

Research Symposium Panels—Group 1
Tuesday, November 5
11:00 AM - 12:00 PM

Panel Title	Sessions	Presenters
Research Panel 1A (Combined Submissions)	Bridging Frameworks to Understand Youth Climate Agency in Coastal Ecuador	(Presenter) Neela Nandyal, University of Minnesota
	Forging Connections, Shaping Stories: Activists and Young Climate Authors	(Presenter) Aneesa Jamal, Universiti Teknologi Malaysia; (Presenter) Abubakr Mohammed Jamal, Universiti Teknologi Malaysia
	Bridging the Gap: Development of Instructional Framework for Climate Education in the Global South	(Presenter) John Carl Alonsagay, Alpha Team Organization ClimatEducate Project; (Presenter) Cecilia Razafinimaharavo, ATO - ClimatEducate Project; (Non-Attending Contributor) Sweta Dixit, ATO - ClimatEducate Project; (Non-Attending Contributor) Musa Muhammad Tanko, ATO - ClimatEducate Project
Research Panel 1B (Combined Submissions)	Using Different Knowledge Systems to Examine Human- Animal Relationships	(Presenter) Sally Birdsall, The University of Auckland; (Non-Attending Contributor) Georgina Tuari Stewart, Te Ara Poutama, Auckland University of Technology
	Animal Matters: An Updated Review of Trends in Animal-Focused Environmental Education	(Presenter) Teresa K Lloro, California State Polytechnic University, Pomona; (Presenter) Joshua Russell, Canisius University
	Who “Wins”: Settled Expectations or the More-Than- Human Perspective?	(Presenter) Emmeline Hoogland, Simon Fraser University; (Non-Attending Contributor) Joeri Bruggeman, Wild & Immersive
Research Panel 1C (Combined Submissions)	A Framework for Critical Environmental Justice for Teaching and Learning	(Presenter) Holly Plank, University of Pittsburgh; (Non-Attending Contributor) Hillary Chelednik, University of Pittsburgh; (Non-Attending Contributor) Cassie Quigley, University of Pittsburgh
	Mapping the Terrain of Environmental Justice Education: A Cross-Case Analysis	(Presenter) Lindi R. Shepard, Johns Hopkins University; (Presenter) Lisa D Nehring, Johns Hopkins University
Research Panel 1D (Combined Submissions)	Evaluating University Student-Led Outreach on Waste Literacy for Fifth Graders	(Presenter) Rafaela Gutierrez, University of Toronto; (Non-Attending Contributor) Susan Debreceni, University of Toronto Trash Team; (Non-Attending Contributor) Chelsea Rochman, University of Toronto Trash Team; (Non-Attending Contributor) Shelby Riskin, University of Toronto
	Exploring Visitor Experiences with Night Sky Programming: A Mixed Methods Approach	(Presenter) Molly Lane, Penn State; (Session Contact Only) Lucy R. McClain, Shaver’s Creek Environmental Center, Penn State University; (Non-Attending Contributor) B. Derrick Taff, Penn State University; (Non-Attending Contributor) Peter Newman, Penn State
	Evaluating a Residential EE Program Through a Holistic Lens	(Presenter) Paige Crane, Virginia Tech; (Non-Attending Contributor) Marc Stern, Virginia Tech
Research Panel 1E (Full Panel)	Self-Guided Outdoor Education: Relationality, Comfort and Connection in Nature	(Presenter) Samantha Lindgren, University of Illinois Urbana-Champaign; (Presenter) Wendy Dorman, University of Illinois Urbana-Champaign; (Presenter) Aigul Rakisheva, University of Illinois Urbana-Champaign

