

2022 NARST Annual International Conference

Participants Schedule

The following list is provided to allow you to look up sessions to which you have a commitment during the 2022 Annual International Conference, including Stand-Alone Paper Sets, Related Paper Sets, Strand- or Committee-sponsored Sessions, and Symposia. Both all-virtual and in-person sessions are included. Not included: the Poster and Roundtable Discussion session, pre-conference workshops and similar events, and working group meetings.

Under Sessions, you will find the titles, dates, and times of the sessions to which you are connected as an author, co-author, presider, or discussant.

Every effort has been made to minimize schedule conflicts for all authors. If you find that you are scheduled to present in two sessions at the same time, please contact the Strand Coordinators. They can rearrange the order of presentations to allow you to present in both sessions.

Name	Session Titles, Dates, Times
A. McKenzie Sonderegger	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Aaron Kidd	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Abby Rhinehart	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Abdelkrim Hasni	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Abdirizak M. Warfa	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Abigale Ly	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Abismrita Ahakravarty	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
Adam Bell	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Adam M. Siepielski	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Adam V. Maltese	ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Adekunle I. Oladejo	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Adeleke Micha Ige	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Adeniran G Adewusi	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm

Adi Mendler	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm
Aditi Wagh	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Adrian L. Adams	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Adriane R. Lam	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Ahmad Basheer	ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Ain Grooms	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Akira Harper	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Alberto Bellocchi	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am
Alec M. Bodzin	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Alejandro J. Gallard	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm, ST2:AS-A community of practice contextualized within sociocultural phenomena: Mitigating teaching and learning of STEM through counter-praxis - 03/27/2022 03:00pm to 04:30pm, ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm, Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am
Alex Hammond	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Alex J. Sobotka	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Alex T. St. Louis	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm
Alexandra I. Race	ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Alexandra Moormann	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Alexandria Brasili	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Alexandria Muller	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Alexis Riley	ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am
Alexis Van Howe	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Alfredo Jornet	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Ali Bicer	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Ali Raza	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Alicia Batailles	ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm
Alicia C. Alonzo	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Aline Gjelij	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm
Alison Brockhouse	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm

Alison Cullinane	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
Alison Mercier	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm, ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Alison R. Miller	ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Aliza Zivic	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Allan Cohen	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
Allison Bradford	ST12:Sym-Applying epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Allison M. Esparza	ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Allison T. Metcalf	ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm, Virtual Session C - 03/30/2022 10:30am to 12:00pm
Ally Hunter	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Alyssa Freeman	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Amal Ibourk	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm, ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Amanda Benedict-Chambers	ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Amanda Diaz	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Amanda Gonczi	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Amanda M. Gunning	ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am, ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Amanda N. Peel	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Amanda Wagner-Pelkey	ST6:SC-Papers-Informal learning centers - Transition during crisis - 03/29/2022 09:00am to 10:30am
Amane Alatamin	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Amber Adgerson	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Amber S. Bismack	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Amber Simpson	ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Ambusaidi K. Abdullah	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Amelia Wenk Gotwals	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
America Ramirez	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Amir Bralin	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Amir Mitchell	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Amon Millner	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Amy Corbett	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm

Amy Guillotte	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Amy M. Masnick	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Amy R. Pallant	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am, ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Amy R. Sapkota	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Amy R. Taylor	ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Amy Stephens	ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Amy Tankersley	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Amy V. Farris	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Ana I. Benavides Lahnstein	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Ana M. Rivero	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Ana Sofia Pinho	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Ana Valdmann	ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Ananya Matewos	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Anastasios Zoupidis	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Anat Shauly	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Anat Yarden	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm, ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Andrea Ash	ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Andrea Möller	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm, ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Andrea Reeder	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Andrea Weinberg	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Andrea Wentworth Henrie	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Andreas Borowski	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Andreas Nehring	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Andres Acher	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Andrew Duffy	Virtual Session A - 03/27/2022 03:00pm to 04:30pm

Andy Cavagnetto	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Angela Calabrese-Barton	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Angela Lyle	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Angela M. Chapman	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm, ST2:AS-A community of practice contextualized within sociocultural phenomena: Mitigating teaching and learning of STEM through counter-praxis - 03/27/2022 03:00pm to 04:30pm
Angela M. Kelly	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm, ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm, ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Angela N. Google	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Angela Pagano	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Angela T. Barlow	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Angela White	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Anita Schuchardt	ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Ann Childs	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm
Ann E. Lambert	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Anna Beniermann	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Anna Ferroggiaro	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Anna Maria Arias	ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Anna Nowak	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm
Anna Rafferty	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Anna S. Grinath	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Anne Egger	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Anne Laius	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm

Anne M. McAlister	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Anne Robillard	ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Annette Upmeier Zu Belzen	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Annica Gullberg	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm
Annie Allen	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Annie E. Miller	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Anshuman Swain	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Anthony Bailey	ST2:AS-A community of practice contextualized within sociocultural phenomena: Mitigating teaching and learning of STEM through counter-praxis - 03/27/2022 03:00pm to 04:30pm
Anthony Baker	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Anton Puvirajah	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Antonio P. Gutierrez de Blume	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Anza Mitchell	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Aoife Cahill	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
April A. Nelms	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
April L. Luehmann	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Archer Harrold	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Ariana Garza Garcia	ST2:AS-A community of practice contextualized within sociocultural phenomena: Mitigating teaching and learning of STEM through counter-praxis - 03/27/2022 03:00pm to 04:30pm
Arianna Pikus	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Arif Rachmatullah	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Arlette Bassaber	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Armin Baur	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Arnau Amat	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am
Arne Bewersdorff	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Arthur Eisenkraft	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Arunika Saxena	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Asha Rao	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm

Ashelee Rasmussen	ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Ashimi B. Ganiyyu	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am
Ashley Iveland	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Ashley N. Jackson	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Ashlyn Pierson	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Ashwin Krishnan Mohan	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
Asli Sezen-Barrie	Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm
Audrey Mohan	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Austin Heil	ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Ava Marie Gibler	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Avraham Merzel	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Awais Syed	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Axel Langner	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am
Ayca K. Fackler	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Ayelet Baram-Tsabari	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Ayelet Shavit	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Ayse Ciftci	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm, ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Babe Liberman	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Barbara Hug	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Barbara Schneider	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Bashirah Ibrahim	Virtual Session A - 03/27/2022 03:00pm to 04:30pm, ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm
Bat Shahr Dorfman	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Baylee Edwards	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Beatriz Becerra	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am

Ben A. Janney	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Benjamin C. Herman	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Benjamin R. Lowell	ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Benjamin S. Mahrer	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Benny Mart Hiwatig	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Bethany Daniel	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Bethany Klemetsrud	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am
Betsy Beckert	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Betul Ekiz Kiran	ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Beyza Okan	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Bhaskar Upadhyay	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am, Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm, Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am
Bianca Reinisch	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Bianca Schindeldecker	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Birgit Jana Neuhaus	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Birgitte Lund Nielsen	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Bjørn Friis Johannsen	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Blanca Puig Mauriz	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Bobby Habig	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Bonnie B. Glass	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Brad Hughes	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm
Brandin M. Conrath	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm, ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Brandon A. Holding	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Brandon Call	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Brandon Rodriguez	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Brandon Sherman	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am

Breanna Beaver	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Brenda R. Brand	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Brett Baerlocher	ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Brett Criswell	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Brian Abramowitz	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Brian D. Hartman	ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm
Brian E. Gravel	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Brian J. Reiser	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Brian M. Donovan	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Brian McGowan	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm
Brian Reiser	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Brian S. Robinson	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Brian Sato	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Bridget K. Mulvey	Administrative Session-Leaders Wanted: Envisioning Pathways to NARST Leadership - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Bridgette G. Johnson	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Brienne May	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Brittany Garvin-Hudson	Administrative Session-Unifying Our Community through Science Education - 03/28/2022 02:45pm to 04:15pm
Brock Couch	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Bronwen Cowen	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm
Brooke A. Whitworth	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Bruce MacFadden	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Bryan A. Brown	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Burkhard Priemer	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm, ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm, ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am

Burrell Smithen	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Busra Karga	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Cailisha L. Petty	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Cameron Dexter-Torti	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Candice R. Guy-Gaytán	ST10:RP-Research and Practice Perspectives on Developing and Implementing a Three-Dimensional District Biology Assessment - 03/28/2022 08:00am to 09:30am
Cansu Basak Uygun	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Car Mun Kok	ST6:SC-Papers- Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Cari F. Herrmann Abell	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm, ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Carina M. Rebello	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Carla Zembal-Saul	ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Carlos Mometti	Virtual Session A - 03/27/2022 03:00pm to 04:30pm, ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Carly Chillmon	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Carmel Bar	ST12:Sym-Applying epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Carmen Bucknor	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Carol Pazera	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Carola Garrecht	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm, ST14:RP-Modelling, Assessment, and Promotion of Climate Literacy - 03/30/2022 08:45am to 10:15am
Carolina De Barros Vidor	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm
Caroline Hadley Long	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Caroline T. Spurgin	ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm, ST11:RP-Raciolinguistic Perspectives in Science Education - 03/29/2022 03:40pm to 05:10pm
Carrie Lee	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Carrie Tzou	ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Carrie-Anne Sherwood	ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Cary Chadwick	ST6:SC-Papers- Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Catherine Mary Kenyon	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm, ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Catherine Lemmi	ST11:RP-Raciolinguistic Perspectives in Science Education - 03/29/2022 03:40pm to 05:10pm

