Dear Solar Professional

Solar Energy will be the mainstay of the future global energy mix. According to an IEA analysis, under specific assumptions, solar energy could provide up to 1/3 of the world’s total energy demand after 2060. During the last decade, solar photovoltaics was the fastest-growing renewable power technology worldwide. Today more than 100 GW of PV are installed. Driven by significant cost reductions experienced especially over the last few years, solar has developed into a financial, as well as environmentally attractive option for an increasing number of countries around the world, prompting these countries to aggressively pursue the accelerated local deployment of solar applications.

With this backdrop, we would like to cordially invite you to attend North America’s premier exhibition and conference for the rapidly growing global solar industry. Exceeding more than 20 years of unparalleled experience, Intersolar is internationally recognized as the world’s leading brand for solar events – spanning four continents, hosting around 3,000 exhibitors, and attracting 100,000 visitors per year.

Since its inauguration six years ago, Intersolar North America in San Francisco has a proven track record as the most important global meeting place for solar professionals in this region. Intersolar North America is co-located with SEMICON West, the premier exhibition of the microelectronics industry. It remains the undisputed event with the highest attendance throughout the U.S. solar market.

Be part of a world-class conference program at the InterContinental Hotel adjacent to San Francisco’s Moscone Center and take advantage of this unique opportunity to network with leading international industry experts and decision makers. In 2012 more than 1,500 conference attendees from 38 countries participated in the Intersolar Conference and benefited from a wealth of experiences shared by 324 well respected speakers. Delegates of the conference and its associated events will gain vital insights into all aspects of today’s dynamic global solar industry. Our distinguished speakers and international experts will share crucial information, experiences and assessments concerning the current state of the solar industry and cutting edge technologies throughout more than 50 sessions, workshops, seminars and lectures. The conference program covers the latest technological advancements across the value chain, featuring energy storage, manufacturing, market, policy, and financial issues.

Yours sincerely,

Eicke Weber
Professor Dr. Eicke R. Weber
Conference Committee Chairman
Director, Fraunhofer Institute ISE
## Monday, July 8, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>9:00am–10:30am</td>
<td>The Solar Asset Symposium: Emerging Trends, Tools and Standards (Part 1)</td>
</tr>
<tr>
<td>11:00am–12:30pm</td>
<td>The Solar Asset Symposium: Emerging Trends, Tools and Standards (Part 2)</td>
</tr>
<tr>
<td>1:30pm–3:00pm</td>
<td>The Solar Asset Symposium: Emerging Trends, Tools and Standards (Part 3)</td>
</tr>
<tr>
<td>3:30pm–5:00pm</td>
<td>The Solar Asset Symposium: Emerging Trends, Tools and Standards (Part 4)</td>
</tr>
<tr>
<td>5:30pm–7:00pm</td>
<td>Official Opening Ceremony</td>
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### Workshop Schedule
- **Photovoltaics Package**
- **Full Conference Package**
- **Solar Heating & Cooling Package**

## Tuesday, July 9, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</thead>
<tbody>
<tr>
<td>9:00am–10:45am</td>
<td>Crystalline Silicon PV</td>
</tr>
<tr>
<td>11:15am–1:00pm</td>
<td>Thin Film PV</td>
</tr>
<tr>
<td>2:00pm–3:45pm</td>
<td>Novel PV Cell Concepts</td>
</tr>
<tr>
<td>4:15pm–6:00pm</td>
<td>PV Modules and Systems</td>
</tr>
<tr>
<td>5:00pm–10:00pm</td>
<td>Solar Summerfest (Metreon Rooftop)</td>
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</tbody>
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### Workshop Schedule
- **Power Electronics for Photovoltaics**
- **Advanced Grid – Connected PV System Topics (6 NABCEP CEs)**

## Wednesday, July 10, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</thead>
<tbody>
<tr>
<td>9:00am–10:45am</td>
<td>Off Grid: Micro Grid Solutions &amp; Financing Models</td>
</tr>
<tr>
<td>11:15am–1:00pm</td>
<td>Financing: Business Models</td>
</tr>
<tr>
<td>2:00pm–3:45pm</td>
<td>The Future for Utility Scale and Medium Size Solar Projects in Latin America (Part 1)</td>
</tr>
<tr>
<td>4:15pm–6:00pm</td>
<td>The Future for Utility Scale and Medium Size Solar Projects in Latin America (Part 2)</td>
</tr>
</tbody>
</table>

### Workshop Schedule
- **Designing Grid – Connected PV Systems (4 NABCEP CEs)**
- **Ground-mounted Solar Farms (4 NABCEP CEs)**

## Thursday, July 11, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am–10:45am</td>
<td>Future of PV: Technology &amp; Market Outlook</td>
</tr>
<tr>
<td>11:15am–1:00pm</td>
<td>CEO Panel</td>
</tr>
</tbody>
</table>

### Workshop Schedule
- **Full Conference Package**
- **Photovoltaics Package**
- **Solar Heating & Cooling Package**
- **Full Day Workshop**
WARD CEREMONY

The prestigious Intersolar AWARD 2013 prizes for “Solar Projects in North America” and “PV Production Technologies” will be presented at an official ceremony at Intersolar North America. Don’t miss out the stars of the industry!

