# 2019 Noyce Summit

**The Role of Teacher Preparation in STEM Teacher Retention in High-Need School Districts**

*July 10-12, 2019 | Washington, D.C.*

## POSTER SESSION 1: Wednesday, July 10th 7:30pm - 9:00pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Building</td>
<td>Arcadia University</td>
<td>Augusto Macalalag</td>
<td>Philadelphia Regional Noyce Partnership Conference Series</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>California State University Monterey Bay</td>
<td>Corin Slown</td>
<td>Preparing Effective STEM Teachers through Curricular Alignment</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Saint Anselm College</td>
<td>Kelly Demers</td>
<td>Blazing the Trail for STEM Teachers: a Noyce Capacity Building Project</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Southern Illinois University at Edwardsville</td>
<td>Jessica Krim</td>
<td>Strengthening the Network for Teacher Learning: The Intersection of High-Quality and Innovative Teaching Activities</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Towson University</td>
<td>Sandy Spitzer</td>
<td>Modeling for Social Justice: A Model-Eliciting Activity on Gerrymandering</td>
<td>9</td>
<td>1</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>University of Georgia</td>
<td>Julie Luft</td>
<td>Georgia Educators in Mathematics and Science Education: A Capacity Building Grant</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>University of Tennessee-Knoxville</td>
<td>Nick Kim</td>
<td>Recruiting Teachers for VolsTeach for Appalachia</td>
<td>13</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution

---

**Co-hosted by the National Science Foundation and the American Association for the Advancement of Science**
<table>
<thead>
<tr>
<th>Track 1: Scholarships and Stipends</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia State University</td>
<td>Cheryl Adeyemi</td>
<td></td>
<td>Using Internship Digital Storytelling to Predict Secondary Mathematics Pre-Service Teacher Outcomes</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>Arizona State University</td>
<td>Andrea Weinberg</td>
<td></td>
<td>Bridging Preservice and Inservice Teaching through a Structured Mentoring Program</td>
<td>17</td>
<td>1</td>
</tr>
<tr>
<td>Boston University</td>
<td>Peter Garik</td>
<td></td>
<td>Going on Seven Cohorts: Preparing Noyce Scholars for Culturally Responsive Classroom Practices</td>
<td>19</td>
<td>1</td>
</tr>
<tr>
<td>California State University, Fullerton</td>
<td>David Pagni</td>
<td></td>
<td>Transitioning Math Majors into Teaching (TMMT): A Community College/University Partnership</td>
<td>21</td>
<td>1</td>
</tr>
<tr>
<td>College of William and Mary</td>
<td>Paul Heideman</td>
<td></td>
<td>Preparing Equity-Minded Mathematics and Science Teachers to Work with Diverse Communities of Learners: A Track 1 Scholarships and Stipends Noyce Project</td>
<td>23</td>
<td>1</td>
</tr>
<tr>
<td>CSU Monterey Bay</td>
<td>Joanne Lieberman</td>
<td></td>
<td>Projects that Promote Equity and Active Learning in Math Classes</td>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>CSU San Bernardino</td>
<td>Jeremy Aikin</td>
<td></td>
<td>CSUSB Noyce Math and Science Scholars for the Inland Empire</td>
<td>27</td>
<td>1</td>
</tr>
<tr>
<td>Drexel University</td>
<td>Sheila Vaidya</td>
<td></td>
<td>Preparing STEM Teachers for Philadelphia's Middle Schools</td>
<td>29</td>
<td>1</td>
</tr>
<tr>
<td>East Tennessee State University</td>
<td>Beverly Smith</td>
<td></td>
<td>East Tennessee STEM Teacher Scholarship Program</td>
<td>31</td>
<td>1</td>
</tr>
<tr>
<td>George Washington University</td>
<td>Larry Medsker</td>
<td></td>
<td>The George Washington University and Northern Virginia Community College Partnership</td>
<td>33</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science
| Track 1: Scholarships and Stipends | Hampton University | Isi Ero-Tolliver | Co-constructing Interdisciplinary Modules with Pre-Service Teachers for Introduction of Scientific Research Literacy Within STEM Classrooms: Phase II | 35 | 1 |
| Track 1: Scholarships and Stipends | Hood College | Jennifer Cuddapah | A Partnership between a Community College, a Local School System and a College to Facilitate Growth Mindset and Culturally Responsive STEM Teacher Preparation | 37 | 1 |
| Track 1: Scholarships and Stipends | Illinois State University | Rebekka Darner | A Course to Foster Teacher Agency in Alleviating STEM Opportunity & Achievement Gaps | 39 | 1 |
| Track 1: Scholarships and Stipends | Langston University | John K Coleman | Recruiting, Developing, and Retaining Tomorrow’s Outstanding STEM Teachers for Oklahoma | 41 | 1 |
| Track 1: Scholarships and Stipends | Loyola Marymount University | C. Viviano | The LMU Noyce Internship Effectiveness as a Recruiting Strategy | 43 | 1 |
| Track 1: Scholarships and Stipends | Mercy College | Meghan Marrero | What Elements Matter in Preparing Science and Math Teachers for High-need Schools? | 45 | 1 |
| Track 1: Scholarships and Stipends | Miami University | Nazan Bautista | Challenges and Adaptations in Implementing a Robert Noyce Program: Miami University as a Case | 47 | 1 |
| Track 1: Scholarships and Stipends | Montgomery College | Debra Poese | Preparing Career Changers for STEM Teaching Through Alternative Certification | 49 | 1 |
| Track 1: Scholarships and Stipends | New York City College of Technology | Fangyang Shen | STEM Education Enrichment in NYC | 51 | 1 |