Catherine Quinlan	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm, ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Catherine Riegler-Crumb	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Catherine Wagner	ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am, ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Cathryn Manduca	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Cathy Zozakiewicz	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm
Cecília Galvão	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Cesar Delgado	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Changzhao Wang	ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Charisse N. Southwell	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Charlene M. Czerniak	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Charles B. Hodges	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Charles Nilon	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Charles R. Peterson	ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Charles Yelton	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Charlie Mahoney	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Chelsea Sexton	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm
Cheng Liu	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Cheng-Wen He	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Chester Arnold	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Chin-Chung Tsai	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
Chris D. Griesemer	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Chris Georgen	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Christa Haverly	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm, ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Christian Förtsch	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm

Christina Krist	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Christina L. Baze	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Christina M. Murzynski	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Christina Siry	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
Christina V. Schwarz	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm
Christine D. Tippett	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Christine Ipsen	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Christine M. Cunningham	ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Christine McGrail	ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am
Christine P. Schlendorf	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Christine R. Lotter	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Christoph Kulgemeyer	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm
Christopher Cappelli	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Christopher G. Wright	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Christopher J. Harris	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Christopher Lore	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am
Christothea Herodotou	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Christyn Byrd	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Chun-Yen Chang	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Cindi Smith-Walters	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Claudia Faria	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Claire Paton	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm
Claire Robson	ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Clarissa Deverel-Rico	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Clarissa Keen	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Claudia Hagan	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm, ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Claudia Vergara	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am

Claudia Walker	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Claus Bolte	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am
Clausell Mathis	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am
Colette E Pappas	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Colin Hennessy Elliott	ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Corey A. Payne	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am, ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Cory A. Buxton	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm
Cory Susanne Miller	ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm
Cory T. Forbes	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Costas P. Constantinou	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Courtney Ngai	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Cristian Merino	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Cuc Vu	ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Cynthia Crockett	Administrative Session-NARST/NSTA Annual Research Worth Reading Recognition - 03/29/2022 09:00am to 10:30am
Cynthia Passmore	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Cynthia T. Baeza	ST11:RP-Raciolinguistic Perspectives in Science Education - 03/29/2022 03:40pm to 05:10pm
Dürdane Bayram-Jacobs	ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Dagmar Traub	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Dale R. Baker	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Dan Voss	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Dana L. Zeidler	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm, ST13:AS-The Unnatural Nature of Science without Norm Lederman: Honoring the Legacy of Dr. Norman Lederman - 03/28/2022 08:00am to 09:30am, ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm
Dana Roach	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Dana Vedder-Weiss	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am, ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST6:SC-Papers-Informal learning in the

	community - 03/29/2022 02:00pm to 03:30pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 1 - 03/29/2022 03:40pm to 05:10pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 2 - 03/29/2022 05:20pm to 06:50pm, ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Daniel Ayomide Solarin	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Daniel C. Edelson	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Daniel K. Capps	ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Daniel Kirk	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Daniel L. Dickerson	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Daniel Laumann	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
Daniel Olsson	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Daniel Pimentel	ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Daniel Wall	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Daniela Fiedler	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Danielle Boyd Harlow	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Danielle E. Lin Hunter	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Danielle M. Vande Zande	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm
Danielle N. Maxwell	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Danielle R. Scharen	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Danielle T. Keifert	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Dante Cisterna	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, Administrative Session-NARST/NSTA Annual Research Worth Reading Recognition - 03/29/2022 09:00am to 10:30am, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Danusa Munford	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Darlene Tieu	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Darrell Allen	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Dave Del Gobbo	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
David Buschhüter	ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
David C. Owens	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
David Dickson	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm

David F. Jackson	ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am
David F. Treagust	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
David G. Peter	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
David J. Hauck	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
David L. Fortus	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
David M. Moss	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
David McKinney	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
David P. Steele	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
David Perl Nussbaum	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm
David S. Di Fuccia	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
David Santibanez	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
David Segura	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm
David Wells	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
David Yaron	Virtual Session C - 03/30/2022 10:30am to 12:00pm
David Zandvliet	Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm
Day W. Greenberg	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Déana A. Scipio	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Deb L. Morrison	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Deborah L. Hanuscin	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Deborah O. Agbanimu	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Debra Bernstein	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am, ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Deepika Menon	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm, ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Dennis Dietz	ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am

Dennis M. Lee	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Devasmita Chakraverty	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Devon Kinsey	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Devon M. Christman	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Devon Riter	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Dewi Ungu	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
Diana Camacho	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm
Diana J. Arya	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Diane Susan Wright	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Diego F. Rojas-Perilla	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm
Dietmar Kennepohl	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Dilara Goren	ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm
Dilara Kara	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Dimitris Tsoubaris	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Dina Drits-Esser	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Dina Thomason	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Dina Tsybulsky	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Dionne Cross Francis	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Dirk Krüger	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Dirk S. Gellermann	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm
Do Hyong Koh	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm
Dogan Yuksel	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Dominick Fantacone	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Donald McNish	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Dongsheng Dong	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Donna Governor	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am

Donna Peruzzi	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Dorina Espinoza	ST6:SC-Papers- Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Doris B. Ash	ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Doris Lewalter	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm
Dorothy Holley	ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Dustin Schiering	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm
Duygu Yilmaz Ergul	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Dvora Katchevich	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Ebru Kaya	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm, ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm, Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Eda Erdas Kartal	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
Edit M. Yerushalmi	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Edna Tan	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm, ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Ehud Aviran	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Ekaete Udoh	ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Ekaterina Rzyankina	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Elaine V. Howes	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm
Eleanor Kenimer	ST8:RP-Centering Place-Based Education for Teaching Science Outdoors in Urban Contexts - 03/28/2022 11:00am to 12:30pm
Eleanor Richard	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Elena Calder�n-Canales	ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Elena Novak	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Eli Tucker-Raymond	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Elif Selcan Oztay	ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
�lise Rodrigue-Poulin	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Elizabeth A. Davis	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Elizabeth A. Ring-Whalen	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Elizabeth B. Dyer	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Elizabeth B. Lewis	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm, ST7:SC-Papers- Creating spaces and resources for high quality

	learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am, ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Elizabeth Diaz-Clark	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Elizabeth Edmondson	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm
Elizabeth Forde	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Elizabeth Hasseler	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Elizabeth Lakin	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Elizabeth X. De Los Santos	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, ST10:RP-Research and Practice Perspectives on Developing and Implementing a Three-Dimensional District Biology Assessment - 03/28/2022 08:00am to 09:30am, ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Elke Sumfleth	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Ella Ofek-Geva	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm
Ella Yonai	ST6:SC-Papers-Informal learning centers - Transition during crisis - 03/29/2022 09:00am to 10:30am
Ellen Altermatt	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Ellen Iverson	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Ellen Watson	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
Elon Langbeheim	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm, ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Elsa Guilherme	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Emil Eidin	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm
Emily A. Dare	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am, ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm, ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Emily C. Allen	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Emily C. Miller	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm, ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Emily C. Turner	Administrative Session-Graduate Student Forum - 03/28/2022 06:15pm to 07:20pm, ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Emily Harrison	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm
Emily J. Borda	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Emily J. Noonan	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm

Emily J. Perry	ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am, ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Emily M. Walter	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Emily Reigh	ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Emily Rose Seeber	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Emily Slater	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Emma C. Gargroetzi	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Emma J. Refvem	ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Emma Wester	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Emmanuel Mushayikwa	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Emrah Ozyurek	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Ene Ernst Hoppe	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Enrique H. Suarez	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm
Enrique Lopez	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Enshan Liu	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Erdogan Kaya	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Eric A. Kirk	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Eric Kuo	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am
Eric N. Wiebe	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Eric Nolan	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Eric Riggs	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Erica Wortham	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Erik Arevalo	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Erik Barendsen	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am
Erik J. Schettig	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Erik Knain	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Erika Offerdahl	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm

Erin E. Peters-Burton	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Erin M. Furtak	ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Ernani Vassoler Rodrigues	Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Esperanza Artilles	ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Esther O. Peter	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Ethan Danahy	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Étienne Gendron	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Eve Manz	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Ezgi Yesilyurt	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Ezra Gouvea	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Fabian Gabriel Sterzing	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm
Fabien Güth	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Farah Faruqi	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Farrah Simpson	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm
Fatma Kaya	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Fayette Shaw	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Felicia M. Mensah	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm, ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am, Administrative Session-Publishing, Reviewing, and Writing for JRST - 03/29/2022 02:00pm to 03:30pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Felicia Rodriguez	ST2:AS-A community of practice contextualized within sociocultural phenomena: Mitigating teaching and learning of STEM through counter-praxis - 03/27/2022 03:00pm to 04:30pm
Ferah Ozer	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Fernando Flores-Camacho	ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm

Feyza Achilova	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Florian Böschl	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm
Desi	ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Foluso O. Okebukola	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Fouad Abd-El-Khalick	ST13:AS-The Unnatural Nature of Science without Norm Lederman: Honoring the Legacy of Dr. Norman Lederman - 03/28/2022 08:00am to 09:30am, ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm
François G. Amar	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Francesca A. Williamson	Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Francisca A. Allename	ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Francisco José Castillo Hernández	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Francisco Parra	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Frank Bowman	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am
Frankie Calabrese Barton	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Franklin U. Onowugbeda	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Fred A. Awaah	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Fredrica Nash	ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am
Frieda Reichsman	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Frikkie George	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
G. Michael Bowen	Administrative Session-NARST/NSTA Annual Research Worth Reading Recognition - 03/29/2022 09:00am to 10:30am
Gabriel Korede Adeosun	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm
Gabriela Quintela Do Carmo	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Gabriella Shwartz	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Gabrielle Jablonski	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm

