

THE UNIVERSITY



OF HONG KONG

DEPARTMENT OF MECHANICAL ENGINEERING

SEMINAR

Online

Title: Integration of thin-film and nano-scale materials for flexible electronics

Speaker: Professor William S. Wong
Department of Electrical and Computer Engineering
University of Waterloo
Canada

Date: 3 March, 2021 (Wednesday)

Time: 10:00 a.m. (Hong Kong Time)

Zoom meeting: 1) Link to join the meeting:

<https://hku.zoom.us/j/93512465950?pwd=UFdKbHZGTU94b3BXdHc2STZpUTdjZz09>

2) Meeting ID: 935 1246 5950

3) Password: 581438

Abstract:

Conventional monolithic integration methods are reaching a practical limit for large-area electronics where miniaturization is not the major constraint for scaling the technology. This platform may benefit more from heterogeneous integration as a means to enhance micro- and nano-system functionality. Novel approaches to heterogeneous integration, employing inkjet printing and layer-transfer techniques will be presented for fabricating flexible electronic devices. The effect of mechanical strain on the electrical and optical characteristics of thin-film and nanowire devices will be discussed in the context of developing this technology for flexible display and solar cell applications.

Biography:

William S. Wong is a Professor in the Department of Electrical and Computer Engineering and Director of the Giga-to-Nanoelectronics Center at the University of Waterloo. Wong received his Ph.D. in Materials Science and Mineral Engineering from the University of California, Berkeley in 1999. From 2000-2010, he was Senior Member of Research Staff at the Palo Alto Research Center (formerly Xerox PARC). His research is focused on electronic and optoelectronic thin-film and nanowire devices for large-area flexible electronics.



ALL INTERESTED ARE WELCOME

For further information, please contact Dr. P.K.L. Chan at 3917 2634.

Research area: Energy