

You are cordially invited to attend:

February 15, 2020

12:00 pm - 1:30 pm

115 Erickson Hall

Michigan State University

Light refreshments provided

CREATE Science Seminar Series presents:

Dr. Ellen L. Usher

Chellgren Endowed Professor and Chair of the
Educational Psychology Department at the University
of Kentucky



“Supporting Self-Efficacy Development in Engineering”

Abstract: To obtain an undergraduate degree in engineering requires not only disciplinary excellence but also great skill in complex problem solving, research, and self-regulation. For students who are members of minoritized groups in engineering, navigating these challenges may seem even more daunting. Drawing on insights from the field of educational psychology, engineering education, and my own research with engineering students, I will highlight the role that self-efficacy plays in engineering students’ undergraduate careers, focusing on four primary ways in which self-efficacy develops before and during postsecondary education. Special consideration will be given to the ways in which educators and industry leaders can support self-efficacy development. Implications will be shared for educating, retaining, and promoting a diverse engineering workforce.

Bio: Ellen L. Usher is Chellgren Endowed Professor and Chair of the Educational Psychology Program at the University of Kentucky. She is also Director of the P20 Motivation and Learning Lab. Her research focuses on the sources and effects of beliefs of personal efficacy in diverse contexts. From 2016 to 2018, Dr. Usher served as the chair of the Motivation in Education Special Interest Group of the American Educational Research Association (AERA). She is Associate Editor for the *British Journal of Educational Psychology* and is an editorial board member of the *Journal of Educational Psychology*, the *American Educational Research Journal*, and *Contemporary Educational Psychology*. She also serves as member of the AERA Committee on Scholars and Advocates for Gender Equity in Education.



This speaker is part of the **CREATE Seminar Series**.

For more information, please visit

<http://create4stem.msu.edu/seminar-series>

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