

Info as at 4 / 5 / 2018

Seminar on “The Hottest Trends in Medtech and Smart Healthcare” 「趨勢前瞻：醫療科技及智能保健」研討會

Date 日期 : 7 / 5 / 2018 (Monday 星期一)
 Time 時間 : 11:30am – 12:30pm
 Venue 地點 : Seminar Room, Hall 3F, HKCEC
 香港會議展覽中心 3F 展館 研討室
 Language 語言 : English 英語 (恕不設即時傳譯服務)
 (Simultaneous interpretation service will not be provided)
 Admission 入場 : Free of charge, pre-registration required 免費參加, 需預先登記

Lucky Draw will be held
 after the Seminar.
 研討會後將舉行抽獎環節。

Time 時間	Programme 程序表
11:15am – 11:30am	Registration 登記
11:30am – 11:50am	Sensors and Batteries for Flexible Healthcare Products 應用於柔性保健產品的傳感器和電池 Speaker: Dr Ellie Fu, Technical Manager, NAMI 講者: 納米及先進材料研發院 技術經理 傅麗博士
11:50am – 12:10pm	Medical-grade Wearables for Sleep Health and Obstructive Sleep Apnea Pre-screening & Management 用於檢測及管理睡眠健康和睡眠窒息的醫療級穿戴產品 Speaker: Dr Lydia Leung, CEO, Belun Technology Company Limited 講者: 倍靈科技有限公司 總裁 梁立慧博士
12:10pm – 12:30pm	Smart Health and Medtech R&D Cases Sharing by HKPC: From Design, 3D Print, Clinical Evaluation, Compliance to Regulatory 智能保健及醫療科技研發案例分享：從設計、3D 打印、臨床評估到法規 Speaker: Ir Bryan So, Principal Consultant, Smart Healthcare, MedTech & Optics, Hong Kong Productivity Council (HKPC) 講者: 香港生產力促進局 智能保健・醫療科技及光學 首席顧問 蘇文傑工程師

Remarks:

- (1) Free admission. Seats are limited and granted on a first-come-first-served basis. 免費入場。座位有限，先到先得。
- (2) Pre-registered attendees have priority admission until 15 minutes before the event commences. Thereafter unoccupied seats may be made available to walk-in attendees. 已登記人士將獲安排優先入座，請各已登記人士於活動開始前 15 分鐘到達活動場地，此後主辦機構有權因應現場情況安排未登記人士入座。
- (3) Trade only and persons under 18 will not be admitted. 只接待 18 歲或以上之業內人士進場。
- (4) The Organiser reserves the right to make any changes without prior notice. 主辦機構保留任何更改之權利而不作另行通告。

About the Speakers and Sharing

Sensors and Batteries for Flexible Healthcare Products

應用於柔性保健產品的傳感器和電池



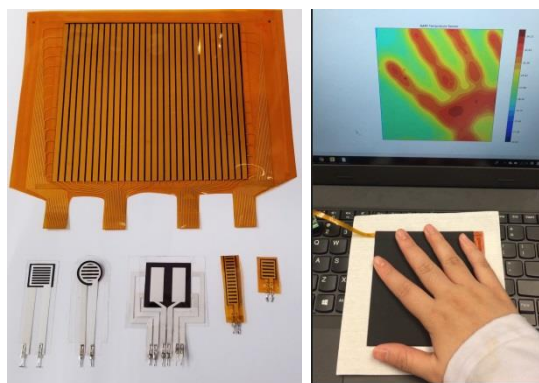
Dr Ellie Fu, Technical Manager, Nano and Advanced Materials Institute Limited (NAMI)

納米及先進材料研發院 技術經理 傅麗博士

Dr. Fu is currently a Technical Manager at Nano and Advanced Materials Institute (NAMI). Her current researches focus on the material and process development for batteries, sensors and printed electronics. Prior to NAMI, she was Technology Director at Advanced Micro-Fabrication Equipment Inc., leading the product development of a CVD system for 300mm wafers. From 2000 to 2004, she worked for Applied Materials in developing front-end CVD equipment and thin film deposition processes for semiconductor industry. Dr. Fu holds a bachelor's degree from Tsinghua University, and an MS and a Ph.D from University of Michigan.

Abstract of Sharing:

The growing needs to monitor people with chronic conditions at home and in the community calls for the development of wearable sensors, sophisticated data processing systems and power sources that are comfortable to wear. In this presentation, we will introduce the pressure and temperature sensors developed by NAMI for healthcare and other applications. The pressure sensors are fabricated with a low cost printing process and possess good sensitivity and repeatability with customizable shapes and sizes for different applications. The temperature sensor arrays are fabricated on flexible PCB with bonding method, offering good resolution and sensitivity for continuous temperature monitoring and mapping. NAMI has also developed flexible battery products for the integration with healthcare products such as medical patches or monitoring device.



