Department of Engineering Science
Announces 3rd lecture of the Engineering Science Lecture Series Academic Year 2020-2021

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.

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.

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.

Days & Dates: 1st & 3rd Thursday of each month
Lecture: 4:00 to 5:00 p.m. including Q & A
Zoom ID: https://SonomaState.zoom.us/j/4739559175

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

“Trends in Electronic Measurement”
by
Mr. Jay Alexander, Senior Vice President and Chief Technology Officer of Keysight Technologies, Santa Rosa, CA

Thursday, October 1, 2020

Abstract - Electronic measurement is critical for the advancement of the electrical engineering profession, and more broadly for addressing many of the challenges and opportunities facing the world today. Modern electronic measurement instruments are both beneficiaries and enablers of new technology, and as such their architectures and capabilities can provide insight on the patterns of hardware and software technology adoption occurring across the electronics landscape. This talk will cover some of the most important trends at work in electronic measurement, including the ongoing evolution from analog to digital architectures, the dramatically increased role of software, and the emergence of sophisticated multifunction instruments. These trends will be highlighted with examples drawn from three foundational electronic measurement instruments: the oscilloscope, the spectrum analyzer, and the network analyzer.

Mr. Jay Alexander is Senior Vice President and Chief Technology Officer of Keysight Technologies. He leads Keysight's central technology strategy and development, focusing on market trends and top opportunities for the company to achieve competitive advantage and growth. Prior to Keysight, Mr. Alexander held numerous leadership positions at Agilent Technologies, including serving as VP and GM for the Oscilloscope and Protocol Division. He began his career at Hewlett-Packard as a Manufacturing and Test Engineer after working on robotics at IBM as a co-op student. Mr. Alexander earned a B.S. in Electrical Engineering from Northwestern University and an M.S. in Computer Science from the University of Colorado, where his thesis work focused on connectionist (neural network) rule extraction. He is a licensed Professional Engineer and a Senior Member of the IEEE. He serves on the Visiting Committee on Advanced Technology at NIST and holds 24 U.S. patents.

Upcoming Lectures

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Title</th>
<th>Guest Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 15</td>
<td>Supply Chain - New Product Introduction Process</td>
<td>Dr. Pelin Salem, senior Test Development Engineer, Cisco, San Jose, CA</td>
</tr>
<tr>
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<td>Towards Hardware Cybersecurity</td>
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</tr>
<tr>
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</tbody>
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