



nanomaterials SYMPOSIUM 2007

June 25 - 27, 2007 Brown Palace Hotel, Denver, CO, US

● PLASTICS ● COATINGS ● PROCESSING NANOMATERIALS ● PAPER ● PACKAGING ● PRINTING, INKS AND PIGMENTS ●



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- NanoReg News
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- Nano-Tex
- NASA Glenn Research Center
- National Institute of Standards and Technology
- Pira International
- Porter Wright Morris & Arthur LLP
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- Small Times
- US Army
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Plus! Don't miss the pre-conference workshop on Monday, June 25, 2007 **Nanotechnology for textiles**

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10 reasons to attend

- **Get the big picture:** hear from major players in global nanomaterials markets all in one event and learn how their developments can transform your products
- **Identify growth areas:** gain invaluable insight into the markets with the highest forecasted growth and those with immediate commercialization potential
- **Applying the knowledge:** discover the latest applications in new materials and composite structures
- **Expanding the usefulness:** learn how to inject greater functionality into your products from global market leaders in advanced chemicals, polymers and print
- **Unique industry insight:** understand NASA's perspective on nanomaterials and gain a prediction of the technology's trickle down effect from the aerospace perspective
- **Technology advances:** find out which technologies create more marketable properties in flexible and rigid composite structures
- **Process refinement:** gain practical steps to production and conversion of nanomaterials
- **Gauge the timescale:** assess the timeline for commercial development of various nanomaterials
- **Justify nanotechnology:** learn how nanotechnology can reduce costs and improve margins while still achieving superior product performance
- **Legislative context:** hear the very latest perspectives on regulations and the impact these have on the future development of nanomaterials

IntertechPira invites you to take part in our premier nanomaterials conference focusing on the latest end use developments and commercial applications. The program and pre-conference workshop will promote cross industry knowledge transfer and will be the ideal platform to gain industry allies throughout the nanomaterial supply chain.

By developing composites at the nano level, a wide array of mechanical, functional and aesthetic properties are reaching the commercial market and revolutionizing advanced materials and substrates across every major industry in the modern world. Industries as diverse as construction, textiles, packaging, forest products and automotive are reaping the benefits and functional enhancements created through nanocomposites. Nanotechnology not only offers product enhancements, it also creates completely new functionality to improve a product's competitive edge. At **Nanomaterials Symposium 2007**, you'll gain a thorough understanding on the latest breakthroughs in nanotechnology and learn how these new applications and solutions can assist in your product innovations and developments.

Who should attend?

Composite end users: brand owners, retailers, automotive, military, construction, packaging and paper manufacturers

Gain an exclusive insight into how composites can be enhanced through nanotechnology. You'll benefit from cross industry insights into cutting edge technology you can implement now and revolutionary new breakthroughs for the future. Get ahead of your competition by discovering how nanotechnology can enhance your business activity.

Chemical companies, nanomaterial developers and commercial suppliers of nanotechnologies

Gain an exclusive insight into new markets and improve your understanding of their needs and identify your opportunities.

Printing companies, press manufacturers and ink suppliers

Discover the real issues for nanotechnology in printing. Gain focus into time scales and feasibility for nano enhanced inks and materials. Get an exclusive insight into time scales for potential future markets and an understanding of what you need to do today and tomorrow to be ready for nanotechnology.

Nanomaterial developers and commercial suppliers of nanotechnologies

Forge new industry allies while broadening your knowledge of complimentary technologies. Be strides ahead of your competition and hear end user perspectives on the integration of nanotechnology in the composites market.