About the Speakers and Sharing

Medical-grade Wearables for Sleep Health and Obstructive Sleep Apnea Pre-screening & Management

用於檢測及管理睡眠健康和睡眠窒息的醫療級穿戴產品



Dr Lydia Leung, CEO, Belun Technology Company Limited
 倍靈科技有限公司 總裁 梁立慧博士

Dr. Lydia Leung is currently Chief Executive Officer of Belun Technology, which is in the frontier of home screening tool for sleeping disorder, respiratory and cardiovascular related diseases. Prior to joining Belun Technology, she was Director of the Opto-Electronic Technology Division at ASTRI. During her eleven years with ASTRI, she established the medical/healthcare electronic team and spearheaded its development. She was responsible for the strategic planning, R&D, patent portfolio, design, development and marketing of medical/healthcare electronic devices and telecare/telehealth system for chronic disease management.

Dr. Leung was born and raised in Hong Kong. She received her Ph.D., M.Phil. and B.Eng. degrees in Electrical and Electronics Engineering from The Hong Kong University of Science and Technology. She also holds a M.Sc. degree in Marketing from The Chinese University of Hong Kong. She has published over 30 journals and conference papers. She is co-author of a book chapter and also owner of 17 US/China patents.

Abstract of Sharing:

It is well known that poor sleep quality increases the risk of having chronic diseases such as hypertension, stroke, diabetes, etc. Almost 40% of Chinese population has sleep issues. Comfortable and easy-to-use wearable with medical-grade accuracy is needed to allow people to monitor and manage their sleep health at home. In this seminar, we are going to introduce a ring and a wearable platform with medical-grade accuracy that allow users to measure their overnight heart rate, heart rate variability, pulse oximetry and motion comfortably at home. A sleep report summarizing the sleep health statistics including risk of having obstructive sleep apnea, mental stress, high/low pulse oximetry, high/low heart rate will be generated automatically.



belun®
 shed light on your sleep



About the Speakers and Sharing

Smart Health and Medtech R&D Cases Sharing by HKPC: **From Design, 3D Print, Clinical Evaluation, Compliance to Regulatory** 智能保健及醫療科技研發案例分享：從設計、3D 打印、臨床評估到法規



Ir Bryan So,
Principal Consultant (Smart Healthcare, MedTech & Optics)
Deputy General Manager (Automotive and Electronics), HKPC
香港生產力促進局 智能保健・醫療科技及光學 首席顧問 蘇文傑工程師

Ir Bryan So is the Principal Consultant (Smart Healthcare, MedTech & Optics) and Deputy General Manager of HKPC, responsible for business & technology development on smart health solutions, health data analytic, medical 3D printing, biomedical R&D, precision machining & opto-mechatronics, pharmaceutical & medical device regulatory affairs & quality management system.

As a pioneer in MedTech R&D, Bryan is a leading investigator of various government funded projects on biomedical R&D & industry best practices, covering projects on ISO14971 Risk Management for Medical Devices, Medical Device Good Distribution Practices; professional upgrade on Biomedical Engineering, Paediatric Dermatology, Optical Engineering; R&D on Dental CAD/CAM system, Artificial Finger Joint, Liquid Silicone Rubber Technology, Bio-Optics for Dermatology, Laparoscopic Surgery, etc.

Bryan has developed the pilot schemes of medical device risk management system & medical device good distribution practice in Hong Kong, and authored the manuals for the two pilot schemes.

Being a registered professional engineer in biomedical engineering, Bryan also serves in the Committee of Biomedical Division of HKIE, Founding Executive Committee of IEEE EMBS HK Macau Joint Chapter, Executive Deputy Secretary General of Asian Harmonization Working Party (AHWP) on harmonization of medical device regulations, Adjunct Associate Professor in Department of Biomedical Engineering in the HK Polytechnic University.

Abstract of Sharing:

Aging population is in rapid growth worldwide. By the year 2040, there will be 2.5 million people aged 65 or above in Hong Kong and contributes 30% of the total population. With the increasing demand of elderly care and foreseeable shortage of caretakers, the application and development of smart technology in elderly care and public health care to maintain the quality of life will be inevitable. With the appearance of disruptive technology and strong expansion in silver hair market, there are new opportunities to our local industries in tapping the fast-growing medical and healthcare market. With multi-disciplinary expertise in HKPC, the talk will share the case studies on medical technology development and transfer, and the introduction of government funding schemes that support the smart health and medical technology R&D in Hong Kong.