*Listed by Track then by Institution*
<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Oral Roberts University</td>
<td>Catherine Klehm</td>
<td>ORU MASST: Using Structured Dialogue to Create a Teacher Community in High-Needs Schools</td>
<td>53</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Purdue University</td>
<td>Lynn Bryan</td>
<td>Excellence in STEM Teaching in Indiana: Enhancing Undergraduate STEM Teacher Preparation with a K-12 Integrated STEM Education Degree Concentration Program</td>
<td>55</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Saint Joseph’s University</td>
<td>Tanya Berezovski</td>
<td>The ABCs of Multi-Institutional Partnership: Year 1</td>
<td>57</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Saint Peter’s University</td>
<td>John Hammett</td>
<td>Building Sustainable Partnerships for 21st Century STEM Teachers</td>
<td>59</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Southern Illinois University Edwardsville</td>
<td>Jessica Krim</td>
<td>5 Years in Retrospect: Building a Community of Undergraduate STEM Pre-Service Teachers</td>
<td>61</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Stephen F. Austin State University</td>
<td>Chrissy Cross</td>
<td>The Influence of an Early Intensive Field Experience on Participant’s Perceptions of STEM Teaching</td>
<td>63</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>SUNY Geneseo</td>
<td>Kurt Fletcher</td>
<td>The Build-it Leave-it Teach-it Program – Sharing Physics Demos with High School Classrooms</td>
<td>65</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Texas A&amp;M International University</td>
<td>Puneet Gill</td>
<td>Noyce Scholarship Program for Mathematics Excellence: Strategies of Teacher Retention in High-Need School Districts</td>
<td>67</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*
**POSTER SESSION 1: Wednesday, July 10th 7:30pm – 9:00pm**

