

Monday, June 1 - Wednesday, June 3, 2009 Hotel Kabuki, San Francisco, CA, US www.photovoltaicssummit.com



# early bird registration offer

Book through April 24, 2009 and save 10% on your registration

Online: www.photovoltaicssummit.com

Tel: +1 207 781 9618

**Email**: brian.santos@pira-international.com

Don't miss the pre-conference seminars on Monday, June 1, 2009:

An Introduction to Photovoltaics Technology:
Research, Development, Systems and Applications and
PV Markets and Supply Chains: A Global Outlook

# Photovoltaics Summit 2009



- Get updated on the state of the industry and market outlook
- Find out where venture capitalists are investing and how you can capitalize
- Learn about the movement to make PV economical through Power Purchase Agreements (PPAs) and Feed-in Tariffs
- Analyze progress toward achieving grid parity
- Identify how key players are balancing costs and efficiency
- Increase your understanding of silicon supply and new developments in PV manufacturing
- Discover what's new in crystalline silicon, thin film and future generation PV technologies

Hear what participants had to say about

## **Photovoltaics Summit 2008:**

"This was the most inspiring and thought-provoking professional conference I have ever attended." **Bressler Group** 

"Is a must if you are in the industry." Greenergyze

"Very good market insights into the future." Hi-Res Consulting

"A great way to network within the PV industry and to get up to speed on trends." **Mazzetti & Associates** 

"Good networking opportunity for VCs." **TEL Venture Capital Inc** 

# Who should attend?

- Presidents, CEOs and CTOs
- Utility executives
- Materials suppliers
- Researchers
- Designers
- Cell and module manufacturers
- Project managers
- System integrators and installers
- Component and equipment manufacturers
- Commercial end users
- Venture capitalists and investment bankers
- Business development directors
- Sales and marketing executives

# industry overview

Overall growth in the solar industry will be strong through 2012 and beyond. Growing support from international governments will result in new programs and increasing economies of scale, driving down prices and incentives for both large-scale and residential consumers of solar energy. These factors are combining to ensure that the stop/start nature of the solar industry, a characteristic right up to the middle part of the first decade of the 21st century in places like California, is now a thing of the past\*

Over the next 25 years, solar energy is expected to be the fastest-growing source of renewable electricity.\*\* However, to replace electricity generated from fossil fuels, photovoltaic technologies must first achieve grid parity. To meet this goal, PV system costs must be reduced, but not at the expense of efficiency or lifetime. This challenge demands thorough analysis of the factors impacting cost, such as the silicon supply shortage and balance-of-system (BOS) components as well as informed discussion of the best way forward, through examination of incentive programs, competing technologies, innovative financing and the potential for bringing down BOS costs. These topics and more will be addressed at

## **Photovoltaics Summit 2009.**

\*IntertechPira, The Future of World Solar Power Markets to 2012
\*\*Forbes

# about the conference

Last year's 3<sup>rd</sup> annual **Photovoltaics Summit** grew by more than 35% since it's previous year and has become well known in the industry for the high quality of the presentations and conference experience. IntertechPira's 4<sup>th</sup> annual **Photovoltaics Summit** will provide an updated, in-depth forum for new developments to be shared and is designed for those with a background in the technology as well as relative newcomers to the field. We welcome back old friends and look forward to making new ones at the premier annual photovoltaics industry event.

This year's program will bring together industry experts, researchers, investors and end users to address the opportunities and most critical challenges for the commercialization of PV technologies. With 28 presentations, including two parallel tracks for a deeper understanding of materials and manufacturing and utility-scale solar initiatives; one panel discussion with corporate solar consumers; two half-day seminars and numerous networking functions, this important technical and business conference is the year's must-attend event for anyone interested in the advancement of photovoltaics!

# pre-conference seminars

# **An Introduction to Photovoltaics Technology: Research, Development, Systems and Applications**

Monday, June 1, 8:00am - 12:00pm

(Separate fee required)

This seminar will be conducted in two parts. The first part will focus on PV technology from a researcher's perspective.

