## 2019 Noyce Summit Agenda
for Scholars and Fellows

@NoyceProgram | #Noyce2019 | www.nsfnoyce.org
Facebook Group “2019 Noyce Teachers”

### Wednesday, July 10, 2019
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm - 9:00 pm</td>
<td>Registration</td>
</tr>
<tr>
<td>3:30 pm - 5:30 pm</td>
<td>Orientation/Speed STEMming Event</td>
</tr>
<tr>
<td>5:30 pm - 6:00 pm</td>
<td>(Poster Setup for Session 1)</td>
</tr>
<tr>
<td>6:00 pm - 7:30 pm</td>
<td>Opening Plenary</td>
</tr>
<tr>
<td>7:30 pm - 9:00 pm</td>
<td>Poster Session 1/Networking Reception</td>
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</tbody>
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### Thursday, July 11, 2019
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:45 am - 8:45 am</td>
<td>Continental Breakfast, Guided Discussion</td>
</tr>
<tr>
<td>7:45 am - 2:45 pm</td>
<td>(Poster Setup for Session 2)</td>
</tr>
<tr>
<td>8:45 am - 10:00 am</td>
<td>Plenary Session 2</td>
</tr>
<tr>
<td>10:15 am - 11:25 am</td>
<td>Master Teacher Panel Workshop (60 min)</td>
</tr>
<tr>
<td>10:15 am - 10:45 am</td>
<td>Concurrent Workshops Session 1 (30 min)</td>
</tr>
<tr>
<td>10:55 am - 11:25 am</td>
<td>Concurrent Workshops Session 2 (30 min)</td>
</tr>
<tr>
<td>11:40 am - 12:40 pm</td>
<td>Plenary 3</td>
</tr>
<tr>
<td>1:00 pm - 2:30 pm</td>
<td>Plenary 4</td>
</tr>
<tr>
<td>2:45 pm - 4:15 pm</td>
<td>Discussion Sessions</td>
</tr>
<tr>
<td>4:30 pm - 5:45 pm</td>
<td>Poster Session 2</td>
</tr>
<tr>
<td>5:45 pm - 6:00 pm</td>
<td>(Remove Posters)</td>
</tr>
<tr>
<td>6:00 pm</td>
<td>Optional: Networking Activities Offsite</td>
</tr>
<tr>
<td></td>
<td>Dinner on Your Own</td>
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</tbody>
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### Friday, July 12, 2019
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45 am - 8:45 am</td>
<td>Continental Breakfast, Guided Discussion</td>
</tr>
<tr>
<td>9:00 am - 9:30 am</td>
<td>Concurrent Workshops Session 3 (30 min)</td>
</tr>
<tr>
<td>9:40 am - 10:25 am</td>
<td>Concurrent Workshops Session 4 (45 min)</td>
</tr>
<tr>
<td>10:35 am - 11:05 am</td>
<td>Concurrent Workshops Session 5 (30 min)</td>
</tr>
<tr>
<td>11:15 am - 12:30 pm</td>
<td>Closing Plenary</td>
</tr>
<tr>
<td>12:30 pm - 3:30 pm</td>
<td>Museum &amp; Monuments Tours</td>
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</tbody>
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This material is based upon work supported by the National Science Foundation (NSF) under Grant No. DUE-1548986.
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This material is based upon work supported by the National Science Foundation (NSF)
under Grant No. DUE-1548986. Any opinions, findings, interpretations, conclusions or
recommendations expressed in this material are those of its authors and do not
represent the views of the National Science Foundation, AAAS Board of Directors, the
Council of AAAS, AAAS’ membership, or the AEF Program.

https://www.spymuseum.org/education

BONUS RESOURCE:
Free STEM Kits as a Civil Air Patrol Education Member
https://www.gocivilairpatrol.com/programs/aerospace-
education/programs/stem-kits

National Summer Teacher Institute | July 28-August 2, 2019
University of North Carolina at Charlotte.
NSTI combines experiential training tools, practices, and project-based learning models to support elementary, middle, and high school teachers in increasing their knowledge of making, inventing, and innovation. [https://www.uspto.gov/learning-and-resources/outreach-and-education/national-summer-teacher-institute](https://www.uspto.gov/learning-and-resources/outreach-and-education/national-summer-teacher-institute)

WELCOME to the 2019 Noyce Summit
July 10 - 12, 2019 | Washington, D.C.
@NoyceProgram | #Noyce2019 | www.nsfnoyce.org

Facebook Group “2019 Noyce Teachers”

Teachers, Noyce Scholars, and Master Teacher Fellows:
Thank you for your commitment to become (or continue as) STEM teachers for students in high-need districts! The Robert Noyce Teacher Scholarship Program would not exist without you - the teachers. We are so happy to have you with us for the next few days.