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Texas Tech University</td>
<td>Jerry Dwyer</td>
<td>Texas Tech Noyce Scholars Lead K-12 STEM Clubs</td>
<td>69</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>UNC Charlotte</td>
<td>Anthony Fernandes</td>
<td>Building Relationships with Diverse Students</td>
<td>71</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Alabama Tuscaloosa</td>
<td>Dennis Sunal</td>
<td>University of Alabama Noyce Scholars Program Recruiting Model</td>
<td>73</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of California, Los Angeles</td>
<td>Imelda Nava</td>
<td>Humanizing STEM</td>
<td>75</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Houston</td>
<td>Paige Evans</td>
<td>STEM Teacher Preparation at the University of Houston: Learning through Informal and Formal Experiences (UH-LIFE) - Year 3</td>
<td>77</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Louisiana at Lafayette</td>
<td>Nathan Dolenc</td>
<td>Using Undergraduate Noyce Scholars to Introduce Immune System Science Content to Seventh Graders</td>
<td>79</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Montana</td>
<td>David Erickson</td>
<td>Learning Assistants Become Teachers (LABT): A Model for Recruitment and Retention</td>
<td>81</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of New Hampshire</td>
<td>Julie Bryce</td>
<td>Engaging Noyce Scholars in Reflections on Culturally Responsive Teaching</td>
<td>83</td>
<td>1</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of South Alabama</td>
<td>Dr. Susan Ferguson</td>
<td>Noyce Pathway to Science II at the University of South Alabama</td>
<td>85</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*
| Track 1: Scholarships and Stipends | University of South Carolina | Christine Lotter | Project-based Learning with Community Connections | 87 | 1 |
| Track 1: Scholarships and Stipends | University of Tennessee Knoxville | Lynn Hodge | Recruitment and Identity in a STEM Teaching Internship | 89 | 1 |
| Track 1: Scholarships and Stipends | University of Texas at Arlington | Ann Cavallo | Preparing, Inducting, and Retaining Highly Qualified Teachers in Diverse, Economically Disadvantaged Schools | 91 | 1 |
| Track 1: Scholarships and Stipends | University of Texas Rio Grande Valley | Kenneth Smith | Preparing Science and Mathematics Majors to Teach in High-Need School Districts | 93 | 1 |
| Track 1: Scholarships and Stipends | University of West Florida | John Pecore | Interest of STEM Majors to Teach in High-need Middle or High Schools | 95 | 1 |
| Track 1: Scholarships and Stipends | USC Rossier School of Education | Frederick Freking | Lessons Learned from the Implementation and Evaluation of a Synchronous, Online Noyce Program | 97 | 1 |
| Track 1: Scholarships and Stipends | Virginia Commonwealth University | Elizabeth Edmondson | VCU NOYCE INITIATIVE PHASE I and II: An Induction Approach to Teacher Support | 99 | 1 |
| Track 1: Scholarships and Stipends | Westminster College | Amy Camardese | IQ STEM: Increasing Quality STEM Teachers in Western Pennsylvania | 101 | 1 |

*Listed by Track then by Institution
<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends, Track 2: Teaching Fellowships, Track 3: Master Teaching Fellowships</td>
<td>San Francisco State University</td>
<td>Larry Horvath</td>
<td>Western Regional Noyce Alliance</td>
<td>103</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>American Museum of Natural History</td>
<td>Jamie Wallace</td>
<td>Culturally Responsive Science Teaching: Stories from the Field</td>
<td>105</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>Georgia State University</td>
<td>Natalie King</td>
<td>Recruiting and Preparing Diverse STEM Professionals to become Highly Effective Teachers</td>
<td>107</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>Lehman College of CUNY</td>
<td>Gillian Bayne</td>
<td>Noyce STEMELL Scholars: Lessons Learned While Teaching and Learning with English Language Learners</td>
<td>109</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>Oregon State University</td>
<td>Thomas Dick</td>
<td>Ambitious Mathematics and Science Teaching</td>
<td>111</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>University of Alabama</td>
<td>Cynthia Sunal</td>
<td>Developing Leaders in Science Teaching (LIST) -- Developing Leaders in Science Teaching through a Professional Collaboration Model</td>
<td>113</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>University of California, Santa Barbara</td>
<td>Julie Bianchini</td>
<td>STELLER: Learning to Teach Multilingual Learners Through Cycles of Inquiry</td>
<td>115</td>
<td>1</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships, Track 3: Master Teaching Fellowships</td>
<td>University of Massachusetts Amherst</td>
<td>Sandra Madden</td>
<td>Supporting STEM Teaching and Learning through Communities (S2TLC): Lesson Observations Tracking MTFs &amp; TFs</td>
<td>117</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution

Page 7

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science
<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>College of Staten Island</td>
<td>Irina Lyublinskaya</td>
<td>Developing Science Leaders in High-Need Elementary Schools: Noyce Master Teaching Fellows Academy at College of Staten Island</td>
<td>119</td>
<td>1</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>Rice University</td>
<td>Adem Ekmekci</td>
<td>The Rice University Master Teaching Fellowship Program Midpoint Results: Progress in Development of Teacher Leaders in High-Need Urban Schools</td>
<td>121</td>
<td>1</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>San Diego State University</td>
<td>Susan Nickerson</td>
<td>Using Rehearsals to Support Leadership Development</td>
<td>123</td>
<td>1</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of Cincinnati</td>
<td>Helen Meyer</td>
<td>Co-Creating Pre-Service Methods Courses</td>
<td>125</td>
<td>1</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of Massachusetts Dartmouth</td>
<td>Stephen Witzig</td>
<td>TEACH! SouthCoast STEM - A TF/MTF Project at UMassD: Final Results &amp; Next Steps</td>
<td>127</td>
<td>1</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of South Carolina</td>
<td>Jan Yow</td>
<td>Science &amp; Mathematics Teacher Leaders in Action: Developing Master Teachers through the South Carolina Science and Mathematics Teacher Leaders (SC-SMTL) Program</td>
<td>129</td>
<td>1</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>California State University, Sacramento</td>
<td>Deidre Sessoms</td>
<td>Science Teacher Preparedness: The Impact of a Noyce Scholarship Program</td>
<td>131</td>
<td>1</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>Montclair State University</td>
<td>Douglas Larkin</td>
<td>Starting up a Noyce Track 4 Research Project: Preparing State-level Teacher Employment Data for Analysis</td>
<td>133</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution
**POSTER SESSION 1: Wednesday, July 10th 7:30pm – 9:00pm**

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of Arizona</td>
<td>Sanlyn Buxner</td>
<td>Growing into Teacher-Researchers: Using Mindsets to Frame Research for Noyce Scholars as a Component of Teacher Preparation</td>
<td>135</td>
<td>1</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of Colorado</td>
<td>John Keller</td>
<td>Pre-service and Early-Career STEM Teacher Research Experiences and Teacher Effectiveness, Persistence, and Retention: Year 2</td>
<td>137</td>
<td>1</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of Minnesota</td>
<td>Gillian Roehrig</td>
<td>Exploring Secondary Science Teacher Beliefs and Practices Through Reflective Practice</td>
<td>139</td>
<td>1</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of Nebraska Lincoln</td>
<td>Rachel Funk</td>
<td>Persistence, Effectiveness, and Retention Studies in STEM Teaching: Summary of the Current State of Research in Teaching Persistence and Effectiveness in High-Need Schools</td>
<td>141</td>
<td>1</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*
## POSTER SESSION 2: Thursday, July 11\textsuperscript{th} 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Building</td>
<td>Bryn Mawr College</td>
<td>Victor Donnay</td>
<td>Summer STEM Teaching Experiences for Undergraduates (TEU) from Liberal Arts Institutions</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Pacific Lutheran University</td>
<td>Ksenija Simic-Muller</td>
<td>How Can Undergraduate Science Majors get Authentic Teaching Experience?</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Saint Joseph's College</td>
<td>Emily Lesher</td>
<td>Growing Future Science Teachers in Maine</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>St. Bonaventure University</td>
<td>Christine Uhl</td>
<td>Creating Pathways in STEM Education</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Saint Leo University</td>
<td>Laura Altfeld</td>
<td>Enhancing Teacher Preparedness and Certification in Biology and Math – A Capacity Building Project</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Towson University</td>
<td>Diana Cheng</td>
<td>Towson University's Pre-Service Teachers' STEM Modeling Activities with Baltimore City Middle School Students</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>University of Saint Mary</td>
<td>Gwen Landever</td>
<td>Creating Pathways: Building the Region's Capacity to Address the STEM Teacher Shortage</td>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Upper Iowa University</td>
<td>Barbara Ehlers</td>
<td>Foundations for Advancing STEM Teaching (FAST) in Iowa Rural School Districts</td>
<td>16</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*

