



# PHOTONICS

IN SURVEILLANCE AND BIOMETRICS

## Plus!

Don't miss the pre-conference seminar on Monday, March 9, 2009:  
**Image Sensor Technology for Surveillance Applications**

Book online and view up to the minute conference information at: [www.securityphotonics.com](http://www.securityphotonics.com)

**Key contributions from**  
**20 major industry leaders**  
**Two interactive panel discussions**  
**One intensive pre-conference seminar**

*See inside for full program details! ▶▶*

## early bird registration offer

**Book through January 26, 2009 and save 10% on your registration**

**Online:** [www.securityphotonics.com](http://www.securityphotonics.com)

**Tel:** +1 207 781 9631

**Email:** [michael.robert@pira-international.com](mailto:michael.robert@pira-international.com)

In association with:

**PHOTONICS**  


reasons to attend

- Hear how current world situations are promoting the growth of the surveillance and biometrics sectors and how industries are turning technology into practice
- Find out about government work in surveillance and biometrics by listening to presentations from organizations such as the **FBI**, the **Office of the Secretary of Defense for Science and Technology for Homeland Defense** and others
- Listen to presentations from top surveillance and biometrics retailers including **Fujitsu** and **Bosch Security Systems**
- Learn about Match-on-Card technology from **Precise Biometrics**
- Discover the latest advances in thermal surveillance technologies from **ICx Technologies**
- Hear about the latest technological advances in lasers and lighting for surveillance from the **Harvard School of Engineering and Applied Sciences** and **Osram Opto Semiconductors**
- Participate in a panel discussion on the issue of privacy in biometrics and surveillance
- Establish new business alliances and learn the latest about your competitors
- View the latest biometric and surveillance technologies and products on display in the exhibit area

who should attend

- **Company Presidents, CEOs and CTOs**
- **Product Developers**
- **Component and Equipment Manufacturers**
- **Venture Capitalists and Investment Bankers**
- **Business Development Directors**
- **Government Representatives**
- **End Users**
- **Research Scientists and Technologists**

## about the conference

With the rapid advance of technological innovation has come the equally rapid emergence of novel and serious security threats. Organizations have been forced to adopt the most cutting-edge security and biometric technologies to ensure comprehensive protection instigating impressive growth rates in these sectors. Worldwide homeland security alone is expected to grow nearly 100% over the next seven years<sup>1</sup> while changes in airport and commercial security levels as well as increasing demand for reliability and accuracy in biometrics ensure that the impetus for technological and commercial growth in these industries will remain steady.

IntertechPira's inaugural **Photonics in Surveillance and Biometrics** conference will bring both the surveillance and biometrics communities together to discuss market growth, application requirements, new technology, end user applications and the challenges facing both industries. Delegates can expect to see presentations on the latest developments for vascular patterning, IP video and other advances in optics, imaging, and photonic technologies as related to the growth of both industries.

Featuring lively interactive panel discussions and numerous networking functions, **Photonics in Surveillance and Biometrics 2009** will provide you with abundant opportunities to make new connections and stay up-to-date on the latest technology.

1 - 2004 Photonics Leadership Group (PLG) report.

### Conference Co-Chairs

Mark McGovern, Former Chief Technologist for Information Assurance, Integrated Systems & Solution Engineering

**LOCKHEED MARTIN**

Al Miller, SME

**OFFICE OF THE SECRETARY OF DEFENSE FOR SCIENCE AND TECHNOLOGY FOR HOMELAND DEFENSE**

# pre-conference seminar

## Image Sensor Technology for Surveillance Applications

Monday, March 9, 1:30 – 4:30pm

Cutting edge image sensor technology is a key ingredient in the most up-to-date security and surveillance equipment. Understanding this technology and the benefits of the different types of image sensors is an important part of choosing the right product for your surveillance applications.

