



## NOTE

**THIS MEETING WILL BE HELD IN APRIL 2018**

## IEEE Section Night

Philadelphia Section Meeting  
Tuesday, April 17, 2018

Sponsored by the Electronic Design / Electronic Packaging Societies Chapters.

*Note: In the event of bad weather please call the Sheraton after 1:00 PM the day of the meeting:*

**215-387-8000**

*Ask the front desk if the meeting has been canceled.*

### When:

**Tuesday, April 17, 2018**  
**Dinner at 6:00 PM,**  
**Speaker at 7:00 PM.**

### Where:

**Sheraton University City,**  
**3549 Chestnut St,**  
**Philadelphia, PA 19104**  
**(215) 387-8000**

- *Meal Cost: \$25 (students \$15). The meal cost is \$40 but it is subsidized by the IEEE Philadelphia Section.*
- *You can attend the talks only for free (with no dinner), however, we ask that you register.*
- *Parking is paid by the IEEE Philadelphia Section, make sure you have your parking ticket stamped at the meeting.*

### [Registration Link](#)

Or call (484) 270-5136 or email the section  
office: [sec.philadelphia@ieee.org](mailto:sec.philadelphia@ieee.org)

### **PROFESSIONAL DEVELOPMENT HOURS (PDH)**

*PDH Certificates are free for IEEE members. For non-members, the cost is \$9 per certificate. You can pay during registration or by check at the meeting.*