The Passport (new this year) has been designed to help you make the most of your experience at the 2019 Noyce Summit, build a National STEM Network, and assist as you navigate Washington, DC. Participating Organizations will be providing Door Prizes throughout the Summit so keep your eyes and ears open for opportunities to win!

Please use your Passport as a guidebook for activities and a central location for notes and contacts. Take advantage of every opportunity to network, network, network. Connecting with other STEM teachers, organizations, and resource centers located throughout the United States will help you build a powerful professional STEM education network that will serve you throughout your career!

The Noyce Summit Passport Challenge
1. Join the Facebook Group [2019 Noyce Teachers](https://www.facebook.com/groups/2019NoyceTeachers/).
2. Tweet @NoyceProgram and #Noyce2019.
3. Meet and gather contact information from at least 5 Noyce Scholars or Master Teachers from different states.
4. Highlight at least 3 organizations you want to follow-up with from the Speed STEMming Event.
5. Attend at least 3 highlighted workshops for teachers.
6. View at least 10 posters from the 2 poster sessions.
7. Attend the Voices From the Field Panel 7/11 at 11:40 am.
8. Begin to envision how to incorporate what you learn at the 2019 Noyce Summit into your career pathway as a professional STEM Educator!
Highlighted Workshops for Scholars and Fellows

In response to Scholar and Fellow feedback from previous Noyce Summits we have scheduled workshops likely to be of particular interest to Scholars and Fellows in the same room locations for both Thursday and Friday. These sessions are expected to be engaging and targeting to specifically with topics of interest to teachers. You will have 3 of these workshops to choose from during each Concurrent Session time period.

[You may also attend any of the general workshops offered.]

Concurrent Session Information
Thursday, July 11, 2019

**Thursday at 10:15 a.m.**
1. Integrating STEM, Culture and Student Identity to Enhance Engagement Community Connections (30 min)
2. Voices from the Field Master Teachers Panel (60 min)
3. Reaching and Recognizing our English Language Learners in Math Class (30 min)

**Thursday at 10:55 a.m.**
1. Puzzles and Pictures (30 min)
2. Voices from the Field Master Teachers Panel (cont.)
3. Using Backward Design for Diverse Classrooms (30 min)

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www.loc.gov/teachers
@TeachingLC

Primary Sources | Teacher Resources | Professional Development

The Library of Congress offers classroom materials and professional development to help teachers effectively use primary sources from the Library’s vast digital collections in their teaching.

Find Library of Congress lesson plans and more that meet Common Core standards, state content standards, and the standards of national organizations.

Stephen Wessen
wessen@loc.gov

Kaleena Black
kblack@loc.gov
The Next Generation of Explorers

Concurrent Session Information

Friday, July 12, 2019

**Friday at 9:00 a.m.**
1. Learning Assistants Become Teachers: A Model for Recruitment and Retention (30 min)
2. Routines for Reasoning (30 min)
3. A phenomenon based lesson demonstrates scaffolding for science knowledge all learners can access (30 min)

**Friday at 9:40 a.m.**
1. Model-Based Reasoning and Recall using Sketching to Learn and Eyes-Closed Exercises (45 min)
2. Culturally Responsive Science Education in New York City: Collaboration of a Community of Teachers (45 min)
3. Students were not made to be managed: Effective practices to build community and promote inclusivity (45 min)

**Friday at 10:35 a.m.**
2. Intervention strategies for struggling learners in mathematics (30 min)
3. Promoting Student Agency through Self-Assessment and Rubrics (30 min)
Thursday Evening Optional Activities
for Scholars and Fellows

Take a minute and think about the things you do to recharge your batteries …..

Self care is extremely important when you are spending so much of your time meeting the needs of others (or will be soon). Develop activities and interests that you enjoy outside of and away from your teaching commitment.

Remember:
Take time to put your oxygen mask on first, before you try to help others!

