

**USC Solar Tour Agenda**  
**Monday, July 25<sup>th</sup> 2011**  
**San Diego, California**



Please note: All Solar Tour Participants must have a picture ID to access the secure sites.

| <b>Time</b>      | <b>Tour Event</b>  |
|------------------|--|
| 8:00 AM          | Assemble for Departure in Hotel Lobby  |
| 8:10 AM          | Bus Departs  |
| 8:30 – 9:30 AM   | <p align="center"><b>University of California at San Diego</b></p> <p><i>Our tour will start off with a walk to the UCSD Sustainability Resource Center and a viewing and explanation of the new PV-powered DC-DC wireless lighting system that integrates directly into the ceiling grid. The group will also tour the Gilman Parking Structure and see the electric vehicle charging station and the Solar Trees project where we will hear about the funding for the project and the lessons-learned. We will re-board the bus to go to the next sites.</i></p> |
| 9:40 – 10:30 AM  | <p align="center"><b>University of California at San Diego</b></p> <p><i>Next stop will be a visit to the university's Sanyo PV/Energy Storage site and a presentation by Dr. Jan Kleissl on his work in Solar Forecasting. From there the tour will visit the Energy Park, view the Soitec concentrating PV tracker systems, and hear about the 830 additional off-campus solar projects and the funding sources for this project.</i></p> <p><b>Speakers:</b> See biographies at the end of this document</p>  |
| 11:00 – 12:00 PM | <p align="center"><b>SDG&amp;E's Eastern Operations Center</b></p> <p><i>Dr. Frank Goodman will discuss the two solar research projects that are housed here: Infinia's PowerDish and a concentrating PV project by Solfocus. These concentrating solar prototypes represent the cutting edge of solar technology, and a view of the possible future of clean generation.</i></p>  |
| 12:30 – 1:30 PM  | Lunch (at SDG&E Skills Center)   |
| 1:30 – 2:00 PM   | <p align="center"><b>SDG&amp;E Skills Center</b></p> <p><i>Join us at SDG&amp;E's Skills and Training Facility where every one of SDG&amp;E's linesmen train and hone their skills while learning the tricks of the trade. While at the Skills Center, enjoy a look into the future of the solar industry at the Pyron Solar prototype. President and COO of Pyron, Stephanie Rosenthal, will join Dr. Frank Goodman to discuss this innovative method of harnessing the sun's energy. We will then re-board the bus for the next site.</i></p>                    |
| 2:15 – 3:15 PM   | <p align="center"><b>SDG&amp;E's Mission Control and Distribution Center</b></p> <p><i>Take a behind the scenes look at what keeps the lights on in San Diego. At SDG&amp;E's Mission Control and Distribution Center, you will see the high tech nerve center of San Diego's electric procurement and learn what it takes to keep America's Finest City lit, with Laurence Abcede, the electric distribution and operations training manager.</i></p>   |
| 3:30 – 4:00 PM   | The bus will return to the hotel   |

## ***Speaker Biographies***

### **Laurence Abcede, Electric Distribution and Operations Training Manager, San Diego Gas & Electric**

Laurence Abcede has overall responsibility for the operations with the Distribution Control Center. He is also a Subject Matter Expert and Operations Team Lead with SDG&E's Operational Excellence Projects, Summer Preparedness Team and the SDG&E Smart Grid Development Plan. Laurence graduated from Cal Poly San Luis Obispo, with a B.S. in Electrical Engineering, and he is a registered Professional Engineer in the State of California.

### **Dr. Frank Goodman, Jr., Senior Technology Development Advisor, San Diego Gas & Electric**

Dr. Goodman has over 35 years of experience in the electric utility business and has created and managed major programs in renewable resources and smart grid development, while in various positions that he has held with SDG&E, the Electric Power Research Institute (EPRI), and the Los Angeles Department of Water and Power. He did seminal work over the past 14 years in launching the concept of what has come to be called smart grid. He launched EPRI's first two smart grid programs, and he has chaired major international standards groups in the smart grid area. He holds B.S., M.S. and Ph.D. degrees in Electrical Engineering, an M.B.A., and is a registered Electrical Engineer in the State of California.

### **Kristin Hansen, Sustainability Program Analyst, Auxiliary & Plant Services, University of California, San Diego**

Kristin Hansen is a Sustainability Analyst at UC San Diego where she helps coordinate, track and analyze campus sustainability as well as manage the Sustainability Resource Center. Prior to joining UC San Diego, Kristin served as Point Loma Nazarene University's first Sustainability Coordinator. In 2011, she received both a UC San Diego Exemplary Staff Employee of the Year award and the UC San Diego Sustainability Staff Award. She received her B.A. from Cal Poly San Luis Obispo and M.B.A. from Point Loma Nazarene University.

### **Dr. Jan Kleissl, Assistant Professor, University of California, San Diego**

Kleissl is an assistant professor at the Dept. of Mechanical and Aerospace Engineering at the University of California, San Diego (UCSD) and Associate Director, UCSD Center for Energy Research. Kleissl received a Ph.D. in 2004 from Johns Hopkins University in Environmental Engineering and joined UC San Diego in 2006. Kleissl supervises 12 Ph.D. students and 3 Masters students who work on solar power forecasting, solar resource model validation, and solar grid integration work funded by DOE, CPUC, NREL, and CEC. Kleissl teaches classes in Renewable Energy Meteorology, Fluid Mechanics, and Laboratory Techniques at UC San Diego. Kleissl received the 2009 National Science Foundation CAREER Award and the 2008 UC San Diego Sustainability Award.

### **Stephanie Rosenthal, President and COO, Pyron**

Stephanie Rosenthal runs the day-to-day operations of Pyron and has over 15 years of manufacturing experience, including manufacturing UV/Electronic systems with a focus on efficient automotive manufacturing solutions. She received a 2-year coaching in German automotive manufacturing solutions by Volkswagen. Stephanie holds a B.A. in Economics from the University of Aachen, Germany.

### **Dave Weil, Director for Sustainable Operations, University of California, San Diego**

Dave Weil has 27 years managing major facilities, energy and transportation programs. After retiring from the Navy, he became Director of Programs for San Diego's Regional Energy Office, managing regional energy efficiency, Green Building and distributed generation and renewable energy programs.

Currently, Dave is UCSD's Director for Sustainable Operations, managing the campus Sustainability Program Office, renewable energy, water conservation, sustainable fleet and Green Building initiatives.

Dave is a registered Professional Engineer and has an M.S. in Ocean Engineering and a B.S. in Civil Engineering.