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Department of Biomedical Sciences

presents a seminar

“Two Dimensional Materials for Flexible and Wearable Electronics”

Prof. Jong-Hyun Ahn

School of Electrical & Electronic Engineering

Yonsei University, Seoul, Korea

Date : 17 May 2017

Time: 11:00am to 12:30pm

Venue: Room P4704, 4/F, Academic 1, City University of Hong Kong

Abstract

With the emergence of unusual format electronics such as flexible and wearable devices, an effort has been made to integrate devices with various functions in smart clothing and human body for providing enhanced convenience for the users. However, it is difficult to accomplish such electronics with conventional rigid electronic materials. 2D materials such as graphene and MoS₂, the thinnest elastic material, has superb electronic properties that make it a promising host for device applications and it has a good mechanical property, offering a great opportunity to flexible and wearable electronics that should maintain a stable operation under a high strain. In this talk, I will present the research results of my group on fabrication methods of 2D materials and various wearable electronic applications including a touch panel and a tactile sensor.

About the Speaker

Jong-Hyun Ahn holds Underwood distinguished professor at Yonsei University, Korea. He has worked as a director of the Center for strain engineered electronic devices, supported by National Research Foundation of Korea and an associate editor of NPG Asia Materials. His research includes fundamental and applied aspects of nanomaterials and fabrication for flexible and stretchable electronic devices, and recent interest focuses on 2D material based wearable electronics with an emphasis on bio-applications. Jong-Hyun Ahn has authored more than 150 papers, and is an inventor of more than 60 patents and has received numerous scientific awards, including the National Young Scientist Award and the IEEE George Smith Award.

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All are welcome!