



**San Fernando Valley Section
Engineering in Medicine and
Biology Society Chapter**



PRESENTS

Steven W. Badelt, Ph.D.
Managing Partner, Suttons Creek, Inc.

The Application of Systems Engineering in Medicine

Effecting a positive patient-outcome is a complex problem. The medical device and pharmaceutical industries make considerations for how to incorporate technology transfers, new formulations and re-formulations, stability parameters, manufacturability, product placement, hospital systems, and home use. System engineering is a discipline that focuses on solving the problem of complexity, whether for Apollo 11 or for a medical product as simple as a epipen. In fact, US and international regulations on these product require many aspects of systems engineering be applied, though not always named. We can ask the right questions and tailor best practices from traditional systems engineering to the medical space. This presentation will discuss the application and tailoring of systems engineering to the "non-traditional: field of medicine.



Steven W. Badelt, PhD. is a seasoned expert in product development, engineering management, business development, and systems engineering. He has over 20 years of experience in the design and launch of combination products and medical devices, including auto injectors, insulin-pumps, implantable defibrillators, wireless platforms, and patient management software.

Steve holds a BS in Electrical Engineering from Carnegie Mellon University, an MS in Biomedical Engineering from UCLA, and a PhD in Neuroengineering from UCLA. He has received multiple awards for writing business plans (Tech Coast Angels), research presentations (Yahoo!, The Smithsonian), and leadership (Carnegie Mellon, industry). Steve presently owns or is a managing member of three corporations. He is Managing Partner of the biotech consulting firm Suttons Creek, Inc., an advisory board member for the Los Angeles-based Greenwings seed-capital investment fund, and also holds an international position as the Industry Ambassador for the Healthcare Working Group of the International Council on Systems Engineering.

Tuesday September 13, 2016 6:00 p.m.

Light dinner will be served, presentation starts at 7 p.m.

Medtronic Diabetes

18000 Devonshire St
Northridge, CA 91325

Registration is required: <http://sfv-ieee-embs.eventbrite.com>

Please register by September 9, 2016