
The Hong Kong Institution of Engineers Biomedical Division Chairman's Annual Report (Session 2012/2013)

1. Introduction

With the enthusiastic dedication and leadership and of our executive board members and keen participation of our members, the Biomedical Division (BMD) has been gone through a fruitful year of Session 2012/2013.

The global aging trend is noticeable locally and worldwide, coupling with the ever-increasing standard of living and healthcare, the past year had seen persistent growth and development of biomedical engineering. In view of such trend, the BMD has organised and co-organised numerous activities in collaboration with the industry, the academia and the government in:



- 1. supporting local biomedical engineering research and experimentation;
- 2. supporting product design, development and commercialisation;
- 3. running technical training, workshops and visits;
- 4. attracting and inspire more young students to pursue the profession.

The BMD has contributed best effort to serve our society, hospitals, medical centres, medical device industry, academia and all other related stakeholders.

During this Session, the BMD successfully completed the government funding under the Professional Services Development Assistance Scheme (PSDAS) of the Commerce and Economic Development Bureau (CEDB), which was the fifth successful PSDAS approved project of the Division. With the project titled "To enhance the professional competence of biomedical engineers in medical device safety through the mastering of update knowledge on technology innovation, regulatory affairs and health technology assessment", new initiatives in research and technology, regulatory issues and quality management systems were introduced in order to enhance the competence of local biomedical engineers in commercialising research and development deliverables as well as design and manufacturing of high value-added medical and healthcare devices. Project deliverables were all successfully carried out, including: 3-day

BME2012 Biomedical Engineering International Conference at Headquarters of Hospital Authority and Hong Kong Productivity Council from 5 December 2012 to 7 December 2012 with conference theme "Improving Healthcare through Innovative Technology and Regulatory Affairs" and a series of conference sub-themes, paper presentations and Young Engineers' Paper Competition; and 1-day Post-conference Technical Visit to The University of Hong Kong – Shenzhen Hospital and Shenzhen Testing Center of Medical Devices (STCMD) on 8 December 2012.

A series of CPD seminars were organised in this session, including: Vision Care Technology Platform for Amblyopia Treatment; Introduction on Essential Elements of ISO13485 Medical Device Quality Management System; Overview on Effective Engineering Techniques for the Verification of Optical Quality of Endoscopes; Advanced Automation Technologies for Medical Devices Tracking and Regulatory Compliances; Nanotechnology and Advanced Biomaterials for Medical and Healthcare Applications; and Technical Seminar of Medical Device Manufacturing and Technologies. The BMD also proactively embarked on membership drive to engineering undergraduates via various promotional events, namely: "Course Selection Seminar Series" for new 4-year undergraduates in HKU; Biomedical Engineering Careers Talk for HKIE Membership Promotion in PolyU; and Seminar on HKIE Membership Promotion and Biomedical Engineering Careers Talk in HKU. In addition, technical visits and certificated training courses were conducted, namely: Study Mission on Health and Beauty Care Technology to South Korea; Study Mission on Medical and Healthcare Device to Singapore; and a 3-day Medical Device Adverse Event Investigation and Management which was co-organised with ECRI Institute.

I would like to extend my gratitude to the dedicated support from the HKIE Headquarters and other Divisions, and particularly for the enthusiastic collaboration of all our Committee Members and relevant stakeholders, without their support and professional contribution, the BMD could not have organised these activities during the year. In the upcoming year, the BMD will continue to promote high quality continue professional training to existing biomedical engineers, to attract young talents to pursue the biomedical engineering profession, to provide excellent services to the clinical institutes, and ultimately to safe guard the general public's benefit and interest. I step down with great confidence that the new Chairman and Committee members will lead the Division to the next era, with sustainable growth and a view of benefiting our biomedical engineering profession, industry and community.

Thank you all.

