

## E-Textiles Research Activities at UBC

### Professor Frank KO

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**Date** : 20 January 2018 (Saturday)

**Time** : 3:00 p.m. – 4:00 p.m.

**Venue** : Room Y303, The Hong Kong Polytechnic University

### Abstract

Electronic textiles (e-textiles) are textile structures that have electronic functions. Recent advances in microelectronics and nanofibre technology have brought about game changing effect to advanced material technology and social-economic impacts. The omni presence of e-textiles will popularize wearable electronics; making personal health monitoring a reality; enable flexible/large area solar collector affordable; and facilitates the adaptation of flexible battery for consumer electronics and automobile alike. The combination of electronics with textiles will not only create a trillion-dollar e-textile economy but also play an important role in addressing the global issues of Energy, Environment and Healthcare facing human kind. In this presentation the e-textiles research activities at UBC will be introduced.

### Biography

Professor Frank K. Ko is Tier 1 Canada Research Chair Professor of Advanced Fibrous Materials in the Department of Materials Engineering at the University of British Columbia. He is Director of the Advanced Fibrous Materials Laboratory and Director of Advanced Materials and Process Engineering Laboratory (AMPEL, 2007-2012). He has a Ph.D. degree in Textile Engineering from the Georgia Institute of Technology. A SAMPE Fellow and Fellow of Textile Institute (Hon) he is a recipient of the American Society for Composites award and the Fiber Society Award for Distinguished Achievement. Professor Ko has co-authored four books and contributed to 33 book chapters. He has presented and published over 450 papers in the engineering design and analysis of fibrous structures for medical, industrial and advanced composite applications.

~ALL ARE WELCOME~