

**The Committee Roundtable on Biomedical Engineering Materials and
Applications (BEMA)
“Biology Meets Material Morphology”
June 28-29, 2018
Jonsson Center, National Academies
Woods Hole, MA (Carriage House)**

Thursday, June 28, 2018

8:00 – 8:45 am	Working Breakfast
8:45 – 9:05 am	Welcome and Introductions Becky Bergman, Art Coury, BEMA Co-chairs
9:05 – 9:55 am	Barbara Boyan, Virginia Commonwealth University. “How Surface Micro/Meso/Nano Structure Modulates Cell Response”
9:55 – 10:45 am	Anand Deva, Macquarie University, Australian School of Advanced Medicine (participating remotely), Bacteria, biofilms and the surface of breast implants
10:45 – 11:05 am	<i>Break</i>
11:05 – 11:55 am	Rebecca Taylor, Carnegie Mellon University. “DNA Nanotechnology and Microstructures for Biomimetic Sensors and Actuators”
11:55-1:00 pm	Working Lunch: Served at the Jonsson Center Dining Area
1:10 – 2:00 pm	Markham Luke, FDA. “Biomaterials and Drugs – Generic Drugs with Biomaterial Components: Impact of Drug Delivery, Drug Complexity”
2:00 – 2:50 pm	Anna Belu, Medtronic, Medical Devices and the Biointerface: An Industrial Perspective
2:50 – 3:10 pm	<i>Break</i>
3:10 – 4:00 pm	Joseph Khoury, Exogenesis. Enhanced bioactivity and osseointegration of PEEK by nano-scale surface modifications with accelerated neutral atom beam (ANAB) technology.
4:00 – 4:30 pm	Day 1 General Discussion

NATIONAL MATERIALS AND MANUFACTURING BOARD

4:30-5:30 pm Reception (Jonsson Center Dining Area)

5:30 -7:00 pm Dinner (Jonsson Center Dining Area)

Friday, June 29, 2018

7:30 – 8:15 am Working Breakfast

8:15 – 9:05 am Kaitlyn Ammann, University of Arizona: “How You Form It Matters”:
Polymer Processing Techniques as a Component of Improving Selectivity
of Vascular Cell Adhesion and Wound Healing

9:05-9:55 am Brennan Torstrick, NuVasive, "Relative influence of topography and
chemistry on implant osseointegration"

9:55 – 10:45 am *Break*

10:25 – 10:40 am Rapporteur – Kaitlyn Ammann, University of Arizona

10:40– 11:30 am Planning Session for Upcoming BEMA Meetings

11:30 am Adjourn/Lunch