---

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science
### POSTER SESSION 2: Thursday, July 11th 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Alabama A&amp;M University</td>
<td>Salam Khan</td>
<td>Those Who Can Teach: AAMU Robert Noyce Program</td>
<td>18</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Barnard College, Columbia University</td>
<td>Lisa Edstrom</td>
<td>Rethinking Mentoring 2.0</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>California Polytechnic State University Foundation</td>
<td>Edward Himelblau</td>
<td>Supporting Pre-Service and In-Service Noyce Alumni Through Summer Professional Development</td>
<td>22</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>College of Staten Island (CUNY)</td>
<td>Jane Coffee</td>
<td>Robert Noyce Teacher Academy at the College of Staten Island (CUNY)</td>
<td>24</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Colorado School of Mines</td>
<td>Savannah Logan</td>
<td>GFO Copy Write: Development of Written Materials for Recruiting STEM Teachers</td>
<td>26</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>CSU Northridge</td>
<td>Virginia Vandergon</td>
<td>CSU Noyce Phase II Scholars</td>
<td>28</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Dordt University</td>
<td>Valorie Zonnefeld</td>
<td>Innovative Pathways to STEM Teacher Preparation to Lead in High-Need, Rural School Districts</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>East Carolina University</td>
<td>Ron Preston</td>
<td>Teachers' Perceptions of their Experiences as Noyce Scholars at East Carolina University</td>
<td>32</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*
<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Florida International University</td>
<td>Laird Kramer</td>
<td>Year Two Lessons Learned: Helping Noyce Scholars Find a Voice, Solidify Teaching Identity and Develop Critical Teaching Agency</td>
<td>34</td>
<td>2</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>Georgia Institute of Technology</td>
<td>Meltem Alemdar</td>
<td>Early Career Noyce Teachers' Personal Support and its Impact on Retention and Persistence in Schools</td>
<td>36</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Hofstra University</td>
<td>Behailu Mammo</td>
<td>Developing Teacher Self-Efficacy and Dispositions through Tutoring (DTSEDT2)</td>
<td>38</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Hunter College</td>
<td>Jeanne Weiler</td>
<td>Summer Experiences for Preparing New Science Teachers</td>
<td>40</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Indiana University- Purdue University Indianapolis</td>
<td>Jomo Mutegi</td>
<td>Examining the Self As Teacher: Strategies for Recruitment through of a Noyce Summer Internship and Course</td>
<td>42</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Le Moyne College</td>
<td>Wen Ma</td>
<td>STEM Majors' Viewpoints on Career Choices</td>
<td>44</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Long Island University</td>
<td>Corbett Redden</td>
<td>LIU Post Mathematics &amp; Teacher Education Scholarship Program</td>
<td>46</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>MA Department of Higher Education</td>
<td>Allison Little</td>
<td>MassTeach: Creating Partnerships to Diversify the STEM Teacher Pipeline</td>
<td>48</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution
### POSTER SESSION 2: Thursday, July 11th 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Metropolitan State University of Denver</td>
<td>Janelle Johnson</td>
<td>Neer Peer Observation and Mentoring as New Teacher Induction</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Minnesota State University Moorhead</td>
<td>Alison Wallace</td>
<td>Noyce Neighbors and Networks</td>
<td>52</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Mount Saint Marys University</td>
<td>Carol Johnston</td>
<td>Co-Teaching a Course for Literacy and STEM Content</td>
<td>54</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Northeastern Illinois University</td>
<td>Huseyin Colak</td>
<td>The Impact of the NOYCE Scholar Program on the Preparedness and Retention of STEM Teachers</td>
<td>56</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Pennsylvania State University</td>
<td>Gina Foletta</td>
<td>Modeling for and by Prospective Secondary Mathematics Teachers: Preparing to Teach Students in High Needs Schools</td>
<td>58</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Rider University</td>
<td>Danielle Jacobs</td>
<td>Year 3 of STEM Scholars at Rider University: Cohort Building as an Integral Component of Recruitment, Retention, &amp; Preparation of Pre-Service STEM Teachers</td>
<td>60</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>San Diego State University</td>
<td>Susan Nickerson</td>
<td>Recruiting and Retaining at Multiple Points in Undergrad Education</td>
<td>62</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>State University of New York College at Cortland</td>
<td>Gregory Phelan</td>
<td>The SUNY Cortland Robert Noyce Project : Lessons Learned Since 2009</td>
<td>64</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*
<table>
<thead>
<tr>
<th>Project Categories</th>
<th>PI's Institution</th>
<th>PI</th>
<th>Abstract Title</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 4: Noyce Research</td>
<td>SUNY College at Oneonta</td>
<td>Paul Bischoff</td>
<td>Engaging Noyce Teachers with Noyce Undergraduates during Clinical Placements</td>
<td>66</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Stephen F. Austin State University</td>
<td>Jonathan Mitchell</td>
<td>The Role of Mentorship for Developing and Sustaining Future Educators</td>
<td>68</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Tennessee Technological University</td>
<td>Holly Anthony</td>
<td>Affordances of a Noyce program – STEM Center Partnership</td>
<td>70</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Texas Lutheran University</td>
<td>Toni Sauncy</td>
<td>Preparing Culturally Competent Teachers for South Central Texas</td>
<td>72</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Trustees of Boston University</td>
<td>Ziv Feldman</td>
<td>Preparing Secondary Mathematics Teacher to Teach Using Discourse</td>
