In this workshop, we will consider how leaders can shape the environment – in particular the culture of a school or school system – in ways that positively affect which initiatives are carried out and how teaching and learning take place. We will engage in conversations about the role of leadership in supporting high quality teaching and equitable student learning. Then we will present key research about the knowledge bases for teaching and explore how these bases fit into an overarching framework called Pedagogical Content Knowledge. Teaching requires a complex set of knowledge bases and a better understanding of the bases can help leaders target their efforts to support teaching and equitable student learning. Finally we will explore an important shift from previous ideas about professional development for teachers to recent research about transformative professional learning and challenge leaders to integrate these ideas into their leadership practice.

**ABOUT THE SPEAKERS**

**Dr. Janet Carlson** is Associate Professor (research) and the Faculty Director of the Center to Support Excellence in Teaching (CSET) at Stanford University. The work of CSET is focused on developing a portfolio of research, design, and development activities that improve instruction and develop leading educators who positively impact the learning of all students. Dr. Carlson’s work in the center includes designing and leading the research agenda for research-practice partnerships focused on transformative professional learning experiences for teachers that emphasize equity in the classroom. She began her career as a middle and high school science teacher and has spent the last 30 years working in science education developing curriculum, leading professional development, and conducting research. Dr. Carlson received a BA in Environmental Biology from Carleton College, an MS in Curriculum and Instruction from Kansas State University, and a PhD in Instruction and Curriculum from the University of Colorado.

**Dr. Tammy Wu Moriarty** is the Assistant Director of the Center to Support Excellence in Teaching (CSET) at Stanford University. Dr. Moriarty’s work focuses on designing and leading professional learning experiences for teacher leaders as well as school and district leaders that focus on building capacity for site-based change that supports more equitable learning for all students. Her experience includes being a secondary science teacher, a district science resource teacher, school administrator, and educational consultant. She holds a BS in Animal Physiology and Neuroscience from the University of California at San Diego, an MA in Educational Leadership from the University of San Diego, and a PhD in Leadership Studies, PK-12 Specialization from the University of San Diego.