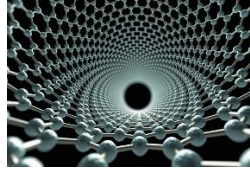# IEEE SoCal Nanotechnology Council Chapter Seminar

Date: January 30, 2019   Time: 6:30PM Networking and Pizza; 7PM Presentation
Location: Cal State University Fullerton, Building TSU. Room Alvarado AB.
http://www.fullerton.edu/campusmap/

Topic: Nano-Photonics, Plasmonics, and the Memristor

Speaker: Dr. Wei Wu,
Associate Professor of Electrical Engineering, University of Southern California

Abstract: Dr. Wu will present on recent progress in three areas of nanotechnology: nano-photonics, plasmonics, and memristors. In nanophotonics, he will describe an optical metasurface for color-reflective displays. In plasmonics, he will present a new technology based on collapsible nanofingers to fabricate plasmonics structures with atomic precision, over large areas with high reliability and repeatability. Based on this technology, he studied quantum tunneling in gap plasmons and demonstrated label-free single molecule sensing with SERS. About memristors, he will present the recent discovery in engineering the characteristics of memristors using the crystallinity of the switching materials.

Bio: Dr.Wu received with a BS in Physics from Peking University, and a Ph.D. in Electrical Engineering from Princeton University in 2003. Before joining USC in 2012 he worked as Senior Scientist at HP labs. His work includes nanoimprint lithography and applications in nano-electronics, nano-photonics, plasmonics, chemical sensing and nano-electrochemical cells. He coauthored 101 peer reviewed journal papers, 2 book chapters and more than 100 conference presentations, including 16 keynote and invited presentations. He has 115 issued U.S. patents. He is the chair of Nanofabrication track, IEEE Nanotechnology Council. He is a co-editor of Applied Physics and an associate editor of IEEE Transactions on Nanotechnology. He was also an IEEE Nanotechnology Council 2015 and 2016 Distinguished Lecturer.

All Students & the Public Are Welcome. This event is FREE.
Please RSVP to ensure enough food is ordered at: **https://events.vtools.ieee.org/m/187307**

Park on Second floor of Nutwood Parking Structure (NPS), purchase an $8 all day ticket and place on the dash. If you want a reimbursement at the meeting take a cell phone photo of the ticket with you. (The Park-&-Pay option has a two hour MAXIMUM limit, don't park there, they will ticket.)

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