

Meeting Details: Dale Nelson's Crystal Oscillator Talk

When?

Monday, November 30, 2009, beginning at 6:00 PM

Where?

Lehigh University, Bethlehem PA
Packard Laboratory
Refreshments in third-floor lobby
Meeting and lecture upstairs in room 466

Who is invited?

Basically anybody who's interested may attend ***as long as they RSVP***, but specific invitations will be extended to:

- IEEE/LVS members (not just SSCS)
- IEEE/LVS student branch members
 - Lehigh University. William Haller, faculty advisor
 - Lafayette College
 - Wilkes University
 - University of Scranton
 - Penn State Wilkes Barre
- Lehigh University Professors and Students
- IEEE/SSCS of neighboring sections
- Local industry engineers and managers, IEEE members or not

Program

6:00 PM Social Hour in third floor lobby. RSVP is strictly required to partake of Pizza, Soft Drinks, Cookies.

7:00 PM Announcements and short formal meeting followed by address by Dr. Dale Nelson, of DHN Integrated Circuit Design and Adjunct Professor at the University of Pennsylvania.

Topic

Crystal Oscillators: Analysis and Design Overview.

Abstract

Crystal oscillator circuits look deceptively simple: just a CMOS inverter, the crystal, and a couple of capacitors. Without understanding crystals, the manner in which negative resistance is created, drive level, and chances for spurious oscillation, a designer likely will not create a robust design.

Speaker Information

Dr. Nelson is owner of DHN Integrated Circuit Design and an Adjunct Professor at the University of Pennsylvania. He received a Ph.D. in Electrical Engineering from Purdue University, and was employed by Bell Labs, Lucent, Agere, and Innovative Wireless Technologies. At Agere, his group was responsible for PLLs, Crystal Oscillators, and other mixed signal IP.