

# MEI-Center Summer School 2015

*Experience of Med Tech/Device Development  
in Osaka Univ.*

**3-7 Aug. 2015**

Osaka University Suita Campus

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GLOBAL CENTER  
FOR MEDICAL ENGINEERING  
AND INFORMATICS  
OSAKA UNIVERSITY

# Schedule

Date/Time	Title/Speaker	Location
<b>Aug. 3</b>		
13:30-13:35	Opening Remarks <b>Prof. Tetsuya Yagi (Osaka Univ.)</b>	BioSystems Building 8F E801
13:35-14:15	Introduction of MedTech Innovation –how to develop a medical /healthcare device with competitive advantage- <b>Dr. Masakazu Yagi (Osaka Univ.)</b>	
14:15-15:15	Translating a clinical need to a medical product <b>Dr. Benjamin Tee (Singapore-Stanford Biodesign, A*STAR)</b>	
15:30-16:50	Foundations of Sensory Prosthetics <b>Prof. Tetsuya Yagi (Osaka Univ.)</b>	
<b>Aug. 4</b>		
09:20-10:40	Data compression algorithms and their low power implementation for biomedical information <b>Prof. Masaharu Imai (Osaka Univ.)</b>	BioSystems Building 8F E801
10:50-12:10	Cardiac catheterization Medical devices around cardiology and development history of cardiac catheterization <b>Dr. Keita Okayama (Osaka Univ.)</b>	
13:00-15:00	Hospital Visit <b>Dr. Keita Okayama (Osaka Univ.)</b>	Osaka University Hospital
16:00-16:40	Workshop: Topics on Ethical Problems in Medical Technology Development Development and application of ECoG-BMI for clinical use <b>Dr. Takufumi Yanagisawa (Osaka Univ.)</b>	BioSystems Building 8F E801
16:40-17:30	Workshop: Discussion Coordinators: <b>Dr. Takufumi Yanagisawa and Prof. Shigeo Wada</b>	
<b>Aug. 5</b>		
09:20-10:40	Engineers' contribution to cell manufacturing for regenerative medicine <b>Prof. Masahiro Kinooka (Osaka Univ.)</b>	BioSystems Building 8F E801
10:50-12:10	Development of Honeycomb Microporous Covered Stents for the Treatment of Large Wide-necked Cerebral Aneurysms: From Design Concept to Investigator-initiated Clinical Trial <b>Dr. Yasuhide Nakayama (National Cerebral and Cardiovascular Center)</b>	
<b>International Symposium</b>		
13:30-13:35	Opening Address <b>Prof. Yasushi Sakata (Osaka Univ.)</b>	Icho Kaikan 3F Conference Room (Dai-kaigisitsu)
13:35-14:35	Development of medical devices based on "unmet clinical needs":Are we on the right track? <b>Prof. Kiyokazu Nakajima (Osaka Univ.)</b>	
14:35-15:35	Introduction to Commercialization Strategy of Medical Device and Educational Program for Medical Device Industry in KOREA <b>Prof. Sung Min Kim (Dongguk Univ.)</b>	
15:50-16:50	Anchor University for Medical Devices Translation at NCKU <b>Prof. Rong-Fu Kuo (National Cheng Kung University)</b>	
16:50-17:20	Building a medtech company in Singapore <b>Dr. Benjamin Tee (Singapore-Stanford Biodesign, A*STAR)</b>	
17:20-17:25	Closing Remarks <b>Prof. Masao Tanaka (Osaka Univ.)</b>	
17:30-19:30	Social Gathering	
<b>Aug. 6</b>		
09:00-17:00	Project-Based Learning I	Each Lab
<b>Aug. 7</b>		
09:00-12:00	Project-Based Learning II	

Theme (Keywords)  
Bio, Medical, Dry, Wet, Robotics, Simulation,  
Electronics, Electrophysiology