Medical Device Innovation Center - Creation of new industry from disaster area

Date: March 15, 2015 (Sunday), 13:15-15:45  
Place: Tohoku University Kawauchi Campus C201  
Organizer: Graduate School of Biomedical Engineering, Tohoku University  
Co-organized by: Miyagi Prefecture, Knowledge-based Medical Device Cluster / Miyagi Area, Miyagi Industrial Consortium on Advanced Mechanics and Electronics  
Moderators: Yoshifumi SAIJO, Tsunemoto KURIYAGAWA, Graduate School of Biomedical Engineering, Tohoku University

Program

13:15-13:20  Opening Remarks  
Shin-ichi IZUMI, Dean, Graduate School of Biomedical Engineering, Tohoku University

13:20-14:20  Introduction of Technological Seeds at Medical Device Innovation Center  
Development of PJD handpiece for innovative dental treatment  
Tsunemoto KURIYAGAWA, Professor, Grad School Biomed Eng Tohoku Univ  
Development of minimally invasive medical devices and healthcare devices using microsystems  
Yoichi HAGA, Professor, Grad School Biomed Eng Tohoku Univ  
Optical diagnostic systems based on optical fibers  
Yuji MATSUURA, Professor, Grad School Biomed Eng Tohoku Univ

14:20-15:10  Problem Solving Development of Medical Device Based on Clinical Needs  
Education of global human resource on medical device innovation based on clinical needs  
Yoshifumi SAIJO, Professor, Grad School Biomed Eng Tohoku Univ  
Development of quantitative blood flow evaluation method for single ventricle disease newborns  
Ryo NAGAOKA, PhD Student, Development of ultra high resolution ultrasonic probe  
Assist device for laparoscopic surgery  
Misaki KAWAHARA, MS student, Grad School Biomed Eng Tohoku Univ  
Proposal of new splint for children made by 3D printer  
Yamato ITO, MS student, Grad School Biomed Eng Tohoku Univ  
Disposable cap for otolaryngology units spray  
Tsubasa MASTUMOTO, Kosuke FUKAZU, Seitaro MURA, MS students, Grad School Biomed Eng Tohoku Univ

15:10-15:45  Recent Status of Medical Device Industries in Disaster Area  
Development of ultra high resolution ultrasonic probe  
Mabito IGUCHI, Nihon Ceratech Co. Ltd.  
Application of MEMS technologies to medical and health monitoring fields  
Toshiharu KEIKOIN, MEMS Core Co. Ltd.  
Development of ultrasonic embolus detector  
Seiichi ZAMA, Finggal Link Co. Ltd.