

The 2012 UKY-Purdue-Case Biomaterials Day (<https://www.engr.uky.edu/biomaterialsday/>) was an event that brought together many undergraduate, graduate, and post-graduate researchers to share and discuss their groundbreaking research at the interface of medicine and engineering. The theme for this year's event was "From Applications to Understanding", and the goal was to intertwine these together by inviting a number of speakers from academia and industry to discuss their different research environments and cultures. The keynote speaker for our event was Dr. William Wagner from the University of Pittsburgh.

We had a final registration count of 120 people from 9 different universities and 5 companies, including:

Case Western Reserve University  
Cleveland Clinic  
Illinois Institute of Technology  
Miami University at Ohio  
Purdue University  
Southern Illinois University  
University of Kentucky  
University of Tennessee  
Vanderbilt University  
Alltech, Inc  
Catalant  
Cook Biotech  
CSL Behring  
Orthopectics

The invited speakers from academia were the following:

Cleveland Clinic – Anand Ramamurthi  
Purdue University - Corey Neu  
Miami University at Ohio - Justin Saul  
Case Western Reserve University - Anirban Sen Gupta  
University of Kentucky – Bradley Berron

Additionally, we had multiple industry partners attend as invited speakers, including:

Alltech, Inc – Stefan Kwiatkowski  
Catalant – Ketan Gujarathi  
Orthopectics – Tom Hedman

While we attempted to attract many different sponsors from local companies, the only official sponsor was the Bose Corporation.

We awarded presenters from both oral and poster sessions for 1<sup>st</sup> and 2<sup>nd</sup> place. These winners were:

Samantha Meenach (University of Kentucky) - \$175 - 1st Place Oral Presentation for "Characterization and Optimization of Inhalable PEGylated Phospholipid Microparticles and Nanoparticles Containing Paclitaxel for Targeted Pulmonary Nanomedicine in Lung Cancer.

Shann Yu (Vanderbilt University) - \$75 - 2nd Place Oral Presentation for "Achieving Cancer Immunotherapy through RNA Interference in Tumor-Associated Macrophages via 'Click,' Mannosylated Polymeric Nanoparticles."

Renay Su (Purdue University) - \$175 - 1st Place Poster Presentation for "Characterization of Modular Resilin-based Proteins for Applications in Cartilage Engineering."

Martina Miteva (Vanderbilt University) - \$75 - 2nd Place Poster Presentation for "A novel pH-responsive mixed micelle for siRNA delivery,"

### **Names and Contact Information of Organizers**

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