

Department of Engineering Science

Announces 7th 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: Cerent 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.

“Radar Technology, History and Future Trends”

by

Mr. Chris Stewart, President and COO, Pocket Radar, Santa Rosa, CA

Thursday, September 5, 2019

Abstract - Radar Technology has been around for over 100 years and has made a huge impact in our lives. This presentation will review the history of Radar Technology from the origins of Electromagnetics to present day applications in our everyday lives. It will also cover future developments and trends as this critical technology is being deployed in many new and exciting ways.

Mr. Chris Stewart is a Co-Founder and President/COO of Pocket Radar Inc. His engineering and innovative mindset began early in life; he built his first radio transmitter at age eight and at age 16 he invented a novel radio-controlled switching system that won first place in a state-wide electronics competition. He then attended and graduated with his BS in Electrical Engineering from the Ohio State University. Since then Mr. Stewart has gained extensive experience building strong development teams and leading new product introductions. He spent 10 years as an R&D engineer at Hewlett Packard, developed multiple products including test system components used to calibrate every Radar system in the US Navy, has published multiple papers and technical articles and holds five granted patents with more pending. He is a member of the Institute of Electrical and Electronics Engineers (IEEE), where he serves on the committee that sets all of the specifications for Law Enforcement Radar devices. In addition to serving as President and COO of Pocket Radar Inc., Mr. Stewart lectures in Electrical Engineering and Business Entrepreneurship at Sonoma State University (SSU), serves as chairman of the External Advisory Board for the SSU Makerspace, and is the Lead Industry Advisor for the Electrical Engineering Department.



His latest roll at SSU is serving as the Entrepreneur-in-Residence for the School of Business and Economics where he mentors aspiring entrepreneurs and students.

Upcoming Lectures

2019	Lecture Title	Guest Speaker
9/19	Nonreciprocal Manipulation of Electromagnetic Waves	Dr. Sebastian Gomez-Diaz, ECE Department, UC Davis, Davis, CA
10/3	Machine Learning	Dr. Shahrhad Jamshidi, Data Scientist, Remi Pty, Australia
10/17	5G – Challenges and Status	Mr. Roger Nichol, 5G Program Manager Keysight Technologies, Santa Rosa, CA
11/7	Applications of Chaotic Maps in Communication and Signal Processing	Mr. Anish Nair, Senior Engineer, Qualcomm, San Jose, CA
11/21	"Smart Environmental Monitoring Using Low-Cost Sensors and LPWAN	Dr. Nansong Wu, ES Department, Sonoma State University, Rohnert Park, CA