# SAVE THE DATE

**Tuesday, April 17, 2018 – IEEE Section Night**

**Sheraton University City**

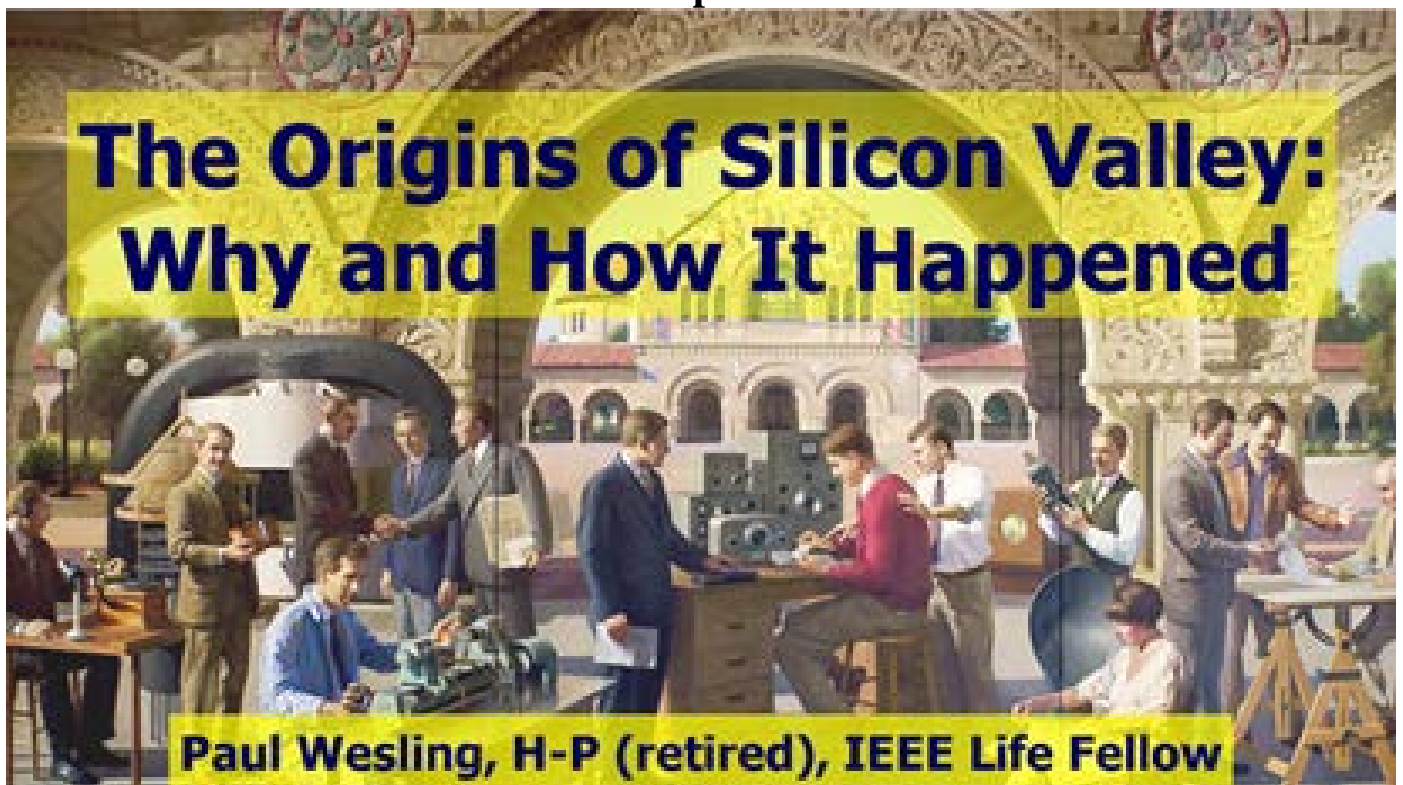
**Dinner: 6:00 PM, Talk: 7:00 PM**

**Paul Wesling, IEEE Fellow & Distinguished Lecturer Speaker**

**Presents**

**The Origins of Silicon Valley: Why and How It Happened**

**Sponsored by the Electronics Packaging / Electronics Design (EP/ED) Society  
Chapters**





**Abstract:** Why did *Silicon Valley* come into being? The story goes back to local Hams (amateur radio operators) trying to break RCA's tube patents, the sinking of the Titanic, Fred Terman and Stanford University, local invention of high-power tubes (gammatron, klystron), WW II and radar, William Shockley's mother living in Palo Alto, and the SF Bay Area infrastructure that developed -- these factors pretty much determined that the semiconductor and IC industries would be located in the Santa Clara Valley, and that the Valley would remain the world's innovation center as new technologies emerged -- computers, software, mobile, biotech, Big Data, and now autonomous vehicles -- and it would become the model for innovation worldwide.

Paul Wesling, an IEEE Electronics Packaging Society Distinguished Lecturer, will give an exciting and colorful history of device technology development and innovation that began in San Francisco and Palo Alto, moved down the Peninsula, and ended up in the Santa Clara Valley during and following World War II. You'll meet some of the colorful characters -- Leonard Fuller, Lee DeForest, Bill Eitel, Charles Litton, Fred Terman, David Packard, Bill Hewlett and others -- who came to define the worldwide electronics industries through their inventions and process development. You'll understand some of the novel management approaches that have become the hallmarks of tech startups, and the kinds of engineers/developers who thrive in this work environment. He'll end by telling us about some current local organizations that keep alive the spirit of the Hams, the Homebrew Computer Club, and the other entrepreneurial groups where geeks gather to invent the future.

**Biography:** Paul Wesling received his BS in electrical engineering and his MS in materials science from Stanford University. Following assignments at GTE/Lenkurt Electric, ISS/Sperry-Univac, Datapoint Peripheral Products (VP - Product Integrity), and Amdahl (mainframe testing), he joined Tandem Computers in Cupertino (now part of Hewlett Packard) in 1985. He designed several multi-chip module prototypes, managed Tandem's Distinguished Lectures series, and organized a number of advanced technology courses for his Division and also for the IEEE. He managed a grant from the National Science Foundation for the development of multimedia educational modules. Paul retired from HP in 2001, and then served for 10 years as the Communications Director for the IEEE's S.F. Bay Area Council.

As vice president of publications from 1985 through 2008, he supervised four archival journals and a newsletter for IEEE's Electronics Packaging (previously the CPMT) Society. He is a Fellow of the IEEE, and received the IEEE Centennial Medal, the Board's Distinguished Service award, the Society Contribution Award, and the IEEE's Third Millennium Medal. He has organized over 300 courses for the local IEEE chapter in the Santa Clara Valley (Silicon Valley), many of them held at Stanford University (and, more recently, at Silicon Valley company facilities). An Eagle Scout, he served as scoutmaster of his local Boy Scout Troop for 15 years, was Advisor of a High-Adventure Crew, and enjoys backpacking, fly fishing, guitar and amateur radio (call sign: KM6LH).