Gail Jones	ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
Gail Richmond	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm, ST8:RP-Centering Place-Based Education for Teaching Science Outdoors in Urban Contexts - 03/28/2022 11:00am to 12:30pm
Gary E. Bingham	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Gary Weiser	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm, ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Gavin W. Fulmer	ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Gaye Ceyhan	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Gayle A. Buck	Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm
Gena C. Sbeglia	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm, Virtual Session E - 03/29/2022 09:00am to 10:30am
George E. De Boer	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
George E. Glasson	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Georgia W. Hodges	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm, ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Gerald Tembrevilla	ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Gianna Lopez-Colson	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Gili Marbach-Ad	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm, ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Gillian Puttick	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Gillian Roehrig	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Gillian U. Bayne	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm
Gina N. Svarovsky	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Ginger Shultz	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Giulia Tasquier	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Glen Martin	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Glenn A. Clark	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Glenn R. Dolphin	Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Gozde Tosun	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am
Grace Rose	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Grace Sekaya	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm
Graceanne Taylor	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm

Gracie Merrett	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Grant E. Gardner	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm, ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Grant Wilson	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Greg T. Rushton	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Gregor Torkar	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Gregory J. Kelly	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am, ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Greses Pérez	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am, ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Guadalupe Martinez	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm
Guly Ortal-Ivry	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Gunkut Mesci	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
Gunnar Friege	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm, ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm, ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Gur Arie Livni Alcasid	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Guraustin Brar	ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Gwen Marchand	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Hadeel Omar Edrees Dabbah	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Hadrian Pollard	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Haider Ali Bhatti	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Hailan Wang	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Hajira Nusret	ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Hamdican Yildirim	ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Hamza Malik	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Hanna Stammes	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm
Hannah Etchison	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Hanno Michel	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm, ST14:RP-Modelling, Assessment, and Promotion of Climate Literacy - 03/30/2022 08:45am to 10:15am

Harald Brandt	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Harini Krishnan	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Harleen Singh	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Harold Hurtado	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Hartley Banack	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Hasan Deniz	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Hassan H. Tairab	Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Hatice O. Tasdemir	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Hayat Alhokayem	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Hayat Hokayam	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Hayley Dunlop	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Heather Dahl	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Heather F. Clark	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Heather J. Johnson	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Heba El Deghaidy	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Hector N. Torres	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Hee-Sun Lee	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am, ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Heesoo Ha	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Heidi B. Carlone	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm, ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Heidi Cian	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Heidi L. Ballard	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Heidi L. Masters	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm

Helen Cramman	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Helen F. Gray	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Helena Aptyka	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm
Helena Van Vorst	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Henriette T. Holmegaard	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Henry Matovu	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
Hernan Cofre	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Hillary Paul Metcalf	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Holly Amerman	ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Hong H. Tran	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Hope K. Gerde	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Hsiao-Ching She	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Hussein T. Abdulazeez	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am
Hye Sun You	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm, ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Hyunju Lee	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
I-Chien Chen	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Ian Descamps	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Ian Nicolaidis	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Ibrahim H. Yeter	Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
Ibrahim S. Al Harthy	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Ibukunolu A. Ademola	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm

Idit Adler	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Ilesha Jackson	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Ihsan Ghazal	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Ilgim Ozergun	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Ilkem Ozdinc	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Iman AlAmirah	Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Imogen R. Herrick	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am, ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Imole J. Samson	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Inés Mosquera Bargiela	Administrative Session-Graduate Student Forum - 03/28/2022 06:15pm to 07:20pm
Ineke Henze-Rietveld	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Ingmar Schneider	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Insa Melle	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Ira Caspari	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Irene Drymiotou	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Irene S. Bayer	ST8:RP-Centering Place-Based Education for Teaching Science Outdoors in Urban Contexts - 03/28/2022 11:00am to 12:30pm
Irit Vivante	ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Isabel Chagas	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Isaiah Kent-Schneider	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm
Isha DeCoito	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm
Israel O. Adebayo	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm
Itsik Aroch	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Ivanna Pengelley	ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Jack B. Holbrook	ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Jacklyn Powers	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Jaclyn M. Easter	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Jacob Kelter	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm

Jacob Pleasants	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm, ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Jacob Woodbury	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Jaimie Lauren Miller-Friedmann	ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Jaleel Howard	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
James M. Nyachwaya	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
James P. Spillane	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Jamie D. Noll	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Jamie Elsner	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Jamie N. Mikeska	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm, ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm, ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Jamie Wallace	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm, ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Jan H. Van Driel	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Jana Visnovska	ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Jane J. Lee	ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Janelle M. Bailey	ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Janelle McFeetors	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Janet Carlson	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Janet Vertesi	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Janice Miller-Young	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Janne-Marie Bothor	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
Jasmine McBeath Nation	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Jasmine Yeung	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Jason Buell	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Jason Carey	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Jason M. May	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm

Jason Morpew	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Jason R. Wiles	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Jean-Philippe Ayotte-Beaudet	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm, ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm, ST6:SC-Papers-Informal learning centers - Transition during crisis - 03/29/2022 09:00am to 10:30am
Jeanette Wilmanski	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Jeanna Heuring	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Jeanna R. Wieselmann	Administrative Session-Leaders Wanted: Envisioning Pathways to NARST Leadership - 03/28/2022 08:00am to 09:30am, ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Jeanne L. Brunner	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am, ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am
Jeff Chandler	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Jeffrey D. Radloff	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Jeffrey Nordine	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Jeffrey Spencer	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Jen C. Taylor	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Jen-Yi Wu	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Jennifer A. Gatz	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am
Jennifer Adams	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm, ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm
Jennifer Ayala	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Jennifer C. Parrish	ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Jennifer Chiu	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Jennifer E. Bauer	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Jennifer Gallagher	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Jennifer Heisler	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Jennifer Kidd	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Jennifer L. Chiu	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Jennifer Maguire	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm

Jennifer Richards	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm
Jennifer Schellinger	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm
Jennifer Tripp	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Jenny D. Ingber	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Jenny M. Dauer	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am, ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am, ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Jeppe Langkjær	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Jepri A. Saiful	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Jeremiah Henning	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Jeremy Belramino	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm
Jeremy Roschelle	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Jeremy W Melton	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Jerrid W. Kruse	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Jesse L. Wilcox	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Jessica B Buckley	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Jessica Gale	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Jessica Karch	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Jessica L. Alzen	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Jessica Stephenson Reaves	ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Jessica Watkins	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Jessica White	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm
Jessie Arneson	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Jessie Jennewein	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Ji Shen	ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Jianlan Wang	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm

Jihu Lee	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Jill A. Wertheim	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm
Jillian L. Wendt	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Jim A Minstrell	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Jing Lin	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
Jingrui Jiang	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Jinwoong Song	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
Jiyeon Hong	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Joan Kaderavek	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Joanna Schneider	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
Joanne K. Olson	ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Joaquim Pintassilgo	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Jodi Davenport	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Jodie Miller	ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Joe De Leon	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Joe Taylor	Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Joelle Halliday	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Johan Tabora	Administrative Session-Graduate Student Forum - 03/28/2022 06:15pm to 07:20pm
Johannes Addido	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Johannes Jageman	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm
John D. Leyba	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
John Galisky	ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
John Holliday	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
John Lawrence Bencze	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
John R. Ruppert	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
John Settlage	ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
John Volin	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
John Y. Myers	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm
Joi Merritt	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm
Jonathan L. Hall	Administrative Session-Unifying Our Community through Science Education - 03/28/2022 02:45pm to 04:15pm

Jonathan R. Bowers	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm, ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Jonathan Simmons	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Jonathan Steinberg	ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Jonathon Grooms	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Jongchan Park	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Jordan L. Henley	Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Jose M. Pavez	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am, Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Joseph M. Hardcastle	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Joseph S. Krajcik	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm, ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Joseph T. Wong	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm
Joseph V. Watts	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Josephine Booth	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Joshua A. Ellis	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Joshua Reid	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Joshua Rosenberg	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am
Josie C. Melton	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Joy Ham	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Juan B. Lazo	ST2:AS-A community of practice contextualized within sociocultural phenomena: Mitigating teaching and learning of STEM through counter-praxis - 03/27/2022 03:00pm to 04:30pm
Juan P. Jimenez	ST3:Sym-International Collaborative Investigation of Third Grade Students' Understandings of Scientific Inquiry - 03/28/2022 11:00am to 12:30pm
Judith A. Cooper-Wagoner	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm, ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Judith A. Morrison	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Judith Gulikers	ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm

Judith Hillier	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Judith S. Lederman	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm, ST13:AS-The Unnatural Nature of Science without Norm Lederman: Honoring the Legacy of Dr. Norman Lederman - 03/28/2022 08:00am to 09:30am, ST3:Sym-International Collaborative Investigation of Third Grade Students' Understandings of Scientific Inquiry - 03/28/2022 11:00am to 12:30pm
Julia Eckhard	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Julia Gouvea	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Julia Lorke	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Julia Woithe	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Julian A. Fischer	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
Julianna Nieuwsma	ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Julie A. Bianchini	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Julie A. Luft	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Julie Angle	ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Julie C. Brown	ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm
Julie Nonnekens	Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Julie R. Robinson	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am, Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm
Julie Roberts	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Julie Yu	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Julpa Rajyaguru	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am
Justin S. Dillon	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
Justin Shaifer	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm

Justina A. Ogodo	Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am
Juyeon Leet	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
K. C. Busch	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm, ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
K. Supriya	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Kaare Sikuaq Erickson	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Kamal P. Koirala	Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm
Kara Haas	ST8:RP-Centering Place-Based Education for Teaching Science Outdoors in Urban Contexts - 03/28/2022 11:00am to 12:30pm
Karel Kok	ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am
Karen Benn Marshall	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Karen C. Goodnough	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Karen Marie Collier	ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Karen Woodruff	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm
Karin Lohwasser	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Karin Tsarfati-Shaulov	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am
Karina D. Méndez Pérez	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Karl G. Jung	ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Karrie A. Wikman	ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Kassandra Ortega	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Katarina Gomez	ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm
Kate Henson	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Kate Popejoy	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Katerina P. Günter	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm, ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Katherine Doerr	ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Katherine L. McNeill	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 1 - 03/29/2022 03:40pm to 05:10pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 2 - 03/29/2022 05:20pm to 06:50pm, ST2:SC-Papers-Equity & Social Justice in