Industry veteran David Dorn, Applied Technology Manager at Pelco, will discuss the technology of image sensors for security specific applications in an intimate, classroom style setting designed to facilitate discussion and a comprehensive learning experience.

### Key topics to be addressed include:

- Key camera requirements for video security
- Camera requirements effect on image sensor selection
- Different types of image sensors and underlying principles of operation
- How image sensors requirements interact with each other
- The design, layout and construction of image sensors
- Performance trends and technology leverage from different markets

### Your seminar leader



#### David Dorn, Applied Technology Manager, PELCO

For the past 20 years David Dorn has led efforts that have advanced both the engineering and science associated with camera system development at wavelengths from the ultraviolet to the thermal infrared. With a background originally in image sensors, David has been able to optimize how optics, detectors, and electronics can maximize the performance of camera systems. In his present role with video security industry leader, Pelco, David develops, leverages and applies new technologies to build state-of-the-art cameras for some of the world's most demanding security applications. In a previous position, David led teams that built space-based cameras for scientific instruments such as the WFC3, ACS, and STIS instruments aboard the Hubble Space Telescope, the NIRCam and NIRSPEC instruments aboard the James Webb Space Telescope, in addition to camera systems for planetary missions to Mars and Pluto.

## New! IntertechPira Webinars



IntertechPira will now be providing online webinars on a variety of our conference topics. Receive valuable information from the event provider you trust from the comfort of your desk. Webinars will be available live, and by demand on our website [www.intertechpira.com](http://www.intertechpira.com) starting in 2009. To receive information on webinars, request a topic, or find out how you can be involved, contact Chandra Leister at [Chandra.leister@pira-international.com](mailto:Chandra.leister@pira-international.com) or by phone +207-781-9602.

## Conference agenda

### Monday, March 9, 2009

- 1:00** Registration
- 1:30 Pre-conference Seminar** (Separate fee required)  
**Image Sensor Technology for Surveillance Applications**  
**David Dorn, Applied Technology Manager**  
**PELCO**

### Tuesday, March 10, 2009

- 7:00** Continental Breakfast and Registration
- 8:00** Conference Opening Remarks  
**Valerie King, Conference Producer**  
**INTERTECHPIRA**
- 8:05** Opening Remarks from the Co-Chair  
**AI Miller, SME**  
**U.S. OFFICE OF THE SECRETARY OF DEFENSE**  
**FOR SCIENCE AND TECHNOLOGY FOR**  
**HOMELAND DEFENSE**

### Session 1: Industry Overview and Market Updates for the Surveillance and Biometrics Sectors

- 8:15 Overview of the Biometrics Industry: Past and present**  
**Mark McGovern, former Chief Technologist for Information Assurance, Integrated Systems & Solutions Engineering**  
**LOCKHEED MARTIN**
- 8:50 Business Case Analysis for Biometric Systems**
  - Analyzing requirements specifically for biometric systems
  - Quantifying benefits of biometric systems
  - Quantifying risks and costs of biometric systems
  - Evaluating trade-offs**Glenn Becker, Technical Director of Advanced Programs Group**  
**UNISYS CORPORATION**
- 9:25 The Necessity of Implementing Biometric and Surveillance Technology**  
**AI Miller, SME**  
**U.S. OFFICE OF THE SECRETARY OF DEFENSE**  
**FOR SCIENCE AND TECHNOLOGY FOR**  
**HOMELAND DEFENSE**

- 10:00** Morning Refreshment Break

### Session 2: Applications: Implementing Biometric and Surveillance Technology

- 10:30 The FBI Perspective**  
**TBC**

**11:05 Match-on-Card Biometrics in Smart Card ID Programs**

- Trends and developments in large-scale smart card programs worldwide
- Functional and practical value of match-on-card biometrics
- How the usage of the match-on-card opens up for a wide range of eGovernment services as well as commercial uses
- How the same logic applies to card programs within the government, banking, healthcare, etc.

