

W Y Woon 溫偉源
Associate Professor, Dept of Physics
National Central University
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Re: College of Electrical and Communication Graduate Seminar

Dear Prof Woon:

Once again thank you very much for your acceptance of our invitation to give a talk to our colleagues graduate students. I and my students are looking forward to your presentation. The seminar scheduling information is as follows:

Date: May 3, 2013

Time: 7:00 ~ 8:30 PM Friday

Location: Yuan Ze University Building 7 Floor 2 Rm 70206

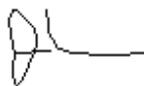
Upon arrival at Yuan Ze University, you may tell the guard that you are the speaker for the 白小明's seminar course. You may then drive into campus. I suggest that you park in the basement of building 7. When you arrive I hope that you can contact with me at 0972-286-144.

I am not sure about your time schedule. If possible, we would be honored if you were able to have a light dinner with us before the seminar at the Faculty Cafeteria in Yuan Ze University.

Finally a few words of note about the seminar. The majority of students who attend the seminar on Friday evening are part-time students with full-time day jobs. Many of these students drive in from Hsinchu.

Please find attached an slightly modified version of your abstract and background. Please let me know if there are any problems with the announcement.

Sincerely,



Jonathon David White

College of Electrical and Communication Graduate Seminar

Atomic force Microcopy Nanolithography on Graphene

Speaker: W Y Woon 溫偉源, Dept of Physics, National Central University

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Abstract

Graphene has been anticipated to replace silicon as the material for future electronics application. However, pristine graphene is known to be a gap-less material around the Fermi level with linear dispersion relation. It is essential to fine-tune the band gap feature of graphene for its further applications in electronic devices. So far, band gap opening has been demonstrated with variety of methods including adatom/molecule absorption, substrate back-gating, and local anodic oxidation (LAO).

In this talk we will focus on insights gained into the LAO kinetics of chemical vapor deposition (CVD) grown graphene supported on thin oxide buffered silicon templates through the use of Atomic Force Microscopy (AFM)

About the speaker

Wei-Yen Woon, a native of Malaysia, received the B. S. (1998), M. S.(2000), and Ph. D. (2005) degrees in physics from National Central University (NCU), Jungli, Taiwan for work in the area of soft matter and complex plasma physics. Upon graduation, he entered Taiwan Semiconductor Manufacturing Company (TSMC), Hsinchu, Taiwan, leading a research team working on novel metrology and dopant annealing technologies. In late 2008, returned to the physics department at NCU as an assistant professor of physics.. His current research interests include scanning probe microscopy based dopant profiling technologies, local anodic oxidation of graphene, physics of recrystallization dynamics in ion implanted templates, and bacterial carpet microfluidics systems. He has authored or co-authored 19 journal and conference papers and one U.S. Patent.