Teaching is rewarding and challenging. To be the best you, you can be and to prevent burnout, consider treating yourself to activities like the ones listed below. Search for free or low-cost activities in your area. Don’t be afraid to budget in activities to treat yourself.

Make sure you check out the details and sign up sheets for the following activities. Updated information will be posted in the FB Group “2019 Noyce Teachers” throughout the conference and at the registration tables.

Outdoor Movie
Live Music
Comedy
Escape Room
Bowling

[There may be fees attached to attend these optional activities, please refer to the information/sign up sheets.]

https://learninglab.si.edu/about/
SmithsonianCenterforLearningandDigitalAccess

Cody Coltharp
Digital Interactive Designer
Smithsonian Center for Learning and Digital Access
coltharpc@si.edu
Meet Your 2019 Noyce Summit “Voices from the Field” Panelists

Name: Jonathan Isozaki  
College: Loyola Marymount University, CA  
Degree: BA in Mathematics and Secondary Education  
Teaching: 2 years  
Current School: Hawthorne High School in Los Angeles, CA  
Subject: Common Core Integrated Mathematics I & II

Name: Maria Crouse  
College: Metropolitan State University of Denver, CO  
Degree: BA in Mathematics and Minor in Secondary Education  
Teaching: 1 year  
Current School: Dr. Martin Luther King Jr. Early College, CO  
Subject: Integrated Mathematics II & III, Financial Algebra

Name: Keeden M. Hopkins  
College: East Carolina University, NC  
Degree: BS in Biology and MAT in Secondary Science  
Teaching: 1 year  
Current School: Innovation Early College High School, NC  
Subject: Biology, Earth Science, Physics & Chemistry

Name: Jamie MacDonald  
College: Bridgewater State University, MA  
Degree: BA in Geology and Elementary Education  
Teaching: 1 year  
Current School: Hayden McFadden Elementary School, MA  
Subject: STEM Teacher for Second through Fifth Grades

Name: Brandon Begay  
College: Arizona State University, AZ & San Juan College, NM  
Degree: BS in Biochemistry  
Teaching: 1 year  
Current School: Shiprock High School, NM  
Subject: Algebra I & II, Geometry, AP Calculus, Financial Lit.

Name: Maisa Abu-Mallouh  
College: Lewis University, IL  
Degree: BS in Biology and MEd in Secondary Education  
Teaching: 1 year  
Current School: Joliet Central High School, IL  
Subject: Physics & Biology
Friday Afternoon Tours
for Scholars and Fellows
hosted by
2018-2019 Albert Einstein Distinguished Educator Fellows

United States Botanic Garden
International Spy Museum ($7 cash only)
National Museum of Natural History
National Mall Monuments and Memorials
National Museum of African American History & Culture
Library of Congress
National Air and Space Museum

If you have not already signed up for a tour, please check the Registration Desk for sign up sheets. You can also learn about tours in the Group “2019 Noyce Teachers” and at www.nsfnoyce.org. [All tours are free of charge unless otherwise noted.]

Getting Around DC

The Circulator Bus
https://www.dccirculator.com/
(Free! begins at Union Station and goes all along the National Mall.)

DC Metro
https://www.wmata.com/
(Buy a card at the kiosk at Union Station for about $12.)

Lyft or Uber
(Download the App. Rides cost around $10.)

Scooters and Bikes
(Found throughout DC, download the associated App prices vary.)
Speed STEMming Agenda for Scholars and Fellows

As you begin your transition to [or continue on as] a certified STEM educator serving in high-need districts throughout the United States please use this networking opportunity to plan for your future as an accomplished and effective STEM educator.

All of the extraordinary organizations in attendance are excited to speak with you about high quality professional development opportunities, free STEM classroom resources, and pathways for your career advancement as professional STEM educators.

Take advantage of building your national STEM network and create a blueprint for your future as an accomplished and effective professional STEM educator serving our students in high-need districts throughout the United States.

Use the space provided in this passport to make notes for each organization, particularly those opportunities that you would like to explore further!

Wednesday, July 10, 2019

3:30 pm - 3:45 pm Introduction and Icebreaker

3:45 pm - 4:00 pm Welcome Address from Peggy Brookins
President and CEO of the National Board for Professional Teaching Standards

4:00 pm - 5:30 pm Speed STEMming Event
Scholars and Fellows switch organization tables every 5 minutes (1 minute allowed to transfer).

