

Title	Change in Addendum
WEDNESDAY	
Continental and Diasporic Africa in Science Education (CADASE) 12:30 pm – 1:30 pm Real-Time/Live Presiders: Mary Atwater, University of Georgia Rona Robinson-Hill, Ball State University	Presider Addition: Shari Watkins, American University
NARST Award Recipients Distinguished Contributions to Science Education through Research Award 2021 Valerie Akerson	Name Edit: Valarie Akerson
Engaging Science Education Research and Praxis for the Good of the Public Amid Global Pandemics 1:45 pm – 3:15 pm Real-Time/ Live	Presider Addition: Terrell Morton, University of Missouri Cesar Delgado, North Carolina State University
Contexts, Characteristics, and Interactions in Science Education 1:45 pm -3:15 pm Real time/ live Presider: Susanna Hapgood, University of Toledo	Presider Removal
Hearing the Engineering in Children’s Talk 1:45 pm – 3:15 pm Real time/ live Ron Skinner, MOXI, The Wolf Museum of Exploration and Innovation Danielle Harlow, University of California at Santa Barbara Alexandria Muller, University of California at Santa Barbara	Withdrawn
Indigenous Science Knowledge Research Interest Group Science Education, a Public Good for the Good of the Public? Contributing Indigenous Methodologies to Teaching, Learning and Research 1:45 pm – 3:15 pm Real-Time/Live	Presider Additions: Pauline Chinn, University of Hawai’I at Manoa Bhaskar Upadhyay, University of Minnesota
Graduate Student Committee Graduate Student Forum 3:30 pm – 5:00 pm Real-Time/Live	Presider Addition: Samantha Ringl, University of Kentucky
THURSDAY	
Exploring Gender Issues in Higher Secondary Science Classroom 8:00 am – 9:30 am Real-Time/Live Mohammad Siddique, University of Dhaka Anina Mahmud, University of Dhaka	Presenter Edit: Anina Mahmud will serve as first presenter
The Development of Middle School Students’ Model-Based Explanations on Energy Transformations through Design Thinking 9:45 am – 11:15 am Mustafa S. Topcu, Yildaz Technical University Ayse Ciftci, Mus Alparslan University	Session Addition
Strand 8: In-service Science Teacher Education Computational Thinking and STEM Integration 9:45 am – 11:15 am Real-Time/Live Presider: Stephen Witzig, University of Massachusetts, Dartmouth	Presider Removal

<p>The Influence of Networks on Teachers' Professional Development and Retention: Insights from Examining Communities of Practice through a Lens of Social Networks 11:30 am – 1:00 pm Real-Time/Live</p>	<p>Presider Addition: Samuel Justin Polizzi, Georgia Highlands College</p>
<p>Poster Session #1 Using Online Interventions to Address Summer Learning Loss in Rising Sixth-Graders Bob Shaw, Mary Institute and St. Louis Country Day School Scott Osborne, Clayton School District</p>	<p>Withdrawn</p>
<p>Administrative Sponsored Session Equity and Ethics Committee Basu Symposium 11:30 am – 1:00 pm Real-Time/Live</p>	<p>Presider Addition: Justina Ogodo, Baylor University</p>
<p>Lunch Break 11:30 am – 12:30 pm</p>	<p>Schedule Change: Lunch Break 1:00 pm – 2:00 pm</p>
<p>Constructing and Receiving Peer Feedback on Engineering Designs: Student Engagement and Pedagogical Supports 2:00 pm – 3:00 pm Advanced Pre-recorded Viewing and Live Q&A</p>	<p>Presider Addition: Chelsea Andrews, Tufts University</p>
<p>In-service Teachers Engaging in Science and Engineering Practices 2:00 pm – 3:00 pm Advanced Pre-recorded Viewing and Live Q&A</p>	<p>Presider Addition: Matthew Johnson, Pennsylvania State University</p>
<p>CADASE Graduate Student Fireside Chat: Navigating Academe with Success (duration: 60 min) Organizer: Olayinka Mohorn, University of Illinois Chicago</p>	<p>Name Edit: Olayinka Mohorn- Mintah</p>
FRIDAY	
<p>Poster Session#2 Spectacle and Policy: STEM in the Early Trump Administration Matthew Weinstein, University of Washington, Tacoma</p>	<p>Withdrawn</p>
<p>Poster Session #2 Augmented Reality Teaching in Science Technology Education Valerie Czok, University of Education Weingarten Manuel Krug, University of Education Weingarten Johannes Huwer, University of Education Weingarten Holger Weitzel, University of Education Weingarten</p>	<p>Poster Addition</p>
<p>Opportunities and Challenges of Facilitating Educators' Understanding and Use of the Next Generation Science Standards 9:30 am – 10:30 am Advanced Pre-recorded Viewing and Live Q&A Discussant: Annemarie Palincsar, University of Michigan</p>	<p>Presider Addition: Susana Hapgood, University of Toledo</p>
<p>Strand 6: Science Learning in Informal Contexts Adapting and Scaling the LAST PD Program Conceptual Framework in Preservice Teacher Education Programs 9:30 am – 10:30 am Advanced Pre-recorded Viewing and Live Q&A Abraham Lo, Biological Science Curriculum Study Betty Stennett, Biological Science Curriculum Study Connie Hvidsten, Biological Science Curriculum Study Karen Askinas, Biological Science Curriculum Study</p>	<p>Strand and Session Edit: Strand 8: In-service Science Teacher Education Adapting and Scaling the STeLLA Program Conceptual Framework</p>

