



INTERNATIONAL COUNCIL ON SYSTEMS ENGINEERING

Monthly Tuesday Evening Meeting in Silicon Valley

Tues., November 14, 2000 at 5:30

## A System on a Chip! Sounds Crazy, no?

The semiconductor industry is producing so-called "systems on chip" (SOC) or "systems on silicon" (SOS). These devices are embedded in many of the products available today. However, Systems Engineering has had very little impact on these SOCs.

In addition, the technical press throws around a number of terms that are not fully understood by people outside the integrated circuit/semiconductor industry like "deep sub-micron", "sea of gates", and others.

This talk will provide:

- some definitions and example of SOCs.
- Existing design methodologies and their shortcomings along with some proposed alternatives.
- How the semiconductor industry got where it's at and where it might be going.
- Some of semiconductor terminology.

**Presenter: Thomas L. Jackson** is a Staff VLSI Design Engineer with the Network Access Development group of Fujitsu Microelectronics, Inc. where he is working on the development of a cable modem SOC. Mr. Jackson has over twenty-five years of experience in hardware and system design.

Mr. Jackson participates in the INCOSE Risk Management Working Group (RMWG). He was a contributor to the Risk Management chapter of the INCOSE Systems Engineering Process Guide. He is also the lead author on the INCOSE Automated Risk Management On-line Resource (ARMOR). Mr. Jackson is also a Director-at-Large of the INCOSE SFBAC for the year 2000.

Mr. Jackson has a BSEE from Purdue University and a MS Engineering from San Jose State University. He is a California Registered Professional Engineer.



<http://www.incose.org/sfbac>  
INCOSE Home Page: [www.incose.org](http://www.incose.org)  
**Next Meeting is Tues, Dec. 12**

*Tues, November 14:* 5:30 PM Social Half-Hour (hors d'oeuvres)

6:00-7:00 Talk followed by Questions. Networking and sidebars to 8 PM.

*Place:* **Lockheed Martin Missiles & Space Operations**, Sunnyvale, Bldg 157 Executive Conf. Room.

Third & Mary (take the Mathilda exit of Highway 101)

{Map on back. North on Mathilda, past the Blue Cube, and left on Third Ave. to parking lot at corner of Mary Ave. Parking is across the street from Building 157.}

*Donation:* FREE for members. \$4 for others.

*Registration:* Wally Chaplin (LMM&SO), 408-756-6954. *E-mail* wally.chaplin@lmco.com

**Please Pre-Register to Facilitate Check-In**

## Driving Directions:

**Hwy 101, North** - exit at Mathilda. Proceed north on Mathilda to 3rd Ave. Left on 3rd to Mary.

**Hwy 101, South** - take Highway 237 exit to Mathilda. Follow instructions for Hwy 237 below.

**Hwy 237, West or East** - exit at Mathilda. Proceed north on Mathilda to 3rd Ave. Left on 3rd to Mary.

**Highway 85, North** - take Highway 237 exit to Mathilda. Follow instructions for Hwy 237 above.

## Area Map to Sunnyvale, California

