4 December 2014 (Thursday) – Day1			
Time	**Sessions**	**Venue**	**Modulator**
09:00 – 09:30	Registration		
09:30 – 09:45	**Welcome Remark:** By Ir Derek Louie, BME2014 Conference Chair	1/F Function Room, HKPC	
09:45 – 10:30	**Plenary Presentation: Key Factors from Vision to Realty** Dr Don Lin, Chief Scientist, Mindray Research Institute	1/F Function Room, HKPC	Ir Derek Louie
10:30 – 11:15	**Plenary Presentation: Single Cell Analysis and Assembly by Micro and Nano Robotic Technology** Prof Toshio Fukada, Professor, Beijing Institute of Technology, Nagoya University, Meijo University	1/F Function Room, HKPC	Ir Dr Peter Chiu
11:15 – 11:30	Tea break		
11:30 – 12:15	**Plenary Presentation: Advances in Translational Neural Engineering** Prof Metin Akay, Founding Chair of Biomedical Engineering Department, University of Houston, USA	1/F Function Room, HKPC	Ir Dr Peter Chiu
12:15 – 13:15	Lunch		
13:15 – 14:45	**Best Student Papers Presentations**	1/F Function Room, HKPC	Ir Prof Sun Dong
14:45 – 16:15	**Theme A: Medical Robotics and Technology** **Keynote presentation: Computational Ergonomics** Prof Richard So, Professor, Division of Biomedical Engineering, The Hong Kong University of Science and Technology **Keynote presentation: Assistive Surgical Robots** Prof Yun-hui Liu, Professor, Department of Mechanical and Automation Engineering, The Chinese University of Hong Kong **Keynote presentation: Rehabilitation Robotic System** Ir Prof Raymond Kai-yu Tong, Professor, Department of Electronic Engineering, The Chinese University of Hong Kong	1/F Function Room, HKPC	Ir Prof Sun Dong
16:15 – 16:30	Tea Break		
16:30 – 18:00	**Theme B: Biosensor and Biomedical Instrumentation** **Keynote presentation: Bringing Optical Bioimaging to a New Time Scale** Dr Kevin Kin-man Tsia, Assistant Professor, Department of Electrical and Electronic Engineering, The University of Hong Kong **Keynote presentation: Nanparticle Based Fluorescence Resonance Energy Transfer (Fret) Biosensor for Ultrasensitive Detection** Dr Yang Mo, Associate Professor, Interdisciplinary Division of Biomedical Engineering, The Hong Kong Polytechnic University **Keynote presentation: Active Lab-on-a-disc for Bioassay Applications** Prof Ho Pui, Aaron Ho, Professor, Department of Electronic Engineering, The Chinese University of Hong Kong	1/F Function Room, HKPC	Ir Prof Sun Dong
18:00 – 18:15	**Closing Remark: By** Ir Prof Sun Dong, BME2014 Technical Committee Chair	1/F Function Room, HKPC	

5 December 2014 (Friday) – Day2			
Time	**Sessions**	**Venue**	**Modulator**
09:00 – 09:30	Registration		
09:30 – 10:00	**Opening Ceremony**	4/F Conference Hall, HKPC	Mr Henry Fong
10:00 – 10:45	**Plenary Presentation: Benchmarking and Clinical Engineering** Mr Jonathan A. Gaev, MSE, CCE, PMP, HEM, Business Line Manager, BiomedicalBenchmark™, ECRI Institute, USA	4/F Conference Hall, HKPC	Ir Derek Louie
10:45 – 11:30	**Plenary Presentation: The Future for Home Monitoring – Sensors, Patients and Health & Wellbeing** Prof Patricia Connolly, The Department of Biomedical Engineering University of Strathclyde, UK	4/F Conference Hall, HKPC	Ir Derek Louie
11:30 – 11:45	Tea break		
11:45 – 12:30	**Plenary Presentation: Optical Imaging for Non-contact Measurements of Vital Functions** Prof Dr Rudolf Verdaasdonk, Director, Department of Physics and Medical Technology, VU University Medical Center, Netherlands	4/F Conference Hall, HKPC	Ir Prof Sun Dong
12:30– 12:45	**Prize Presentation for Best Student Papers Competition**	4/F Conference Hall, HKPC	Ir Prof Sun Dong
12: 45 – 13:45	Lunch		
13:45 – 15:30	**Theme C: Healthcare and Wellness Technology** **Keynote presentation: Bioinformatics Characterization of Molecular Imaging Probes** Dr Lawrence W.C. Chan, Assistant Professor, Department of Health Technology and Informatics, The Hong Kong Polytechnic University **Keynote presentation: High-throughput Neurotechnology for Engineering the Nervous System** Dr Peng Shi, Assistant Professor, Department of Mechanical and Biomedical Engineering, City University of Hong Kong **Keynote presentation: Bio-inspired Design of Tough and Light Nanocomposite** Prof Xinrui Niu, Assistant Professor, Department of Mechanical and Biomedical Engineering, City University of Hong Kong **Keynote presentation: Ergonomics of Backpack Carriage** Prof Daniel Chow, Acting Head & Chair Professor of Health & Sports Science, Department of Health & Physical Education, The Hong Kong Institute of Education	4/F Conference Hall, HKPC	Dr Peng Shi
15:30 – 15:45	Tea Break		
15:45 – 17:45	**Theme D: Medical Device and Regulatory Affairs** **Keynote presentation: Regulatory Affairs: From Design, Manufacturing to Distribution** Ir Bryan So, Principal Consultant, Hong Kong Productivity Council **Keynote presentation: Update on Medical Device Certification and Registration Requirement for Emerging Markets** Mr. Jason Hoo, Laboratory Manager, Medical Electronic Device, South China, SGS-CSTC **Unique Device Identification** Mr. KC Leung, Assistant Training Manager, GS1 Hong Kong Ltd.	4/F Conference Hall, HKPC	Dr Peng Shi
17:45 – 18:00	**Closing Remark:** By Ir Dr Kwok Kwan Chan, BME2014 Conference Co-Chair	4/F Conference Hall, HKPC	

