

Project Showcase

Presenters will be at posters 4:30–5:00 pm (Session A), 5:00–5:30 pm (Session B), or 5:30–6:00 pm (Session C).

Posters are ordered by award number, with connections to the cross-cutting issues from *Graduate STEM Education in the 21st Century* as indicated.

LIST OF POSTER PRESENTATIONS

Poster Number	Poster Session	Presenter	Poster Title					
1	A	Linda von Hoene	<i>Preparing Future Faculty for Research Mentoring: The Impact of Structured Preparation</i>				✓	✓
2	B	Michael Keller	<i>Facilitating Professional Development for Graduate Students in STEM</i>				✓	✓
3	C	Ingrid Lofgren	<i>SciWrite@URI: Science Writing and Rhetorical Training to Develop Graduate Science Writers</i>				✓	✓
4	A	Anne van de Ven-Moloney	<i>Broadening Access to Resource-Intensive Courses through Multi-Institutional Virtual Learning</i>			✓	✓	✓
5	B	Julia Williams	<i>What We Learned about Ourselves, Our Students, and Our Field When We Rebuilt and Flipped Our Limnology Curriculum</i>					✓
6	C	Carol Brandt	<i>Using a Design Studio Model to Enable Communication Between the Social and Life Sciences</i>				✓	✓
7	A	Julie Coffield	<i>From Engagement to Action: The Graduate Scholars Leadership, Engagement, and Development (GS LEAD) Program</i>			✓	✓	✓
8	B	Adam Fontecchio	<i>Pedagogical Readiness Oversight for Future Educators in STEM Subjects (PROFESS)</i>				✓	✓
9	C	Deana Pennington	<i>Learning across Disciplines in Interdisciplinary Research Teams</i>				✓	✓
10	A	Margaret Rubega	<i>Direct Assessment Shows Little Effect of Science Communication Training</i>				✓	✓
11	B	Fengfeng Ke	<i>Virtual Reality Based Teaching Training for STEM Graduate Teaching Assistants</i>					✓
12	C	Michael T. Ashby	<i>Consensus, Division, and the Future of Graduate Education in the Chemical Sciences</i>					✓

Legend: Cross-Cutting Issues



Improving STEM graduate education by adjusting faculty rewards and incentives as they pertain to teaching and mentoring



Collecting and disseminating data to increase transparency for prospective and current STEM graduate students about institutional degree and career outcomes, among other metrics



Increasing diversity, equity, and inclusiveness throughout STEM graduate programs to cultivate talent from all backgrounds and promote continued scientific leadership



Building the ability of the STEM graduate education system to adjust to the dynamic nature of the scientific enterprise and the career options available to its students



Optimizing the experiences that graduate students have while in their programs

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13	A	Casey Miller	<i>Employing Holistic Graduate Admissions and Support Structures in Physics Graduate Programs</i>			✓		
14	B	Sohel Anwar	<i>Integration of Arts Pedagogy in Engineering Graduate Education</i>				✓	
15	C	Marjorie Zatz	<i>Interdisciplinary Computational Graduate Education: A Model for First-Generation and Underrepresented Minority Student Retention and Success</i>	✓	✓	✓	✓	✓
16	A	Brian Kim	<i>Integrating Data Science and Social Science in Graduate Education and Workforce Development</i>				✓	✓
17	B	Mary Hegarty	<i>Interdisciplinary Graduate Education: Facilitating Research and Teaching across Disciplines</i>				✓	
18	C	Victoria Prince	<i>A Hands-On Approach to Graduate-Level Training in Rigorous and Reproducible Quantitative Approaches</i>				✓	✓
19	A	Susan Cozzens	<i>Integrating Team Science into the STEM Graduate Training Experience</i>				✓	✓
20	B	Christopher D. Porter	<i>Graduate Physics Education: The Intersection of Student, Institution, and Content</i>			✓		✓
21	C	Shannon Willoughby	<i>STEM Storytellers: Curriculum Development and Initial Findings</i>					✓
22	A	Liesl Folks	<i>The NAVIGATE Project: A Case-Study Approach to Overcoming Barriers to Advancement for Women in STEM</i>			✓		✓
23	B	Kathleen Ehm	<i>PhD Career Ladder Program: An Institutional Framework for Student-Led Career Development</i>				✓	✓
24	C	Scott Klemmer	<i>Supporting Data-Centric Programming</i>				✓	✓