**Michael Harris, Director, Regional Sales – North America**  
**PRECISE BIOMETRICS**

**11:40 Multiple Biometrics Grand Challenge (MBGC) Dr Jonathon Phillips, MBGC Program Manager NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)**

**12:15 Roundtable Luncheon**

**1:35 The Role of Biometrics and Surveillance in National Security**

- The importance of using biometric and surveillance technology to strengthen national security
- Putting current technology into practice
- The significance of identity authentication and management

**TBD**

**2:10 Invited Speaker:**

**Paul Zaren**  
**U.S. DEPARTMENT OF DEFENSE**

**Session 3: Privacy in Surveillance and Biometrics**

**2:45 Understanding Privacy Laws in Connection with Biometrics**

- Privacy laws and the government
- Privacy laws and the private sector
- Factors used in balancing public interest vs. individual privacy interest
- Certain foreign privacy laws

**Herbert R. Fineburg, Esq., Shareholder**  
**EIZEN FINEBURG & MCCARTHY, P.C.**

**3:20 Afternoon Refreshments**

**3:50 Privacy, PII and the Role of Anonymous Biometric Authentication**

- Developing a process for the anonymous biometric authentication of individual identity.
- Technology needed to ensure this process (multi-modal search engine, code encryption, etc.)
- Benefits and applications of anonymous biometric authentication

**Russ Ryan, Vice President**  
**THE NATIONAL BIOMETRIC SECURITY PROJECT**

**4:25 The Issue of Privacy vs. Surveillance and Biometrics**

PANEL DISCUSSION

**Moderator: Mark McGovern, former Chief Technologist for Information Assurance, Integrated Systems & Solutions Engineering**  
**LOCKHEED MARTIN**

**5:15 Closing Remarks from the Co-Chair**

**5:20 Cocktail Reception**

**Wednesday, March 11, 2009**

**7:00 Continental Breakfast**

**8:00 Conference Opening Remarks**  
**Valerie King, Conference Producer**  
**INTERTECHPIRA**

**8:05 Opening Remarks from the Co-Chair**  
**Mark McGovern, former Chief Technologist for Information Assurance, Integrated Systems & Solutions Engineering**  
**LOCKHEED MARTIN**

**Session 4: Advances in Surveillance Technology**

**8:15 Innovative Advances in Thermal Surveillance Technologies**

- Merging CCTV and thermal image feeds in real time
- Bridging the gap between the analog and digital integration for automated identification systems
- Extended integrated perimeter security solutions

**Nirav Pandya, President, Imaging Systems**  
**ICX TECHNOLOGIES**

**8:50 Image Sensors for Video Security – Markets, technologies and leverage**

- Video security market overview
- Camera requirements
- Image sensor requirements
- Leverage of technologies from other markets
- Future technology trends and needs

**David Dorn, Applied Technology Manager**  
**PELCO**

**9:25 High Brightness Near Infrared Semiconductor Light Sources for Active Nightvision**

- State of the art high-brightness infrared semiconductor light sources
- Technology and characteristics of IR Laser and IR LED
- Applications and markets

**Dr Ulrich Steegmueller, Senior Application Engineering Manager, North America**  
**OSRAM OPTO SEMICONDUCTORS**

**10:00 Morning Refreshment Break**

**10:30 Intelligence and Illumination in IP Video Surveillance**

- Identifying common security threats through the use of video analytics
- Understanding the impact of IR illumination on image quality, storage consumption and video analytics performance
- Adding intelligence to an existing or new surveillance system
- Choosing an architecture that improves reliability and lowers the cost of ownership of intelligent systems

**Dr Bob Banerjee, Product Marketing Manager**  
**Willem Ryan, Product Marketing Manager**  
**BOSCH SECURITY SYSTEMS INC**

**11:05 High Performance Mid-Infrared and THz Quantum Cascade Laser Sources**

- High power continuous-wave room temperature mid-infrared Quantum Cascade Lasers
- Small-divergence semiconductor lasers by plasmonic collimation
- Broadly tunable single-mode quantum cascade laser sources and sensors
- High temperature terahertz quantum cascade laser sources based on intracavity nonlinear light generation