## Key topics to be covered include:

- Basic physics behind solar cell operation
- Definition of important terms in the hierarchy of PV components
- · International standards for measurement and reporting of cells, modules and systems
- · Co-requirements for policy and technology investments

Advances in cell, materials and module options will be examined, with indications of the limitations and strengths of crystalline, thin-film and very high efficiency concentrator technologies. The contributions and technological pathways for silicon, III-V and thin film technologies as well as status and forecasts for organics, nanotechnologies and non-conventional junction approaches will also be evaluated.

The second half of the seminar will build from the insights gained about PV technology to enhance participants' understanding of the solar resource and how it is used in system design; the environmental benefits and drawbacks of PV systems and how PV can be deployed with maximum effectiveness and minimal cost. Researchers, technology leaders, venture capitalists, utility executives and other decision-makers, facility managers and students are encouraged to attend.

## Your seminar leaders



# **Dr Tom Surek, PV Consultant** and former PV Program Manager of NREL, US

Dr Thomas (Tom) Surek is an independent consultant with more than 35 years of experience in the

photovoltaics field. He is an early pioneer in terrestrial photovoltaic research in the United States. Prior to starting his consulting business in July 2007, Dr Surek worked 29 years at the National Renewable Energy Laboratory (NREL) and its predecessor, the Solar Energy Research Institute, in Golden, Colorado, where he was Manager of the Photovoltaics Program.



## John Thornton, Consultant THORNTON SOLAR CONSULTING, US

Mr Thornton has been in the solar business for 44 years, 28 years of which were spent at NREL During

his time at NREL, he was a Principal Engineer in the National Center for Photovoltaics and led the Domestic PV Applications Development Group. Known in the industry as "MR PV", he left NREL in June 2006 to consult in solar technologies as well as sustainable buildings and communities. He is an Emeritus at NREL, which in his opinion is the finest research organization in the world.

## **PV Markets and Supply Chains:** A Global Outlook

Monday, June 1, 1:00pm - 5:00pm

(Separate fee required)

This seminar will be held in two parts, with a focus on global PV market development, supply and demand and funding opportunities.

#### Part 1

- Global PV market development and its effect on the German PV market
- · Market intermediaries: Importance of wholesalers and installers
- Market segmentation and the importance of end consumers

#### Part 2

- · Supply history, with a focus on the US and its current position
- · Demand history, application growth, sales channels, pricing, incentives and business models
- R&D in the US, funding, private and public
- Forecast

### **Your seminar leaders**



Paula Mints, Principal Analyst **PV Services Program** and Associate Director, **Energy Practice NAVIGANT CONSULTING, US** Ms Mints is the Principal Analyst

for the PV Service Market Research Program and an Associate Director located at Navigant Consulting, Inc's Palo Alto, CA, office. Ms Mints also serves as primary author and Executive Editor of the Solar Outlook Quarterly Newsletter. The PV Service Market Research Program is a 30-year-old, globally recognized market research practice. Ms Mints is widely recognized as an industry expert on photovoltaic (PV) technologies and markets. She provides NCI clients with objective and comprehensive PV industry analysis based on extensive primary research, including her forward-looking understanding of market and technology trends.



# Daniela Schreiber, Head of **Research Operations EUPD RESEARCH, GERMANY**

Daniela Schreiber is Head of Strategic Operations of the leading solar research institute EuPD

Research located in Bonn and Kansas. During the last four years, she was involved in numerous research projects and has gained profound experience in worldwide PV markets. EuPD Research has conducted more than 250 projects in the field of PV globally and is well known for in-depth international PV market analyses for governments, investors, associations and companies. She holds a Masters Degree in Communication Science and Economics and studied at the University of California Berkeley as well as at the London School of Economics and Political Science.

# Day 1 - June 2, 2009

### Materials and manufacturing overview

7:30 Registration and continental breakfast

Opening remarks from the Co-Chairs 8:30 Jean Posbic. Director of Projects BP SOLAR, US Tom Surek. PV Consultant and former PV Program Manager NREL, US

## The future of crystalline silicon module manufacturing

- · Crystalline silicon, the choice for PPAs
- · Manufacturing cost analysis
- · Distributed module assembly for lowest systems costs

Roger Little, Chairman and CEO SPIRE CORPORATION, US

### Rapid development of cost efficient, high efficiency manufacturing processes

- · Paths to high efficiency
- Organizing for rapid development
- Managing rapid deployment