Academics, research centers and nano start ups

Identify the most lucrative opportunities for product development. Hear from the huge global packaging, printing and paper markets to assess their needs and how they fit with your applications. Discover new niches for research, products, funding and partnerships

NEW! - Your essential conference extras



The complete conference transcript

We record every word of the conference, transcribe, type and send to you in PDF and bound format within 10 days of the event, all for **\$179 incl P&P!**



Nanomaterials Symposium 2007 post conference briefing

IntertechPira's resident experts will write a post-conference briefing following the **Nanomaterials Symposium 2007** conference. The briefing will cover interviews with the speakers as well as analysis of the nanomaterials market, the latest trends and market drivers discussed at the conference. The briefing will be published within 10 days of the conference and will be provided in PDF format. **\$129 per briefing!**

Symposium Agenda

Nanotechnology for textiles

Half-day pre-conference workshop Monday, June 25, 2007, 1:00 – 5:00pm

Nanotechnology is transforming the composites world and textiles are one of the front runners in creating greater functionality smart capabilities for this global industry. A new age of textiles is providing low cost, reduced weight and durable options for industries as diverse as aerospace, fashion and automotive. This workshop will examine the very latest advances in nanotechnology for textiles and provide you with an interactive environment to discuss the next steps for the textile market.

Topics to be discussed at this innovative workshop include:

Improving textile functionality with nanotechnology

Textiles can be made multifunctional with properties such as self-cleaning, rehydration for active moisture management, shape, color, texture and mood changing. You'll learn that by coating, laminating or deposition of nanomaterials, even traditional textiles can gain functionality and be used for technically demanding end uses.

Market opportunities for nanotech companies

Understand how design, characterization, production and application of structures, devices and systems by controlling shape and size at the nanometer scale, 10⁹ are what companies are now developing around the globe.

Industry demand for quality and cost

As we define the performance characteristics of these new materials and substances, quality compliance and consistency will improve. Hear how the manufacturing process machinery is becoming commercially available and the realization of the plethora of applications for nanotextiles will be driving cost down over the next ten years.

Future outlook

The area of nanofabrication for fibers, yarns and nanocomposites in particular will be receiving a lot of attention in the forthcoming years. Carbon nanotube reinforced nanofibers are now being spun into yarn and these yarns are ultra strong and are directed towards load bearing applications in aerospace and automotive where weight and size is an issue. Hear why environmental management does not only need efficient engines and fuel but a drastic reduction in the weight of cars, airplanes and ships. You'll also learn how the engineering of nanocomposite textile fabrics will see applications in medical, aerospace, shipping and space exploration in particular.

CASE STUDY

Nanotechnology applications in textiles

- Benefits of nanotechnology in textiles
- Nano-Tex context
- Static electricity in apparel
- Nanotechnology and the environment



Your workshop leader

**Prof George K Stylios MSc, PhD, FSTA
Director, RIFlex and Senior Research Professor**

George completed his postgraduate studies in Leeds. He studied for his MSc and subsequently completed his PhD in 1986. In 1999 George joined the School of Textiles and Design of Heriot-Watt University as Senior Research

Professor of Textiles and became the Director of TechniTex and the Faraday Partnership in Technical Textiles (2002-05), turning his attention to technical textiles. George has turned his attention to SMART and Nano Textiles and is now leading several international research projects in nanofibers and composites, in shape changing fabrics and in nanocoatings and membranes. He's the founding editor of the International Journal of Clothing Science and Technology, which he established in 1987 and has more than 300 scientific publications to his name.

NEW! PROCEEDINGS ON CD

Now get your proceedings on CD at the conference! Instead of a printed proceedings document you can now get the latest full color version of the conference presentations on your desktop at the conference. You'll also get a full electronic update of all additional or modified presentations straight after the conference. This new policy means you get more detail and it's more up to date. It benefits the environment and gives you less to carry on the flight home.

Day one – Tuesday, June 26, 2007

8:00 Registration and refreshments

9:00 Opening remarks from the chair
Patti Glaza, Vice President, SMALL TIMES, US

Nanomaterials and the commercial market

9:10 **Evaluating current and future market drivers for nanomaterials**

- Benefits of nanostructured materials
- Potential applications in aerospace vehicles
- Challenges
- Highlights of recent research

**Michael A Meador, Chief, Polymer Branch,
NASA GLENN RESEARCH CENTER, US**

9:45 **Overall business case for nanomaterials**

- What are the current challenges of technology adoption?
- Understanding the key growth markets in nanomaterials
- Addressing the key business benefits of working to the nanoscale

LUX RESEARCH, US

10:20 Morning refreshments

10:40 **The possible adverse consequences of pre-emptive nanotechnology regulation**

- Case study: Berkeley, California amends hazardous materials ordinance to encompass nanomaterials
- How is the ordinance structured and are its requirements reasonable?
- What are the ordinance's toxicology reporting requirements?
- Should the ordinance have a minimum triggering threshold?
- Other jurisdictions are considering similar local ordinances. Is this the future of nanomaterial regulation?