**Dr Christian Pflügl, Research Associate**  
**HARVARD SCHOOL OF ENGINEERING AND APPLIED SCIENCES**

**Session 5: Advances in Biometric Technology**

PANEL DISCUSSION

**11:40 Biometric and Surveillance Technology**

**12:15 Roundtable Luncheon**

**1:30 Vascular Pattern Biometrics – Enhancing security and privacy**

- What is vascular?
- Applications for vascular pattern recognition
- Deployment of biometric systems
- Comparison of current suppliers and solutions

**Joel Hagberg, VP of Marketing & Business Development**  
**FUJITSU COMPUTER PRODUCTS OF AMERICA INC**

**2:05 Dynamic Fusion Schemes for Face Recognition in Video**

- Face recognition
- Dynamic fusion of multiple face matchers
- Adaptive frame selection
- Image-level versus score-level fusion

**Dr Arun Ross, Associate Professor**  
**WEST VIRGINIA UNIVERSITY**

**2:40 Closing Remarks from the Conference Co-Chair.**

**2:45 End of Conference**



conference proceedings

If you can't make it to Washington, D.C. you can still receive the latest on photonics based surveillance and biometrics equipment, technology, and applications by purchasing complete conference proceedings. Available in hard copy, on CD, and in pdf format, conference proceedings include full presentations and conference materials that will keep you up to date on the latest industry developments. For additional details, contact Mike Robert today at +1 207 781 9631 or michael.robert@pira-international.com.

## The venue

The newly renovated Washington Marriott Hotel in downtown Washington D.C. is ideally located steps away from historic Georgetown, Dupont Circle, Foggy Bottom, and D.C.'s central business district. Located in the premier west end of downtown Washington D.C., the Washington Marriott has easy access to two Metro stops that are within walking distance and is also just 15 minutes from Reagan National Airport and a short commute to the Dulles Airport. In addition to a simple and convenient location for traveling through the D.C. area, the hotel's close proximity to national monuments, The Smithsonian, and historic landmarks make the Washington Marriott the perfect choice for all travelers.



### Venue address:

1221 22nd Street NW, Washington, D.C., 20037, US  
 Tel: +1 202 872 1500 Fax: +1 202 872 1424  
 Preferential conference room rate of **\$209**  
 available through **February 19, 2009**  
 For additional details, please visit [www.marriott.com](http://www.marriott.com)

## Accommodation

Speakers and delegates are responsible for booking their own travel and accommodation. A limited number of rooms have been reserved for conference speakers and delegates wishing to stay at the Washington Marriott at a special rate of **\$209** plus taxes. Speakers and delegates must reserve their room no later than **February 19, 2009** to take advantage of this special rate. Whenever 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 +1 202 872 1500. (Please state you are attending the IntertechPira **Photonics in Surveillance and Biometrics 2009** conference to receive the preferential rate). Your conference registration confirmation will include a web link to facilitate your hotel reservation.

## Conference fees

The conference fee includes entry to the conference sessions and the exhibition, full proceedings, lunch 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. Payment is required before the start of the conference. Please see note in step three for further details. **PLEASE NOTE:** Credit card details will be necessary if your booking is made less than ten days prior to the start of the conference, or if your invoice remains unpaid at the start of the event. 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 onsite 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; if necessary, notify Michael Robert at +1 207 781 9631 or [michael.robert@pira-international.com](mailto:michael.robert@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 confirmation at least one week prior to the event, please contact Laura Preston at +1 207 781 9613 or [laura.preston@pira-international.com](mailto:laura.preston@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 for applications to be completed. Delegates are then responsible for contacting the relevant embassy themselves. IntertechPira can do nothing further to assist in this process.

