

Report of Biomaterials Day 2018
October 19th 2018
James B. Hunt Jr. Library, NC State University

The Society for Biomaterials Student Chapter at North Carolina State University organized the second annual Biomaterials Day on Friday, October 19th, 2018 at the James B. Hunt Library located on the University's Centennial Campus. There were 131 people registered online before the event and more than 90 people showed up to attend.

This year Dr. Jeffrey Joines, the Department Head and Professor of Textile Engineering, Chemistry and Science, gave us the welcome address in the opening session. Like last year, there were four invited speakers. Drs. Ke Cheng and Zhenhua Li from Molecular Biomedical Science, NC State, talked about biomaterial and biomimetic approaches for cardiac cell therapy. Dr. Edwin R. Cadet, MD, from Raleigh Orthopaedic Clinic, who was recognized in 2013 by the New York Times Magazine as one of the Super Doctors[®] New York Rising Stars, gave a lecture on the topic of "Innovations in Rotator Cuff Repair", leading us through the causes, surgical principles, and clinical procedures for repairing a torn rotator cuff.



Dr. Edwin R. Cadet gave the lecture
about rotator cuff repair

Dr. Jason Cramer from the NC State Graduate School joined us at lunch to talk about the current job landscape, the required skills for finding employment, as well as introducing us to the "Accelerate to Industry" (A2i) program founded at the NC State Graduate School and now being franchised to other universities across the country.



Dr. Jason Cramer introduced A2iTM program



Lunch time

Dr. Barbara Nsiah, a senior scientist at United Therapeutics Corporation, delivered the first lecture in the afternoon focused on the manufacturing process required for a tissue engineered lung. She gave us a clear sense of the differences in the R&D approach between academia and industry. Dr. Thomas H. LaBean, Professor from Materials Science and Engineering at NCSU, shared his research focus on the design, construction, testing and application of self-assembled DNA nanostructures and their biomimetic fabric of nano-electronics.



Dr. Barbara Nsiah answered question

This year Biomaterials Day attracted 20 student speakers from different departments and universities who gave either oral or poster presentations. Awards were given to the following winners: Ria D. Corder from Chemical and Biomolecular Engineering (CBE) at NCSU, and Emily P. Mihalko from Biomedical Engineering (BME) at NCSU & UNC Chapel Hill won the first and second prize in the oral presentation competition. Ke Huang from Molecular Biomedical Science and the Comparative Medicine Institute (NCSU), Seema Nandi (BME), and Bgaradwaha S.T.P. (CBE) stood out in the poster competition and won the first, second and third prizes, respectively.

Dr. Martin W. King made the closing remarks and presented the awards to the student winners. A sincere “Thank you” was expressed for our five judges (Dr. Susan H. Bernacki, Dr. Martin W. King, Dr. Wendy Krause, Dr. Kavita Mathur, and Dr. Gisela Umbuzeiro) who were able to evaluate the student’s research work and presentations from a multidisciplinary perspective.



Dr. Martin W. King with oral presenters

The whole event could not have been such a big success without our outstanding invited speakers who gave us four amazing lectures, and the generous sponsors whose financial support provided us with registration

kits, rental of the library space, student awards, lunch and refreshments. The sponsors were ATEX Technologies Inc., NC State College of Textiles, NC State Student Government, North Carolina Biotech Center, North Carolina Textile Foundation, Novozymes Inc., Terumo Aortic Inc. and the Society for Biomaterials. The officers of the Student Chapter: Yihan Huang, Dan Chester, Sherry Xie and Monica Deshpande, wish to thank all the volunteers whose commitment of time and effort insured the event's success. The Society for Biomaterials Student Chapter at NC State University looks forward to continued growth and prosperity in the coming year, and plans to organize another Biomaterials Day event in 2019.



“Gold Sponsor ”ATEX demonstration table



SFB Student Chapter officers at NC State

Officers of the Student Chapter:

Yihan Huang

Daniel Chester

Yu (Sherry) Xie

Monica Deshpande