Department of Engineering Science
Announces 9th 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.

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. 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.

Days & Dates: 1st & 3rd Thursday of each month
Venue: Cerenr Engineering Science Complex, Salazar Hall Room #2009A
Reception: 4:00 to 4:30 p.m.
Lecture: 4:30 to 5:15 p.m.
Q&A: 5:15 to 5:30 p.m.

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

“Radio Wave Propagation in Open and Obstructed Environments”
by
Mr. Rod Sugiyama, Chief Operating Officer, Operant Solar, Santa Rosa, CA
Thursday, March 7, 2019

Abstract - Radio frequency propagation is critically important in our modern society. In addition to commonly known wireless devices such as mobile phones and wireless LAN, Services such as Waze (GPS location services), medical applications such as MRI, communication for police and fire services rely on RF propagation to deliver the service at the highest quality level. Since these services use open air as the transmission media, there is a critical need to engineer not only the electronics of wireless devices and systems but application of the knowledge of RF propagation in the real world. Thus, engineers need to understand and mitigate the effects of various obstructions on the RF links to deliver the ultimate satisfaction to the end and intermediate users. With that in mind, this presentation introduces key concepts of radio wave propagation in free space and through various types of obstructions.

Mr. Rod Sugiyama has 25+ years of engineering management and with 14 years of R&D program leadership. He has cross-functional expertise and experience in leading purchasing, manufacturing and design engineering teams to achieve best in class results. Rod utilized his skills and experience at Tektronix, Keithley Instruments and HP/Agilent/Keysight in all aspects/phases of programs: mechanical, software, test and electronic hardware development through production ramp. He has managed remote sites and organizations of 5-60 people. Rod has an AS in Electronic Technology from SRJC and a BSEE from Cal State University, Sacramento.

Upcoming Lectures

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