Dr Stephen Shea, VP Manufacturing SUNIVA, US

#### Adaptive solar ingot manufacturing to meet market demand

- · Solar specific solutions
- · Economic downturn, rapid market shifts
- · Industry flight to quality
- Importance of modifiable manufacturing processes

Bob Ford, CEO SOLAICX, US

10:25 Morning networking and refreshments break

## 10:45 Mass production of silicon-based PV products in India

- · High volume manufacturing
- Crystalline silicon PV
- · Thin film silicon PV
- PV research and development at Moser Baer

Dr Gopalan Rajaswaran, President and CTO MOSER BAER PHOTOVOLTAIC LTD, INDIA

### 11:20 Status and perspectives of the poly Si supply and technology for the PV industry

- · Overview of the poly Si supply
- · Examples and success criteria for new poly Si factory projects
- Technology review and new pathways to manufacture solar grade Si

Dr Peter Fath, Managing Director GP SOLAR GMBH, GERMANY

## 11:55 Amorphous and nano-crystalline thin-film silicon

- PV world market
- · Uni-Solar technology and manufacturing status
- · Products
- Future plans

Dr Subhendu Guha UNITED SOLAR OVONIC, US

12:30 Lunch will be served for speakers and delegates

# supporting association spotlight

**Photonics Online** is the leading online community serving the information needs of professionals in the optics and photonics industry as a one-stop-site covering news, technical articles and updates on optics and photonics products. Visit www.photonicsonline.com to join their community and discover where the future of photonics is found.

## www.photonicsonline.com



# Day 2 - June 3, 2009

#### Track 2: Thin film and organic photovoltaics: Track 1: Market overview, government updates and **Corporate solar: The voice of the consumer** financing opportunities PV performance and innovations ALTA TERRA SPECIAL SESSION Session introduction: Corporate solar issues 7:30 Continental breakfast Continental breakfast and outlook 8:30 Opening remarks from the Co-Chair · PV is an increasingly "mainstream" market, with large Opening remarks from the Co-Chair Jean Posbic, Director of Projects commercial buyers Tom Surek, PV Consultant and BP SOLAR, US • Focus on firsthand information on how corporate former PV Program Manager decision-makers have approached solar power How does solar power figure in near-term and 8:40 Creating PV markets: Policies that spur industry Thin film PV drives economic viability long-term corporate strategic energy plans? What worked in California's major policy initiatives **Dr Christopher Constantine, Director of New Technology** Jon Guice, PhD, Managing Director of Research ALTA TERRA RESEARCH NETWORK, US · How San Francisco and other municipalities are going solar **OERLIKON SOLAR, US** · New policies and initiatives to watch for in the US **David Hochschild, VP External Relations** 2:05 **Solar in New England from conception** SOLARIA, US to completion Permits, stakeholder buy in and nay-sayers New form factors for clean energy 9:15 European PV markets: Challenges ahead · Return on investment, why the math works Design applications for solar nano-materials Market overview · Obstacles, anticipated and unforeseen New market opportunities (Eastern Europe) Innovative portable and BIPV design solutions • PV, PR it's all in the message Addressing ongoing challenges Thin film 'flexibility" and performance metrics Paul Comey, VP of Environmental Affairs · Customer expectations and requirements Next generation energy harvesting textile structures **GREEN MOUNTAIN COFFEE ROASTERS, US** Sheila Kennedy, Professor of Architecture, MIT and Principal, KVA, MATX, US **Daniela Schreiber, Head of Research Operations EUPD RESEARCH, GERMANY** Outside the "big box" 2:40 • Big box programs and systems 9:50 **Expanding the opportunity for PV with** The Clean Energy Project: Distributed computing for · Pre-designing for panel array concentrator technology organic photovoltaic materials · Windload considerations • Removing the limitations of efficiency improvements Theoretical studies of organic photovoltaic materials Embracing system visibility · Rapid scalability to meet expanding demand Volunteer-based computing The complicated roof · The breakthrough criteria Combinatorial property searches Kelly Mills, VP Store Development Gary Conley, Chairman SOLFOCUS, US Alàn Aspuru-Guzik, Assistant Professor WHOLE FOODS MARKET, US HARVARD UNIVERSITY, US 10:25 Morning networking and refreshments break Morning networking and refreshments break 3:15 Afternoon networking and refreshments break Finance opportunities for onsite solar energy projects Laser processes and concepts for industrial solar cell Gatorade goes solar Richard A Schutzenhofer, VP Engineering, 3:35 · Overview of the distributed solar power concept and market production • Detailed explanation of power purchase agreements (PPAs) Solar laser applications Technology and Sustainability · Financial model for PPA projects, including renewable energy · "Tailored" laser development PEPSI AMERICAS BEVERAGES, US Roland Mayerhofer, Application Manager, • Origination of financing and financial aspects of construction **ROFIN-SINAR INC, US** 4:10 It's not easy being Green and operation phases of such projects What is Green?Current challenges of becoming Green Case studies and completed projects Sheldon Kimber, VP of Finance Safeway's approach RECURRENT ENERGY, US · How to make Green - Green **George Waidelich, VP Energy Operations** Outdoor testing, analysis and performance predictions of PV technologies 11:20 Surviving the economic downturn through PPAs SAFEWAY INC, US · Finding alternative means to fund solar projects in an economic downtum Outdoor vs indoor measurements PANEL DISCUSSION 4:45 Panel discussion with the session speakers · Overview of third-party PPA finance models · Analyzing and modeling outdoor data Submit a question on topics most important to you to our · What to expect from the new administration · Validating or fault finding device performance panel of experts. To submit your questions, e-mail Jessica Extracting coefficients · How to take advantage of the opportunities provided by . Johnson at: jessica.johnson@pira-international.com • Understanding differences between modules PPAs and other incentives Paul Detering, CEO · Checking performance limitations Closing remarks from the Co-Chairs 5:25 TIOGA ENERGY, US Steve Ransome, Associate Consultant INTERTECHPIRA, UK 5:40 **Networking cocktail reception** How a successful Feed-in Tariff (FiT) system will Micro-inverters: The merits of a distributed architecture 11:55 All speakers and delegates are invited to this relaxed and informal reception to network and discuss the day's stimulate the growth of PV industry for PV systems

