


Joint Graduate Program in Biomedical Engineering

University of Memphis
Herff College of Engineering

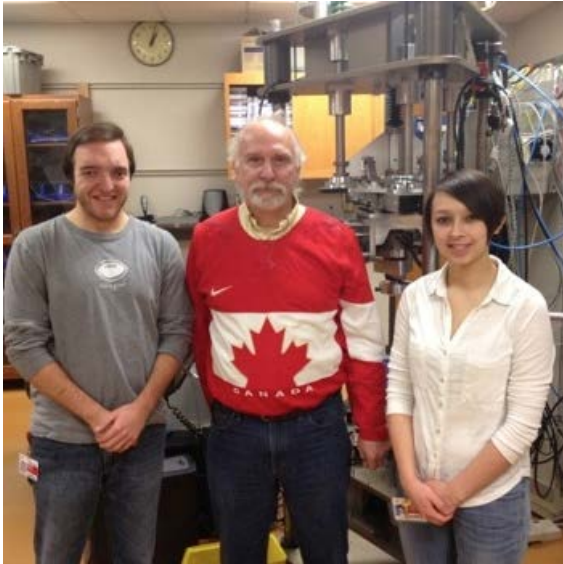
University of Tennessee
Health Science Center

It's Spring again, many of our students will be graduating and moving to new work-sites, and applicants are visiting and discussing with faculty members projects they might begin in the Summer or Fall. Letters of admission and financial aid have gone or are going out to the next cycle of students. It's a happy, busy time when people write and submit manuscripts describing efforts in theses and dissertations and see them published.

We proudly offer this letter with its reports of efforts by a fraction of our people. We hope to see you personally some time soon and relate the achievements of others here.

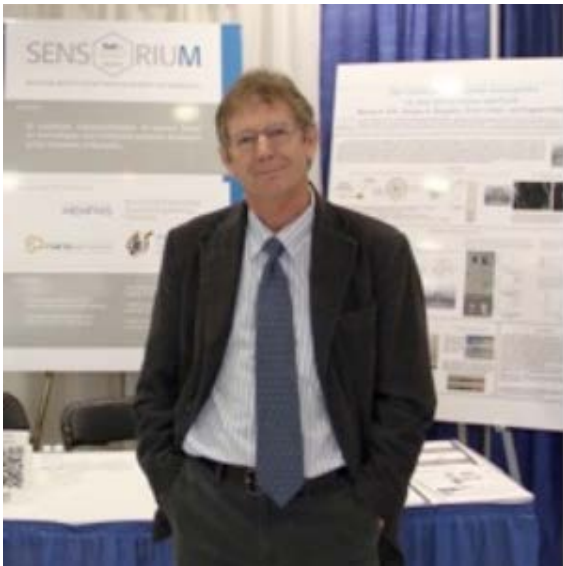
With best regards,
Bill and Gene





Professor Spotlight: Dr. DiAngelo

Dr. DiAngelo is the UTHSC Distinguished Professor in Biomechanics and Director of the BioRobotics Laboratory in The Department of Orthopedics and Biomedical Engineering at The University of Tennessee Health Science Center. Along with his graduate students and primary faculty collaborator, Dr. Brian Kelly, they have developed advanced robotic testing platforms that simulate how human joints move under different loading conditions. [Read more...](#)



Professor Spotlight: Dr. Erno Lindner

Dr. Ernő Lindner is a R. Eugene Smith Professor of Biomedical Engineering in the Joint Program. He is a professor of Chemistry and director of the Sensor Institute of the University of Memphis (SENSORIUM). Dr. Lindner and his graduate students work on the development of electrochemical and optical sensors for clinical diagnostics and for measurements of ions as well as small and large molecules in a variety of biological matrices. [Read More...](#)



Professor Spotlight: Dr. Amy Abell

In January of 2013, Dr. Amy Abell joined as an Assistant Professor, the UoM Department of Biological Sciences with a joint appointment in the Joint UM-UT Biomedical Engineering Program. One goal of Dr. Abell's research is to identify master regulators of EMT and the reverse process MET, including identifying the signals and genes that determine if a cell is epithelial or mesenchymal and the events that

