

Biomedical Division

PSDAS CPD Seminar – Considerations for Medical Device Manufacturing - Optimization of materials, applications and sterilization and 2008 Healthcare Innovative Solutions by Advanced Medical Plastics

**Miss Christine KM HO
Mr Bryan MK SO**

A PSDAS CPD seminar on “Considerations for Medical Device Manufacturing – Optimization of materials, applications and sterilization and 2008 Healthcare Innovative Solutions by Advanced Medical Plastics” was organized by the Biomedical Division on 4 July 08 at Hong Kong Productivity Council. We were glad to have Mr Kent LEUNG from 3M Hong Kong Limited and Mr Simon SHIH from SABIC Innovative Plastics to be the seminar speaker.

To mark the beginning of the seminar, Mr Kent LEUNG introduced the definition and classification of medical devices to the participants. The differences between “sterile” and “disinfected” were highlighted: sterile meant the absence of microorganism in any form including spores, while disinfected only implied the absence of pathogenic microorganisms. Sterilization validation methods were then discussed, including commissioning, physical qualification and microbiological qualification. Finally, Mr LEUNG shared his experience on the international standard ISO11135 – Sterilization of Health Care Products – Ethylene Oxide (EtO) with us.

In the second part of the seminar, Mr Simon SHIH brought us the trends influencing the delivery of care, including aging populations, dispersion of people, safety and compliance on patients, etc, which led to improvement in portability and miniaturization, etc, of medical and healthcare devices. The application requirements of medical polymer were then discussed, including sterilization diversity, biocompatibility, food contact compliance, lipid and chemical resistance, etc. Waste Electrical & Electronic Equipment (WEEE) and Restriction of Hazardous Substances (RoHS) regulations were presented as well. To conclude his presentation, Mr SHIH brought us some case studies on application of advanced medical polymers on drug delivery, fluid delivery and minimally invasive surgery.

The activity was adjourned by an interactive question-and-answer session and souvenirs were presented to the speakers by Ir John MOK, Deputy Chairman of

Biomedical Division and Mr Bryan SO, the Honorary Secretary of the Biomedical Division for their valuable experience sharing and up-to-date information on medical device manufacturing.



Mr Kent LEUNG (Seminar speaker) was delivering a presentation on medical grade plastics to the participants.



Presentation of a souvenir to one of the speakers [from left to right: Mr Simon SHIH (Seminar speaker), Mr Bryan SO (Hon Secretary of BMD), Mr John MOK (Deputy Chairman of BMD)].