

## **SEEDS 2019 Conference Program**

(changes may/will occur, please download the app for updates)

# **Science Educators for Equity, Diversity, and Social Justice (SEEDS)**



**Annual International Conference  
Old Dominion University  
College of Education and Professional Studies  
4301 Hampton Blvd  
Norfolk, Virginia 23529  
October 11 - 14, 2019**

## Conference Schedule at a Glance

### **Friday, October 11, 2019**

4:00- 8:00 PM Registration

**5:00 -5:30 PM Welcome Reception**

5:30 - 6:30 PM SEEDS Town Hall Meeting

**6:30 - 7:00 PM Presentation**

7:00 - 7:30 PM Closing

### **Saturday, October 12, 2019**

8:30 AM Welcome and Orientation

9:00 AM – 12:30 PM Presentations

**12:30 PM -1:30 PM Lunch**

1:30 PM - 5:00 PM Presentations

**5:00 PM – 6:00 PM Business Meeting**

6:00 PM- 7:00 PM Dinner

### **Sunday, October 13, 2019**

8:30 AM Welcome and Orientation

9:00 AM – 12:30 PM Presentations

**12:30PM -1:30 PM Lunch**

1:30 PM - 5:00 PM Presentations

**5:00 PM – 6:00 PM Planting New Seeds Meeting**

6:00 PM- 7:00 PM Dinner

### **Monday, October 14, 2019**

9:00 AM - 12:00 PM Town Hall and Closing

### Detailed Conference Schedule

Time	Event	Presenter (s)/ Presentation Title	Activity/Room
	<b>Friday Oct. 11<sup>th</sup></b>		
4:00 - 8:00 PM	Registration		Outside of Multipurpose Room
5:00 - 5:30 PM	Welcome Reception	<b>Welcome</b> <i>Petros Katsioloudis</i> <b>Remarks</b> <i>Janice Underwood</i> <b>Introductions</b> <i>Alberto Rodriguez</i> <b>SEEDS Norms, Purpose, Mission</b> <i>Sara Tolbert</i>	Multipurpose Room <i>Room 1106</i>
5:30 - 6:30 PM	Town Hall Meeting	<b>What Does It Mean To Be An Activist In Your Space?</b> Discussion Facilitators <i>Alberto Rodriguez and Sara Tolbert</i>	Multipurpose Room <i>Room 1106</i>
6:30- 7:00 PM		<b>400 Years Later: Dispelling the Myth of the Hierarchy of Humanity</b> <i>Chadra Pittman</i>	Multipurpose Room <i>Room 1106</i>
7:00 - 7:30 PM	Closing		All in attendance Multipurpose Room <i>Room 1106</i>
	<b>Saturday, Oct. 12<sup>th</sup></b>		
8:30 - 9:00 AM	Welcome and Orientation		
9:00 - 10:00 AM	Session I	<b>Defying Gravity: Matters of Joy-full Resistance to Neoliberal ‘Orbits of Practice’ in STEM Teacher Education</b> <i>Nicole Bowers and Maria F.G. Wallace</i>	Wondering 9:00 -9:35 AM <i>Room 3301</i>
		<b>Shifting the Purpose of STEM Education for a Better Future</b> <i>Colin Hennessy Elliott</i>	Wondering 9:35 – 10:10AM <i>Room 3301</i>
		<b>Open Forum: Science education for social justice – Thinking like a movement</b> <i>(No lead, see tables for discussion cards)</i>	Forum 9:35 to 10:00 AM <i>Room 1106</i> <i>Multipurpose Room</i>

