



SCV Power & Energy and Industry Applications Society



Subject: **The Promise of Concentrators**
Speaker: **Steve Horn, CTO & Cofounder of SolFocus**

WEDNESDAY, May 20, 2009

Time: Dinner 6:00 PM, Presentation 7:00PM

Place: Coco's Restaurant, 1206 Oakmead Pkwy, Sunnyvale, (408) 736-2895

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Cost: \$25.00 IEEE members, \$30.00 nonmembers, \$10.00 students

IEEE Receipts will be available. No cost for the presentation.

THE PROMISE OF CONCENTRATORS

By concentrating sunlight onto a small area of high-efficiency solar cell material, concentrator systems dramatically reduce the amount of expensive and often supply-constrained solar material used in photovoltaic energy systems. This talk will introduce photovoltaic concentrators and their role in the greater world of renewable energy. A mostly technical approach, it will cover their operation, a little history and the breakthroughs that made them economically viable. Their characteristics and advantages will be covered, and it will wrap up with a summary of SolFocus' experience in the field.

Steve Horne, Chief Technical Officer

Steve Horne's technical and entrepreneurial background spans multiple disciplines including power generation and transmission, semiconductor test equipment design and manufacture as well as research in advanced renewables technology. Before co-founding SolFocus, Steve was the Director of Engineering at GuideTech, a leading semiconductor test equipment company, and had previously spent six years running a technology consulting firm known as Tuross Technology. He served as Vice President of Engineering at Ariel Electronics, where he was responsible for acquisition of company funding as well as integration of engineering disciplines ranging from mechanics, software, electronics and chemistry. His early-career experience includes commissioning two 500MW steam generated power plants in New South Wales, Australia.

About SolFocus

SolFocus has developed leading concentrator photovoltaic (CPV) technology which combines high-efficiency solar cells (approaching 40%) and advanced optics to provide solar energy solutions which are scalable, dependable and capable of delivering on the promise of clean, low-cost, renewable energy. They have multiple projects underway that exceed 10MW and are responsible for some of the largest concentrating PV deployments in Europe.