Research Symposium Panels—Group 2
Wednesday, November 6
10:00 AM - 11:00 AM

Panel Title	Sessions	Presenters
Research Panel 2A (Combined Submissions)	Feeling Alive: A Study of Teachers Perception's of EE Professional Learning	(Presenter) Paul Kelba, Calgary Board of Education
	Teachers' Constraints and Researchers' Considerations in Education Outdoors at Schools	(Presenter) Lisa D Nehring, Johns Hopkins University
	Playwork in Pre-Service Teacher Training: Building Sustainable and Educated Communities	(Presenter) Ozge Metin Aslan, Alanya Alaaddin Keykubat University /University of Minnesota
Research Panel 2B (Combined Submissions)	Empowerment in Sustainability Education: Clarifying Concepts to Advance Understanding and Practice	(Presenter) Misol Kim, University of New South Wales; (Presenter) Alan Reid, Monash University
	Sustainability and Character Education: Toward a New Curriculum Configuration	(Presenter) Nurul Hidayah, Monash University; (Presenter) Alan Reid, Monash University; (Non-Attending Contributor) Gill Kidman, Monash University
	Sustainability Leadership Competencies in Higher Education: A View from Practitioners	(Presenter) Mike Shriberg, University of Michigan; (Presenter) Lindsey MacDonald, Western Washington University
Research Panel 2C (Combined Submissions)	Assessing and Developing Scientists' Ethics of Expertise	(Presenter) Sadie Hundemer, University of Florida; (Presenter) Elizabeth Bouton, University of Florida; (Presenter) Stephanie Stoutamire, University of Florida; (Presenter) Sarah Paxson, University of Florida; (Presenter) Jamie L Loizzo, University of Florida
	Facilitating Social Perspective-Taking on Environmental Issues Through a "Common Ground" Intervention	(Presenter) Lindi R. Shepard, Johns Hopkins University; (Presenter) Lisa D Nehring, Johns Hopkins University; (Non-Attending Contributor) Katherine Cornwall; (Non-Attending Contributor) Aishwarya Jayabharathi, Johns Hopkins University; (Non-Attending Contributor) Li Li, Johns Hopkins University; (Non-Attending Contributor) Nan Mu, Johns Hopkins University; (Non-Attending Contributor) Qiyang Zhang, Johns Hopkins University; (Non-Attending Contributor) Hunter Gehlbach, Johns Hopkins University
	Using Reflexivity to Maintain the Integrity of Participatory Action Research	(Presenter) Caitlin Hughes-Parry, University of Minnesota Duluth
Research Panel 2D (Combined Submissions)	A Systems Literacy Approach to Understanding Climate Change Dynamics	(Presenter) Sinem Demirci, California Polytechnic State University; (Presenter) Alan Reid, Monash University; (Non-Attending Contributor) Gaye TEKSÖZ, Middle East Technical University; (Non-Attending Contributor) Elvan Sahin
	Threading the Needle: Reality and Hope in Climate Change Education	(Presenter) Evan Mooney, Husson University; (Presenter) Elizabeth Kenyon, Kent State University
	Strengthening Climate Change Education in the Manitoba Education System	(Presenter) Will Burton, University of Winnipeg
Research Panel 2E (Full Panel)	Journal Editors' Panel: Insights into Academic Publishing in the Fields of EE/ESE	(Presenter) Nicole Ardoin, Stanford University; (Presenter) Yash Bhagwanji, Florida Atlantic University; (Presenter) Sally Birdsall, The University of Auckland; (Presenter) Victoria Carr, University of Cincinnati; (Presenter) Alan Reid, Monash University; (Presenter) Teresa K Lloro, California State Polytechnic University, Pomona