10:00 - 10:15 AM	Break		
10:15 - 11:15 AM	Session II	<b>What Do We Talk About When We Talk About Agency and Power?</b> <i>Sanaz Farhangi</i>	Wondering 10:15 -10:50 AM Room 3302
		<b>Feeling Environmental Policing: Possibilities and Challenges for Socioecological Justice</b> <i>Kristen Schaffer and Sarah El Halwany</i>	Wondering 10:50 -11:25 AM Room 3302
		<b>“¡Queremos Hacer Más Experimentos!”: Engaging 2nd Grade Bilingual Students In Critical YPAR Work</b> <i>Caitlin Fine</i>	Workshop 10:15 -11:15 AM Room 3301
11:15 - 11:30 AM	Break		
11:30 - 12:30 PM	Session III	<b>Developing Culturally Positive PCK</b> <i>Regina L. Suriel and Tonjua B. Freeman</i>	Wondering 11:30 – 12:05 PM Room 3302
		<b>Teacher Candidates and the Equitable Inclusive Science Classroom</b> <i>Joi Merritt and Angela Webb</i>	Wondering 11:30 – 12:05 PM Room 3306
		<b>Multi-sited Approach to Studying Statistical Meaning-Making as Social Practice</b> <i>Sarah Radke, Rishi Krishnamoorthy, and Jasmine Ma</i>	Incubator 12:10 -12:30 PM Room 3302
12:30 - 1:30 PM	Lunch		
1:30 to 2:30 PM	Session IV	<b>Open Forum: Community Collaboration and Trans-disciplinarity in Science Education</b> <i>(No lead, see tables for discussion cards)</i>	Forum 1:30 - 2:05 PM Room 1106 Multipurpose Room
		<b>Promoting Culturally Sustaining Pedagogical Strategies through Disciplinary Writing in a Secondary Science and Mathematics Methods Course</b> <i>Kristie Gutierrez, Jori Beck, Kelly Rippard, Yonghee Suh and Kaa Hinton</i>	Incubator 2:10 -2:30 PM Room 3301

		<b>The Biopolitics of Science Education: From Colonial Distinctions to Tracking Disparities</b> <i>Kathryn L.Kirchgasler</i>	Incubator 2:10 -2:30 PM Room 2306
2:30 - 2:45 PM	<b>Break</b>		
2:45 - 3:45 PM	Session V	<b>Addressing Pre-Service Teachers' Superficial Conceptions of Cross-Cultural Education through Transdisciplinarity and Sociotransformative Constructivism</b> <i>Alberto J. Rodriguez and Soo Won Shim</i>	Incubator 2:45 -3:05 PM Room 3302
		<b>Eq-STREAM Teaching --&gt;ESTEAM Learning</b> <i>Joy Barnes-Johnson</i>	Workshop 2:45 -3:45 PM Room 3301
3:45 - 4:00 PM	<b>Break</b>		
4:00 - 5:00 PM	Session VI	<b>The Case for Centering Authentic Relationships for STEM Learning: Breaking Down the Barriers of Paper- selves and Formal Teacher-Student Roles</b> <i>Colin Hennessy Elliott and youth researchers</i>	Townhall 4:00 -5:00 PM Multipurpose Room Room 1106
5:00 - 6:00 PM	Session VII	Leadership Committee Business Meeting	Business Meeting 5:00 -6:00 PM Multipurpose Room Room 1106
6:30 PM	Dinner		
<b>Sunday, Oct. 13th      Presenter      Activity</b>			
8:30 - 9:00 AM	Welcome and Orientation		
9:00 - 10:00 AM	Session I	<b>Exploring NGSS-Aligned Culturally Sustaining Assessments</b> <i>Rasheda Likely and Chris Wright</i>	Wondering 9:00 -9:35 AM Room 3302
		<b>Open Forum: Deconstructing Whiteness in Science Education</b> <i>(No lead, see tables for discussion cards)</i>	Forum 9:00 to 10:00 AM Room 1106

