

**Sharon Walker, Ph.D.**  
Drexel University  
Dean of the College of Engineering  
Distinguished Professor of Civil, Architectural and Environmental Engineering

**“A New Frontier for Engineering Education Predicated on Peace”**

**Abstract**

In an education landscape where being different often equates to doing more of the same, Drexel University's College of Engineering is turning traditional engineering education on its head to create a brand new paradigm with the nation's first-ever graduate program in peace engineering. Peace engineering - the application of science, engineering, and technology to promote and support peace - is based on the philosophy that a conflict is not a problem between two entities, rather it is the result of social and technological systems interacting inefficiently. At Drexel, we believe there is no one better than engineers to consider and design such systems. This lecture will focus on the launch of the Peace Engineering degree and online certificate programs at Drexel, including the challenges of defining the discipline, garnering funding, expanding our impact and ultimately launching the program. It will also highlight current research projects with peacebuilders, communities and local agencies, as well as our approach to establishing a consortium of schools and national labs who are working collectively for a national research agenda in the field.