	Science Teaching & Learning - 03/30/2022 08:45am to 10:15am, ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Katherine McCance	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Katherine Miller	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm
Katherine R. McCance	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Katherine Wade-Jaimes	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm, ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Kathleen Schenkel	ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm
Kathryn Green	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Kathryn L. Kirchgasser	ST11:RP-Raciolinguistic Perspectives in Science Education - 03/29/2022 03:40pm to 05:10pm
Kathryn Leve	ST14:RP-Modelling, Assessment, and Promotion of Climate Literacy - 03/30/2022 08:45am to 10:15am
Kathryn M. Bateman	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am, ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm, ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Kathryn Rende	ST6:SC-Papers-Informal learning centers - Transition during crisis - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Kathryn Scantlebury	Administrative Session-Sandra K. Abell Institute for Doctoral Students 2021 Poster Symposium - 03/28/2022 08:00am to 09:30am
Kathryn T. Stevenson	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Katia Bill Nielsen	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Katie L. Brkich	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Katy Easley	ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm
Katy Nilsen	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Kayla P. Flanagan	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
Kaylee Ortega	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Keith R. Langenhoven	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Keith Topping	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Kelly Knight	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Kelsey D. Edwards	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm
Kelsey McKee	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm

Kenneth Varner	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Kent J. Crippen	Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am, ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Keren Grinautsky	Virtual Session E - 03/29/2022 09:00am to 10:30am
Keren Mintz	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Keren Sarah Levy	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Kerri Pratt	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Kerry Rose	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Kerstin Te Heesen	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Kevin Cherbow	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Kevin Hall	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Kevin Hewitt	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm
Kevin J. Pugh	ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Kevin W. McElhaney	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Khadijah Al Balushi	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Khanh Q. Tran	ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am
Khomson Keratithamkul	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Kilan Ashad-Bishop	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Kim Lange-Schubert	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm
Kim Miles	ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Kim-Alessandro Weber	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm
Kimberly Ann Currens	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Kimberly Carroll Steward	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Kinsey Zacharski	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Kirby Whittington	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Kirsten K. Mawyer	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Klaudja Caushi	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm
Klint Kanopka	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm

Knut Neumann	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, Administrative Session-NARST/NSTA Annual Research Worth Reading Recognition - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Krishna Kaipa	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Kristen Davidson	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Kristen Schaffer	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Kristen St. John	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Kristen V. Larson	ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Kristen Wendell	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Kristie S. Gutierrez	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Kristin E. Fenker	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Kristin L. Gunckel	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Kristina Fricke	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Kristine A. Antonyan	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm
Kristine Callis-Duehl	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Kurt Holland	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Kyla Smith	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Lama Z. Jaber	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm, ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am, ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm, Virtual Session C - 03/30/2022 10:30am to 12:00pm
Latanya Robinson	ST15:RP-Explorations of K-12 Integrated STEM Teaching - 03/29/2022 09:00am to 10:30am
Laura A. Weingartner	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Laura B. Sample McMeeking	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Laura B. Schneider	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Laura Dell	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm, ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Laura M. Cisneros	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm

Laura Martin Ferrer	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am
Laura Peticolas	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Laura Zangori	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Lauren A. Barth-Cohen	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Lauren Brodsky	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Lauren Cabrera	ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Lauren Duffy	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Lauren Madden	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm, ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am
Lauren N. Emery	ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Lauren P. Saenz	ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Lauren Snow	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Lauren Vargas	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Lauren Wagner	ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Lea Taragin-Zeller	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Lei Liu	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Leroy Groflmann	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Leslie Atkins Elliott	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Leticia Gallegos-Czares	ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Leticia Perez	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Letong Zhang	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Lexie Zhao	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Lezly Taylor	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm, ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Li Ke	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am, Administrative Session-Publishing, Reviewing, and Writing for JRST - 03/29/2022 02:00pm to 03:30pm, Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm
Li-Ya Wang	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm

Liam Guilfoyle	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm
Libby Gerard	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Lila Moseley	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Lilach Ayali	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Lili Orland-Barak	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Liliana Garcia	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher eucation - 03/29/2022 05:20pm to 06:50pm
Lin Ding	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Lin Li	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Lincoln Larson	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Linda B. Purvis	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Linda C. Fuselier	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Linda Nicholas-Figueroa	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Lindsay Hetherington	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Lindsay M. Carlisle	ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Lindsey Mohan	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Ling L. Liang	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Linlin Li	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Lisa A. Borgerding	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm, ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm,Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Lisa Ellsworth	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Lisa L. Walsh	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Lisa Lundgren	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm, ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Lisa M. Paciulli	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Lisa Stinken-Rösner	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Lizette de Robles	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm
Lorelie Imperial	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Lori Andersen	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Loucas T. Louca	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Louisa A. Stark	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Louise Ammentorp	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm

Louise Archer	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm
Louise Flannery	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Lu Wang	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Lucas Menke	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Luciana Martiliano Milena	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Lucy Avraamidou	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm, ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm, Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am
Lucy R. McClain	ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Lukas Mientus	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm
Lutfieh M Rabbani	Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Lynn A. Bryan	ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Lynn Chesnut	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Lynn Cominsky	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Lynn D. Dierking	ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm
Lynn Stephens	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm
Lynne Zummo	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Lyrice L. Lucas	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
M. Ann Shaw	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
M. Elizabeth Barnes	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
M. Gail Jones	ST6:SC-Papers-Informal learning centers - Transition during crisis - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Magdeline Mmapaseka Stephen	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Magnolia Landa-Posas	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Maia Elkana	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Maia K. Binding	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Maik Walpuski	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Majd Zouda	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Malcolm B. Butler	Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm

Malte Ubben	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Mamta Singh	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Mandë Holford	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Manher Jariwala	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Mao-Ren Zeng	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Marc de Vries	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm
Marc Rodemer	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Marcelle Siegel	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Marcia C. Linn	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Marcia Shofner	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Marco Barron	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Marcus Kubsch	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am, Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm, ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Margaret R. Blanchard	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am, ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Margarita Huerta	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Maria A. Rodriguez	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Maria Araceli Ruiz-Primo	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Maria Aristeidou	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Maria C. Olivares	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Maria C. Simani	ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Maria E. Tellez-Acosta	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Maria Eugenia Podesta	Virtual Session E - 03/29/2022 09:00am to 10:30am
Maria Evagorou	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm
María González-Howard	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm, ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm, Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am

Maria João Mogarro	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Maria Kramer	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Maria M.J. Malmierca	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
María Martínez Chico	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Maria Perdomo	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Maria Pilar Jiménez-Aleixandre	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm
Maria Rejkjær Holmen	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
María Rut Jiménez Liso	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Maria Varelas	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Mariah Claire Maxwell	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Mariam Takkouch	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Mariana Luzuriaga	Virtual Session E - 03/29/2022 09:00am to 10:30am
Marie Irmer	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Marin Melloy	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Marissa S. Rollnick	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 1 - 03/29/2022 03:40pm to 05:10pm
Mariyam Pentho Abdulhadi	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm
Mark Chandler	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Mark H. Newton	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Mark O. Akubo	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am
Mark Wilson	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Mark Windschitl	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Markus Emden	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Marlit A. Lindner	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Marnie Jamieson	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Marti Canipe	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm

Martin F. Palermo	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Martin H. Smith	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Martin Hopf	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Martin Schwichow	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Martina Nieswandt	ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am
Marvin Roski	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Mary E. Short	ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Mary Haggerty	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Mary M. Atwater	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm, Administrative Session-Leaders Wanted: Envisioning Pathways to NARST Leadership - 03/28/2022 08:00am to 09:30am, Administrative Session-Unifying Our Community through Science Education - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Maryam Ghadiri Khanaposhtani	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Maryann Huey	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Masiel C. Infante	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Mason Kuhn	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm
Matt Reynolds	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm
Matthew D. Bennett	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Matthew Johnson	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm, Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Matthew Kloser	ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am
Matthew P. Perkins Coppola	ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
Mauricio Pietrocola	Virtual Session A - 03/27/2022 03:00pm to 04:30pm, Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Mauro Mocerino	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
May Lee	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Maya Garcia	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Maydianne Andrade	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm
McKenzie N. Jevnikar	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Meena M. Balgopal	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm

Meenakshi Sharma	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm, ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Megan Ennes	ST6:SC-Papers-Informal learning centers - Transition during crisis - 03/29/2022 09:00am to 10:30am
Meghan E. Marrero	ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am, ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Meghan Macias	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Meghan Rock	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Mehmet F. Tasar	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Mei-Hung Chiu	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm, ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Melanie Acosta	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Melanie Keller	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm
Melanie Kinskey	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Melanie Veige	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Melina Furman	Virtual Session E - 03/29/2022 09:00am to 10:30am
Melissa A. Navarro	ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Melissa Campanella	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Melissa Carlson	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Melissa Rego	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Melissa Zwick	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Melody J. Elrod	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Melody Kung	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Melody Russell	Administrative Session-Leaders Wanted: Envisioning Pathways to NARST Leadership - 03/28/2022 08:00am to 09:30am
Meltem Alemdar	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Meng Jun Chen	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Merav Siani	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Mercy Ogunsola-Bande	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Meredith M. Thompson	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Meredith Park Rogers	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Meredith W. Kier	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Merryn Dawborn-Gundlach	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm

Micah J. Johnson	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Michael Adelani Adewusi	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Michael Bennett	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Michael Bodri	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Michael Cassidy	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am, ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Michael Horn	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Michael J. Kennedy	ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Michael J. Novak	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Michael Lawson	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Michael P. Clough	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Michael Szopiak	ST4:SC-Papers-Designing and enacting pedagogy for secondary classrooms - 03/28/2022 08:00am to 09:30am
Michal Haskel Ittah	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm, ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Michal Zion	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm, ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Michele Williams	ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Michelle Barthlow	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Michelle Lea Phillips	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Michelle N Brown	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Miguel Rodriguez	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Mihwa Park	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Mihye Won	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
Miia Rannikmae	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Mijung Kim	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Mikhail Miller	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Milena Chakraverti-Wuerthwe	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm

Min Jung Lee	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Min Li	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Minchul Kim	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm
Mindy J. Chappell	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm
Minja Milanovic	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Minju Hong	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Minjung Ryu	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm, Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am
Minnie Webster	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Minyoung Gil	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm
Minyoung Lee	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Miracle Moonga	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Miranda S. Fitzgerald	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm
Miray Tekkumuru-Kisa	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm, ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Miri I. Barak	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm, ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Mirjan Krstovic	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Mitchell Bruce	ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Mohammad Azzam	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Mohammad Nurul-Hassan	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Mohammed Al Aghbari	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Mohammed Estaiteyeh	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm, Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm
Molly H. Weinburgh	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Molly M. Staggs	ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm
Molly Malone	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am

Mon-Lin Monica Ko	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Monica Bugallo	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am, ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Monica Weindling	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Moonika Teppo	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Moritz Krell	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Mounir R. Saleh	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm
Moza Al Balushi	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Muhsin Menekse	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Mónica Baptista	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm, ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Mustafa S. Topcu	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm, ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Myunghwan Shin	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm, ST7:SC-Papers-Integrating Engineering into science education - 03/29/2022 02:00pm to 03:30pm
N. Sanjay Rebello	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Nadia Qureshi	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm
Naji Kortam	ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Najwa Alhosani	Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Nancy B. Songer	ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Nannan Fan	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Nashwa Ismail	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Nasser Mansour	ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Natalie A. De Lucca	ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Natalie Au Yeung	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm
Natalie L. Hyslop	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Natalie S. King	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm, ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Natascha Trellinger Buswell	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm

Natasha H. Johnson	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm, ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Nathalie Paesler	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Nathan A. Quarderer	ST14:RP-Modelling, Assessment, and Promotion of Climate Literacy - 03/30/2022 08:45am to 10:15am
Nathan Magee	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Nathan Phillips	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Nazan U. Bautista	Administrative Session-Leaders Wanted: Envisioning Pathways to NARST Leadership - 03/28/2022 08:00am to 09:30am
Nehemiah Mabry	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Neisha Young	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Nessrine Machaka	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Neta Shaby	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm, ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Netta Perry	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
Nick Lux	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am
Nicola Wilkin	ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Nicole Dickson-Kam	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am
Nicole Freidenfelds	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Nicole Graulich	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am, ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Nicole J. Thomas	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Nihal Dogan	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Niklas M. Gericke	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Nils Machts	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm
Nina Christenson	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm, ST14:RP-Modelling, Assessment, and Promotion of Climate Literacy - 03/30/2022 08:45am to 10:15am
Nitasha Mathayas	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Noa Ageitos Prego	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm

Noel Enyedy	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm
Noelia Baez Rodriguez	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Noemi Waight	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 1 - 03/29/2022 03:40pm to 05:10pm, Administrative Session-A Celebration of NARST Award Recipients: A Discussion of the Future of Science Education, Session 2 - 03/29/2022 05:20pm to 06:50pm, ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Norman G. Lederman	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm
Noushin Nouri	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Nurullah Eryilmaz	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Nyck Ledezma	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Students' Learning Science and Engineering Practices - 03/30/2022 10:30am to 12:00pm
Odelia Schrire	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Okhee Lee	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm, ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Olasunkanmi A. Gbeleyi	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Olayinka Mohorn	Virtual Session E - 03/29/2022 09:00am to 10:30am
Olga Ioannidou	ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
Olivia D. Masse	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm
Olivia Levrini	Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Olutosin Solomon Akinyemi	ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Orit Ben Zvi Assaraf	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm, ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Orlando Ayala	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Orlando N. Lopez	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Orna Dahan	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Ornit Spektor-Levy	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm, ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm

Oshra Aloni	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Osnat Atias	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Ozgul Yilmaz-Tuzun	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Ozlem Akcil Okan	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm
Pablo Brocos	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm
Paichi-Pat Shein	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am, Virtual Session D - 03/28/2022 11:00am to 12:30pm
Pamela S. Lottero-Perdue	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm, ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Paola Nuñez	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Pascal Pollmeier	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Patricia D. Morrell	ST2:SC-Papers-Early Childhood & Elementary Science Teaching & Learning - 03/29/2022 05:20pm to 06:50pm
Patricia J. Friedrichsen	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Patricia S. Bills	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Patrick J. Enderle	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm
Paul Engelschalt	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Paul Gannon	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am
Paul Schlummer	ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Paul Vos	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Paula Heron	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm
Pauline W.U. Chinn	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am, Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm
Pavlo D. Antonenko	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Peggy J. Trygstad	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Pei-Ling Hsu	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Peng He	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Peresang Sukinarhimi	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am

Perman Gochyyev	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Pernilla Nilsson	ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Peter A. Okebukola	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Peter Ciavarella	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Peter Hu	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Peter Paprzycki	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Peter Reinhold	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm
Peter Wulff	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm, ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Petra Bezeljak	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Pey-Yan Liou	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Philip Hernandez	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Philip L. Bell	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Phillip A. Boda	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm, ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Pilar Pazos	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Ping-Han Cheng	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Pnina Steinberger	Virtual Session E - 03/29/2022 09:00am to 10:30am
Poorya M. Shidfar	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm
Preethi Titu	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Preeti Gupta	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Priscila C. Fernandes	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Qingna Jin	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm

Quentin C. Sedlacek	ST11:RP-Raciolinguistic Perspectives in Science Education - 03/29/2022 03:40pm to 05:10pm
Rüdiger Scholz	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm
Rachael Jones	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Rachael M. Gordon	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm
Rachedia Lewis	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Rachel D. Askew	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Rachel Hartnett	ST8:SC-Papers-Large Scale Investigations Measures of Teacher Learning - 03/30/2022 10:30am to 12:00pm
Rachel Mamlok-Naaman	ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am
Rachel Ruggirello	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Rachel Takriti	Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Rachelle Tsachor	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Rafael López-Gay	ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Ralph Ewerth	ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Rami Marely	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Ramon Barthelemy	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Randi McGee-Tekula	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Randy L. Bell	ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm
Raphael D Isokpehi	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Rasheda Likely	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Rashid S Almehrizi	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Ravit Golan Duncan	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
ReAnna S. Roby	ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm
Rebecca Curtright	ST10:RP-Research and Practice Perspectives on Developing and Implementing a Three-Dimensional District Biology Assessment - 03/28/2022 08:00am to 09:30am
Rebecca Kotler	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Rebecca Rawson	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Rebecca Woodard	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Rebekah Hammack	ST11:Sym-Indigenizing the Processes of Science and Engineering: Increasing Inclusivity with Implementation of the SEP's - 03/28/2022 08:00am to 09:30am, ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm

Regina Ayala Chavez	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Regina Soobard	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Regina Suriel	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm
Remy Dou	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Ren-Jye Chou	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Renee Schwartz	ST13:AS-The Unnatural Nature of Science without Norm Lederman: Honoring the Legacy of Dr. Norman Lederman - 03/28/2022 08:00am to 09:30am, ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Reut Stahi-Hitin	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Rianna T. Murray	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Richard A. Duschl	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm
Richard Pountney	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Richard T. Bex	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Richard Venditti	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Riley Ceperich	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Rishi Krishnamoorthy	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Ritesh Sharma	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Rivka Gadot	ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Robert D. Bennett	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
Robert D. Hayes	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Robert F. Murphy	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Robert H. Tai	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm
Robert J. Full	ST5:SC-Papers-Student Success and 21st Century Skills - 03/30/2022 01:30pm to 03:00pm
Robert Krakehl	ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm, ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Robert M. Talbot	Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Roberta Hunter	ST8:RP-Centering Place-Based Education for Teaching Science Outdoors in Urban Contexts - 03/28/2022 11:00am to 12:30pm
Rola Khishfe	ST13:SC-Papers-Nature of Science in K-12 Education - 03/29/2022 03:40pm to 05:10pm
Rolf Saarna	ST14:SC-Papers-Exploring literacies in environmental education and education for sustainable development - 03/27/2022 03:00pm to 04:30pm
Ron Blonder	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm, ST6:SC-Papers-Informal learning

	centers - Transition during crisis - 03/29/2022 09:00am to 10:30am, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm
Ron Skinner	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am
Rona Robinson-Hill	Administrative Session-Unifying Our Community through Science Education - 03/28/2022 02:45pm to 04:15pm
Ronald W. Rinehart	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm
Rosetta Ngugi	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Roshni Bano	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm
Ross H. Nehm	Virtual Session E - 03/29/2022 09:00am to 10:30am
Rotem Trachtenberg-Maslato	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am
Rouhollah Aghasaleh	Administrative Session-Sandra K. Abell Institute for Doctoral Students 2021 Poster Symposium - 03/28/2022 08:00am to 09:30am, Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm, Administrative Session-Indigenous science knowledge as social and cultural capital supporting more resilient and sustainable communities - 03/30/2022 01:30pm to 03:00pm
Roxana Jimenez	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Roxanne M. Hughes	ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Roy Tasker	ST12:RP-Learning Chemistry in Immersive Virtual Reality: A Spatial Analysis of Students' Collaborative Interactions - 03/28/2022 02:45pm to 04:15pm
Ruth A. Anderson	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Ruth Kermish-Allen	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Ruveyde A. Kaya	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Ryan Cain	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
Ryan Coker	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm
Ryan Dunk	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Ryan Nixon	ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Ryan Summers	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
S. Lizette Ramos	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Sabine Fechner	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Sabrina Barakat	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Sabrina De Los Santos	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Sadia Sahibzada	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm

Sadie Mills	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Sage Andersen	ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Saiqa Azam	ST11:SC-Papers-Innovation in Conceptual and Methodological Research Approaches - 03/29/2022 05:20pm to 06:50pm, ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Sally Neas	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Sam Maas	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Samantha Danzinger	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Samantha Jewett	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm
Samantha Ringl	Administrative Session-Graduate Student Forum - 03/28/2022 06:15pm to 07:20pm
Samantha Skrob-Martin	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm
Samer Adeeb	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Sami Kahn	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Samuel Lee	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Samuel M. Schnorr	Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Samuel Severance	ST10:SC-Papers-Teacher collaborative design of three-dimensional performance assessments - 03/29/2022 05:20pm to 06:50pm, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm, ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Sandra B. Nite	ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Sandra Raysor	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Sanlyn Buxner	ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Saouma B. Boujaoude	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Sara Brownell	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Sara C Heredia	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Sara E. Wilmes	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Sara J. Dozier	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Sara L. Salisbury	ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am
Sara Salloum	Administrative Session-The intersections of 'displacement' and science education: Perspectives across international contexts - 03/30/2022 08:45am to 10:15am

Sara Tolbert	Administrative Session-Sandra K. Abell Institute for Doctoral Students 2021 Poster Symposium - 03/28/2022 08:00am to 09:30am, ST11:RP-Raciolinguistic Perspectives in Science Education - 03/29/2022 03:40pm to 05:10pm
Sarah A. Haines	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Sarah A. Roberts	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Sarah C. Lilly	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Sarah El Halwany	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm, ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Sarah Haavind	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Sarah Hough	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm, ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Sarah J. Carrier	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm, ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm, ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Sarah J. Fick	Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm, ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Sarah Jaewon Lee	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Sarah Kavanagh	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm
Sarah Krejci	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Sarah Lilly	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Sarah Maria Zochling	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Sarah Stallings	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Sarah V. Poor	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Sarah Voss	ST13:SC-Papers-NOS and Undergraduate Education - 03/28/2022 02:45pm to 04:15pm, ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am, ST7:SC-Papers-Investigating Relationships between PCK Components - 03/29/2022 03:40pm to 05:10pm
Sarah York	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Sascha Bernholt	ST12:SC-Papers-Using Representations, Data, and Graphing to Support Concept Development - 03/27/2022 03:00pm to 04:30pm, ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Sascha M. Schmeling	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Sascha Wittchen	ST4:SC-Papers-Science teaching practices in secondary content areas - 03/27/2022 04:45pm to 06:15pm

Sasha Pratt-Taweh	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm
Savannah Graham	Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Scott A. Pattison	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm, ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Scott Cohen	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm, Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Scott McDonald	ST4:SC-Papers-Discourse and argumentation in secondary science teaching - 03/29/2022 02:00pm to 03:30pm, ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Scott Molitor	ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Sean Smith	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Sebastian Habig	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Sebastian Keller	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Sebastian Schäfer	ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Seema Rivera	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm
Selcen Guzey	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am, ST14:Sym-Preparing Pre-College Students to Solve Emerging Interdisciplinary Problems: Integrating Life Science and Engineering in Classrooms - 03/29/2022 02:00pm to 03:30pm
Selene Y. Willis	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm
Selin Akgun	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm, ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Selina L. Bartels	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST3:Sym-International Collaborative Investigation of Third Grade Students' Understandings of Scientific Inquiry - 03/28/2022 11:00am to 12:30pm
Seounghun Lee	ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm
Sevgi Aydin	ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Sevil Akaygun	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am
Sevinc Gelmez Burakgazi	ST7:SC-Papers-Building preservice teacher self-efficacy and competence in STEM Education - 03/30/2022 01:30pm to 03:00pm
Shafiq Chaudhary	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Shaghig Garo Chaparian	ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Shakayla Moran	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Shakhnoza Kayumova	ST11:SC-Papers-Critical Race Theory and Other Race Critical Approaches to STEM Education - 03/28/2022 11:00am to 12:30pm, Administrative Session-NARST/NSTA Annual Research

	Worth Reading Recognition - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Shane Tutwiler	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Shani Ben-Hamo	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Shani Zur	ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm
Shannon G. Davidson	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm, ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am, ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST11:SC-Papers-Approaches to Equitable Science Teaching in K-12 Classrooms - 03/30/2022 01:30pm to 03:00pm, Virtual Session C - 03/30/2022 10:30am to 12:00pm
Shannon L. Navy	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm, Virtual Session D - 03/28/2022 11:00am to 12:30pm, Virtual Session F - 03/29/2022 02:00pm to 03:30pm
Shari E. Hiltbrand	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Shari Watkins	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm, ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm
Shaugnessy McCann	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Shawn Kashef	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm
Sheila A Homburger	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Shelby Watson	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Sheliza Ibrahim Khan	ST14:RP-Towards a Sociopolitical Dispositif Prioritizing Ecological Vitality and Social Justice - 03/30/2022 10:30am to 12:00pm
Shelly LaDoux	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm
Sherri D. Sheppard	ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Sherry A. Southerland	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST11:SC-Papers-Considering Gender in Higher Education - 03/28/2022 08:00am to 09:30am, ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm, ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Shingo Uchinokura	ST1:SC-Papers-Students' Conceptual Development - 03/30/2022 08:45am to 10:15am
Shira Passentin	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
Shirly Avargil	ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm

Shuchen Guo	ST6:SC-Papers-Engaging youth in STEM through informal learning experiences - 03/27/2022 04:45pm to 06:15pm
Shulamit Kapon	ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm, ST1:SC-Papers-Modelling in Science Learning - 03/30/2022 01:30pm to 03:00pm
Sibel Erduran	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, Virtual Session F - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning across Science Disciplines - 03/29/2022 09:00am to 10:30am
Sibel Kaya	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Sierra L. Morandi	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Sierra McCormick	Virtual Session C - 03/30/2022 10:30am to 12:00pm
Sihan Xiao	ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Simone Rueckert	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Sin-Yun Syu	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Sinead Meehan	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm, ST2:RP-Supporting Teachers to Develop Expansive Learning Environments in Science and Engineering - 03/29/2022 09:00am to 10:30am
Smadar Szekely	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Smirla Ramos-Montañez	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm, ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Sofia Freire	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Song Xue	ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Sonja Latimore	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Sonya N. Martin	Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm, Administrative Session-Science Education during the COVID-19 Pandemic - 03/30/2022 08:45am to 10:15am
Soo-Yean Shim	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm, ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Soonhye Park	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm, ST8:AS-The Handbook of Research in Science Teacher Education: Current and Future Directions for Research - 03/28/2022 08:00am to 09:30am, ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm, ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Sophia Chroszczynsky	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Sophia Jeong	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST13:SC-Papers-Nature of Science and Higher Education - 03/29/2022 09:00am to 10:30am
Sreyasi Biswas	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm

Ssu-Ching Huang	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Stacie I. Ringleb	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
Stacy Olitsky	ST11:SC-Papers-Belonging and Retention in Postsecondary STEM - 03/27/2022 03:00pm to 04:30pm
Stanley M. Lo	Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Stav Shapira	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Stefan Heusler	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm, ST1:SC-Papers-Inscriptions in Science Learning - 03/29/2022 05:20pm to 06:50pm
Stefan Rumann	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Stefan Sorge	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm, ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Stefanie L. Marshall	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
Stefanie Lenzer	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Steffen Wagner	ST7:SC-Papers-Cultivating positive dispositions toward science teaching - 03/27/2022 04:45pm to 06:15pm
Stella I. Uhuegbu	ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm
Stephanie Killingsworth	ST12:SC-Papers-Multimedia, Artificial Intelligence, and Augmented Reality in Teaching and Learning - 03/29/2022 05:20pm to 06:50pm
Stephanie Lansing	ST14:SC-Papers-Building competencies for tackling real world problems - 03/30/2022 01:30pm to 03:00pm
Stephanie S. Eldridge	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm, ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm
Stephanie Teeter	ST6:SC-Papers-Emerging research in Informal Science - 03/27/2022 03:00pm to 04:30pm, ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am, ST6:SC-Papers-Evaluating informal learning interventions - 03/28/2022 11:00am to 12:30pm
Stephany RunningHawk Johnson	ST3:RP-Elementary Preservice Teachers Learning to Support Equitable Sensemaking - 03/30/2022 08:45am to 10:15am
Stephen A. Malcolm	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Stephen B. Witzig	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Stephen L. Thompson	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm, ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Stephen R. Burgin	ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Steve Roderick	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm
Steven Mcgee	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Steven Worker	ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm

Stina Krist	ST8:SC-Papers-Impact of Unique Professional Development Foci - 03/27/2022 04:45pm to 06:15pm, ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Stuart C. Bevins	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Sue Dale Tunnicliffe	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Sufen Chen	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Sulaiman M. Al Balushi	ST2:SC-Papers-High school Science Teaching & Learning - 03/30/2022 01:30pm to 03:00pm
Sumreen Asim	ST3:SC-Papers-Strategies for Science and Engineering Education - 03/28/2022 02:45pm to 04:15pm
Sunyoung Park	ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Susan B. Kelly	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Susan K. Codere	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm, ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Susan Letourneau	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Susan Yoon	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm
Susanna E. Hapgood	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm, ST8:SC-Papers-Exploring Elements of Elementary Science Teaching - 03/29/2022 09:00am to 10:30am
Susanne M. Heinicke	ST12:SC-Papers-Implementing Personalized Digital Platforms to Enhance Student Learning During the Pandemic - 03/29/2022 03:40pm to 05:10pm
Susanne Walan	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm
Susanne Weßnigk	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
Suzanne Lewis	ST10:RP-Research and Practice Perspectives on Developing and Implementing a Three-Dimensional District Biology Assessment - 03/28/2022 08:00am to 09:30am
Swetha Nittala	ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Syahrul Amin	ST15:SC-Papers-Teachers and Training - 03/30/2022 08:45am to 10:15am
Sylvia M. James	ST11:SC-Papers-Structural and Cultural Approaches to Identity and Its Influence - 03/30/2022 10:30am to 12:00pm
Sylvia Scoggin	ST10:RP-Research and Practice Perspectives on Developing and Implementing a Three-Dimensional District Biology Assessment - 03/28/2022 08:00am to 09:30am
T. Royce Olarte	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
T.B.M. Chowdhury	ST2:SC-Papers-Science Teaching & Learning at the College Level - 03/28/2022 11:00am to 12:30pm
Takeshi Terada	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm
Takeshia Pierre	ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Takumi Sato	ST6:SC-Papers-Leveraging informal learning for formal learning - 03/29/2022 03:40pm to 05:10pm
Tal Peer	ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm

Tali Tal	Virtual Session B - 03/27/2022 04:45pm to 06:15pm, ST8:RP-Centering Place-Based Education for Teaching Science Outdoors in Urban Contexts - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-STEM integration in secondary science classrooms - 03/30/2022 01:30pm to 03:00pm, ST6:Sym-Innovative approaches to theorizing and studying family STEM learning - 03/30/2022 08:45am to 10:15am
Taly Shechter	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm
Tamar Fuhrmann	ST12:Sym-Appling epistemic heuristics to characterize student reasoning about mechanisms with computational tools - 03/27/2022 04:45pm to 06:15pm
Tamar Ginzburg	ST12:SC-Papers-Fostering Scientific Inquiry Through Applications of Technology - 03/29/2022 02:00pm to 03:30pm
Tamecia R. Jones	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Tammy D. Lee	ST7:SC-Papers-Innovation and enhancement of science practices - 03/28/2022 08:00am to 09:30am, ST7:SC-Papers-On becoming a science teacher - 03/30/2022 10:30am to 12:00pm
Tammy M. Long	ST1:SC-Papers-Pedagogical Approaches to Enhance Science Understanding - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am, ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Tammy Q. Tasker	ST2:RP-Supporting Anti-Deficit Noticing and Equitable Science Teaching and Learning - 03/28/2022 11:00am to 12:30pm, ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Tammy Wu Moriarty	ST8:Sym-Supporting Teacher Leadership Development: Roles, Growth and Research - 03/30/2022 01:30pm to 03:00pm
Tania Jarosewich	ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm
Tanja Mutschler	ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Tanja Tajmel	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Tanya S. Wright	ST10:RP-Engaging with Curricular Infrastructure to Support Elementary Science Teacher Learning and Identity Development - 03/27/2022 04:45pm to 06:15pm
Tara Barnhart	ST7:SC-Papers-The role of noticing in learning to teach science - 03/28/2022 02:45pm to 04:15pm
Tasha Austin	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Tasneem Anwar	Virtual Session D - 03/28/2022 11:00am to 12:30pm
Tatiane Russo-Tait	Administrative Session-Latinx Science Learners and Scientific Literacy: Successes and Challenges - 03/27/2022 04:45pm to 06:15pm, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Tatjana Steinmann	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm
Ted M. Clark	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am, ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Terrance Burgess	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm, ST11:RP-Multi-faceted and Emerging Approaches towards Transforming STEM Teaching, Learning and Research - 03/30/2022 10:30am to 12:00pm
Terrell R. Morton	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am, ST11:Sym-Designing and Implementing Virtual Black STEM Counterspaces to Elevate Black Learners - 03/29/2022 02:00pm to 03:30pm, ST11:SC-Papers-Resistance and Resilience of Black Women and Black Students - 03/30/2022 08:45am to 10:15am
Tess Bernhard	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm

Theila Smith	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm, Administrative Session-Graduate Student Forum - 03/28/2022 06:15pm to 07:20pm, ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm, Administrative Session-Supporting and Advancing Science Education Research Practice through Community Discussions - 03/29/2022 05:20pm to 06:50pm
Thomas Chapman	ST5:SC-Papers-Collaboration to Promote Learning - 03/28/2022 08:00am to 09:30am
Thomas F. Shipley	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Thomas Hammond	ST12:SC-Papers-Reinforcing and Understanding Effective Instructional Methods - 03/30/2022 08:45am to 10:15am
Thomas J. McKenna	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm
Thomas R. Tretter	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Ti'Era D. Worsley	Administrative Session-Graduate Student Forum - 03/28/2022 06:15pm to 07:20pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Tia C. Madkins	ST11:Sym-Multiplying Perspectives on Racial Equity in STEM Education: Insights from Canada, Netherlands, and the USA. - 03/28/2022 11:00am to 12:30pm, ST3:AS-Enhancing Science and Engineering in Preschool through Fifth Grade: A National Academies Consensus Study - 03/29/2022 05:20pm to 06:50pm
Tiahna Selby	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am
Tiffany Neill	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Tiffanyrose Sikorski	ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Timothy Atherton	ST5:RP-The Missing Materials in College Science Learning: Intersections of Materiality, Agency, and Disciplinary Inquiry - 03/27/2022 03:00pm to 04:30pm
Timothy G. Klavon	Administrative Session-Graduate Student Research Symposium - 03/27/2022 03:00pm to 04:30pm
Timothy J. Cleary	ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Tina B. Carter	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Tina Cheuk	ST7:Sym-Building an Elementary Science Teacher Education Community to Advance Equity and Justice - 03/27/2022 03:00pm to 04:30pm
Tina Vo	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm, ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm, ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm, ST5:SC-Papers-Learning About Science, Engineering and Social Issues - 03/29/2022 05:20pm to 06:50pm
Tingting Li	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm, ST2:Sym-Teacher change of practice during Project-based science learning enactment: Case studies across diverse contexts. - 03/30/2022 10:30am to 12:00pm, ST3:RP-Project-based Learning Contexts for Developing Adaptation Design Principles that Promote Engagement and Equity - 03/30/2022 01:30pm to 03:00pm
Todd Campbell	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm, ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
Todd L. Hutner	ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am

Todd Milford	ST3:SC-Papers-Professional Development of Science Teachers - 03/27/2022 04:45pm to 06:15pm, ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Tom Bielik	ST2:RP-Students and teachers' challenges explaining the mechanism of complex systems and suggestions to address them - 03/27/2022 04:45pm to 06:15pm, ST7:SC-Papers-Tools for Assessment in Preservice teacher learning - 03/30/2022 08:45am to 10:15am
Tom Bleckmann	ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Tracy Edwards	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm
Trang Tran	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Troy D. Sadler	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm, ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am, Administrative Session-Publishing, Reviewing, and Writing for JRST - 03/29/2022 02:00pm to 03:30pm, Administrative Session-How to Get Your Research Published in Science Education Journals - 03/29/2022 03:40pm to 05:10pm
Tunde Owolabi	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Tyler S. Love	ST12:SC-Papers-Digital Multimedia and Computational Thinking to Support Science Learning and Teaching - 03/29/2022 09:00am to 10:30am
Uri Wilensky	ST8:SC-Papers-The Role of Collaboration in Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST2:SC-Papers-Technology & Computer Science - 03/29/2022 09:00am to 10:30am
Ursula Nguyen	ST11:SC-Papers-Gender and Sexual Identity Inclusivity in STEM - 03/29/2022 03:40pm to 05:10pm, ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Ute Harms	Administrative Session-Socioscientific Argumentation in Science Education - 03/28/2022 02:45pm to 04:15pm, ST14:RP-Modelling, Assessment, and Promotion of Climate Literacy - 03/30/2022 08:45am to 10:15am
Valarie L. Akerson	ST13:AS-The Unnatural Nature of Science without Norm Lederman: Honoring the Legacy of Dr. Norman Lederman - 03/28/2022 08:00am to 09:30am, ST13:SC-Papers-Sociocultural and socio-scientific issues - 03/29/2022 02:00pm to 03:30pm
Valerie Meier	ST7:SC-Papers-Developing science teacher practices - 03/29/2022 09:00am to 10:30am
Valerie Valdez	ST7:SC-Papers- Creating spaces and resources for high quality learning in pre-service teacher education - 03/29/2022 05:20pm to 06:50pm
Valérie Vinuesa	ST14:SC-Papers-Innovative approaches in environmental science education - 03/27/2022 04:45pm to 06:15pm
Vance J. Kite	ST12:SC-Papers-Using Computational Thinking and Videos to Support Pre-Service and In-Service Teachers - 03/30/2022 10:30am to 12:00pm, ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Vanessa De Andrade	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Vanessa Fischer	ST5:SC-Papers-Student Persistence and Well-Being - 03/30/2022 10:30am to 12:00pm
Vanessa Grady	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm
Vanessa Kind	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Vashunda Williams Warren	ST8:SC-Papers-Personal Factors Shaping Teacher Growth - 03/29/2022 03:40pm to 05:10pm
Veeshan Narinesingh	ST11:SC-Papers-Black STEM Professionals and STEM Teaching, Learning, and Engagement - 03/27/2022 04:45pm to 06:15pm