# supporting association spotlight

**VB/Research** is a leading global source of research and deal intelligence on venture capital and private equity funds and their investments, M&A and the public capital markets in the Clean Technologies and Renewable Energy space.

By focusing on fundraisings currently marketed, acquisition targets, M&A opportunities and upcoming IPOs we deliver actionable intelligence that provides insight into tomorrow's industry leading companies. In addition, VBR's research platform offers the most accurate and comprehensive databases tracking deals and investors in all asset classes including private placements, buyouts, PIPEs, M&A and IPOs since 2002.

## www.vbresearch.com

proceedings



# Movement toward the adoption of utility-scale solar

12:30 Lunch will be served for speakers and delegates

Jessica Glenn. Market Analyst

Economic analysis of implementation of FiT Demand analysis and benefits

GLOBAL MARKET CONSULTANTS INC, US

### 1:30 Smart grid evolution

- The electric grid: Today and tomorrow
- Distributed generation integration
- IEEE interconnection standards

#### Richard DeBlasio, Principal Laboratory Program Manager, Electricity Programs NREL. US

## 2:05 Accelerating to utility-scale solar

· Policies and incentives

- How can solar compete in wholesale energy markets?
- Changing solar economics with accelerated scale-up
- Skills and processes needed for rapid entry to utility markets

# Dr Keshav Prasad, VP Business Development SIGNET SOLAR, US

### 40 Utility roles in PV development

· Micro-inverter system overview

CapEx and OpEx implications

Raghu Belur, VP Marketing ENPHASE ENERGY, US

What about reliability?

