



**SAN FRANCISCO BAY AREA
NANOTECHNOLOGY COUNCIL**

January 2007 Seminar

Subject: Low-Cost Solar Cells Exploiting Solar Ink

**Speaker: Homer Antoniadis, Ph.D.
CTO Innovalight, Inc.**

Date: Tuesday, January 16, 2007

Time: Registration & light lunch 11:30am. Presentation & Q/A 12:00 to 1pm

Place: SEMI World Headquarters 3081 Zanker Rd. San Jose, CA.

Directions: Highway 101 to Montague Expressway East to Zanker Rd South; or Highway 880 to Montague Expressway West to Zanker Rd. South to lobby entrance; or use an internet map service.

Cost: Members and Students \$5. Non-Members \$10

RSVP: nickmassetti@ieee.org **Web link:** www.ieee.org/nano

Talk Abstract:

Dr. Antoniadis will present a novel concept for low cost solar energy production using silicon nanotechnology. With a mix of nanotechnology, proven silicon reliability, and ink formulations, the company is developing a low-cost manufacturing platform to reduce the cost of producing electricity compared to current technologies. He will examine the promise of taking current polysilicon-based solar cells to a completely new level of cost. The high cost of production of solar cells today has been one of the major factors inhibiting the overall growth of solar energy as a market. Innovalight's silicon nanocrystalline ink holds the promise to bring flexible solar panels to less than \$0.40 per watt, nearly an order of magnitude improvement on today's polysilicon technology.

Speaker Biography:

Dr. Homer Antoniadis is the Chief Technology Officer at Innovalight, Inc. a venture-funded technology startup developing disrupting solar power generating products based on nanosized silicon. Prior to Innovalight Dr. Antoniadis was the Head of OLED product development at OSRAM Opto Semiconductors Inc. and the Program Director of the US Department of Energy program for developing light sources from light emitting polymers. He held positions at Xerox Corporation and as a principal research engineer/member of the OLED team at Hewlett-Packard Labs.

Homer has a PhD and MS in Physics from Syracuse University, and a BS in Physics from Ioannina University, Greece.