Venkat Rao Vishnumolakala	ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm, ST8:SC-Papers-Professional Learning for STEM - 03/29/2022 02:00pm to 03:30pm
Vera Degtiareva	Virtual Session A - 03/27/2022 03:00pm to 04:30pm
Veronika Rozhenkova	ST5:SC-Papers-Faculty Perceptions of Instruction and Teaching Professional Development - 03/29/2022 03:40pm to 05:10pm
Vesal Dini	ST8:Sym-The Role of Emotions in Science Teacher Education and Professional Development - 03/28/2022 08:00am to 09:30am
Victor Kásper	ST7:SC-Papers-Centering social justice in science teacher education - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Tools and Techniques to Understand and Support Teacher Learning - 03/28/2022 11:00am to 12:30pm, ST8:SC-Papers-Teachers Working towards Inclusive Classrooms - 03/30/2022 08:45am to 10:15am
Victor R. Lee	ST3:SC-Papers-Diverse Opportunities for Early Science and Engineering Experiences - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Victoria J. VanUitert	ST11:SC-Papers-Student Engagement Across Intersecting Identities - 03/30/2022 01:30pm to 03:00pm
Vincent Basile	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Viviana López Burgos	ST6:SC-Papers-Informal learning as a family activity - 03/28/2022 02:45pm to 04:15pm
Vivien M. Chabalengula	ST10:SC-Papers-Curriculum and assessment for science learning - 03/29/2022 09:00am to 10:30am
Walter Aminger	ST7:SC-Papers-Toward inclusive and just outcomes for diverse learners - 03/29/2022 05:20pm to 06:50pm
Wanja Gitari	ST2:SC-Papers-Science Teaching & Learning during the Pandemic - 03/28/2022 08:00am to 09:30am, ST6:SC-Papers-Informal learning in the community - 03/29/2022 02:00pm to 03:30pm, ST5:SC-Papers-Student Learning in Remote Contexts: Labs and Research - 03/30/2022 08:45am to 10:15am
Wardell Anthony Powell	ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm, ST4:SC-Papers-Socio-scientific issues: Assessment and conceptions in diverse contexts - 03/30/2022 10:30am to 12:00pm
Weiqi Zhao	ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm
Wen-Xin Zhang	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Wesley Pitts	ST15:SC-Papers-Standards - 03/29/2022 05:20pm to 06:50pm
William Boone	Administrative Session-Global Perspectives from the Handbook of Research on Science Education, Volume III - 03/27/2022 03:00pm to 04:30pm
William F Fagan	ST5:SC-Papers-Collaborative Learning in Remote Contexts - 03/29/2022 02:00pm to 03:30pm
William F McComas	ST13:SC-Papers-NOS and Science Pedagogy and instruction - 03/28/2022 11:00am to 12:30pm
William R. Penuel	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm, ST4:SC-Papers-Student motivation and creativity in secondary science - 03/28/2022 11:00am to 12:30pm, ST10:SC-Papers-Educative features and implementations of NGSS-aligned curricula - 03/29/2022 02:00pm to 03:30pm, ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Winston E Massam	ST2:SC-Papers-Student Experiences in Science Teaching & Learning - 03/28/2022 02:45pm to 04:15pm
Wisam Sedawi	ST14:SC-Papers-Place, culture, and connection in environmental science education - 03/28/2022 02:45pm to 04:15pm
Wolfgang Gritz	ST12:SC-Papers-Using Digital Technologies, Simulated Teaching, and Assessment to Support teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Wonyong Park	ST13:SC-Papers-Nature of Science in Teacher Education - 03/29/2022 05:20pm to 06:50pm

Xavier Fazio	ST14:SC-Papers-Lenses on environmental science educators - 03/28/2022 08:00am to 09:30am
Xianyang Chen	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Xiao Chen	ST2:SC-Papers-Theoretical & Literature Review Papers - 03/29/2022 02:00pm to 03:30pm
Xiaoming Zhai	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm, ST10:Sym-AI-Based Innovative Assessments in Science - 03/30/2022 08:45am to 10:15am
Xinying Yin	ST8:SC-Papers-Variations in STEM Teachers Changes through Professional Development - 03/28/2022 02:45pm to 04:15pm, ST11:SC-Papers-Cultural Relevance in Science & STEM - 03/29/2022 09:00am to 10:30am, ST7:SC-Papers-Using technology and modeling in science teacher education - 03/30/2022 01:30pm to 03:00pm
Ya-Chun Chen	ST5:SC-Papers-Problem Solving and Critical Thinking - 03/28/2022 08:00am to 09:30am
Ya-Ping Tsao	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Yael Kali	Virtual Session B - 03/27/2022 04:45pm to 06:15pm
Yael Rozenblum	ST11:SC-Papers-Diverse Student Conceptions of Science and Engineering - 03/29/2022 02:00pm to 03:30pm
Yael Shwartz	ST1:SC-Papers-Students' Reasoning - 03/30/2022 10:30am to 12:00pm
Yamil Ruiz	ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST8:SC-Papers-Teacher Learning and Practice during the Pandemic - 03/29/2022 05:20pm to 06:50pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Yamileth Salinas Del Val	ST15:RP-Supporting Expansive Conceptions of Science Teaching and Learning for Equity - 03/29/2022 03:40pm to 05:10pm
Yang Zhang	ST10:RP-Teaching and Learning about COVID-19 in the Midst of the Pandemic - 03/28/2022 11:00am to 12:30pm
Yanhong Guo	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm
Yann Shiou Ong	Administrative Session-Future Directions for Research on Equitable and Socially Just Assessments in Science and Engineering Education - 03/30/2022 10:30am to 12:00pm
Yaron Lehavi	ST4:SC-Papers-Coherent learning in NGSS curriculum and classrooms - 03/29/2022 09:00am to 10:30am
Yejun Bae	ST5:SC-Papers-Inclusive Pedagogy and Student Success - 03/29/2022 09:00am to 10:30am
Yen-Tzu Liao	ST4:SC-Papers-Pedagogical content knowledge for secondary science teachers - 03/29/2022 05:20pm to 06:50pm
Yeonjoo Ko	ST7:SC-Papers-Connecting science and society in teacher education - 03/28/2022 11:00am to 12:30pm
Yetunde A. Mabadeje	ST11:SC-Papers-Cultural Approaches to the Teaching and Learning of Science - 03/28/2022 02:45pm to 04:15pm
Yi Qi	ST10:SC-Papers-Assessment for modeling and reasoning - 03/28/2022 02:45pm to 04:15pm
Yi Zheng	ST2:RP-The Influence of Religious Identity in Evolution Education - 03/29/2022 03:40pm to 05:10pm
Ying-Chih Chen	ST2:SC-Papers-Middle School & NGSS Science Teaching & Learning - 03/27/2022 03:00pm to 04:30pm, ST2:SC-Papers-Instructional & Curricular Approaches in Science Teaching & Learning - 03/30/2022 10:30am to 12:00pm
Ying-Shao Hsu	ST14:SC-Papers-Making sense of socioscientific issues - 03/28/2022 11:00am to 12:30pm
Yosra Badiel	ST2:SC-Papers-Equity & Social Justice in Science Teaching & Learning - 03/30/2022 08:45am to 10:15am
Yovav Eshet	Virtual Session E - 03/29/2022 09:00am to 10:30am
Yuanhua Wang	ST7:SC-Papers-Exploring challenges of PCK development in pre-service teacher education - 03/27/2022 03:00pm to 04:30pm

Yuxi Huang	Administrative Session-Jhumki Basu Poster Symposium - 03/27/2022 04:45pm to 06:15pm, ST8:SC-Papers-Developing Teacher Leaders - 03/28/2022 02:45pm to 04:15pm, ST2:SC-Papers-Distance/online Science Teaching & Learning - 03/29/2022 02:00pm to 03:30pm, ST4:SC-Papers-Secondary science teachers' learning and noticing of student thinking - 03/30/2022 08:45am to 10:15am
Zachary Collier	ST2:RP-Equity and Justice in Engineering and Science: Centering Black and Latinx culture, language and Identity - 03/28/2022 02:45pm to 04:15pm
Zachary Richards	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm
Zachary Sabitt	ST2:SC-Papers-Socioemotional Factors in Science Teaching & Learning - 03/29/2022 03:40pm to 05:10pm
Zachery McMullen	ST5:SC-Papers-Academic Pathways, Persistence, and Science Identity - 03/28/2022 02:45pm to 04:15pm
Zahra Hazari	ST11:Sym-Analytic Approaches to Studying Identity Work Longitudinally - 03/27/2022 03:00pm to 04:30pm
Zareen Kasad	ST4:SC-Papers-Modelling-based curriculum in secondary classrooms - 03/29/2022 03:40pm to 05:10pm
Zeynep Gonca Akdemir	ST2:SC-Papers-Middle School Science Teaching & Learning - 03/27/2022 04:45pm to 06:15pm
Zhigang Jia	ST5:SC-Papers-Undergraduate and Graduate Student Perspectives on Teaching and Learning - 03/30/2022 01:30pm to 03:00pm
Zoe E. Buck Bracey	ST10:RP-Bringing researcher perspectives and research-based approaches to the design of instructional materials for broad use - 03/27/2022 03:00pm to 04:30pm, ST10:SC-Papers-Methodological approaches to designing science assessment tasks - 03/29/2022 03:40pm to 05:10pm