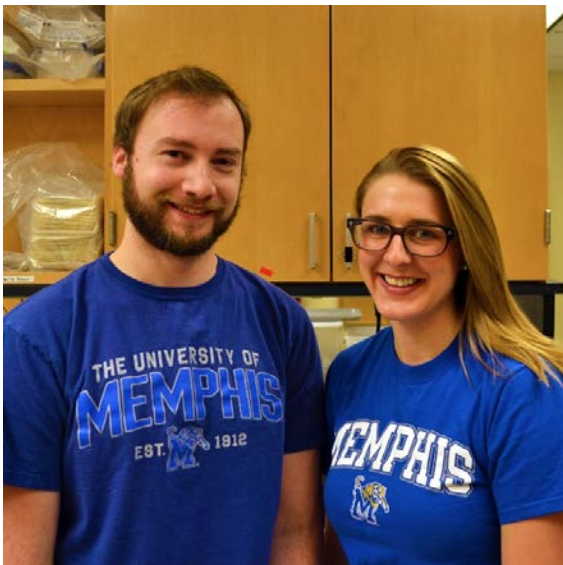
drive cells in one direction or another.

Identifying these regulators will enable the design of new strategies for regenerative medicine and the treatment of EMT- related pathologies. [Read more...](#)



Student Spotlight: Chloe Chung

Graduate student Chloe Chung majored in Mechanical Engineering at Christian Brother's University in Memphis, TN. Through her undergraduate internship experiences with the local companies Medtronic and Olympus Surgical Technologies of America, Chloe developed a passion for biomedical device design and biomechanical analysis. Chloe's interests led her to the Joint Program and to Dr. Denis DiAngelo's BioRobotics laboratory. [Read More...](#)



Student Spotlights: Jenny Jarvis and Greg McGraw

Meet [Jenny Jarvis](#) and [Greg McGraw](#) two outstanding University of Memphis Graduate Students. Jenny conducts research in the biosensor laboratory under the direction of Dr. Ernö Lindner where she is currently working on an industrial project involving blood gas analyzers used in critical care units. Greg works for Dr. Joel Bumgardner in the Biomaterials Applications of Memphis (BAM) group. He is researching a local drug delivery device that is composed of chitosan, a biopolymer derived from chitin of crustacean shells, and exploring methods that will improve the drug release profile and degradation rate.

Alumni Spotlight: Henry Bonin

Henry Bonin, MS 2006, worked with Dr.



Diangelo. He started his career with Medtronic Sofamor Danek, designing custom instruments as a product development intern in the Interbody group. [Click here](#) to enjoy his Q & A session.



Dr. Mihalko and Dr. Pendley Address Student Chapter

Dr. Mihalko and Dr. Pendley advised students that intend to apply to medical school how to set themselves apart from other applicants. They answered questions about the application process and described their experiences going through their respective MD and Ph.D. degrees. Dr. Mihalko and Dr. Pendley also talked about what sets the MD apart from other medical professional degrees. They talked about the medical school experience and professional experience once a new physician/researcher enters the work force.



Video Voted a Favorite

University of Memphis Biomedical Engineering PhD candidate Lauren Eichaker's "Tendon Bone Interface" video won third place in the Orthopedic Research Society Video Outreach Competition. This year, researchers were asked to make a video highlighting how the collaborations of scientists, engineers and clinicians are vital to improving orthopaedic healthcare. [Click to watch](#) her submission. Scroll to "Tendon Bone Interface" and enjoy! [Read more about Lauren here.](#)

Thesis & Dissertations

Congratulations to the Joint BME Graduate



Program MS and PhD students. Since last fall, we have 10 MS Students and 2 PhD candidates. [Click here](#) to for a list of student names and thesis titles.



Victory Files!

Enjoy reading and celebrating the great news and wins received since the last newsletter. Click here to enjoy the [Victory Files](#).



Enjoy these [photos](#) highlighting the **Fall 2013 BMES/SFB**.

This photo was taken at the BMES kickball social.



April 10th at 5:00 p.m. - to 6:00 p.m.,
with a reception following
Memphis Bioworks Auditorium, Conference
Center, 20 S. Dudley, First Floor

Discussion: Problems in Pediatric Orthopaedics

Panelists Include:

Derek Kelly, M.D. - Moderator

Jeff Sawyer, M.D., Pediatric

Orthopaedist, Associate Professor of Orthopaedic Surgery, University of Tennessee Department of Orthopaedic Surgery

John Williams, Ph.D., Basic Scientist, Professor Biomedical Engineering, University of Memphis

TBA, Industry, Orthopediatrics



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