



Surfaces in
Biomaterials
Foundation

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Wednesday, September 8

12:00 p.m. CT – 3:00 P.M. CT

BioInterface Workshop: Medical Device Pioneers

Chair: Landon Nash, Shape Memory Medical

Karen Wooley, Texas A&M University

"Synthetic strategies by which to afford natural product-based polymer materials: impacts on sustainability, life, health and the environment."

Cambre Kelly, Restor3d

"Translation of new materials into medical implants."

Sarah Mayes, Alafair Biosciences

"VersaWrap - the bench-to-bedside journey of a university technology."

Register for an unlimited pass to all recorded sessions.

\$100 for Members

\$150 for Non-Members

Friday, September 10

12:00 p.m. CT - 1:30 p.m. CT

Tissue engineering, clinical translation, host-biomaterial interactions, and surface modifications

Co-chairs: Avinash Patil, Biolinq Inc. and Tim Bloomquist, ISurTec

Session Sponsor: Tissue engineering, clinical translation, host-biomaterial interactions, and surface modifications



Emma Garcia, ISurTec

"Patterning surfaces of nanofibrillar scaffolds for biomimetic tissue architecture."

Lukas Hentschel, Materials Science and Testing of Polymers, Montanuniversitat Leoben - Austria

"Clinical implementation of patient specific polymeric implants."

Maoqi Mark Feng, Dynamic Entropy Technology LLC

"Hydrolyzed collagen hydrogels development for biomedical applications."

Zeeshan Syedain, Vascudyne

"Engineered tissue biomaterial: from bench to clinical experience."

Wednesday, September 15

12:00 p.m. CT - 1:30 p.m. CT

Biomedical implants

Co-chairs: Marziya Hasan, Shape Memory Medical and Mathew Mathew, University of Illinois Chicago-Rockford

Shreya Raghavan, Texas A&M University

"Macrophage Activation in Response to Shape-memory Polymer Coated Embolization Coil Devices."

Valentim Barao, University of Campinas (UNICAMP) - Piracicaba Dental School

"Tailoring the synthesis of copper-doped coatings on titanium-based material."

Mozart Neto, Rush University Medical Center

"Microstructural characterization and its effect of electrochemical behavior of TMJ implants."

Mary Beth Monroe, Syracuse University

"Shape memory polymer foams with improved survival in a lethal hemorrhage model."

Keynote Speaker: Dr. Stuart Williams, University of Louisville

3:00 p.m. CT - 4:00 p.m. CT

"Point of care medical device manufacturing."

Friday, September 24

1:00 p.m. CT - 2:10 p.m. CT

Bioinspired solutions to clinical problems

Co-chairs: Akhil Patel, Vertex Pharmaceutical/Cell and Gene Therapies and Leena Jongpaiboonkit, Metronic

Yingfei Xue, Columbia University

"Bioprosthetic heart valve degeneration: from mechanism to mitigation strategies."

Siyong Choi, Cornell University

"Intrafibrillar, bone-mimetic collagen mineralization as a model system to study breast cancer bone metastasis."

Yen Kong, Cytvia

"Wave inspired cell expansion in immune cell therapy."

Ketul Popat, Colorado State University

"Modulating hemocompatibility and anti-bacterial activity through nanoscale surfaces"

Wednesday, September 29

1:00 p.m. CT - 2:00 p.m. CT

Excellence in Biomaterials Science Award Winner

Dr. William Lee is the VP of R&D and Regulatory Affairs at AST Products, Inc. and the President of ICARES Medicus, Inc. (Taiwan)

"The unsung role of the lubricious surface treatment on a disposable medical device used in cataract and refractive surgeries."

2:15 p.m. CT - 3:30 p.m. CT

Ophthalmic / Ocular

Co-chairs: Joe Chinn, J Chinn LLC and Yongxing Qiu, Alcon

James Wu, Alcon

"A new silicone hydrogel contact lens with surface modification of MPC polymer."

Karl VanDerMeid, Bausch & Lomb

"Analysis of the osmoprotective effects of a contact lens packaging solution containing erythritol and glycerol on human corneal epithelial cells."

Talena Rambaran, McMaster University

"Mucoadhesive Micelles: An Improved Treatment for Dry Eye Disease."

Friday, October 1

1:00 p.m. – 2:30 p.m. CT

Drug Delivery

Co-chairs: Joe Chinn, J Chinn LLC and Courtney Kay, Elkem

Kyle Kleinbeck, International Partnership for Microbicides

"Custom silicone elastomers for improved mechanical performance and reduced hormone binding in a dapivirine-levonorgestrel vaginal ring"

Rao Bezwada and Neeti

Srivastava, Bezwada Biomedical, LLC

"An overview of various classes of monomers and polymers and technology platforms beyond PLGA."

John Jantz, Pure Tech Institute – Entraga

"New frontiers in delivery: Asking the right questions."