	in Preservice Teacher Education Programs
Strand 5: College Science Teaching and Learning (Grades 13-20) Rethinking STEM College Course Designs 9:30 am – 10:30 am Advanced Pre-recorded Viewing and Live Q&A Presider: Joshua Reid, Middle Tennessee State University	Presider Removal
Overcoming Obstacles—Supporting Teachers to Implement Inquiry-Based Teaching 10:45 am – 11:45 am Advanced Pre-recorded Viewing and Live Q&A Alice Hesse, Leibniz Institute for Science and Mathematics Education Stefan Sorge, Leibniz Institute for Science and Mathematics Education Knut Neumann, Leibniz Institute for Science and Mathematics Education	Session Addition
Making the Case to Empower, Evoke, and Revolutionize the Culture of Science for Social Equity 1:15 pm – 2:45 pm Real-Time/Live	Presider Addition: Sara Raven, Texas A&M University
Handbook of Research on Science Teacher Education 1:15 pm – 2:45 pm Real-Time/Live Discussant: Michele Koomen, Gustavus Adolphus College	Presider Addition: Julie Luft, University of Georgia
Continental and Diasporic Africa in Science Education (CADASE) RIG CADASE Posters CADASE RIG: Educative STEM Materials that Use and Evoke African American Capital 1:15 pm – 2:45 pm Real-Time/Live	Presider Addition: Jonathan Hall, University of West Florida
How to Get Your Research Published in Science Education Journals 1:15 pm – 2:45 pm Real-Time/Live CBE-Life Science Education Kimberly Tanner, San Francisco State University Jeff Schinske, Foothill College School Science and Mathematics Bridget Miller, University of South Carolina Christie Martin, University of South Carolina	Session Addition
Networking Concurrent Sessions: Together Around the Globe 3:30 pm – 5:30 pm Drop Your Research/Theory/Test Tube Like it's Hot	Cancelled
SATURDAY	
Socio-Scientific Issues-Based Instruction for Scientific Literacy Development 8:00 am – 9:30 am Real-Time/Live Sami Kahn, Princeton University Wardell Powell, Framingham State University Aysegul Oguz Namdar, Recep Tayyip Erdogan University Hyunok Lee, Seoul National University Mark Newton, East Carolina University Dilek Karisan, Adnan Menderes University Gillian Roehrig, University of Minnesota Benzegül Durak, Duzce University Li Ke, University of North Carolina at Chapel Hill Dana Zeidler, University of South Florida	Presenter Change: Benzegül Durak, Duzce University will be replaced by Mustafa Topcu, Yildaz Technical University

<p>How Do Pre-service Teachers Use Learning Progressions when Interpreting Student Thinking in Mechanics? 8:00 am – 9:30 am Real-Time/Live Cristoph Münster, Justus Liebig University, Giessen Claudia Von Aufschnaiter, Justus Liebig University, Giessen</p>	<p>Name Edit: Christoph Münster, Justus Liebig University, Giessen</p>
<p>Strand 13: History, Philosophy, Sociology, and Nature of Science Using Augmented Reality and Mixed Reality to Enhance Science Learning 9:45 am – 10:45 am Advanced Pre-recorded Viewing and Live Q&A</p>	<p>Strand Edit: Strand 12: Technology for Teaching, Learning, and Research Using Augmented Reality and Mixed Reality to Enhance Science Learning 9:45 am – 10:45 am Advanced Pre-recorded Viewing and Live Q&A</p>
<p>Closing Session 12:15 pm – 1:00 pm Real-Time/ Live</p>	<p>Session Edit: NARST: A 2020-21 Snapshot and Beyond Eileen Carlton Parsons, Outgoing NARST President</p> <p>2022 NARST Conference, Vancouver BC</p>