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International Medical Devices Conference & Expo (IMD 2018)

March 14-15, 2018

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www.imdsociety.org, (734) 997 – 9249

Registration: 8am

Holiday Inn San Francisco Golden Gateway

1500 Van Ness Avenue

San Francisco, California 94109

Wednesday, March 14, 2018

AM Session	Plenary & Keynote: Device Design Roadmap Session Chair: Shuvo Roy, PhD Professor <i>University of California, San Francisco</i>	PM Session	Additive Manufacturing in Medical Devices Session Chair: David Havrilla Manager <i>TRUMPF</i>
Time	Pacific Suites	Time	Pacific Suites
8:45 am	Welcome & Introduction Shuvo Roy, PhD Professor <i>University of California, San Francisco</i>	2:30 pm	Jerry Lorengo Group Director <i>USPTO – Medical Instruments, Diagnostics Equipment, and Treatment Devices.....138</i>
9:00 am	Adventures in Surgical Device Innovation.....1 Michael Harrison, MD Professor <i>University of California, San Francisco</i>	3:15 pm	AM Processes in Medical152 Shannon VanDeren <i>Layered Manufacturing and Consulting</i>
9:30 am	Medical Needs Fingering Toolkit.....62 Gwen Fischer, MD Associate Professor <i>University of Minnesota</i>	3:45 pm	Overview - LMF & LMD In Medical Franzi Maschowski <i>TRUMPF</i>
10:00 am	Device Innovations for Never Events80 Hanmin Lee, MD Professor <i>University of California, San Francisco</i>	4:15 pm	Break
10:30 am	Bionics for a Better Quality of LifeN/A Homayoon Kazerooni, PhD Professor <i>University of California, Berkeley</i>	4:45 pm	Powder Advancements & Powders In Medical161 Nathan Kistler <i>LPW Technology</i>
11:00 am	Break	5:15 pm	Latest Research in Bio-Printing.....178 Lester Smith, PhD <i>Indiana University-Purdue University Indianapolis/Indiana University School of Medicine</i>
11:30 am	Lamprey: An Atraumatic Grasper for Laparoscopic Surgery.....97 Insoo Suh, MD, Chethan Eleswarpu, Romain Roux, Isabelle Chumfong, Sachin Rangarajan <i>University of California, San Francisco</i>	5:45 pm	Reception Sponsored by: 
12:00 pm	Bioimpedance Sensing for Rejecting Detection and Long-Term Monitoring After Cardiac Transplantation112 Georg Wieselthaler, MD Professor <i>University of California, San Francisco</i>	8:00 pm	Adjournment
12:30 pm	Sentinel Bandage: Monitoring Skin with Impedance Mapping129 David Young, MD Professor <i>University of California, San Francisco</i>		
1:00 pm	Q&A – Panel Discussion		
1:30 pm	Session Adjourned & Lunch		

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Thursday, March 15, 2018

AM Session	<p>Advances in Devices Session Co-Chairs: Chris Scorzelli, MD Regional Scientific Specialist <i>Origin, LLC</i> Gwen Fischer, MD Associate Professor <i>University of Minnesota</i></p>	PM Session	<p>Processes for Device Manufacturing Session Chair: David Krattley Manager <i>IPG Photonics</i></p>
Time	Pacific Suites	Time	Pacific Suites
9:00 am	<p>Applications of Bioskills Laboratory Practices in Development of Complex Medical DevicesN/A Melissa Bruns, Mark Smith, PhD <i>American Preclinical Services</i></p>	1:00 pm	<p>Factory 4.0 – Holistic Design Analysis and Verification.....N/A John Tyson II <i>Trilion Quality Systems</i></p>
9:30 am	<p>Tabla: A Low-Cost Pneumonia Detection Device Adam Rao, Jorge Ruiz, Chen Bao, Shuvo Roy, PhD <i>University of California, San Francisco192</i></p>		
10:00 am	<p>Developing New Technology and Treatments in Under Resourced Countries200 Terry Treadwell, MD, FACS <i>Institute for Advanced Wound Care</i></p>	1:30 pm	<p>Using CFD to Predict Platelet Activation and Thrombus Foundation in a Bioartificial Kidney240 Amanda Buck, Joseph Groszek, William Fissell <i>Vanderbilt University</i> Nathan Wright, Jarrett Moyer, Sukhveer Singh, Shuvo Roy <i>University of California, San Francisco</i> Steven Goebel <i>SimuTech Group</i> Danny Blustein, PhD <i>Stony Brook University</i></p>
10:30 am	<p>Break</p>	2:00 pm	<p>Laser Welding of Medical Device PolymersN/A Luis Gomez, PhD <i>IPG Photonics</i></p>
11:00 am	<p>Plasma Technology and Its Application in MedicineN/A Mike Paris <i>Origin</i></p>	2:30 pm	<p>Break</p>
11:30 am	<p>Impact of Sterilization on Ultrathin Film Polymer Coatings for Silicon-Based Implants227 Zohora Iqbal, Willieford Moses, Steven Kim, Eun Jung Kim, Shuvo Roy, PhD <i>University of California, San Francisco</i> William Fissell, PhD <i>Vanderbilt University</i></p>	3:00 pm	<p>Low Power Fiber Laser Welding Techniques for the Medical Device IndustryN/A David Krattley <i>IPG Photonics</i></p>
		3:30 pm	<p>ECMO Using Parallel Plate Silicon Micropore Membranes Emily Abada, PhD, Ajay Dharia, Benjamin Feinberg, Torin Yeager, Willieford Moses, Charles Blaha, Jaehyun Park, Nathan Wright, Benjamin Padilla, Shuvo Roy, PhD <i>University of California, San Francisco253</i></p>
		4:00 pm	<p>Nanosecond and Picosecond Laser Marking of Medical Devices261 Brian Baird, PhD <i>IPG Photonics</i></p>
12:00 pm	<p>Session Adjourned & Lunch</p>	4:30 pm	<p>Adjournment</p>



The Program Committee and Board of Directors reserves the right to amend this program without any notice.