

# June 15 - 17, 2021 Southeastern Regional Robert Noyce Conference

Removing Barriers in **STEM** Teacher Education

**\*\*All session times are listed in Central Time (CDT)\*\***

## TUESDAY, JUNE 15

### 9:45AM - 10:00AM | WELCOME

Susan Ferguson | *Welcome*

### 10:00AM - 11:30AM | BLOCK 1 | WORKSHOP

Robert Berry | *Leading with Equitable Teaching Practices* | Math

Susan Ferguson | *Blending Art & Science to Engage English Learners & Students with Special Needs Through Gyotaku* | ESL Science

Brenda Brand, Lezly Taylor, & Layla Zang | *Counter Stories: Motivating Students' Interest in STEAM Part I* | STEM

John Pecore | *Managing Noyce Program Data for Research, Dissemination & Reports* | Administrators

Peter Sheppard | *Five Priorities, Tall Tales, Truths, & To-Do's for New & Novice STEM Teachers* | STEM

### 11:40AM - 1:10PM | BLOCK 2 | WORKSHOP

David Stovall | *Relevance & Connectivity in STEM Education* | STEM

Susan Ferguson, Andre Green, & Katie Guffey | *Ask Another PI or Co-PI* | Administrators

Jim Ewing | *Positioning English Learners in STEM* | ESL STEM

Bettibel Kreye | *Using Relevant, Rich Tasks & Discourse in the Secondary Mathematics Classroom* | Math

Melody Russell | *Strategies for Engaging Students in Science through Culturally Relevant Teaching* | Science

## WEDNESDAY, JUNE 16

### 10:15AM - 10:30AM | WELCOME

Andre Green | *Welcome & Introduction of NSF*

Sandra Richardson, NSF Program Officer | *Welcoming Remarks*

### 10:30AM - 11:20AM | OPENING KEYNOTE

David Stovall | *Science & the Politics of Reckoning: There is No Running from Race*

### 11:30AM - 12:15PM | BLOCK 1 | BREAKOUT SESSIONS

Will Lewis | *The Social Emotional Learning (SEL) Playbook* | STEM

Rich Milner | *Opportunity Centered Teaching in STEM: Mindsets and Practices for Equity* | STEM

Tina Miller-Way | *The Need for Coastal & Ocean Literacy & the Sea Lab's Experiential Education Approach* | Science

Katie Johnson | *Building Community with an LA (Learning Assistant) Program* | Administrators

Bettibel Kreye | *The CER (Claim, Evidence, Reasoning) Model in the Mathematics Classroom* | Math

### 12:25PM - 1:10PM | BLOCK 2 | BREAKOUT SESSIONS

Qingxia Li | *Interview Findings of STEM Faculty, Students, & High School Teachers Toward Secondary Education Administrators*

Rich Milner | *Psychological (and Mental) Health as Curriculum Sites: Pressing Toward Justice and Equity* | STEM

Felicia Williams Russell | *Using Culturally Responsive Teaching Strategies to Differentiate Content in Chemistry Education* | STEM

Millicent Carmouche | *Special Education & STEM:*

*Applying the Universal Design for Learning Model* | STEM

Jeremy Zolkowski | *Understanding the Relationship & Effects of Program Design to Improve Teacher Preparation Programs* | Administrators

### 1:15PM - 2:05PM | BLOCK 3 | PECHA KUCHA

Hunter Berley | *Immersive Training Lab: Bring the Industrial Laboratory to the Classroom* | STEM

Kara Montgomery | *Citizen Science Project of Analyzing Microplastics in Local Waterways & Vertebrates* | Science

Tandy L. Dolin Petrov | *Removing Barriers in STEM Education: Actively Using Science & Math with Food* | STEM

Lacey Simpson | *G. Holmes Braddock Senior High School STEM Representation & STEM Identity Initiative* | STEM

Bethany Demarest | *Increasing Life Skills through Science Education for At-Risk Students* | Science

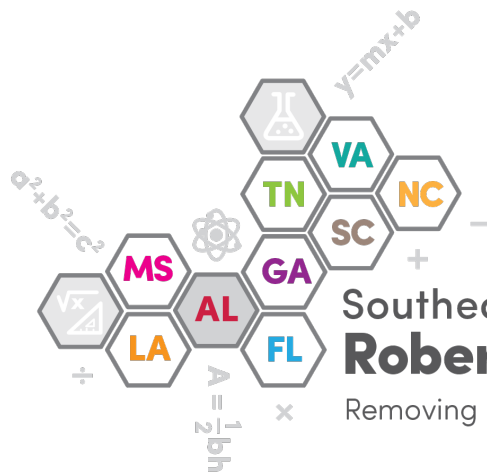
### 2:10PM - 2:25PM | BLOCK 4 | POSTER SESSION 1