New proposed PG&E PV projects

Lunch will be served for speakers and delegates

- Overview of approach to solar development
- Key drivers for strategic approach
- · Background on solar contracting to date

• Energy harvest impacts of a distributed architecture

Aaron Johnson, Director of Energy Policy and Procurement Compliance PG&E COMPANY, US

# 3:15 Distributed generation photovoltaics for regulated utilities

- The process of rate basing DG PV
- The social benefits of utility ownership of DG PV
- How to defend DG PV in front of a public service commission
   Review of the various models of DG PV ownership that
- states are testing

  Jack Sautter, Research Fellow

Jack Sautter, Research Fellow
INSTITUTE FOR ENERGY AND THE ENVIRONMENT AT
UNIVERSITY OF VERMONT LAW SCHOOL, US

# Photovoltaics Summit 2009

# conference info

#### The venue

Hotel Kabuki is a premier Japanesestyle hotel in San Francisco with a Western touch. With its prime Japantown location and unique blend of Eastern and Western influences, Hotel Kabuki offers a calm and serene ambiance with numerous amenities throughout the hotel. Recently renovated in 2007, the new décor elegantly balances the refined beauty of the East and West. Guests will experience a sense of place that reflects both historic and worldly Japantown as well as the pulse of San Francisco. For the business traveler, various meeting rooms with full business support, including high-speed internet is available.

### Accommodation

Speakers and delegates are responsible for booking their own travel and accommodation. A limited number of rooms have been reserved for speakers and delegates wishing to stay at the **Hotel Kabuki** at a special rate of \$159 plus taxes. Rooms must be reserved no later than **May 11, 2009** to take advantage of this special rate. To book your accommodation, please contact the hotel directly at +1 800 533 4567. Please state that you're attending the IntertechPira **Photovoltaics Summit** conference to receive the preferential rate. Your conference registration confirmation will include a web link to facilitate your hotel reservation.



#### **Venue details**

Hotel Kabuki 1625 Post Street San Francisco, CA US 94115 Tel: +1 800 533 4567 Fax: +1 415 614 5498

http://www.jdvhotels.com/hotels/kabuki/

#### Conference fees

The conference fee includes entry to the conference sessions and the exhibition, conference proceedings CD, luncheons, receptions and refreshments. However, fees do not include delegate travel and accommodation. All credit card orders are processed at that day's £/E/\$ exchange rate at the time the transaction goes through. **PLEASE NOTE**: Credit card details will be necessary if your booking is made less than 10 days prior to the start of the conference, or if your invoice remains unpaid at the start of the event. Please see step 3 for further details. Where funds have not been received in advance, delegates will be required to supply credit card details at registration in order to gain entry to the conference. This credit card will be charged on-site and current exchange rates and bank charges will apply.

### Cancellations

Cancellations will be accepted and fees will be refunded (less 20% handling charge) only if made in writing and received ten working days before the event. Bookings cannot be cancelled or fees refunded thereafter. Substitutions may be made at any time, please notify Brian Santos at brian.santos@pira-international.com or  $+\ 1\ 207\ 781\ 9618$ .

#### Note

IntertechPira does not accept liability for any loss of or damage to the personal effects of delegates attending the conference. IntertechPira reserves the right to cancel, defer or modify the event proceedings without prior notice. If you have sent a booking to us and have not received confirmation, please contact Brian Santos at brian.santos@pira-international.com or + 1 207 781 9618.

### Visas

Delegates requiring visas should request a visa invitation letter from IntertechPira at the time of registering for the event, ensuring sufficient time is left for applications to be completed. Delegates are then responsible for contacting the relevant/appropriate embassy themselves. IntertechPira can do nothing further to assist in this process.

### Your conference organizer

IntertechPira provides events, training, online information and publications across a wide range of niche commodities and disruptive technologies affecting industry. Our 100% independent products are provided globally 24/7 and delivered by teams of independent experts at sites in Portland, Maine, US and London, UK through 20 specialized industrial platforms. Our core competencies are information on: research and product development; globalization and new markets; production methods; regulatory and compliance.

# **Exhibition and sponsorship opportunities**

IntertechPira's 4<sup>th</sup> annual **Photovoltaics Summit** offers a unique opportunity to showcase your products and services all while accessing the leaders in this industry. Depending on your goals and the level of sponsorship, a benefits package can be designed to target a narrow audience or a broad group and may include event recognition as well as publicity, marketing, promotional opportunities and complimentary event passes. For more information on our many exhibition opportunities that meet your business goals, please contact Brian Santos at: brian.santos@pira-international.com or +1 207 781 9618.