Location
Innovation & Application Stage
Booth 9659, Level 3, West Hall
Tuesday, July 9, 2013, 3:00pm

SIDE EVENTS

- OutBack Power’s Certificate Training Program
  → http://www.outbackpower.com/resources/certificate_training/
- Solar America Board for Codes and Standards Stakeholder Meeting
  → http://solarabcs2013.eventbrite.com
- Solectria Renewables Commercial & Utility-Scale Inverter Training
  → http://ow.ly/jhxyS

REGISTER AT → www.intersolar.us Program Registration

BUS TOURS

Join us on Monday or Thursday for a bus tour to some of San Francisco’s solar sites! The solar sites tour offers a great overview of San Francisco installations and is another way to see this exciting city.

Date/Time
Tour 1  Monday, July 8, 9:00am–1:00pm
Tour 2  Thursday, July 11, 9:00am–1:00pm

Meeting Point
InterContinental Hotel, Lobby, Level 1, 8:45am

REGISTER AT → www.intersolar.us Program Registration

SOLAR SUMMERFEST, JULY 9

This year’s theme for the event is “Welcome to the Golden State,” and we will be celebrating all that California is known for – the Surf and Sun, Hollywood, San Francisco, and Wine Country. With cocktails, complimentary beer, wine and appetizers in a unique rooftop setting overlooking downtown San Francisco, this is the perfect venue for unwinding from the day or to continuing networking. Held on the opening night of the show and be part of Intersolar’s and CALSEIA’s Solar Summerfest benefiting the Californian solar industry!

Date  Tuesday July 9, 2013
5:00pm–10:00pm

Location  CityView, Metreon Rooftop,
101 4th St. San Francisco,
(directly across the street from the exhibition hall)

REGISTER AT → www.intersolar.us Program Registration

PHOTOS: 1 Solar Summerfest is the official networking party at Intersolar North America. 2 Intersolar events attract around 3,000 exhibitors and 100,000 visitors per year.
The global market is dominated by crystalline silicon PV technology with a market share of about 90%, driven by significant cost reductions achieved especially during the last 2–3 years. This results in cost of solar electricity in sunny regions of well below 10 cts/kWh. Distinguished experts will introduce the latest low-cost and high-efficiency Si PV technologies available today and in the future.

**Prof. Dr. Eicke R. Weber**  
Director  
Fraunhofer Institute for Solar Energy Systems ISE, Germany

**Global PV Markets: North America**  
Penetration of PV in certain states in North America is reaching a level at which significant push-back is occurring from some sectors. Germany has already reached penetration levels nearly ten times higher than the highest North American state (New Jersey), but it too is experiencing push-back now. Intersolar is a vital opportunity for North American and European advocates to compare experiences and plan together for the future.

**Lyle K. Rawlings, P.E.**  
President  
Mid-Atlantic Solar Energy Industries Association, U.S.

**Thin Film PV**  
With Polysilicon prices stabilizing followed by leveling of cost of Crystalline Silicon Solar modules, thin film photovoltaics can offer opportunities for further cost reduction. Learn about recent advances in CIGS, CdTe, amorphous Silicon and thin Crystalline Silicon and how these are paving the way for the next generation of low cost modules.

**T.S. Ravi**  
Founder & Chief Executive Officer  
Crystal Solar Inc., U.S.

**Solar Heating and Cooling**  
Intersolar North America is a great opportunity for networking and for getting up-to-date information on technology, policy and market developments. This is particularly important in the current market conditions for solar heating and cooling across North and South America.

**Lucio Mesquita Ph.D.**  
Managing Director  
Thermosol Consulting, U.S.

**Energy Storage**  
Increasing numbers of PV systems in electricity grids require the integration of storage with different time scales to secure the feeding-in and to preserve the quality and reliability of the power supply. Battery systems can fulfil a wide range of these tasks and can be assembled, together with PV systems, in a modular way.

**Dr. Matthias Vetter**  
Head of Department  
PV Off-Grid Solutions and Battery System Technology  
Fraunhofer Institute for Solar Energy Systems ISE, Germany

**Accelerating PV Market Development Panel**  
The photovoltaic industry has experienced explosive growth of roughly 50% per year for the past decade. The coming decade will be critical to build the industry into a major component of energy generation worldwide. Innovations in solar cell science and in market tools will be needed during this critical next phase. Intersolar North America offers the most dynamic venue I know of, where academic, industry, and public officials meet, innovate, and design new approaches to build a sustainable solar future.

