

1. Purpose of the Event:

The purpose of the event was to create a meeting place for academics, biotech industry professionals and clinicians to attend intriguing talks and discuss the current climate of orthopaedic biomaterials research. Since this was our third Biomaterials Day conference our goal was to increase our impact through a larger and more diverse audience.

2. Number and names of universities and industry partners participating:

Academic Partners (8)

University of South Dakota
University Center
South Dakota State University
Augustana University
South Dakota School of Mines and Technology
University of Iowa
Georgia Technical Institute
University of Memphis

Industry Partners (6)

University of South Dakota Discovery District Research Park
South Dakota Biotech Association
Small Business Technology Business Center
OmegaQuant
Nanopareil, LLC
Alumend

Research Institutions (3)

Small Business Innovation Research
Sanford Vascular Research Team
Sanford Research

3. Event Highlights:

Our third successive Biomaterials Day conference was very well received and we fulfilled our goal of increasing our attendance over the previous years' number of participants. We attracted high caliber speakers who gave excellent and engaging talks. Our keynote speaker was, once again, the highlight of the event. Dr. Joel Bumgardner of the University of Memphis gave his talk on the characterization of chitosan. He is a very animated speaker who was as entertaining as he was informative! Dr. Temenoff gave her talk on GAG modifications of scaffolds. She was charming and engaging and was happy to take the many thoughtful and poignant questions from the audience. Dr. Lim, our other

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plenary speaker rounded out the topic of orthopaedic biomaterials with his inspiring lecture on biomechanical loads in the spine.

As mentioned earlier, the poster session for our 2015 Biomaterials Day conference was the largest to date, with 26 total posters in the exhibition. The poster session was immediately before lunch, which we believe facilitated interactions between all participants and allowed for more time for everyone to network. The final session of the day was a panel discussion detailing the plans for a state-of-the-art 80-acre research park that is in the final stages of planning. The director of the research park, along with a local biotechnology advocate from SD Biotech Association and the director of the Biomedical Engineering Department discussed how the space will be used and which companies and institutions have signed on.

4. Number of Attendees: 56 attendees.

5. Sponsors:

The Society for Biomaterials, South Dakota Biotech Association, and The University of South Dakota.

6. Name and Contact Information of Organizers:

- Niranjan Ghimire - USD SFB Student Chapter President
Email: Niranjan.Ghimire@coyotes.usd.edu
- Eric Sandhurst - USD SFB Student Chapter Secretary and Treasurer, Biomaterials Day Chair
Email: Eric.Sandhurst@coyotes.usd.edu
- Yangxi Liu - USD SFB Student Chapter Bylaws Chair, Social Media Chair
Email: Yangxi.Lui@coyotes.usd.edu

7. List of Speakers:

1. Keynote Speaker
Dr. Joel Bumgardner, University of Memphis
2. Plenary Speaker I
Dr. Johnna S. Temenoff, Georgia Tech
3. Plenary Speaker 2
Dr. Tae-Hong Lim, University of Iowa
4. Panel Speakers
 - a. **Joni Johnson, South Dakota Biotech Association**
 - b. **Rich Naser, South Dakota Technology Business Center**
 - c. **Daniel Engebretson, University of South Dakota**

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8. Name of Poster Session Awardees:

1st place: Hannah Sanyour

2nd place: Eric Sandhurst

3rd place: Yangxi Liu

9. Event Photographs:

See attached photo recap PDF

10. Success Story

The 2015 Biomaterials Day hosted by the University of South Dakota was a very successful event that brought together interested students and faculty from around the region, leading biomedical researchers, local industry professionals and representatives from local businesses. The event was well received and helped us meet many of our goals that we had developed after previous years' events! One of the specific goals was offering unique opportunities for networking which was emphasized during our largest poster session to date. The biotech sector is rapidly growing in South Dakota, so we also wanted to give students and industry partners an opportunity to hear about the exciting upcoming infrastructure development projects. Our panel discussion highlighted the state-of-the-art USD Discovery District, a new 80-acre Research Park that will combine private industry, academia, and retail to create an infrastructure for research innovation, small business incubation and product commercialization. It was an excellent way to involve the diverse audience in the the potential impacts of this revolutionary project!