			<i>Multipurpose Room</i>
<b>10:00 - 10:15 AM</b>	<b>Break</b>		
10:15 - 11:15 AM	Session II	<b>Methodological Exploration of Interaction Analysis for Transformative Research</b> <i>Sarah Radke, Ananda Marin and Jasmine Ma</i>	Workshop <i>10:15 - 11:15 AM</i> Room 3301
		<b>["Living the Dream."] Wake up White People! How Do We Avoid The Snooze Button? Strategies to Keep Ourselves From Falling Back Into A Hegemonic Hypnosis.</b> <i>Melissa Campanella and Michael Nocella</i>	Wondering <i>10:15 -10:50 AM</i> Room 3302
		<b>Developing CUREs: Equity and Groupwork in Course--based Undergraduate Research</b> <i>Quentin Sedlacek</i>	Wondering <i>10:50 -11:25 AM</i> Room 3302
<b>11:15 - 11:30 AM</b>	<b>Break</b>		
11:30 - 12:30 PM	Session III	<b>Communication in Equitable Community School Partnerships</b> <i>Meredith Kier</i>	Wondering <i>11:30 -12:05 PM</i> Room 3302
		<b>Conceptualizing Community-Based Science in a Research-Practice Partnership to Support Environmental Science Learning and Environmental Justice</b> <i>Heather F. Clark and Symone A. Gyles</i>	Wondering <i>11:30 -12:05 PM</i> Room 3306
		<b>Reading the Reactionary Politics of Trump's STEM Policy</b> <i>Matthew Weinstein</i>	Incubator <i>11:40 to 12:00 PM</i> Room 3301
<b>12:30 - 1:30 PM</b>	<b>Lunch on site</b>		
1:30 - 2:30 PM	Session IV	<b>Youth Participatory Science</b> <i>Alejandra Frausto, Daniel Morales-Doyle, Adilene Aguilera, Karen Canales, Mindy Chappell, Giani Clay, Elizabeth Herrera, Delani Lopez, Tomasz Rajski, Sara Tolbert</i>	Town Hall <i>1:30 -2:30 PM</i> Multipurpose Room Room 1106

2:30 - 2:45 PM	Break		
2:45 - 3:45 PM	Session V	<b>Investigating the Impact of Sociotransformative Constructivism on Secondary Pre-Service Science Teacher's Professional Development in Costa Rica</b> <i>Marianela Navarro Camacho and Alberto Rodriguez</i>	Wondering 2:45 -3:20 PM Room 3302
		<b>What if all the Kids are White? Preparing Teachers For Social Justice Curricula in Homogenous K-12 Learning Communities</b> <i>Selene Willis</i>	Wondering 2:45 -3:20 PM Room 3306
		<b>Developing an Understanding of Diversity and Social Justice</b> <i>Seema Rivera and Amal Ibourk</i>	Incubator 3:25 -3:45 PM Room 3301
3:45 - 4:00 PM	Break		
4:00 - 5:00 PM	Session VI	<b>Centering Critical Race Epistemology in Science Education: Where do we Start?</b> <i>Christina Restrepo Nazar</i>	Wonderings 4:00 -4:35 PM Room 3302
		<b>Using the SCI Framework to Establish Science Identity</b> <i>Ying-Ting Chiu</i>	Wonderings 4:00 -4:35 PM Room 3306
		<b>Merging Socioscientific Issues and Social Justice for Social Responsibility In Science Education</b> <i>Selene Willis</i>	Incubator 4:40 -5:00 PM Room 3301
5:00- 6:00 PM	Session VII	Leadership Committee Session: Planting New Seeds	LC Session Multipurpose Room 5:00 -6:00 PM Room 1106
6:30 PM	Dinner		
	<b>Monday, Oct. 14th</b>	<b>Service Day</b>	
9:00 AM - 12:00 PM	Town Hall and Closing	<b>For the Seventh Generation: Building a Better Future by Reclaiming Equity through Social Justice</b> <i>Chadra Pittman</i>	Town Hall 9:00 AM - 12:00 PM Multipurpose Room Room 1106

**SEEDS 2019**  
**Science Educators for Equity,**  
**Diversity, and Social Justice**  
**SEEDS Annual International Conference**

**Acknowledgements**

We thank all SEEDS committee members for their time and commitment to organizing the 2019 SEEDS Annual International Conference. We are also grateful to Old Dominion University for hosting our second conference. Finally, thank you to every proposer for your participation, there is no SEEDS conference without your contributions.