**John C Monica Jr, Partner,
PORTER WRIGHT MORRIS & ARTHUR LLP, US**

11:15 **Nanotechnology regulation: business impediment or responsible stewardship?**

- How nanomaterials are chemicals attracting the attention of consumers and regulators
- Why chemicals are a regulated industry
- Why product stewardship is important to promote the safety of products and workers
- How the science of nanotechnology provides important benefits to society
- Why regulatory and safety decisions must be science based
- Dialogue with key regulatory officials has been underway for some time
- All stakeholders are gaining knowledge about nanomaterials
- How regulatory activity is expected to move forward quickly

John Diloreto, Principal, NANOREG NEWS, US

11:50 **Improving material performance through carbon nanotube (CNT) diffusion**

- CNT developments
- Improvement of mechanical properties
 - Lightweighting
 - Strength
 - Conductivity
- Applying CNTs to commercial products
- What is the next step?

**Maria Xenophotos, Managing Director,
ROSSETER HOLDINGS, Cyprus**

12:25 Lunch will be served for speakers and delegates

Day two - Wednesday, June 27, 2007

	Nanoengineered printing, inks and pigments
1:40	<p>Industrial biotechnology and the advance of new material development</p> <ul style="list-style-type: none"> • Key growth areas in the biomaterials market • Creating self cleaning materials • Using inkjet printing for thin film production • Use of titanium dioxide nanoparticles • Use of antimicrobial silver • Improving material performance through biotechnology • Self assembling biomaterials • Nanoscale engineering • Binding affinities • 3D structures • Using inkjet printing for thin film patterning <p>Dr Jan Sumerel, Manager, Biomedical Sciences, FUJI DIMATIX, US</p>
2:15	<p>Achieving superior performance from pigment engineering</p> <ul style="list-style-type: none"> • Nano pigments and their place in high value printing effects • Manipulating particle size for improved performance • Synthesis methods for nanopigments • Surface modification of nanopigments • Current applications for nanopigments <p>APPLIED NANOWORKS</p>
2:50	Afternoon refreshments
	Improving the effectiveness of paper and packaging
3:10	<p>Paper and the commercial possibilities of nanotechnology</p> <p>Speaker TBD</p>
3:45	<p>The US forest products nanotechnology program</p> <ul style="list-style-type: none"> • High strength lightweight materials • Liberating nanodimensional cellulose building blocks • Water/cellulose interactions • Nanocomposites using nanodimensional cellulose • Photonic and electronic properties • Application of nanotechnology for reduced energy consumption and reduced capital costs <p>Dr Phil Jones, Co-Chair, Nanotechnology Task Force, Agenda 2020, AMERICAN FOREST AND PAPER COMPANY, US</p>
4:20	<p>Future opportunities for nanomaterials in packaging</p> <ul style="list-style-type: none"> • What does nanotechnology offer? • Nanocomposites: a route for new barrier developments • Realizing other product enhancements through nanomaterials • Academic dream or commercial reality? <p>Dr Graham Moore, Senior Consultant, PIRA INTERNATIONAL, UK</p>
4:55	<p>Nanomaterials and rigid containers: present uses and future opportunities</p> <ul style="list-style-type: none"> • Rigid container manufacturing: process and materials • Uses of nanomaterials today • Future needs and opportunities <p>Dr Michael Cochran, Project Leader Smart Packaging, CROWN CORK & SEAL, UK</p>
5:30	<p>Bioresins and nanotechnology for a sustainable future</p> <ul style="list-style-type: none"> • What are bioresins? Thermoplastic and thermoset type bioresins • Biobased materials vs green renewable biopolymers • Nanomaterials: nanocomposites and nanoblends • Bioresins and their clay/carbon nanotube based nanocomposites • Current status and future prospects of these developing new technologies • Issues on sustainable developments of these materials • Concluding remarks <p>Dr Amar Mohanty, Associate Professor, MICHIGAN STATE UNIVERSITY, School of Packaging, US</p>
6:05	Closing remarks for day one
6:15	<p>Drinks reception</p> <p>Take advantage of this excellent opportunity to discuss the day's issues and make valuable contacts with your colleagues and customers at this informal reception</p>

