

March 7, 2012

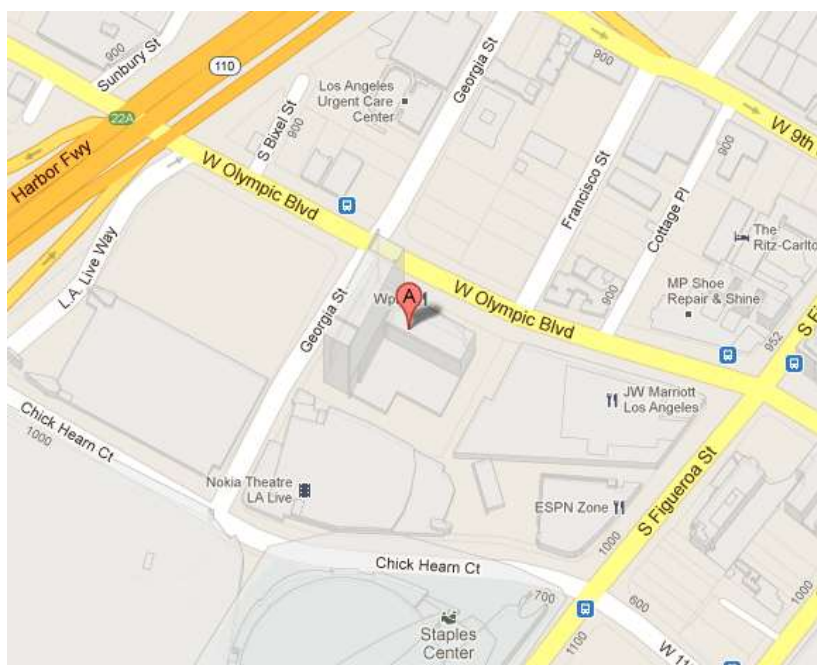
Optics in Next Generation Data Centers

Dr. Madeleine Glick, [APIC Corporation](#), Culver City, CA

Abstract: We are increasingly aware of the enormous bandwidth demands being put on data centers by new applications along with the urgent need to meet these demands at much improved energy efficiency. At the same time, at the processor level, computer architectures are hitting performance limitations due to the outpacing of processor capabilities compared to capabilities of the interconnection network. This talk will review these challenges and approaches to solving them using optical technology.

About our speaker: **Dr. Madeleine Glick** is currently a senior research scientist at APIC Corporation in Culver City, CA where she is working on optical interconnection networks for data center applications. Prior to this, from 2002-2011 she was a principal research scientist at Intel, at Intel Labs Cambridge, UK and then at Intel Labs Pittsburgh where she was also an adjunct professor in the Department of Electrical and Computer Engineering, Carnegie Mellon University. She received the Ph.D. degree in physics from Columbia University, New York, in 1988. She then joined the Physics Department, EPFL, Lausanne, Switzerland and from 1992 to 1996, was a Research Associate with CERN, on the Lightwave Links for Analogue Signal Transfer Project for the LHC detector.

Madeleine is a Fellow of the Institute of Physics, a Senior Member of IEEE and on the Board of Governors of the IEEE Photonics Society. She is an associate editor of the IEEE Journals Photonics Technology Letters and the Journal of Optical Communications and Networking and is on the technical program committees for OFC and Hot Interconnects. She has published over 100 articles and conference proceedings.



Wednesday, March 7, 2012

Reception: 6:00; Light Dinner: 7:00; Talk: 8:00

Cost: \$30 (OSSC Student Members are Free!)

JW Marriott Hotel
900 West Olympic Boulevard
Los Angeles, CA 90015
213-765-8600

**Parking available at hotel and also at
Convention Center**

On-line Registration: www.osscc.org or
Contact: [Brent Bergner](#), OSSC Arrangements
Chair, Events@osscc.org, 949-260-9900 x33
Please Register by March 5, 2012