



RUTGERS–NEW BRUNSWICK Graduate School of Education



Transforming Undergraduate STEM Education: Highlights From the 2025 National Academies of Sciences, Engineering, and Medicine Report

Tracie Marcella Addy, PhD
Founding Director of the Institute for Teaching, Innovation, and Inclusive
Pedagogy (TIIP)
Rutgers University

12:00pm–1:00pm
Wednesday February 18, 2026



Connect with colleagues during this in-person presentation at the GSE (Room 124).
Lunch will be provided! Can't attend in person? Join us remotely via [Zoom!](#)

The National Academies of Sciences, Engineering, and Medicine convened an ad hoc committee to develop a framework for equitable and effective teaching in undergraduate STEM and provide recommendations at various levels (e.g. courses, academic units, institutions). The resulting report *Transforming Undergraduate STEM Education* includes evidence-based principles that focus on making STEM education more accessible for learners. During this Lunch and Learn session, you will hear highlights from the report firsthand from a member of the committee, GSE affiliate faculty member, and the founding of the director of the [Institute for Teaching, Innovation, and Inclusive Pedagogy](#) at Rutgers University-New Brunswick, Dr. Tracie Marcella Addy.

Tracie Marcella Addy, PhD, MPhil is an accomplished academic leader in higher education. She received her BS from Duke University, MPhil from Yale University, and PhD from North Carolina State University. She is a published scholar of teaching and learning and educational development. Her two main scholarly areas of focus include learner-centered teaching practices and the work of centers for teaching and learning. Dr. Addy's work has been featured in a variety of academic journals and venues. She is the lead author of the books *What Inclusive Instructors Do: Principles and Practices for Excellence in College Teaching* (2021) and *Enhancing Inclusive Instruction: Student Perspectives and Practical Approaches for Advancing Equity in Higher Education* (2024). Her forthcoming books for which she is a co-author are tentatively titled *Educational Development in the Age of Change*, Johns Hopkins University Press (anticipated 2026 release), and *Transforming Undergraduate STEM at Research Universities*, Routledge (anticipated 2028 release). Recently, Dr. Addy served on the National Academies of Sciences, Engineering, and Medicine committee that developed the report *Transforming Undergraduate STEM Education* (2025) through a consensus study process. She is also a frequently invited keynote speaker and workshop facilitator. Follow her work on tracieaddy.com as well as [LinkedIn](#).