8:30	Registration and refreshments
9:00	<p>Opening remarks from the chair</p> <p>Christopher Thellen, Materials Engineer, US ARMY NSRDEC, US</p>
	Developments for processing nanomaterials
9:10	<p>Quality characterization of carbon nanotube (CNT) materials</p> <ul style="list-style-type: none"> • Recommended practices for characterizing CNT materials • Standard reference materials for inter-laboratory comparison • New techniques for process control, quality control and material screening • Evaluating material homogeneity: pitfalls and potential solutions <p>Dr Stephanie Hooker, Chief, Materials Reliability Division, NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY, US</p>
9:45	<p>Stabilization technology for nanocomposites</p> <ul style="list-style-type: none"> • Increasing processing stability • Reduction of discoloration • Improvement of mechanical properties • Enhancement of long-term performance (thermal and light stability) <p>Urs Stadler, Research Fellow, CIBA, US</p>
10:20	Morning refreshments
	Nanotechnology and the advance of plastic composites
10:40	<p>Exceeding customer expectations with advanced automotive nano composites</p> <ul style="list-style-type: none"> • Emerging composite requirements in the automotive industry • Benefiting from lightweighting properties • Electroconductive polymer applications • Cost implications vs consumer benefits <p>Dr Suresh Shah, Senior Technical Fellow, DELPHI CORPORATION, US</p>
11:15	<p>Exploring the next generation of plastic nanocomposites</p> <ul style="list-style-type: none"> • Nanocomposites: opportunities and challenges • Manipulating nanoparticle assembly for improved properties • Establishing design rules for property enhancement <p>Prof Emmanuel Gnanels, Director, Materials Science Engineering, CORNELL UNIVERSITY, US</p>
11:50	<p>Multifunctional electrospun nanofibers: current status and future directions In nanotechnology</p> <ul style="list-style-type: none"> • Background of nanofibers • Definition of electrospinning • Processing of nanofibers architecture through electrospinning • Structure and properties of electrospun nanofibers • Applications of electrospun nanofibers nanofibers • Future directions <p>Manju Misra PhD, Associate Professor, MICHIGAN STATE UNIVERSITY, Composite Materials and Structures Center, US</p>
12:25	Lunch will be served for speakers and delegates

1:25	<p>Novel plastic additives: exploring the possibilities of nanoclay</p> <ul style="list-style-type: none"> • Nano effects of nanoclay in mechanical reinforcement • Nano effects of nanoclay in barrier enhancement • Nano effects of nanoclay in improved flame retardation • Design flexibility with novel nanoclays and masterbatch technology <p>Tie Lan, General Manager, NANOCOR, US</p>
2:00	<p>Reaping the rewards of carbon nanotube (CNT) reinforced polymers</p> <ul style="list-style-type: none"> • Mechanical properties offered by CNT reinforced polymers • Overcoming the challenges of development • Fabrication methods to ensure uniformity • Making CNTs a commercial reality <p>Lance Criscuolo, Business Manager, ZYVEX, US</p>
2:35	Afternoon refreshments
	Exploring the potential of advanced coatings
3:10	<p>Advanced coatings: designing materials for the future</p> <ul style="list-style-type: none"> • Properties which materials could be designed to have • Techniques for manufacturing or modifying materials to achieve those properties • Thin film coating technologies • Coating particles by atomic layer deposition • Coating polymers by atomic layer deposition <p>Karen Buechler, President and CTO, ALD NANOSOLUTIONS, US</p>
3:45	<p>Nanoparticle dispersions as unique additives for coatings</p> <ul style="list-style-type: none"> • Technology and the advance of high volume reliable nanoparticles • Addressing the difficulties of dispersing nanoparticles and integrating them into your system • The effect of dispersion on end properties • Novel dispersion technology for metal and metal oxide nanoparticles • Incorporating nanoparticles into your coating system • Commercial applications of advanced nanocoatings <p>Dr Stephan Wendel, Global Technology Manager, AIR PRODUCTS, US</p>
4:20	<p>Additives and coatings containing nanomaterials for wear and scratch resistance</p> <ul style="list-style-type: none"> • Using nano alumina particles for improved scratch resistance in solvent and water-based coatings • Overcoming the dispersion hurdles • Integrating nanoparticles without degrading, gloss, color, clarity or other physical properties • Enhancing the performance of nanoparticles with surface-active modified poly dimethyl siloxanes (PDMS) • End use applications and emerging possibilities <p>Robert H McMullin, New Business Development and Nanotechnology Manager, BYK-CHEMIE, US</p>

