### MRS/Kavli Future of Materials: Flexible and Stretchable Bioelectronics Presented by MRS Bulletin 8 am-5:45 pm, April 22, 2017 Phoenix Convention Center North, 100 Level, Room 121 AB

### **PROGRAM**

#### AM Session (8 am-12:15 pm)

8:00	Breakfast and registration
8:20	Gopal Rao, Editor, MRS Bulletin
	"Welcome Remarks"
	Miyoung Chun, Kavli Foundation
	"Introduction and Opening Statement"
8:30	Introductions of attendees
8:45-9:05	Darren Lipomi, University of California San Diego
	"Opening Remarks & Organic Haptics"
9:05-9:15	Discussion

### **AM Talks: Biological Applications**

9:15-9:35	Benjamin Tee, National University of Singapore/A*STAR "A Skynet Future"
9:35-9:45	Discussion
9:45-10:05	Roozbeh Ghaffari, MC10 Inc.
	"Fully Integrated Epidermal Systems for Wireless Monitoring of Motion,
	Electrophysiology and Hemodynamics"
10:05-10:15	Discussion
10:15-10:30	Break
10:30-10:50	Joseph Wang, University of California, San Diego
10.30-10.30	"Stretchable and Self-Healed Printed Wearable Electrochemical Devices"
10:50-11:00	Discussion
11:00-11:20	Pooi See Lee, Nanyang Technological University
	"Stimuli Responsive Stretchable Devices for Bioelectronics"
11:20-11:30	Discussion
11:30-11:50	Sheng Xu, University of California, San Diego
	"A Hybridized Approach to Soft Electronics"
11:50-12:00	Discussion
12:00-12:45	
	(Joseph Wang, Pooi See Lee, Roozbeh Ghaffari, Benjamin Tee)
	Exploration of trends & high-impact collaborations

# Working Lunch (12:30-1:30 pm)

12:50-1:10	Talk by Siegfried Bauer, Johannes Kepler University Linz
	"Soft devices: perspectives"
1:10-1:20	Discussion
1:20-1:30	Lunch wrap-up & break

## PM Session (1:30-5:45 pm)

## PM Talks: Materials and Mechanics

1:30-1:50	Rebecca Kramer, Purdue University
	"Soft Electronics for Soft Robotics"
1:50-2:00	Discussion
2:00-2:20	Martin Kaltenbrunner, Johannes Kepler University Linz "Soft Electronics"
2:20-2:30	Discussion
2:30-2:50	Ying Diao, University of Illinois at Urbana-Champaign
	"Increasing the Structural and Functional Complexity of Printed
	Electronics"
2:50-3:00	Discussion
3:00-3:15	Break
3:15-3:35	Robert Shepherd, Cornell University
	"Engineering with hydrogels"
3:35-3:45	Discussion
3:45-4:05	Nanshu Lu, University of Texas at Austin
	"E-Tattoos for Mobile Sensing and Therapy"
4:05-4:15	Discussion
4:15-4:35	Jeong-Yun Sun, Seoul National University
	"Highly Stretchable, Transparent Ionic Touch Panel"
4:35-4:45	Discussion
4:45-5:30	Panel Discussion – (Martin Kaltenbrunner, Nanshu Lu, Siegfried Bauer)
	Exploration of trends & high-impact collaborations
5:30-5:45	Wrap-up of workshop and concluding remarks (Darren Lipomi)