<td>74</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Alabama at Birmingham</td>
<td>J. Michael Wyss</td>
<td>Do Preservice Middle &amp; High School Informal STEM teaching Opportunities Translate to Teacher Retention in Urban Schools?</td>
<td>76</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Arkansas at Little Rock</td>
<td>Gail Hughes</td>
<td>Do More Diverse Education Program Admission Requirements Result in a More Diverse Teacher Workforce?</td>
<td>78</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of California, Berkeley</td>
<td>Elisa Stone</td>
<td>Characterizing Science Inquiry and Dialogic Mathematics Teaching Practices for Berkeley Graduates</td>
<td>80</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution
## POSTER SESSION 2: Thursday, July 11th 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Indianapolis</td>
<td>Kimberly Baker</td>
<td>University-Provided Mentoring: Ensuring Professional Growth and Teacher Retention in Beginning STEM Teachers</td>
<td>82</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Lynchburg</td>
<td>Allison Jablonski</td>
<td>Preparing Secondary STEM Teachers for Success with Students with Disabilities and Students from Diverse Backgrounds</td>
<td>84</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Nebraska-Lincoln</td>
<td>Elizabeth Lewis</td>
<td>Meeting the Vision of the NGSS: Critical Factors of Effective Science Teaching</td>
<td>86</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Rhode Island</td>
<td>Anne Seitsinger</td>
<td>Supporting New STEM Teachers</td>
<td>88</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of South Alabama</td>
<td>Dr. Andre' Green</td>
<td>Noyce Pathway to Mathematics at the University of South Alabama</td>
<td>90</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Tennessee at Chattanooga</td>
<td>Jennifer Ellis</td>
<td>The Impact of the UTeaChattanooga Noyce Scholarship Program (UNSP) and the Chattanooga STEM Education Noyce Scholarship Program on Recruiting, Retaining, and Preparing STEM High School Teachers.</td>
<td>92</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Texas</td>
<td>Shelly Rodriguez</td>
<td>UTeach Maker: Promoting Interdisciplinary Innovation</td>
<td>94</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Texas at Dallas</td>
<td>Mary Urquhart</td>
<td>Surveying for Success: Academic Attitudes of Undergraduate STEM Majors</td>
<td>96</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution
### POSTER SESSION 2: Thursday, July 11th 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Vermont</td>
<td>Regina Toolin</td>
<td>The University of Vermont Noyce Scholars Use of Student Performance Data to Inform Instruction</td>
<td>98</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>University of Wyoming</td>
<td>Andrea Burrows</td>
<td>Sustaining Wyoming’s Advancing Reach in Mathematics and Science: 2014-2019 SWARMS Embraces Computer Science</td>
<td>100</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Vanderbilt University</td>
<td>Heather Johnson</td>
<td>Mobilizing STEM Talent for STEM Teaching: Building Stronger Partnerships to Recruit and Retain Teachers of Color</td>
<td>102</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>West Virginia University</td>
<td>John Stewart</td>
<td>WVUteach-Noyce: Building the Educational Infrastructure to Transform the Economy of West Virginia</td>
<td>104</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends</td>
<td>Winthrop University</td>
<td>Cassandra Bell</td>
<td>Supporting Teacher Candidates from Program to Classroom</td>
<td>106</td>
<td>2</td>
</tr>
<tr>
<td>Track 1: Scholarships and Stipends, Track 4: Noyce Research</td>
<td>Queens College</td>
<td>Gopal Subramaniam</td>
<td>NOYCE Students as Co-instructors in Inquiry College Chemistry Lab</td>
<td>108</td>
<td>2</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>Boston College</td>
<td>Solomon Friedberg</td>
<td>Exemplary Mathematics Educators for High-Needs School: Outcomes From a 6-Year Project</td>
<td>110</td>
<td>2</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>Newberry College</td>
<td>Katie Simmons</td>
<td>NSF Robert Noyce Project at Newberry College-REMAST-Year 5</td>
<td>112</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution
## POSTER SESSION 2: Thursday, July 11th 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>Texas Tech University</td>
<td>Jessica Gottlieb</td>
<td>Exploring Factors related to Entry and Persistence in the STEM Classroom</td>
<td>114</td>
<td>2</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>University of California, Berkeley</td>
<td>Annie Liang</td>
<td>The Strength of Weak Ties and their Effects on Teachers' Professional Growth: Learnings from MfA Berkeley</td>
<td>116</td>
<td>2</td>
</tr>
<tr>
<td>Track 2: Teaching Fellowships</td>
<td>University of Maine</td>
<td>Susan McKay</td>
<td>An Evolving Model of Community Support and Mentoring to Meet the Needs of New STEM Teachers in Rural High-Need Districts</td>
<td>118</td>
<td>2</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>California State University, Sacramento</td>
<td>Jennifer Porter</td>
<td>A Pedagogical Framework for Developing Teacher Leadership</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>Mercy College</td>
<td>Amanda Gunning</td>
<td>Preparing STEM Master Teacher Fellows: Learning How to Plan for Integrative Instruction</td>
<td>122</td>
<td>2</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>Rice University</td>
<td>Adem Ekmekci</td>
<td>Developing Mathematics Teacher Leaders to Meet the Needs of Urban Schools – Lessons from the Rice University Robert Noyce Master Teaching Fellowship Program</td>
<td>124</td>
<td>2</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of Alabama</td>
<td>Jeremy Zelkowski</td>
<td>Alabama's Practitioner Leaders for Underserved Schools in Mathematics</td>
<td>126</td>
<td>2</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of Houston</td>
<td>Paige Evans</td>
<td>Enhancing Stem Teacher Leadership Through Equity and Advocacy Development (LEAD) In Houston (LEAD Houston) - Year 2</td>
<td>128</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*
## POSTER SESSION 2: Thursday, July 11<sup>th</sup> 4:30pm – 5:45pm

