

**Department of Electrical and Computer Engineering**  
**Center for Integrated Bio and Nano Systems**  
**Friday, November 10, 2017**  
**11:15 a.m. (Refreshments served at 12:15 pm)**  
**Room: CBB 104**

**Established, Emerging and Non-conventional 2D  
Devices and Technology**

**Deji Akinwande**

Endowed Associate Professor, Electrical and Computer Engineering  
University of Texas – Austin

**Abstract:** This talk will present our latest research advances on 2D nanomaterials towards greater scientific understanding and advanced engineering applications. In particular the talk will highlight our work on flexible electronics, zero-power devices, wearable sensors, straintronics, and new topological semiconductor transistor concepts. Finally, recent commercial electronic products employing graphene and related materials will be featured.

**Bio:** Dr. Deji Akinwande is an Endowed Faculty Fellow and Associate Professor at the University of Texas at Austin. He received the PhD degree from Stanford University in 2009. Prof. Akinwande has been honored with the 2017 Bessel-Humboldt Research Award, the U.S Presidential PECASE award, the inaugural Gordon Moore Inventor Fellow award, the inaugural IEEE Nano Geim and Novoselov Graphene Prize, the IEEE “Early Career Award” in Nanotechnology, the NSF CAREER award, several DoD Young Investigator awards, and was a past recipient of fellowships from the Kilby/TI, Ford Foundation, Alfred P. Sloan Foundation, 3M, and Stanford DARE Initiative. His work on silicene have been featured by nature news, Time magazine and was selected among the top 2015 science stories by Discover magazine. He serves as an Editor for the IEEE Electron Device Letters and Nature NPJ 2D Materials and Applications. He is a Fellow of the American Physical Society (APS).

Contact Prof. Yan Yao ([yyao4@central.uh.edu](mailto:yyao4@central.uh.edu)) if you would like to arrange for a time to meet with Dr. Akinwande.