



## **POWER ELECTRONICS ARE *BACK* IN THE BAY!**

The SFBAC (combined Santa Clara Valley, San Francisco, & Oakland/East Bay) IEEE Power Electronics Society (PELS) is very pleased to invite you to our September chapter meeting. We are excited and honored to have Prof. Juan Rivas-Davila, Assistant Professor of Electrical Engineer at Stanford University, to speak on the topic of “*The Trials & Tribulations of Evaluating GaN and SiC Switching Devices*” in regard to how he has been able to evaluate a variety of wide bandgap solutions for very different applications. There is a lot of interest and sweat equity spent looking at GaN and SiC devices to replace existing Si devices so come hear about the experiences and gain some key insight the easy way. Additional event details can be found below.

**NOTE:** This event will also be co-sponsored by the UC Berkeley IEEE PELS-IAS Student Chapter. You can learn more about this society by clicking the logo below.

### **UC Berkeley IEEE PELS-IAS Student Chapter**

***In order to promote attendance and support other PELS activity, there is a registration fee for most attendees. Please note this is intended to be a *free event* so any fee collected (for this and future events) will be tracked and applied to the registrant for either IEEE PELS membership or future, major event (i.e. - workshop) registration fees.***

***\$3 for Early Registration. Walk-up registration will be \$5 at the door with no exceptions.***

**Date:** Thursday, September 29, 2016

**Time:** 6:30-7:00pm Dinner & Networking, 7:00-8:00pm Talk

**Location:** Texas Instruments, Building E Auditorium, 2900 Semiconductor Dr, Santa Clara, CA 95051

MAP LINK: <https://goo.gl/maps/mFzeGodRqc72>

REGISTRATION LINK: <http://goo.gl/DYlovK>

PELS WEBSITE LINK: <https://ewh.ieee.org/r6/scv/pels/index.html>

***Talk Title:***

The Trials & Tribulations of Evaluating GaN and SiC Switching Devices

***Abstract:***

With Prof. Rivas' unique experience of evaluating numerous GaN & SiC products for many different applications/markets, a summary of the challenges/learnings/tradeoffs from these experiences will provide a broad overview of what many in the industry are finding out on their benches every day.

***About the speaker:***

Professor Rivas came to Stanford as an assistant professor in January 2014. He was an assistant professor in Electrical Engineering at the University of Michigan. Before becoming a faculty member in 2011, he worked for the General Electric Global Research Center developing power electronics for medical imaging and aviation systems. He received the B.Sc. degree in electrical engineering from the Monterrey Institute of Technology (Mexico) in 1998. He obtained his masters (2003) and doctoral degree (2006) at the Massachusetts Institute of Technology. His research interests are in power electronics, RF power amplifiers, resonant converters, soft switching topologies and design of power converters for operation in harsh environments.