

# NATIONAL MATERIALS AND MANUFACTURING BOARD

## The Committee Roundtable on Biomedical Engineering Materials and Applications (BEMA) “Materials used in the Extracorporeal Space and their interactions with Blood”

June 13-14, 2019

Jonsson Center, National Academies  
Woods Hole, MA (Carriage House)

### Thursday, June 13, 2019

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	Richard Edelson, MD, Yale School of Medicine “Extracorporeal Photophoresis”
9:55 – 10:45 am	Biju Parekkadan, PhD., Rutgers University Sentien’s Extracorporeal Mesenchymal Stem Cell technology "Ex vivo mesenchymal stromal cell therapy for the treatment of systemic inflammatory disease"
10:45 – 11:05 am	<i>Break</i>
11:05– 11:55 pm	Joerg Gerlach, MD, PhD, University of Pittsburgh “Extracorporeal liver support devices and potential problems in commercialization”
11:55-1:00 pm	Working Lunch: Served at the Jonsson Center Dining Area
1:10 – 2:00 pm	Marvin J. Slepian M.D., University of Arizona “Cardiovascular Therapeutic Device Hemocompatibility: Present Status, Future Potential - Design, Virchow's Triad, Drugs and Beyond”
2:00 – 2:50 pm	Richard J. Johnson, PhD., Biophia Lake Forest, Illinois "Complement Activation in Extracorporeal Therapies"
2:50 – 3:10 pm	<i>Break</i>
3:10 – 4:00 pm	Aly El Banayosy, Baptist Medical Center Oklahoma City “ECMO,” and “Transplant Technology”

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- 4:00 – 4:50 pm Alyssa Kitchel, U.S. Food and Drug Administration  
“The Regulation of Extracorporeal Cell-Based Combination Products”
- 4:50-5:30 pm Reception (Jonsson Center Dining Area)
- 5:30 -7:00 pm Dinner (Jonsson Center Dining Area)

## **Friday, June 14, 2019**

- 7:30 – 8:15 am Working Breakfast
- 8:15 – 9:05 am Marvin J. Slepian M.D., University of Arizona  
Art Coury, PhD, Northeastern University  
“Materials of Construction of Circulatory Assist Devices: Successes and Challenges”
- 9:05-9:55 am *Break*
- 9:55 – 10:45 am Rapporteur – Nancy Lieberman, Northeastern University
- 10:45 – 11:30 am Planning Session for Upcoming BEMA Meetings
- 11:30 am Adjourn/Lunch