2. <u>Division Activities</u>

<u>Date</u>	Type of Activity	Topic(s)	Speaker(s)
11 May 2012	Seminar	Vision Care Technology Platform for Amblyopia Treatment	Ms. Alice CHOW Manager Bio-Medical Electronics, ASTRI
4 - 5 July 2012	Seminar	Introduction on Essential Elements of ISO13485 Medical Device Quality Management System	Multiple speakers
14 -17 July 2012	Visit	Study Mission on Health and Beauty Care Technology to South Korea	Multiple speakers
10 September 2012	Seminar	CPD Seminar - Overview on Effective Engineering Techniques for the Verification of Optical Quality of Endoscopes	Dr. Dennis C. LEINER Chief Technology Officer Lighthouse Imaging
11 – 14 September 2012	Visit	Study Mission on Medical and Healthcare Device to Singapore	Multiple speakers
19 October 2012	Seminar	Advanced Automation Technologies for Medical Devices Tracking and Regulatory Compliances	Multiple speakers
3 - 11 November 2012	Seminar	Technical Seminars at InnoCarnival	Multiple speakers
5 December 2012	Seminar	"Course Selection Seminar Series" for new 4-year undergraduates - Civil Engineering, Mechanical Engineering, Electrical, Manufacturing and Industrial, and Biomedical Engineering	Multiple speakers
5 - 8 December 2012	Conference	Biomedical Engineering International Conference 2012	Multiple speakers
26 January 2012	Seminar	Nanotechnology and Advanced Biomaterials for Medical and Healthcare Applications	Multiple speakers
2 February 2013	Seminar	Technical Seminar of Medical Device Manufacturing and Technologies	Multiple speakers
23 February 2013	Seminar	Biomedical Engineering Careers Talk for HKIE Membership Promotion	Ir Albert POON Mr. Bryan SO
18 March 2013	Seminar	Seminar on HKIE Membership Promotion and Biomedical Engineering Careers Talk	Ir Albert POON Ir Tommy LAM
26 – 28 March 2013	Training Course	Medical Device Adverse Event Investigation and Management	Dr. Scott LUCAS Program Manager, Engineering Accident & Forensic Investigation, ECRI Institute

3. <u>List of Committee Members for Session 2012/2013</u>

Post	<u>Title</u>	<u>Name</u>
Chairman	Ir Dr	CHAN Kwok Kwan
Immediate Past Chairman cum	Ir	Albert POON Ka Fat
Ex-officio Member		
(Council Member (Division))		
Deputy Chairman	Ir Prof	ZHENG Yong Ping
Hon Secretary	Ir	Raymond POON Kwok Ying
Hon Treasurer	Ir	Moises CHU Yiu Mo
Committee Member	Ir Dr	Kelvin YEUNG Wai Kwok
(Public Relations Committee (PRC)		
Representative)		
Committee Member	Ir	Richard LUN Chi Chung
(Community Service Committee (CSC)		
Representative)		
Committee Member	Ir	Yorkie CHOW Yuk Ki
(Continuing Professional Development		
Committee (CPDC) Representative)		
Committee Member	Ir Dr	Peter CHIU Ping Kuen
Committee Member	Ir	Andy CHUNG Ki Tung
Committee Member	Ir	Raymond FU Kwok Fu
Committee Member	Ir Prof	Aaron HO Ho Pui
Committee Member	Ir	Ricky OR Kam Ming
Committee Member	Ir	SO Leng Chiu
Committee Member	Ir Dr	Eric TAM Wing Cheung
Committee Member	Ir Prof	Peter YU Kwan Ngok
Ex-officio Member	Mr	YUEN Lai Man
(AMC Representative)		
Ex-officio Member	Ms	Venice HUNG Chun Leung
(YMC Representative)		
Ex-officio Member	Ir Prof	Daniel CHOW Hung Kay
(Discipline Representative)		
Co-opted Member	Ir	Yuk Ho TAM
Co-opted Member	Mr	Bryan SO
Co-opted Member	Dr	Michael TO