturally Relevant Practices in Today's STEM Classroom	Lewis University
5	Faith Yarberry	Developing Scientific Knowledge Through Everyday Experiences	University of Central Arkansas
6	Jennifer Hernandez and Jessica Krim	Social Justice Teaching in the STEM Classroom	Southern Illinois University at Edwardsville
7	Janet Moore	Building and Extending Shared Experiences through Concrete Investigations – The Sequel	Illinois State University

8	Monica Medina	Connecting the Dots: Engaging Students in Community Asset Mapping and STEM Practices	IUPUI
9	Willy Hunter	Discussion and Information about Teacher Sub-Grants Program	Illinois State University

Saturday, February 5:

7:30 AM Breakfast available - *Grand Ballroom*

8:15 AM Panel of Students from Caverna High School – *Grand Ballroom*

- Moderated by Nicolle von der Heyde, Illinois State University

9:10 AM Session 1

- Strands 1, 2, and 3 Workshops

Session 1 - 9:10-10:00AM (abstracts for the presentation can be viewed on Whova App)					
Room Name	Time	Title of Presentation	Presenter(s)	Affiliation	Strand
West Hall A	9:10-10:00	Mathematical Surprises and Challenges	Timothy Pennings	Davenport University	1
West Hall B	9:10-9:25	Prompting transformative experiences to connect evolution to students' daily lives	Rachel A. Sparks and Rebekka Darner	Illinois State University	1
	9:27-9:42	Repurposing the Physics Classroom for Environmental Justice	Jasmine Jones	University of Illinois at Chicago	2
	9:44-9:58	The Eureka Factor: Student Engagement with Science as a Motivation for Preservice Teachers	Cody Hamilton Nygard	Bellarmino University	2
West Hall C	9:10-10:00	Pandemic! – An Interdisciplinary Unit for Middle School	Anjinette Piccirella and Amanda Gunning	Mercy College	2
Sunroom	9:10-10:00	FLORES: Engaging Families in STEM Learning...via Zoom	Johanna Vasquez; Terri Agravat; Amanda Gunning; Meghan Marrero	Trinity Elementary School	2
Kentucky Room A	9:10-9:25	Improving PSTs' Nature of Science instruction by developing of Graphic Novels	Helen Meyer	University of Cincinnati	3
	9:27-9:42	Transformative Induction Model for Developing Leaders in Science Teaching	Sabrina Stanley; Dennis Sunal	University of Alabama	3
Kentucky Room B	9:10-9:25	Unlearning Math as Exercise Grinding: Pre-Service Teachers' Experiences as Learning Assistants in Active Learning College Math Courses	Kelly Gomez Johnson, Emily VanHook, and Paula Jakopovic	University of Nebraska at Omaha	3
	9:27-9:42	Connecting Teachers with Noyce Scholars Through a Math Teachers' Circle	Thomas J. Clark	Dordt University	3

10:10 AM Session 2

- Strands 1, 2, and 3 Workshops

Session 2 - 10:10-11:00AM (abstracts for the presentation can be viewed on Whova App)					
Room Name	Time	Title of Presentation	Presenter(s)	Affiliation	Strand
West Hall A	10:10-11:00	Place Based Science for Social Justice	Lillian Sims; Randall Gibson; Shannon Smith; Helen Meyer	University of Cincinnati Main Campus	2
West Hall B	10:10-10:25	Transforming Deeper Future Ready Learning Through the 4C's	Jennifer Miller; Darissa Cervantes; Evelyn Perez; Ashley Quinones	Sul Ross State University	2
	10:27-10:42	Posing New Possibilities: Problem Posing through Young Adult Literature	Beth Warden	Illinois State University	1
	10:44-10:58	A novel faculty-student mentoring approach using photovoice and grit techniques to enhance student success	Gerard Dumaneas	The University of Scranton	1
West Hall C	10:10-11:00	Preparing STEM Teachers to Thrive in a Rural Community	Dr. Janet Stramel; Dr. Paul Adams; Mr. Earl Legleiter	Fort Hays State University	1
West Hall C	10:10-11:00	Applying the Philosophy of STEM for Students with Learning and Thinking Differences	Dr. Brad Christensen and Mrs. Cassie Snow	Hebron Christian Academy	1
Kentucky Room A	10:10-11:00	Mammoth Cave National Park and National Park Service Teaching Resources (the same workshop is offered in session 3)	Jennifer Shackelford	Mammoth Cave National Park	1
Kentucky Room B	10:10-10:25	Lessons Learned: Best Practices in NSF Noyce Project Management	Kimberly Baker, Katherine Stickney, and Deb Sachs	University of Indianapolis	3
	10:27-10:42	Summer-based Research Experiences to Equip Future STEM Educators to Better Meet the Needs of a Diverse Student Body	Scott Gehler; Olivia Ruffatto; Hayley Schlabowske; Michael Schroeder; Nathan Frank; Michael Egan	Augustana College	3
	10:44-10:58	Empowering teachers to transform STEM education in Southern Illinois through environmental sustainability research and classroom engagement	Renee Lopez-Swalls; Ingrid Felsl; David Gibson; Karen Renzaglia	Southern Illinois University at Carbondale	3

