Collaborate to Cure

Friday, March 29, 2019
SAMIS Education Center
1200 Children’s Avenue
Oklahoma City, OK

The Symposium’s Purpose

This symposium brings together the biomedical science and engineering community from the Norman campus and the clinicians and scientists from the Health Sciences Center to facilitate collaborative opportunities.

Clinicians, entrepreneurs, basic & applied scientists, engineers, educators and key players from the bioscience industry are invited to build new partnerships and spread awareness of new and ongoing collaborative opportunities. Please register & attend this event with the intention of finding a collaborator to help you make your ideas come to life!

At the heart of the conference organization is the Stephenson School of Biomedical Engineering and the OU Institute for Biomedical Engineering, Science, and Technology (IBEST). Presentations will showcase exciting new capabilities and developments at OU, OUHSC, OU-Tulsa, and the bioscience industry in the areas of biomedical engineering and health care.

Conference Program Committee

• Kari E. Boyce, Associate Dean
  College of Allied Health
  Conference Chair

• Sharukh Khajotia, Associate Dean for Research, College of Dentistry

• Michael Detamore, Founding Director
  Stephenson School of Biomedical Engineering

• Darrin Akins, Associate Dean for Research
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• Lei Ding, Director, Institute for Biomedical Engineering, Science and Technology

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• Marc Moore, Assistant Professor of Practice
  Stephenson School of Biomedical Engineering

Visit Symposium Website @ http://bit.ly/ou_symposium2019
& FREE Registration @ http://bit.ly/ou_symposium
7:30 a.m. **Registration/Check-In**
8:00 a.m. **Introduction and Welcome**
- James Tomasek, PhD, VPR, OUHSC
- Randall “Randy” Hewes, PhD, Interim VPR and Dean, Graduate College, OU-Norman
- Kent Teague, PhD, Assistant VPR, OU-Tulsa, Team Building with LIBR and OSU-CHS

8:30 a.m. **Keynote: Immunoengineering**
David Mooney, PhD
Robert P. Pinkas, Family Professor of Bioengineering, Harvard School of Engineering & Applied Sciences, Core Faculty Member, Wyss Institute for Biologically Inspired Engineering

9:30 a.m. **Networking Break**

10:00 a.m. **Making Connections, Building & Sustaining Collaboration**, Includes IBEST Grant Funded Project Faculty
- Closed-loop Neuromodulation
  Han Yuan, PhD, Assistant Professor, SBME, OU
- Towards Precision Medicine in Improved Diagnostics & Personalized Treatment of Patients with Cerebral Aneurysm - Collaborative Research Between OU Norman and HSC Campuses
  Chung-Hao Lee, PhD, Assistant Professor, SAME, OU
- Screening of Osteogenic Peptides
  Chuanbin Mao, PhD, George Lynn Cross Research Professor, Edith Kinney Gaylord Presidential Professorship, Dept Chemistry & Biochemistry, OU
- Maximizing Movement Learning: A Technological, Behavioral, & Clinical Collaborative Approach
  Thubi Kolobe, PhD, Professor, Edith Kinney Gaylord Presidential Professorship, Dept Rehabilitation Sciences, College of Allied Health, OUHSC
- 3D Optical Imaging of Nanoparticles in Intact Tissues
  Stefan Wilhelm, PhD, Assistant Professor, SBME, OU

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1:30 p.m. **Collaboration in Dentistry and Oral / Maxillofacial Surgery**
- Development of the Digital Dentistry Lab and Teaching of Digital Dentistry in the Pre-Doctoral Curriculum
  Yacoub Al Sakka, DDS, Assistant Professor, Restorative Dentistry, College of Dentistry, OUHSC
- 3-D Printing in Oral & Maxillofacial Surgery
  Steven Sullivan, DDS, FACS, FACC, Clinical Professor Chair, Surgical Services, Oral & Maxillofacial Surgery, College of Dentistry, OUHSC
- 3-D Printing in Periodontics
  Tapan Koticha, BDS, MDS, Assistant Professor, Graduate Periodontics, College of Dentistry, OUHSC
- Opportunities for Collaborative 3-D Printing Research
  Sharukh Khajotia, BDS, MS, PhD, Professor, Restorative Sciences, College of Dentistry, OUHSC, Associate Dean for Research, College of Dentistry

2:30 p.m. **Networking Break**

3:00 p.m. **Building Tools & Sharing Technologies Across Interprofessional Teams**
- Center for Human Performance Measurement-Progress Report
  Carole Dionne, PT, DPT, PhD, MS, OCS, Cert MDT, Associate Professor, Dept Rehabilitation Sciences, College of Allied Health, OUHSC
- Wearable Focal Vibration on Mobility and Functional Rehabilitation
  Hongwu Wang, PhD, Assistant Professor, Dept Rehabilitation Sciences, College of Allied Health, OUHSC, Adjunct Professor, SBME, OU
- New Vision for Stopping the Obesity & Diabetes Epidemic: Intervention in the first 1000 days
  Jacob E. “Jed” Friedman, PhD, Director, Harold Hamm Diabetes Center (HHDC), Associate Vice Provost for Diabetes Programs at OUHSC

4:00 p.m. **What About Data?**
- Using the Insight mHealth Platform & Integrated Biosensors to Improve Health Outcomes
  Michael Businelle, PhD, Associate Professor, Dept of Family & Preventive Medicine, Director, mHealth Shared Resource, OK Tobacco Research Center, SCC, OUHSC
- Big Data and Intelligent Data Analytics
  Charles Nicholson, PhD, Assistant Professor, Director, Analytics Lab, SISE, OU
- Navigating Institutional IT Data Policies
  David Horton, BA, Interim CIO, University of Oklahoma Campuses

5:00 p.m. **Poster Awards and Reception**

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