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25	A	Troy Hartley	<i>Visualization, Reflective Practice, and Constructive Conflict: Lessons Learned from Initial Team Science Training for Coastal and Marine STEM Graduate Students</i>			✓	✓	✓
26	B	Allison Huff MacPherson	<i>The Indigenous Mentoring Program: Initial Steps for Scaling a Model Already Implemented in the Pacific Northwest to the Southwest Region</i>			✓		✓
27	C	Kenneth Walker	<i>Advancing Science Identity in STEM Graduate Programs through Holistic Mentoring, Writing to Learn, and Public Science Communication</i>			✓	✓	✓
28	A	Jana Schaich Borg	<i>Leveraging Data Science Capstones to Enhance Professional Readiness in STEM PhD Students</i>			✓	✓	✓
29	B	Joerg Schlatterer	<i>Impact Instruments and Indicators for Individual Development Plans (I₃IDP)</i>					✓
30	C	Rose Marie Ward	<i>Using a Graduate Student Learning Community to Develop Professional Identity</i>			✓	✓	
31	A	Julianne Wenner	<i>GIFT: Graduate Identity Formation through Teaching</i>				✓	✓
32	B	Amy Smith	<i>The MIT D-Lab Co-Creation Toolkit</i>				✓	✓
33	C	Sy-Miin Chow	<i>Design and Use of iPRACTISE to Enable Individualized Pathways to Data Science Training</i>			✓		✓
34	A	Danny Reible	<i>Fostering Reflective Habits and Skills in Graduate Engineering Education via the Arts and Humanities</i>				✓	✓
35	B	Himanshu Jain	<i>An Alternative PhD Model for STEM Fields Based on Use-Inspired Research and Partnership with Industry</i>			✓	✓	✓

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36	C	Anna Courtier	<i>Overview and Pilot of a STEM Public Service Fellows Program for Graduate Students</i>				✓	✓
37	A	Julie Posselt	<i>The California Consortium for Inclusive Doctoral Education: Organizing for Equity within and across Campuses</i>			✓		✓
38	B	Sarah McCullough	<i>Asking Different Questions: Interdisciplinary Approaches to Science</i>			✓	✓	✓
39	C	Richard Gardner	<i>How to Develop Inclusive Teachers? Our Model Graduate Training Program in Teaching with a Specific Focus on Skill Development for Equitable Instruction</i>		✓		✓	✓
40	A	Elena Naumova	<i>New Ways of Training a Data-Savvy Workforce: SOLSTICE Approach</i>	✓	✓	✓	✓	✓
41	B	Paul Gondek	<i>Developing an Interdisciplinary Minor in Team-Based Creativity</i>				✓	✓
42	C	Laura Demarse	<i>Innovations in Graduate Workforce Development</i>		✓		✓	
43	A	Veronica Zepeda	<i>NSF Graduate Acceleration through Innovation and Networking (GAIN) Scholars Program</i>			✓	✓	✓
44	B	Nathan Nibbelink	<i>Enhancing Imaginative and Collaborative Capacity in STEM through Creative Inquiry</i>			✓	✓	✓
45	C	Bala Ram	<i>Developing a Research Engineer Network and a Research Engineer Identity Scale</i>			✓	✓	
46	A	Thomas Acker	<i>WindU: A Multi-University Consortium in Wind Energy Graduate Education</i>				✓	✓
47	B	Rori Rohlfs	<i>Structuring Graduate Opportunities to Learn Data Science (GOLD) for Historically Underserved Students in Biology and Chemistry</i>			✓		