

1. Name: **Charles H. Margraves**
2. Education – degree, discipline, institution, year
 - Ph.D., Mechanical Engineering, The University of Tennessee at Knoxville, 2008
 - M.S., Mechanical Engineering, Georgia Institute of Technology, 2003
 - B.S., Engineering, The University of Tennessee at Chattanooga, 1996
3. Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate)
 - The University of Tennessee at Chattanooga, Assistant Professor, 2013 – Present
 - Lecturer and Senior Lecturer, Michigan Technological University, 2008 – 2013
 - Research Assistant, The University of Tennessee at Knoxville, 2005 – 2008
 - Teaching Assistant, The University of Tennessee at Knoxville, 2003 - 2005
4. Non-academic experience – company or entity, title, brief description of position
 - Stone Engineering Company, Mechanical Engineer, provided analytical support to multiple missile defense systems and assisted in development, construction, testing, and analysis of a Small Business Innovative Research (SBIR) project involving a pintle controlled bi-propellant gel constant pressure throttle rocket motor, 1998 - 2003
 - Denso Manufacturing, Production Engineer, project leader for design and installation of powder coating line. Developed procedures for installation of new products on machining and assembly lines for starter motor clutch, 1996 - 1998.
5. Certifications or professional registrations
 - None
6. Current membership in professional organizations
 - American Society of Mechanical Engineers (ASME)
7. Honors and awards
 - 2014, 2015 Departmental Teaching Award (Department of Mechanical Engineering), The University of Tennessee at Chattanooga
 - 2011 and 2012 Departmental Teaching Award (Mechanical Engineering – Engineering Mechanics), Michigan Technological University
 - 2010 Distinguished Teaching Award (University level award), Michigan Technological University
 - 2010 Inducted into the Academy of Teaching Excellence at Michigan Technological University
8. Service activities (within and outside of the institution)
 - 2014-2015 Faculty mentor for Chattanooga High School Center for Creative Arts senior project.
 - 2014 Panel member for UTC student athlete program focusing on the transition from athletics to the professional world. 2011 Provided Key Note Address for the Top Scholars Banquet at Michigan Technological University

- 2011 Invited speaker for the student chapter of ASEE with regards to choosing education as a profession (Michigan Technological University) Facilitator of the Freshmen Engineering Explorations Program for the MTU MEEM Department
9. Briefly list the most important publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation
- C.H. Margraves, Kihm, K., Yoon, S., Choi, C.K., Lee, S., Liggett, J., Baek, S. (2011). Simultaneous Measurements of Cytoplasmic Viscosity and Intracellular Vesicle Sizes for Live Human Brain Cancer Cells, *Biotechnology and bioengineering*, in press. doi:10.1002/bit.23186.
 - Miller, M., J. Gershenson, C. Margraves, I. Miskioglu and G. Parker, “Work in Progress: Weaving Threads of Sustainability into the Fabric of the Mechanical Engineering Curriculum,” Proc. of the Frontiers in Education Conference, IEEE, Rapid City, SD, October, 2011.
 - Miller, M., J. Gershenson, C. Margraves, I. Miskioglu and G. Parker, “Weaving Threads of Sustainability into the Fabric of the Mechanical Engineering Curriculum: Impacting the Fundamental Manner in which Students Solve Problems”, Poster Session, NSF Engineering Education Awardees Conference, Arlington VA, March 4-2, 2012.
10. Briefly list the most recent professional development activities
- Completed LabVIEW Training courses 1 and 2, Summer 2014.
 - Served as reviewer for the Richard Allen Trim Memorial Scholarship.