City of Hope/Caltech MedE Workshop

Sept. 5, 2014, Annenberg 105

Morning Session

Breakfast

8:30-9:00	**Continental Breakfast**	**Room 106, Seating in 107 and outside**

Introduction

9:00-9:20	Opening Remarks	Peggy Cherng, David Lee, Ares Rosakis
9:20-9:40	Global Problems in Surgical Technology	Yuman Fong

Biomedical Technology

9:40-10:00	Focal tissue destruction: small and precise versus large and fast killing of cancer	Clayton Lau	John Park
10:00-10:20	Transdermal Delivery of TKI's & Chemotherapy via Nanotechnology	Houman Fekrazad	
10:20-10:40	Microfluidics for global health	Rustem Ismagilov	
10:40-11:00	Fluid mechanics of ultrasound and shockwave therapy	Tim Colonius	
11:00-11:20	Automated and Robotic production of viral vectors: the quest for increasing yield	Saswati Chatterjee	

Biomedical Materials

11:20-11:40	Better materials for indwelling catheters (preventing clogs and stones)	Kevin Chan	Byrne Lee, John Park
11:40-12:00	Lightweight biocompatible materials in biomedical applications	Julia Greer	

JPL

12:00-12:20	Man-machine interface and medical robotics projects at JPL	Jeng Yen, Hari Nayar	

12:20-1:00	**LUNCH**	**Seating: Outside and Room 107**

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Afternoon Session

Biomedical Devices

1:00-1:20	Microelectronics for wearable and implantable medical devices	Azita Emami	
1:20-1:40	Complexities of Liver & Pancreatic Surgeries- Building Sensors	Gagandeep Singh	
1:40-2:00	MEMS Devices	Yu Chong Tai	
2:00-2:20	Novel delivery technology for brain tumor therapy	Behnam Badie	
2:20-2:40	Optical sensing and spectroscopy for medical applications	Hyuck Choo	
2:40-3:00	Non-invasive Technology for Cardiovascular Monitoring	Mory Gharib	

Biomedical Imaging

3:00-3:20	Laparoscopic visualization of cancer: non white light options	Ernest Han	Joseph Kim, Jae Kim
3:20-3:40	Disruption of lighting and camera technology for laparoscopy	Yuman Fong	Changhuei Yang
3:40-4:00	Ongoing collaboration: Circumferential visual surveillance and documentation	Lily Lai	Changhuei Yang
4:00-4:20	Optical imaging solutions for your diagnostic problems	Changhuei Yang	
4:20-4:40	Developing ROS Detection to MRI Improve Risk Stratification in Prostate Cancer	Steven Smith	
4:40-5:00	Micron-thick high numerical aperture lenses for miniaturized microscopy	Andrei Faraon	