John Pecore, Kwame Owusu-Daaku, Jaromy Kuhl, Darren North, & Melissa Demetrikopoulos | *Noyce Program Components that Encourage STEM Teaching in High-Need Schools* | Administrators

Jennifer Helms, Jordan Register, Anthony Fernandes, & Rebecca Davis | *Lesson Planning With a Culturally Responsive Mathematics Teaching Tool* | Math

Salam Khan, Samantha Strachan, Kelli Curry, & Jawonki Moseley | *Preparing & Supporting Noyce Scholars During the COVID-19 Pandemic: Lessons from an HBCU* | Administrators

Tandy L. Dolin Petrov, Sandra McKell, & J. Michael Wyss | *Differentiating STEM Instruction for All Learners, Tips & Tricks from an Alternative School* | STEM



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**Tom Manning** | *Abbreviation Puzzles for the Periodic Table Science*

**Anthony Fernandes, David Pugalee, Kim Harris, & Jordan Register** | *Using a Culturally Responsive Teaching Framework to Prepare Middle and High School Mathematics Teachers* | Math

**Laura Altfeld, Cheryl Berry, & Holly Atkins** | *Enhancing Teacher Preparedness & Certification in Biology & Math: First Year Progress* | Administrators

## 2:35PM - 2:55PM | BLOCK 5 | POSTER SESSION 2

**Katie Johnson, Susan Cooper, Laura Frost, Diane Kratt, Brian Johnson, & Tanya Kunberger** | *Supporting Scholars Pre & Post-Graduation* | Administrators

**Dennis Sunal, Sabrina Stanley, Rachael Tawbush, Tommy Duong, Rylleigh Harstad VanDervoort, Hakim Hawkins, Sergei Kilic, Adam Lawrence, Nathan McDonald, Hannah Millwood, Chelsea Moon, Caitlin Murray, Hannah Reed, Andrea Shull, Kelsey Smith, Daniel Stanley, Lily Walker, Megan Zeier, & Cynthia Sunal** | *Meeting the Challenges of a Pandemic: Teaching Secondary Science* | Science

**John N. McCall, Reenay Rogers, Jing Chen, Matthew Williford, & Nancy Earnest** | *Implementing Novel STEM Practices in Rural Education* | STEM

**Kelly M. Costner, Cassandra M. Bell, & Beth G. Costner** | *Integrating Research & Education Through a Water-themed Summer Internship* | Administrators

**Nick Kim, Lynn Hodge, & Shande King** | *Recruiting Teachers for VolsTeach for Appalachia* | Administrators

**Arinna Poessnecker, Joanna Shultz, Anthony Fernandes, Jordan Register, & Hannah Washburn** | *Reading & Writing the World with Mathematics - Book Discussion* | Math

**Gerard Dumancas, Guoyi Ke, Susan Myrick, & Nathan Ponder** | *Robert Noyce Teacher Scholarship Program: Preparing for the Upcoming School Year* | Administrators

## 3:00PM - 4:00PM | KEYNOTE

**Madhuri Mulekar** | *Introduction to Robert Berry*  
**Robert Berry** | *Identity, Agency, Positionality and Equitable Instructional Practices*

## 4:15PM | TRIVIA NIGHT

STEM Trivia

## THURSDAY, JUNE 17

### 9:30AM - 10:15AM | BLOCK 1 | BREAKOUT SESSIONS

**Susan Ferguson & Katie Guffey** | *Noyce Buddy Program Info Session* | STEM

**Etta Gravely & Tyrette Carter** | *NC A & Teach STEM Scholars: Success & Growth Opportunities* | Administrators

### 10:20AM - 11:10AM | BLOCK 2 | BREAKOUT SESSIONS

**Will Lewis** | *Developmental Trauma: Addressing It's Effects in Our Classrooms During & After a Pandemic* | STEM

**Anthony Fernandes** | *Analyzing Trafficstop Data to Understand Bias in Policing* | Math

**Brenda Brand, Lezly Taylor, & Layla Zang** | *Counter Stories: Motivating Students' Interest in STEM Part II* | STEM

**Jill Cochran & Mary Clement** | *Supporting New STEM Teachers with Monthly Zoom Discussions* | Administrators

**Brooke Burks & Tim Lewis** | *Getting the Most Out of Online & Hybrid Teaching* | STEM

### 11:15AM | CLOSING KEYNOTE SESSION

**Katie Guffey** | *Introduction to Derek Greenfield & Paul Frazier*

**Derek Greenfield & Paul Frazier** | *Charting the Course, Staying the Course: Sustaining the Community of Difference Makers*

**Andre Green** | *Closing Remarks*