Research Symposium Panels—Group 3
Wednesday, November 6
11:15 AM - 12:15 PM

Panel Title	Sessions	Presenters
Research Panel 3A (Combined Submissions)	Revealing Undergraduate Experiences: The Climate Crisis, Engagement, and Emotion Regulation	(Presenter) Katherine Cornwall
	A Paradox of Environmental Action: Emotions, Engagement, and Climate Crisis	(Presenter) Katherine Cornwall
	Developing Profiles to Understand Educators' Needs for Teaching Climate Change	(Presenter) Laurel Kruke, University of Southern California
Research Panel 3B (Combined Submissions)	Designing Behavior Change Research as a Bridge to Sustainable Conservation Solutions	(Presenter) Claire Hebbard, Cornell University; (Non-Attending Contributor) Tina Phillips, Cornell Lab of Ornithology; (Non-Attending Contributor) Becca B. Rodomsky-Bish, Cornell Lab of Ornithology
	Poetic Becomings: Spacetime-matter Entanglements in Urban Middle School Students' Environmental Justice Poems	(Presenter) Mary Elizabeth Short, Smithsonian Institution; (Presenter) Heidi Gibson, Smithsonian Institution
Research Panel 3C (Combined Submissions)	Sustaining Transdisciplinary School-Wide Approaches to Climate Justice Education Over Time	(Presenter) Emily Harris, BSCS Science Learning; (Non-Attending Contributor) Kathryn Hayes, CSU East Bay; (Non-Attending Contributor) Eric Nolan, Cal State University, East Bay; (Non-Attending Contributor) Karina Garbesi, California State University, East Bay
	Transdisciplinary Climate Justice Education Using A Networked Improvement Community Approach	(Presenter) Eric Nolan, Cal State University, East Bay; (Non-Attending Contributor) Michele Korb, California State University, East Bay; (Non-Attending Contributor) Kathryn Hayes, CSU East Bay; (Non-Attending Contributor) Emily Harris, BSCS Science Learning; (Non-Attending Contributor) Karina Garbesi, California State University, East Bay
	Engaging High Schoolers In Social Justice with Urban Environmental Geochemistry	(Presenter) Lisa Marco-Bujosa, Villanova University; (Presenter) Steven Goldsmith, Dept of Geography, Villanova University; (Presenter) Kabindra Shakya, Villanova University; (Presenter) Vanessa Boschi, Villanova University; (Presenter) Hannah Feldman, Villanova University
Research Panel 3D (Combined Submissions)	EE as a Lever for Systems Change: How to Measure?	(Presenter) Rachel Szczytko, Michigan State University
	Nature-Based Environmental Education in China: A Scholarly Review	(Presenter) Yue Li, University of Wisconsin-Stevens Point; (Presenter) Yun-Wen Chan, Texas State University; (Presenter) Yu-Chi Tseng, National Taiwan Normal University
	Environmental Education Outcomes of Community and Citizen Science: Systematic Review	(Presenter) Heidi Ballard, School of Education, Univ. of California; (Non-Attending Contributor) Amanda Lindell, Inform Evaluation & Research; (Non-Attending Contributor) Chris Jadallah, University of California, Davis - School of Education
Research Panel 3E (Full Panel)	Nature Journaling for Learning, Mindfulness, And Well- Being	(Presenter) Lucy R. McClain, Shaver's Creek Environmental Center, Penn State University; (Presenter) Emily L Hayne, The Pennsylvania State University; (Presenter) Danielle Frank Lawson, The Pennsylvania State University; (Moderator) John Muir Laws, Wild Wonder Foundation; (Presenter) Hannah Mueller, University of Maryland, Baltimore; (Presenter) Cyna Schuster, Arizona State University; (Presenter) Molina Walters, Arizona State University; (Presenter) Anne Stephens, California State University, Chico; (Presenter) Kathryn Hayes, CSU East Bay

Research Symposium Panels—Group 4
Wednesday, November 6
2:00 PM - 3:00 PM

Panel Title	Sessions	Presenters
Research Panel 4A (Combined Submissions)	Moving from the Ontological to the Epistemological	(Presenter) Vanessa Klein, University of Maine Cooperative Extension; (Presenter) Evan Mooney, Husson University
	Reviewing Intergenerational Learning to Maximize Environmental Education Research's Impact	(Presenter) Amy Powell, Shaver's Creek Environmental Center; (Presenter) Danielle Frank Lawson, The Pennsylvania State University
	Integrating Behavior Changes Theories into Conservation Education at Science-Research Sites	(Presenter) Cathlyn M Davis, University of Maryland Center for Environmental Science; (Presenter) Joely Desimone, University of Maryland Center for Environmental Science; (Presenter) Emily Cohen, University of Maryland Center for Environmental Science
Research Panel 4B (Combined Submissions)	Relational Ways of Knowing: Perspectives of Place As It Informs STEAM Teacher Education	(Presenter) Kevin O'Connor, Mount Royal University
	Reflective Practice as a Foundation for Climate Justice and World Building	(Presenter) Priya Pugh, IslandWood; (Non-Attending Contributor) Renée Comesotti, IslandWood; (Presenter) Déana Scipio, IslandWood; (Non-Attending Contributor) Michela Dimond, IslandWood
	Exploring Sustainability Education in K-12 STEM	(Presenter) Jessica Cordaro, University of Wisconsin
Research Panel 4C (Combined Submissions)	Environmental Education and Social Determinants of Health in Environmental Justice Communities	(Presenter) Tatiana Height, Alcorn State University
	Empowering Urban Youth Through BSEC's Community Science and Agriculture	(Presenter) Derrick Mirindi, Morgan State University; (Presenter) Tonya Nashay Sanders Thach, Morgan State University; (Presenter) Mahsa Adib
	Transforming Educational Practice for Community Resilience to Natural Hazards	(Presenter) Belinda Jane Davis, Monash University; (Presenter) Alan Reid, Monash University
Research Panel 4D (Full Panel)	Exploring and Advancing Nature-Connectedness Research: Bridging Theory and Methodology	(Presenter) Stacey Alfonso, Natural Start Alliance; (Presenter) Meghan Orman, University of Pittsburgh; (Presenter) Peng Liu Nelson, University of Minnesota Twin Cities; (Presenter) Shu-Min Tsai, Oregon State University
Research Panel 4E (Full Panel)	What Works in Environmental Education? Findings and Reflections from eeWORKS	(Presenter) Alan Reid, Monash University; (Presenter) Nicole Ardoin, Stanford University; (Presenter) Alison Bowers