**Prof. Dr. Daniel Kammen**  
Professor of Energy  
University of California, U.S.

**Roundtable with California Policy Makers**  
CALSEIA is honored to host California’s leading energy policymakers and solar market experts at this year’s Intersolar policy forum. With a 12 gigawatt goal for distributed generation and a 33 % Renewable Portfolio Standard (RPS), this will be an excellent opportunity for companies to learn about how to profit in California’s current and future solar market.

**Les Nelson**  
Interim Executive Director  
California Solar Energy Industries Association, U.S.
Interested in making contact with established solar companies and find out about their products and innovations? Round off your conference experience with a visit to the exhibition next door! Your conference registration grants you full access. Engage with 19,000 professionals and 650 exhibitors and take an in-depth look at the industry’s hottest topics at our free workshops, special exhibits and special events on the show floor!

**Energy Storage in the Spotlight**
To underscore how important storage solutions are for the future energy supply and based on the strong informational demand from 2012 attendees, Intersolar created a dedicated exhibition segment this year: Energy Storage. This segment is specifically reserved for exhibitors showcasing storage solutions that range from battery storage to combinations of various storage systems to large energy storage solutions. With energy storage playing an increasingly important role in the market, it is a priority to highlight the latest energy storage innovations and business strategies as part of the entire system of solar technology at the show in San Francisco.

**PV ENERGY WORLD**
It is vital to stay ahead of industry shifts and market momentum. The new Energy Storage exhibition segment will be accompanied by the PV ENERGY WORLD stage where experts, partners and exhibitors will offer insights into the state-of-the-art technologies and market incentives. Intersolar is proud to join with the Fraunhofer Institute in a scientific partnership for presentations around the topic storage on Tuesday and Wednesday. Thursday is reserved for presentations focusing on PV manufacturing issues (presented by VDMA).

**PV ENERGY WORLD Stage**
**Location** Booth 8040, Level 2, West Hall
**Partner** Fraunhofer Institute, VDMA, SEMI

Intersolar’s second stage — Innovation & Application — will feature presentations and free training programs. Exhibitors present their innovations through 30-minute presentations. The practical workshops will be held for industry insiders, practitioners, installers and system integrators to exchange expertise and experiences.

**Innovation & Application Stage**
**Location** Booth 9659, Level 3, West Hall
**Partner** NABCEP, Solar Energy International, QuickMount PV, SolarSpies

Attendance of both stages is included within the conference and exhibition entry fee!

**E-Mobility Special Exhibit**
Keep up with E-Mobility solutions: combination of PV carports—charging stations—electric vehicles! A growing trend in the PV market is the use of solar carports. Residential and commercial customers are embracing solar carports because they not only generate clean electricity, but also shade parking lots during the day. Additionally, electric vehicles play a key role in renewable energy systems. Their batteries can store electricity and, in turn, stabilize the grid. Learn all there is to know from the latest in technologies and strategies shaping the eMobility sector of the solar market.

**Location** Booth 7657, Level 1, West Hall
**Sponsors**

**PHOTOS**: 1 Intersolar North America is an important meeting point for visitors from all over the world. 2 E-Mobility solutions will be presented on level 1 of Moscone West.
INTERNATIONAL CONFERENCE QUICK FACTS

**Dates**
July 8–11, 2013

**Hours**
Monday, July 8, 2013
9:00am–7:00pm
Tuesday, July 9, 2013
Wednesday, July 10, 2013
Thursday, July 11, 2013
9:00am–6:00pm

**Venue**
InterContinental Hotel San Francisco
888 Howard Street
San Francisco, CA 94103

**Speakers**
200

**Attendees**
1,600

**Registration**
Early Bird Rates: until June 7th
Regular Rates: until July 5th
On-site Rates: July 6th

On-site registration opens daily at 8:00am
Online registration is available at [www.intersolar.us](http://www.intersolar.us)

**Program at:**
[www.intersolar.us](http://www.intersolar.us) → Program

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**CONFERENCE COMMITTEE**

**Conference Committee Chairman**
Prof. Dr. Eicke R. Weber, Director, Fraunhofer Institute for Solar Energy Systems (ISE)

**Advisory Board**

**Industry Board**
David Arfin, Founder & Chief Executive Officer, First Energy Finance | Dr. Gordon Brinser, President, SolarWorld Industries America | Clark Crawford, Vice-President Sales and Business Development USA, Soitec | Sven Kramer, Sales Director Photovoltaics, Bürkli | Dirk Morbitzer, General Manager, Renewables Analytics | T.S. Ravi, Founder & Chief Executive Officer, Crystal Solar | Dr. Florian Wessendorf, Managing Director PV-Production, German Engineering Federation (VDMA) | Jürgen Wild, Chief Executive Officer, M+W Group GmbH | Dr. Peter Wohlfart, Head of Research and Development, SINGULUS TECHNOLOGIES AG