

Bioengineering Seminar, College of Engineering, University of Toledo

Transparent Ultrathin Porous Membranes for Cellular Barrier and Co-Culture Models

Presented by:

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Associate Professor

Biomedical Engineering

Rochester Institute of Technology

Rochester, NY

Friday, September 15, 2018

11:30 am – 12:30 pm

Where: SSOE Seminar Room, Room 1027 Nitschke Hall

Time: 11:30 am – 12:30 pm

Biography

Thomas Gaborski is an entrepreneurial bioengineering faculty member and co-founder of a nanomaterials startup company. He holds a bachelor's degree in Biological and Environmental Engineering from Cornell University and completed a Ph.D. in Biomedical Engineering from the University of Rochester. As a graduate student, Dr. Gaborski was a university presidential fellow and recipient of an NIH Individual Kirschstein-NRSA predoctoral fellowship. His graduate work initially focused on leukocyte recruitment and the biophysics of adhesion molecule mobility and surface localization. It was during this work that he became involved with the life science applications of a novel class of ultrathin membranes leading to the co-founding of SiMPore in 2007. While at SiMPore, he was the principle investigator on several NIH small business innovative research grants. After serving as President of SiMPore, Dr. Gaborski joined the newly formed Biomedical Engineering Department at RIT in 2012. He is an inventor on 5 issued patents in nanobiotechnology and author of more than 20 peer-reviewed publications in Nature, ACS Nano, Biomaterials, PNAS and others. In 2014, he was named a Young Innovator in Cellular and Molecular Bioengineering by the Biomedical Engineering Society. Currently, his academic laboratory is supported by more than \$2M in federal funding from NSF and NIH, including an Early Investigator R35 award. His team is currently developing novel materials for tissue-on-a-chip and portable hemodialysis technologies. He is passionate about closing the gap between nanomaterial discoveries and their use in addressing research and clinical needs.