Your event organizer

IntertechPira provides events, training, online information and publications across a wide range of zeitgeist issues 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, 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

If your company supplies services and technology to the nanomaterials community, don't miss this opportunity to reach your audience by taking advantage of the limited number of exhibition and sponsorship opportunities available. Sponsorship of the conference will help you realize your marketing objectives and strengthen your company's position as a leading provider in these industries. For more details on our sponsorship and exhibiting opportunities, please contact our Group Sponsorship Manager, John Buss on T: +1 207 781 9610 or E: john.buss@pira-international.com

Upcoming nano conferences

The Future of Smart Coatings

July 17-19, 2007 Baltimore, MD, US

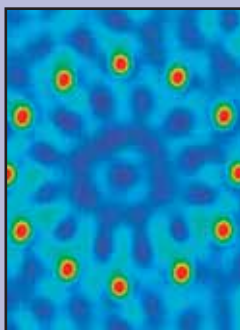
The Future of Smart Coatings will bring together the three most important prefixes in the coatings world: nano, bio and smart. Although the meaning of these terms is subjective and broad there are a wide number of specific technologies that can be grouped in this way. These include futuristic concepts like self healing polymer coatings and stimulus responsive coatings to more contemporary but equally exciting developments like nanoscale pigment engineering. Don't miss your opportunity to learn about the latest novel new technologies as they breathe new life into the industry with their enhanced performance and improved efficacy.



Nanophotonics 2007

September 17-18, 2007 San Diego, CA, US

Nanophotonics 2007 will provide you with a platform for the analysis of nanophotonics in a commercial and practical context. This is your chance to critically assess the latest developments in this emerging field and consider the possible paths to mass commercialization. **Nanophotonics 2007** will bring you groundbreaking analysis of what's happening now and what's on the horizon in the global nanophotonics market. Whether you're looking to fine tune your existing knowledge, or you're about to make your first step into this exciting new market, this conference will be your key to success. You'll get valuable intelligence on the major end use sectors, market forecasts and an indepth insight into the experiences of leading researchers in the global marketplace.



Nanoscale Inks and Pigments

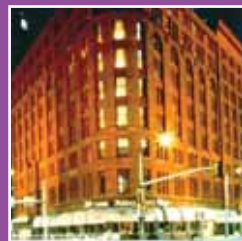
October 25-26, 2007 Chicago, IL, US

At this breakthrough conference, you'll learn how to achieve better performance and novel effects through nanoscale engineering for inks and pigments! In the sea of new scientific developments making headlines today, nanotechnology is one of the strongest currents promising to shape nearly every industry and create a global market of US\$1 trillion or more within twenty years. While ink and pigment manufacturers are well versed in dealing with small scales, nanotechnology offers a wealth of possibilities to take it even further. It's time to cut through the hype, understand the real potential of nanotechnology for your industry and get the tools you need to capitalize on your future.



For more information about these upcoming nanotechnology events and to take advantage of early bird registration discounts, please contact John Buss on T: +1 207 781 9610 or E: john.buss@pira-international.com

Symposium information



Venue

The Brown Palace Hotel has set the standard for downtown Denver hotels for more than a century. Knee-deep in tradition and historic ambience, the hotel has continually renovated and modernized the entire structure to meet the needs and cares of today's traveler. The Brown Palace is conveniently located in the heart of downtown Denver, Colorado and is only 22 miles from

Denver International Airport. Enjoy an exclusive stay in one of the hotel's 33 executive staterooms, featuring business amenities such as a printer / copier / fax machine, and a laptop recharging station. Discover the finest in downtown Denver accommodations and services during your stay at The Brown Palace Hotel.

