

That None Shall Perish

Kelly Mack

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Association of American Colleges and Universities**

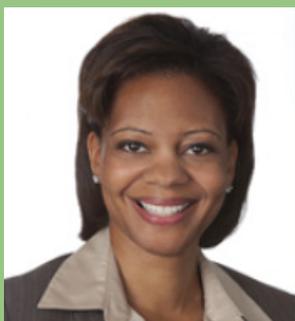
Wednesday, February 19, 2020

4-5pm in ASB 210

reception at 3:30

Co-sponsored by the Center for Science & Mathematics Education, HHMI UPSTEM, and the Office of Undergraduate Studies

Every fifteen minutes, a student majoring in any of the STEM disciplines either changes his or her major to a non-STEM discipline or withdraws from college altogether (NSF 2019). This troubling phenomenon disproportionately, although not exclusively, affects students of color who now comprise the fastest-growing undergraduate populations in US colleges and universities. Advancing discovery and innovation demands that US institutions of higher education, and the professional organizations that support them, hear and heed the clarion call for greater diversity in STEM. However, we cannot continue to turn to mere workaround strategies that, by themselves, fail to address the root causes of the underrepresentation of diverse students in these disciplines. Rather, we must lean toward a broadening participation agenda that is more daring than accommodating, reflective than prescriptive, and more open- than closed-ended. Dr. Mack's presentation will focus on the highly acclaimed AAC&U Teaching to Increase Diversity and Equity in STEM (TIDES) initiative, which is targeted toward empowering STEM faculty to implement culturally responsive teaching strategies in STEM classrooms. These strategies have been shown to not only effectively retain underrepresented students in STEM, but also to significantly improve STEM faculty self-efficacy in proactively addressing the academic needs of diverse students with cultural awareness, consciousness, and sensitivity.



Dr. Mack provides leadership for the AAC&U's mission level commitments to quality and inclusion through the delivery of world class professional development aimed at empowering our nation's finest STEM faculty to competitively train and educate more STEM students. Prior to joining AAC&U, Dr. Mack was the Senior Program Director for the National Science Foundation ADVANCE Program while on loan from the University of Maryland Eastern Shore where, as a Professor of Biology, she taught courses in Physiology and Endocrinology for 17 years.

