

A Flexible Future Fueled by Hybrid Electronic Architectures

Dr. James Holbery, Microsoft Group Leader of the Advanced Materials & Mechanics team

Data: 22 Jan 2019, Tuesday

Time: 14:00 -15:00 p.m

Venue: QT717, POLYU



Abstract:

Personal electronics continue to evolve as humans refine the relationship between data, communication, social interaction and personal computing. Conformal electronics will serve an increasing role in our lives delivering richer experiences from our contextual environment by incorporating active sensors, flexible displays and ubiquitous connectivity tuned by the user. Breakthroughs in integrated soft electronic structures, printed electronics and E-textiles will drive the Human-Computer Interface (HCI) to achieve greater productivity, higher performance and healthier lives. This talk will explore a HCI future that incorporates hybrid electronic structures with examples, and will speak to these technologies impacting our lives in the not too distant future.

Biography:

James Holbery is Microsoft Group Leader of the Advanced Materials & Mechanics team developing human-computer interface concepts, prototypes and products. Previously, his research focused on polymer science, advanced fiber composites and energy-related materials. He received his B.S. Mechanical Engineering from California State University-Sacramento and MS/Ph.D. Material Science & Engineering from the University of Washington. A serial entrepreneur, Jim has pursued a combination of personal passions and intellectual challenges. Prior to his current position he founded two companies, Ti Horizon Mountain Bikes acquired by K2 Sports and most recently Grid Mobility, an IoT energy sustainability pioneer, winner of the 2011 Global Clean Tech Open and other national awards. Earlier in his career he spent four years as a Mechanical Engineer within Spacecraft Engineering at Ford Aerospace/Space Systems, three years as Sr. Scientist at the Swiss Center for Electronics & Microdevices in Neuchatel, Switzerland, and five years as Staff Scientist at the Pacific Northwest National Laboratory - US Dept. of Energy.

ALL ARE WELCOME!