6 December 2014 (Saturday) – Day3			
Time	**Sessions**	**Venue**	**Modulator**
08:45 -09:15	Registration		
09:15 – 10:45	**Theme E: Medical Imaging and Diagnostics** **Keynote presentation: AIE-Based Biosensors** Prof Ben Zhong Tang, Chair Professor of Biomedical Engineering, Department of Chemistry and Division of Biomedical Engineering, The Hong Kong University of Science and Technology **Keynote presentation: Terahertz in Vivo Imaging: Motivation and Challenges** Prof Emma Macpherson, Assistant Professor, Department of Electronic Engineering, The Chinese University of Hong Kong **Keynote presentation: Radiation-free Assessment of Scoliosis using 3D Ultrasound Imaging (ScolioscanTM): From Research to Product** Ir Prof YP Zheng, Head, Interdisciplinary Division of Biomedical Engineering. Faculty of Engineering. The Hong Kong Polytechnic University	1/F Function Room, HKPC	Ir David Wong
10:45 – 11:00	Tea Break		
11:00 – 12:30	**Theme I: Effectiveness of Medical Technology Applications** **Keynote presentation: Advances in Development of Robotic Endoscopic Surgery** Prof Philip WY Chiu, Director, CUHK Jockey Club Minimally Invasive Surgical Skills Center **Keynote presentation: Driving Medical Device Innovation in APAC – The perspective of Cook Medical, a Privately Owned Multinational Company** Dr Anthony Wilkinson, BPharm, MBBS, LLB, Asia Pacific Medical Director, Cook Medical **Keynote presentation: The Power of 3D Printing and Technology in Biomedical Engineering** Dr. Lars Neumann, Global Business Development Manager, Materialise **Keynote presentation: Engineering Simple Materials to Deliver Outstanding Device Performance** Mr Stuart Moran, CEO and Managing Director, Retraction Limited	1/F Function Room, HKPC	Ir David Wong
12:30 – 13:30	Lunch		
Concurrent session			
13:30 – 15:00	**Theme G: Bioinformatics** **Keynote presentation: Bottlenecks and Opportunities of Next Generation DNA Sequencing and Bioinformatics** Prof Stephen Kwok-wing Tsui, Director, Hong Kong Bioinformatics Centre, The Chinese University of Hong Kong **Keynote presentation: Non-invasive prenatal testing: from dream to reality** Prof Dennis Lo, Director of Li Ka Shing Institute of Health Sciences, Faculty of Medicine, The Chinese University of Hong Kong **Keynote presentation: Computational Methods for the Prediction of Biomolecular Interactions and Lung Cancer Drug Resistance** Prof Hong Yan, Chair Professor of Computer Engineering, Department of Electronic Engineering, City University of Hong Kong **Venue: 1/F Function Room, HKPC Modulator: Prof Carmen POON**	**Software Training Course: Mimics-From Medical Imaging to Reality** **Session 1:** **Introduction** Dr. Lars Neumann, Global Business Development Manager **Workshop 1:** **Create accurate 3D models through segmentation** Ir Victor Guo, Application Engineer, Materialise Company **Venue:** **Classroom 112, HKPC**	
15:00 – 15:15	Tea Break		
15:15 – 16:15	**Theme H: Cell and Tissue Engineering** **Keynote presentation: Biomaterial-assisted Stem Cell-based Therapies for Intervertebral Disc Degeneration** Dr Barbara P. Chan, Associate Professor, Department of Mechanical Engineering, Faculty of Engineering. The University of Hong Kong **Keynote presentation: Functional Biomaterials for Cartilage Repair** Prof Liming Bian, Assistant Professor, Department of Mechanical and Automation Engineering, The Chinese University of Hong Kong **Venue: 1/F Function Room, HKPC Modulator: Ir Prof Ming Zhang**	**Software Training Course: Mimics-From Medical Imaging to Reality** **Workshop 2: Optimize the calculated 3D model for FEA** Ir Victor Guo, Application Engineer, Materialise Company **Venue:** **Classroom 112, HKPC**	
16:15– 17:45	**Theme F: Biomaterials and Biomechanics** **Keynote presentation: Stimulation of Bone Regeneration by Local Delivery of Magnesium Ions** Dr Kelvin Wai-kwok Yeung, Assistant Professor, Department of Orthopaedics and Traumatology, The University of Hong Kong **Keynote presentation: Probing the "nano-bio" Interactions between DNA-based Nanostructures and the Cell** Prof Chung Hang, Jonathan Choi, Assistant Professor, Department of Electronic Engineering, The Chinese University of Hong Kong **Keynote presentation: Computational Models for Human Body Support Design** Ir Prof Ming Zhang, Professor, Interdisciplinary Division of Biomedical Engineering, Faculty of Engineering, The Hong Kong Polytechnic University **Venue: 1/F Function Room, HKPC Modulator: Prof Louis Cheung**	**Software Training Course: Mimics-From Medical Imaging to Reality** **Workshop 3: Perform accurate measurements in 2D and 3D** **Workshop 4: Design a patient-specific implant** Ir Victor Guo, Application Engineer, Materialise Company **Venue:** **Classroom 112, HKPC**	
17:45 – 18:00	**Closing Remark:** By Ir Derek Louie, BME2014 Conference Chair	1/F Function Room, HKPC	

#All section titles, programme content and rundown are subject to amendments without prior notice
*Seats are available at a first-come-first-serve basis for registration during the conference between 4th-6th December 2014