## **CONCENTRATING SOLAR THERMAL POWER 2009**

**June 4 – 5 , 2009**, Hotel Kabuki, San Francisco, CA, US **www.cstpower-conference.com** 

Following Photovoltaics Summit 2009, we are also pleased to announce the first annual Concentrating Solar Thermal Power 2009 conference and exhibition set for June 4 - 5, 2009 at the Hotel Kabuki. This event will address opportunities and challenges for large-scale solar electric generation through concentrated solar thermal (CST) technologies. CSTP 2009 will bring together the entire energy supply chain ranging from material suppliers to utilities to discuss and debate issues affecting widespread adoption of CSP as a reliable and cost competitive energy source. Topics of discussion will include the latest technology updates, an assessment on the utility scale solar market and current economic conditions, investment and federal incentive opportunities and real case studies on implementing concentrating solar thermal for large scale power generation. For more information visit www.cstpower-conference.com.



## **PHOTOVOLTAICS SUMMIT EUROPE 2009**

**30 June – 2 July 2009,** Crowne Plaza Rome St Peter's Hotel, Rome, Italy

Following the success of previous photovoltaics events in the US, IntertechPira is now bringing you the first **Photovoltaics** Summit Europe as June 2009 becomes PV Month across our conference event platform. Taking place in the beautiful, historical city of Rome on 30 June - 2 July 2009, this event will take stock of recent changes in PV markets across Europe, evaluate markets with in-depth expert analysis, and consider present and future investment trends. With a unique blend of market and technology focused content, the summit will also look at key technological developments across silicon, thin film, and organic PV. The Italian setting will provide a great opportunity to meet key players from the rapidly expanding Italian solar energy market as well as other European companies. Photovoltaics Summit Europe **2009** will follow our proven event formula and bring a fresh event to a new audience in Europe. For more information, please visit www.pvsummiteu.com.

Booking for multiple events gives you a significant discount and registrations are transferable to team members within the same company. Contact Brian Santos at +1 207 781 9618 or brian.santos@pira-international.com for complete promotional details.

# **New!** IntertechPira Webinars



Get the most out of your conference experience by attending one of our upcoming webinars! To find out more, go to www.intertechpira.com and click on the e-Learning tab for dates, times and topics.



# Photovoltaics Summit 2009

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# Attendees will receive strategic insights from:

AltaTerra Research
Enphase Energy
EuPD Research
Global Market Consultants
GP Solar GmbH
Green Mountain Coffee Roasters
Harvard University
IntertechPira
KV Architects
Moser Baer
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Solaria
Spire Solar
Suniva
Sun Works LLC
Thomton Solar Consulting

Tioga Energy

Whole Foods

**United Solar Ovonic** 

University of Vermont



Plus! Don't miss the pre-conference seminars on Monday, June 1, 2009: An Introduction to Photovoltaics Technology: Research, Development, Systems and Applications and PV Markets and Supply Chains: A Global Outlook



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  Fax us the form: +1 207 781 2150
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- Mail us: IntertechPira, 19 Northbrook Dr, Portland, ME US 04105
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# Photovoltaics Summit 2009 Conference Registration

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## 2 Event options and fees

#### Don't miss the early bird offer – book through April 24, 2009 and save 10% **Exhibition packages:** Choose your payment package: \$2500 Tier 1 package \$1349 Conference fee (through April 24th) Exhibit table + delegate registration3 Conference fee (after April 24th) \$1499 \$1500 Tier 2 package Team discount<sup>1</sup> contact us Sign up 3 or more colleagues and SAVE \$200 on each registration Contact Brian Santos at +1 207 781 9618 or Seminar 1 \$499 Seminar 2 \$499

Seminar 2 \$499 ☐ brian santos®pira international com

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Soft more information on our many exhibition and sponsorship opportunities that meet your business goals, please contact Brian Santos at 1+1 207 781 9816 bor brian santosia-international.com.

(For those who cannot attend)
Santos at +1 207 781 9618 or brian.santos@pira-interna
DISCOUNTS CANNOT BE USED IN COMBINATION

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US: IntertechPira, 19 Northbrook Drive, Portland, ME 04105, US
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Tel: +44 (0)1372 802262 / Fax: +44 (0)1372 802243 / www.intertechpira.com

# For further information on the conference please contact:

Registration, Exhibition Brian Santos/T: +1 207 781 9618/F: +1 207 781 2150

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