

**Biomaterials Day Report**  
**October 30, 2020**  
**NC State University, Raleigh, NC**

The Society for Biomaterials Student Chapter at North Carolina State University organized our fourth annual Biomaterials Day on Friday, October 30, 2020 as a virtual event. This year's event was held via zoom and had 134 people registered online and approximately 90 attendees on the day of the event.

The officers of the student chapter of the Society for Biomaterials at North Carolina State University opened the day welcoming attendees. We had three invited speakers this year who each spoke during one of our three sessions: Biomaterial Fabrication and Synthesis, Applications of Biomaterials, and Development and Commercialization of New Biomaterials. A virtual poster session concluded the event.

Our first invited speaker, Dr. James Henderson from Syracuse University, spoke about stimuli responsive and multifunctional polymers during the session "Biomaterial Fabrication and Synthesis." He was followed by two graduate student presentations from students in the Joint Biomedical Engineering department at NCSU and UNC Chapel Hill and the Department of Restorative Sciences at Minnesota Dental Research Center for Biomaterials and Biomechanics at the University of Minnesota School of Dentistry.

Our second session, entitled "Applications of Biomaterials," was headlined by Dr. Michael Monaghan from Trinity College Dublin, who spoke about applying novel design and non-invasive investigations using electroconductive scaffolds. Dr. Monaghan's presentation was followed by two graduate student presentations from students in the Joint Biomedical Engineering department at NCSU and UNC Chapel Hill.

Between each presentation, there was time for brief questions and answers. During the lunch break, our zoom meeting was left open to attendees to ask more detailed questions and engage in discussion.

Dr. Stephanie Reed, Director of Advanced Biomaterials Development, gave our third invited talk of the day during the session “Development and Commercialization of New Biomaterials.” Dr. Reed spoke about sustained drug delivery using biodegradable polymers and discussed gaps between academic innovation and industry adoption and how to bring better next-generation drug delivery solutions to patients. Her talk was followed by two oral presentations from post doctorate students in the Joint Biomedical Engineering department at NCSU and UNC Chapel Hill.

Due to limitations this year from COVID-19, fewer time slots were allocated to presentations, but we did have 6 oral presenters and had 5 poster presentation from students in the Department of Biomedical Engineering at NC State and UNC Chapel Hill, the Department of Nanoengineering at North Carolina A&T State University, and the Department of Materials Science and Engineering at NCSU. We were able to represent a variety of departments and institutions during the presentations throughout the day this year with invited speakers from across the globe. Awards for best oral presentations were given to Pritha Agarwalla and Seema Nandi from the Joint Biomedical Engineering department at NCSU and UNC Chapel Hill. Awards for best poster presentations were given to Daniel Chester and Halston Deal from the Joint Biomedical Engineering department at NCSU and UNC Chapel Hill.

Closing remarks were given, expressing a thank you to all of our attendees and speakers as well as to our judges: Dr. Ashley Brown, Dr. Martin King, Dr. Jessica Gluck, Dr. Donald Freytes, Dr. Camilo Mora Navarro, Dr. Parthiban Rajan. Jennifer Sollinger, and Stephanie Teeter. The officers of the Student Chapter of SFB at NC State would also put together a follow up survey, which was sent to everyone registered for the event, for insight into aspects people enjoyed with the virtual format and ways the event could be improved. We look forward to continued growth and success in the coming year and for our next Biomaterials Day in 2021.

Officers of the Student Chapter of the Society for Biomaterials at North Carolina State University:

Emily Mihalko, President

Zachary Davis, Vice President

Grant Scull, Secretary

Ziyu Wang, Treasurer