Department of Engineering Science

Announces 3rd lecture of the Engineering Science Lecture Series Academic Year 2018-2019

This is a series designed to benefit the Sonoma State students and faculty in the School of Science and Technology, high tech and biotech industries and related businesses and community in the North Bay Region.

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The Lecture Series covers a broad range of topics with focus on recent developments and trends and provides a platform for the exchange of ideas among the audience.

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Attendance is open to the students, faculty and staff of SSU and other academic institutions, engineers and scientists from industries, members of the business community and members of the community, in general. A parking permit is required to park on campus, and is available for $5.00 at machines in the parking lots. Talks are otherwise free.

“Basic RF Measurements and Terminology”

by

Mr. Wei Lin, Senior RF Hardware Design Engineer, National Instruments

Thursday, October 4, 2018

Abstract - RF and wireless communications technology are standard in everyday device design. Understanding the fundamentals of RF systems and some basic RF Measurements and terminology is critical to your success in designing and testing RF devices. This presentation is going to introduce you some fundamental RF concepts and measurements. We will cover some RF Basic Terminology, Analog and Digital Modulation, some specific topics of common measurement applications like EVM, Phase Noise, Linearity and so on. Further, we will go over different types of measurement instruments and review each one’s advantage and disadvantage in RF application.

Mr. Wei Lin, he graduated from University of California, Davis in 2012 with a master’s degree of electrical engineering major. After graduation, he joined National Instruments as a RF hardware design engineer. He has been working as a designer, characterization and verification roles on the high-performance vector signal transceiver products from National Instruments.

Acknowledgement

The ES Lecture Series is supported by the local industry including Keysight Technologies.

Upcoming Lectures

<table>
<thead>
<tr>
<th>2018</th>
<th>Lecture Title</th>
<th>Guest Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 18</td>
<td>LED Lighting: Cool and Bright</td>
<td>Mr. Benny Smith, Consultant, Vision Smith</td>
</tr>
<tr>
<td>Nov 1</td>
<td>Fundamentals and Trends in Photovoltaic Electric Generation</td>
<td>Mr. Paul Hernday, Senior Applications Engineer, Solmetric, Inc.</td>
</tr>
<tr>
<td>Nov 15</td>
<td>Metasurfaces: Engineering Electromagnetic Wavefronts</td>
<td>Dr. Mohamed Salem, Assistant Professor, Engineering Science Department, SSU</td>
</tr>
</tbody>
</table>