Sprouting toward justice!  
Fermenting the soil!  
May we continuously rise up!

The SEEDS Program Committee

**SEEDS Organizing Body**

**2019 Host Committee**

Janice Underwood, Mary Gregory

**Leadership Committee**

Phillip Boda, Caitlin Fine, Tonjua B. Freeman, Alberto J. Rodriguez, Regina L. Suriel, Sara Tolbert, Randy Yerrick, Janice Underwood

**Membership and Communications Committee**

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**Program Committee**

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Maria Wallace  
Matthew Weinstein



## **Volunteers**

Kyndal Askew  
Kimberly Jackson  
Vista Johnson  
Danielle Royal  
Jayla Underwood  
Jordan Underwood

## **Sponsors**

**The American Evolution** <https://www.americanrevolution2019.com/>

### **Old Dominion University**

[https://odu.edu/news/2019/9/seeds\\_conference?utm\\_source=homepage&utm\\_medium=interactive&utm\\_campaign=HP-Slider#.XZTpu\\_IKiUk](https://odu.edu/news/2019/9/seeds_conference?utm_source=homepage&utm_medium=interactive&utm_campaign=HP-Slider#.XZTpu_IKiUk)

**The President's Task Force on Inclusive Excellence** <https://www.odu.edu/about/planning/ptie>

## **Speakers**

**Dr. Petros Katsioloudis, ODU, Chair, STEM Education and Professional Studies**

<https://www.odu.edu/directory/people/p/pkatsiol>

**Dr. Janice Underwood, Chief Diversity Officer, Commonwealth of Virginia**

<https://www.governor.virginia.gov/the-administration/governors-cabinet/>

**Ms. Chadra Pittman, Founder and Executive Director of The Sankofa Projects**

<http://thesankofaprojects.blogspot.com/>

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## **Leisure Activities: Norfolk, Virginia**

**Attractions:**[https://www.google.com/destination/map/topsights?q=attractions+in+Norfolk+VA&sxsrf=ACYBGNT4JZR8lOiovpvLz4izVa0x8rjy9g:1568327919690&source=lnms&sa=X&biw=1824&bih=943&dpr=1&tcfs=&dest\\_src=ts&dest\\_mid=/m/0fwc0&ved=2ahUKEwj8487lrMzkAhXqp1kKHW9NCbYQ6tEBKAQwAHoECAoQBw#dest\\_mid=/m/0fwc0&dest\\_src=ts&tcfs=EhMKCC9tLzBmd2MwEgdOb3Jmb2xr](https://www.google.com/destination/map/topsights?q=attractions+in+Norfolk+VA&sxsrf=ACYBGNT4JZR8lOiovpvLz4izVa0x8rjy9g:1568327919690&source=lnms&sa=X&biw=1824&bih=943&dpr=1&tcfs=&dest_src=ts&dest_mid=/m/0fwc0&ved=2ahUKEwj8487lrMzkAhXqp1kKHW9NCbYQ6tEBKAQwAHoECAoQBw#dest_mid=/m/0fwc0&dest_src=ts&tcfs=EhMKCC9tLzBmd2MwEgdOb3Jmb2xr)

**Norfolk Outlets (Shopping)** - <https://www.premiumoutlets.com/outlet/norfolk>

**Downtown Norfolk** - <https://watersidedistrict.com/>

**Ft. Monroe** -[https://savingplaces.org/places/fort-monroe?gclid=Cj0KCQjw2efrBRD3ARIsAEnt0eiNvU8S97msmFY\\_F4aqQU-aEm04XcQbYY028FbI4AKcYJ25hwvEKXYaAgzHEALw\\_wcB#.XXrJpmZ7mUk](https://savingplaces.org/places/fort-monroe?gclid=Cj0KCQjw2efrBRD3ARIsAEnt0eiNvU8S97msmFY_F4aqQU-aEm04XcQbYY028FbI4AKcYJ25hwvEKXYaAgzHEALw_wcB#.XXrJpmZ7mUk)