<table>
<thead>
<tr>
<th>Project Categories:</th>
<th>PI's Institution:</th>
<th>PI</th>
<th>Abstract Title:</th>
<th>Poster #</th>
<th>Session #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of Rochester</td>
<td>Michael Daley</td>
<td>Using a Workshop as a Recruiting Tool for Master Teacher Fellows</td>
<td>130</td>
<td>2</td>
</tr>
<tr>
<td>Track 3: Master Teaching Fellowships</td>
<td>University of Rochester</td>
<td>Michael Occhino</td>
<td>Developing Teacher Leadership Through Facilitating Professional Learning</td>
<td>132</td>
<td>2</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>Middle Tennessee State University</td>
<td>Justin Polizzi</td>
<td>Collaborative Research: Network Retention in Noyce Communities of Practice</td>
<td>134</td>
<td>2</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of California, Santa Barbara</td>
<td>Stacey Carpenter</td>
<td>Preservice Science Teachers’ Understanding of Principles of Reform-Based Science Instruction for Diverse Learners</td>
<td>136</td>
<td>2</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of Houston</td>
<td>Catherine Horn</td>
<td>Looking Longitudinally at In-Service Indicators of Noyce Success: Understanding Teacher Within and Between School and District Mobility</td>
<td>138</td>
<td>2</td>
</tr>
<tr>
<td>Track 4: Noyce Research</td>
<td>University of Nebraska</td>
<td>Wendy Smith</td>
<td>Teacher Leadership: Investigating the Persistence and Trajectories of Noyce Master Teaching Fellows</td>
<td>140</td>
<td>2</td>
</tr>
</tbody>
</table>

*Listed by Track then by Institution*