Booking your accommodation

Delegates are responsible for booking their own travel and accommodation. A limited number of rooms have been reserved for conference delegates wishing to stay at the Brown Palace Hotel at a special rate. Delegates must reserve their room no later than **June 4, 2007** to take advantage of this special rate. Wherever possible accommodations should be reserved early as rooms cannot be guaranteed and rates are subject to change after this date. To book your accommodation, please contact the hotel directly at +1 303 297 3111 or visit www.brownpalace.com. (Please mention IntertechPira's **Nanomaterials** conference to get the preferential rate).

Conference fees

The conference fee includes entry to the conference sessions and the exhibition, full proceedings on CD, lunch and refreshments. However, fees do not include delegate travel and accommodation. All credit card orders are processed at that day's \$/£ 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.

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 Chandra Leister urgently on T: +1 207 781 9602 or E: Chandra.leister@pira-international.com

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 but have not received joining instructions at least one week prior to the event, please contact Chandra Leister urgently on T: +1 207 781 9602 or E: Chandra.leister@pira-international.com

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.

For further information on the conference please contact:

Delegate Registrations:	John Buss T: +1 207 781 9610 F: +1 207 781 2150 E: john.buss@pira-international.com
Conference Coordinator:	Chandra Leister T: +1 207 781 9602 F: +1 207 781 2150 E: chandra.leister@pira-international.com
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Our past conference have given us a reputation for being the first available source for the most innovative nanomaterial solutions. Hear some comments from previous delegates:

'A worthwhile conference. Nice balance of business and academic tracks.'
Zyvax Inc, The Future of Nanoplastics 2007, US

'I was very pleased with the presentations and the interactions of all'
BYK-Chemie USA, The Future of Nanoplastics 2007, US

'The formal presentations were well-prepared, thoroughful and presented'
Invista, Workplace Safety and Handling for Nanotechnology Workshop 2007, US



For further information visit www.intertechpira.com

Symposium registration form

Nanomaterials Symposium 2007 Two day Intertech-Pira conference, Tuesday, June 26 - Wednesday, June 27, 2007

Pre-conference workshop: **Nanotechnology for textiles** Monday, June 25, 2007 1:30 - 5:00pm

1 Your details

Prefix:.....First Name:.....Last name:.....Company name:.....Title:.....
Company business:.....Address:.....
.....ZIP code:.....PO No:.....
Telephone:.....Fax:.....Email:.....

2 Event options and fees

Early Bird offer!

Book your delegate spot before **April 27, 2007** and save 10% on the prices below

Choose your payment package:

Conference \$999
Workshop \$349
Conference + workshop \$1279
Academic rate* \$349
Post conference transcript \$179
Post-conference briefing \$129

*Academic rate for full-time students and academic teaching staff at universities only

VAT at the prevailing rate will be charged as applicable. Pira Reg. No. 3858209 Pira VAT No. 677 3667 81
Office use only: Accounting code: 817-07 Date received:

3 Payment method

Purchase Order No:..... VAT No:.....
VAT will be charged at the prevailing rate unless a VAT number is supplied

Charge my credit card: American Express Visa MasterCard

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.

Card no:.....Expires:...../..... Security code:

Cardholder name & address:

Email address for credit card receipt:

Check/banker's draft (made payable to IntertechPira) Please invoice my company

Invoices cannot be issued without receipt of a purchase order number at the time of booking.

Banker's information for credit transfer payments

US Dollar A/C: Key Bank Account No: 191424005327
Swift Code (BIC): KeyB_US_33 ABA No: 011200608

Signature:.....Date:.....

4 How to book

US: **IntertechPira, 19 Northbrook Drive, Portland, ME 04105, US**

Europe: **IntertechPira, Cleeve Road, Leatherhead, Surrey KT22 7RU, UK**

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