5:30 pm - 6:00 pm Follow-up conversations with STEMming organizations.
Dismissal for those who need to setup for Poster Session 1.

6:00 pm - 7:30 pm Opening Plenary

7:30 pm - 9:00 pm Poster Session & Networking Reception
Organizations may be in attendance for Follow-up conversations with Scholars and Fellows
https://www.nbpts.org/

Ms. Peggy Brookins, NBCT
President & CEO
National Board for Professional Teaching Standards
1525 Wilson Boulevard, Suite 700
Arlington, VA 22209
peggy.brookins@nbpts.org

http://www.ascd.org/

Aman Dhanda
Director of Educator Engagement
Office of Integrated Services, Programs, and Partnerships
1703 N. Beauregard Street · Alexandria, VA 22311-1714
(703) 575-5681
aman.dhanda@ascd.org
www.spark101.org

114th Partnership Program Spark 101:

“Finally, resources available to answer the age-old question: ‘how will I use this in the real world?’”
— High school educator, after completing our professional learning program

Our free interactive videos motivate students to persist in STEM coursework by integrating academics with on-the-job tasks from real employers. Companion, educator-developed resources provide the means for teachers to integrate math and science teaching objectives with credible career content.

Russell Brown
Content Design Lead | 114th Partnership | www.114th.org
240.242.4343 x 103 | 6010 Executive Boulevard . Suite 500 . Rockville, MD 20852
Email: russ.brown@114th.org

We invite you to become a member of the STEM Teacher Leadership Network
https://stemtnet.org

A new initiative designed to connect, support and inspire teacher leaders and aspiring leaders to improve schools, effect policy, and re-envision STEM teaching and learning.

• Find funding opportunities, professional development programs, job opportunities and more.
• Learn about conferences, events, webinars, and deadlines related to STEM Teacher Leadership.
• Network with other STEM teacher leaders who want to collaborate, share ideas, knowledge, and passion.
• View videos, articles, presentations, research papers, and other resources of interest to STEM teacher leaders.
https://nmaahc.si.edu/

STEM website:
https://nmaahc.si.edu/learn/educators/stem-nmaahc

Important Dates:

- **Week-long PDSTEM Educator Workshop**
  July 29, 2019 – August 2, 2019

- **STEM Master Teacher Fellowship**
  Application period opens- August 5, 2019

- **STEM Teacher In-Residence Program**
  Application period opens- October 14, 2019

Name: **Christopher Williams**
Title: STEM Education Specialist
Email: NMAAHC-STEM@si.edu
https://www.paemst.org/

The Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) are the highest honors bestowed by the United States government specifically for K–12 science, technology, engineering, mathematics, and/or computer science teaching.

Awardees serve as models for their colleagues, inspiration to their communities, and leaders in the improvement of STEM education. Since 1983, more than 4,800 teachers have been recognized for their contributions to STEM education. Up to 108 teachers are recognized each year. Presidential Awardees receive:

- A citation signed by the President of the United States
- A trip to Washington, D.C. to attend a series of recognition events and professional development opportunities
- A $10,000 award from the National Science Foundation

https://www.knowlesteachers.org/

The Knowles Teaching Fellows Program is an intensive and cohesive, five-year program that supports early-career, high school mathematics and science teachers in their efforts to develop teaching expertise and lead from the classroom.

Applications for the 2020 Knowles Teaching Fellowships are due December 1, 2019.

There is no cost and no catch to be part of this program. Visit knowlesteachers.org/apply to learn more, check your eligibility, and start an application.

Knowles Teaching Fellow benefits include:

- **Financial Support:** Access to $9000 in annual funding for professional development, classroom materials, and stipends
- **Coaching & Mentoring:** Support from experienced teachers who assist with a wide range of personal and professional challenges faced by beginning teachers
- **Community Membership:** Tap into a national network of more than 300 teachers who support one another in their efforts to improve education
At National Geographic, we are committed to teaching students about the world and how it works, ultimately empowering the next generation of change makers. Our Educator Network connects pre-K-12 formal and informal educators committed to inspiring the next generation. Learn more about our professional development, students experiences, and classroom resources at NatGeoEd.org.

JT Hardin  
Sr. Manager, Education Leadership Programs  
t. 202-807-3158

Phyllis Friello  
Education Manager  
pfriello@spacecenter.org

Space Exploration Educator Crew  
https://spacecenter.org/educator-resources/space-exploration-educator-crew/