

Mechanical & Aerospace Engineering MAE-297



Elizabeth Loba, Ph.D.

Dean, College of Engineering
Professor of Bioengineering
University of Missouri, Columbia

Thursday, February 23, 2017
4:10-5:00pm
1062 Bainer Hall

A Tissue Engineered Life: from UCD to ASC then M-I-Z

In this presentation, Dr. Loba will discuss approaches in her lab to elucidate and optimize biomimetic materials and mechanical stimuli for tissue engineering and regenerative medicine applications using human adipose derived stem cells (hASC). Human ASC are a particularly promising cell source for functional tissue engineering applications due to their multilineage differentiation potential and their abundance and ease of harvest relative to many other cell types. Focus will be placed on regeneration of skin and musculoskeletal tissues; and, approaches to wound care and tissue regeneration while combating multi-drug resistant bacteria, in particular methicillin resistant *Staphylococcus Aureus* (MRSA).

To conclude her talk, Dr. Loba will also share a bit of her personal and professional journey since receiving her B.S. in Mechanical Engineering from UC Davis to her current role as Dean and Professor of Bioengineering at Mizzou.

Biosketch: Elizabeth G. Loba is Dean of the College of Engineering at the University of Missouri and a professor of bioengineering. As dean, she oversees nine disciplines, 103 faculty members and 3,500 undergraduate students, as well as a variety of research centers, programs and facilities that contribute to MU's overall annual research and development spending. Loba provides leadership and strong advocacy for research and education and shapes the future of the College through continued excellence in research, education and campus diversity. Dean Loba's technical focus is in the area of tissue engineering & biomaterials; regenerative medicine and wound healing; and stem cells. She received her BS from the University of California, Davis, and MSE and PhD from Stanford University.