Invitation to October 25, 2010 IEEE/LVS/SSCS Technical Meeting

Featuring: **Paul Mosinskis**
Topic: **SERDES – What does it mean and how do you build one?**

When?
Monday, October 25, 2010, beginning at 6:00 PM

Where?
Lehigh University, Bethlehem PA
Packard Laboratory
Refreshments in room 324 (Same floor as the lobby)
Meeting and lecture upstairs in room 416.

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 Professors and Students
- IEEE/SSCS of neighboring sections
- Local industry engineers and managers, IEEE members or not

RSVP to: Peruzzi@RPeruzzi.com
No matter who forwards you this invitation, please respond to Robert Peruzzi at the above link.

Program
6:00 PM Social Hour in Packard Lab room 324: Pizza, Soft Drinks and Cookies.
7:00 PM Announcements, short formal meeting, address by Paul Mosinskis of Lattice Semiconductors

Topic
SERDES – What does it mean and how do you build one?

Abstract
High speed SERDES (Serializer/DeSerializers) continue to find their way into more and more applications, from satellite-based communication systems to video distribution. However, the basics of building these ICs are often fuzzy. What does it take to move multi-gigabit data using bulk CMOS? What do you have to consider when designing such systems? This talk will tackle these questions by illustrating a requirements-based approach to designing a SERDES.

Speaker Information
Paul Mosinskis has been a mixed signal IC designer for 15 years and has specialized in CMOS SERDES design for the last eleven. His designs have included many different speeds, technologies and architectures, including the first SERDES on the International Space Station. In addition to SERDES design, he spent time designing digital cameras, analog front ends for DSL, and portions of the Sidewinder Air-to-Air missile. He is also fluent in a number of programming languages, including Perl, Skill and C, as well as Linux system administration, which has led him to tweak nearly every CAD system he has ever worked on. He considers himself an "HVAC enthusiast", as evidenced by the nearly 10,000 lines of code that run the geothermal heating and air conditioning in his home. He is the author of 4 patents.