11:10 AM Session 3

- Strands 1, 2, and 3 Workshops

Session 3 - 11:10-12:00PM (abstracts for the presentation can be viewed on Whova App)					
Room Name	Time	Title of Presentation	Presenter(s)	Affiliation	Strand
West Hall A	11:10-12:00	CRTLs & STEM: What Do We Do Now?	Jennifer Hernandez	Southern Illinois University Edwardsville	1
West Hall A	11:10-12:00	Preparing STEM Teachers to Thrive in a Rural Community	Dr. Janet Stramel; Dr. Paul Adams; Mr. Earl Legleiter	Fort Hays State University	1
West Hall B	11:10-12:00	Transgender Students 101	Bri Saab	Loyola University Chicago	2
West Hall C	11:10-12:00	Math Magic: Engaging the Community and Classroom in Recreational Mathematics and Magic	Michael Matthews; Erin Barta; Emily Schultz	University of Nebraska at Omaha	2
Kentucky Room A	11:10-12:00	Mammoth Cave National Park and National Park Service Teaching Resources (the same workshop is offered in session 2)	Jennifer Shackelford	Mammoth Cave National Park	1
Kentucky Room B	11:10-11:25	Learning to Effectively Lead a Community of Practice: Outcomes from a Remote Intervention	Amanda Gonezi; Stephanie Tubman; Jacqueline Huntoon	Michigan Technological University	3
	11:27-11:42	Integrating SEL to Recruit and Retain Underrepresented Students in STEM	Anu A. Gokhale	Illinois State University	3

12:00 PM Strand 1, 2, and 3 Site Visit Schedule Information

12:30 PM Pick up Box Lunches - Grand Ballroom

12:30 PM Buses leaving for site visits from Cave City Convention Center

<i>Time at Site</i>	<i>Group 1 – Red - Hidden River Cave and the American Cave Museum</i>
1:00 – 4:00	Hidden River Cave and the American Cave Museum
	<i>Group 2 – Orange - National Corvette Museum and Historic Railpark & Train Museum</i>
1:00 – 4:00	National Corvette Museum and Historic Railpark & Train Museum
	<i>Group 3 – Yellow - Adventures of Mammoth Cave Zip Lines</i>
1:00 – 4:00	Adventures of Mammoth Cave Zip Lines

	<i>Group 4 - Blue - Sacred Seed Farm and Modern Farm Concepts</i>
1:00 – 4:00	Sacred Seed Farm and Modern Farm Concepts
	<i>Group 5 - Violet - Kentucky Down Under Adventure Zoo and Mammoth Onyx Cave</i>
1:00 – 4:00	Kentucky Down Under Adventure Zoo and Mammoth Onyx Cave

4:00 PM Strands 1, 2, and 3 return from Site Visits

4:15 PM Coffee and Snack Break – *Grand Ballroom*

4:15 PM 30 minutes of Site visit reflection led by your site leader – various rooms

5:00 PM DINNER available

6:00 PM Keynote Speaker – *Grand Ballroom*

- Dr. Jessica Krim, Southern Illinois University at Edwardsville
 - Dr. Sheneka M. Williams (Ed.D., 2007, Peabody College of Education and Human Development, Vanderbilt University) is professor and chairperson of the Department of Educational Administration at Michigan State University. Prior to accepting a position at Michigan State University, Dr. Williams spent the first 13 years of her academic career at the University of Georgia.

7:00 PM Early dismissal

Sunday, February 6 (Cave City, KY in the CST):

7:30 AM CST Breakfast Buffet available - *Grand Ballroom*

8:30 AM CST Plenary Session – 1 hour - *in Grand Ballroom*

- Dr. Jessica Krim, Southern Illinois University at Edwardsville
 - Dr. Pamela Buffington is the Director of Rural the Science, Technology, Engineering, and Mathematics (STEM) Initiatives for the US Division at Education Development Center (EDC) where she focuses on bridging research and practice with STEM researchers and practitioners particularly in service to the needs of rural schools and districts.

9:45 AM CST Concurrent (these sessions will be happening at the same time)

Session 4 - 9:45-10:25AM					
Room Name	Time	Title of Presentation	Presenter(s)	Affiliation	Strand
West Hall A	9:45-10:25	Integrating Unsolved Mathematics Problems into the Classroom	Jenna O'Dell and Todd Frauenholtz	Bemidji State University	1
West Hall B	9:45-10:25	What is in YOUR water?	Beth Warden; Leslie Reyes-Hernandez; Andrina Alvarado; Brynn Ginger	Illinois State University	2
West Hall C	9:45-10:25	PrBL: How to Create & Deliver a Unit to Students	Kim Hummons	University of Cincinnati Central Campus	1

Sunroom	9:45-10:25	This I Believe: Using Reflection Practices to Strengthen Practice	Antonio Castillo; Maksymilian Malec; Joseph Remeika; Sarah Wohler	Chicago Public Schools	1
Kentucky Room A	9:45-10:25	Engaging Rural Youth in Data Science with Investigations of Extreme Weather in Local Communities and at Mount Washington	Dr. Pamela Buffington	Director of Rural the Science, Technology, Engineering, and Mathematics (STEM) Initiatives for the US Division at Education Development Center (EDC)	2
Kentucky Room B	9:45-10:25	Discussion with PIs	Dr. Mindy Capaldi	Program Director at the National Science Foundation (NSF) in the Division of Undergraduate Education in the Directorate of Education and Human Resources	3

10:30 AM CST Closing Plenary Session – *in Grand Ballroom*

- Dr. Jessica Krim, Southern Illinois University at Edwardsville
 - Moving forward
 - Using resources and upcoming workshops/webinars
 - **New Sub-Grantee awards announced.*

11:00 AM CST Adjourn