## Your conference organizer

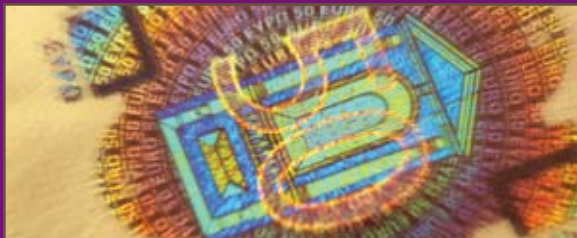
IntertechPira provides events, training, online information and publications across a wide range of niche commodities and disruptive technologies affecting industry. Our 100% independent products are provided globally 24/7 and delivered by teams of independent experts at sites in Portland, US and London, 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

**Photonics in Surveillance and Biometrics 2009** offers an excellent opportunity to increase your visibility before a highly-qualified audience of key decision makers. Depending on your goals and the level of sponsorship required, 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 and promotional opportunities, and complimentary event passes. We also offer tabletop exhibit space and advertising in the conference proceedings. For additional details on these opportunities, please contact Brian Santos by phone: +1 207 781 9618, fax: +1 207 781 2150, or email: [brian.santos@pira-international.com](mailto:brian.santos@pira-international.com)

## 9th International Conference on Security Printing & Alternative Solutions

January 27 - January 29, 2009  
 Reval Lietuva, Vilnius, Lithuania  
[www.security-printing.com](http://www.security-printing.com)



The 9th International Conference on Security Printing & Alternative Solutions will be held January 27-29 in vibrant Vilnius, the political and cultural capital of Lithuania. This annual must attend will look to build on the success of the 2008 conference, which took place in Ljubljana on January 22-23, 2008. Pyrabelisk are again collaborating with IntertechPira to bring you the next installment in Vilnius next January.

Attracting over 130 top industry leaders and numerous exhibitors in 2008 event, this conference continues to grow, maintaining its position as the leading forum for security printing executives and senior governmental figures from the CEE and Russian region.

## Image Sensors Europe

March 24-26, 2009  
 Copthorne Tara Hotel, London, UK  
[www.image-sensors.com](http://www.image-sensors.com)



Building on the success of last year's sell out event in London, Image Sensors Europe 2009 will assess the best strategies for facilitating growth in this burgeoning industry. You will hear from Europe's pre-eminent experts and industry leaders in this fast moving sector as they discuss the hottest issues affecting your business. With an additional workshop and interactive sessions, this event is designed to give you the opportunity to tailor a comprehensive programme to the needs of your business.

## Including presentations from:

- Bosch Security Systems
- Eizen Fineburg & McCarthy, P.C.
- FBI
- Fujitsu Computer Products of America
- Harvard School of Engineering and Applied Sciences
- ICx Technologies
- Lockheed Martin
- The National Biometric Security Project
- NIST
- Osram Opto Semiconductors
- Pelco
- Precise Biometrics
- Unisys
- US Office of the Secretary of Defense for Science and Technology for Homeland Defense
- West Virginia University

In association with:



## What your colleagues have had to say about IntertechPira's security and biometrics events:

*"Quality presenters and presentations across the board."*

### Acuity Market Intelligence – Advanced ID Technologies and Biometrics Summit 2008

*"Very positive and informative."*

### Angstrom Technology – The Future of Secure Documents 2008

## Plus!

Don't miss the pre-conference seminar on Monday, March 9, 2009:

### Image Sensor Technology for Surveillance Applications



IntertechPira  
19 Northbrook Drive  
Portland, ME 04105, US

Register now!

Book through **January 26, 2009** and save 10% on your registration!

- Phone the team:** +1 207 781 9631
- Fax us the form:** +1 207 781 2150
- Email us:** michael.robert@pira-international.com
- Mail us:** IntertechPira, 19 Northbrook Dr, Portland, ME US 04105
- Visit us online:** www.securityphotonics.com

# Photonics in Surveillance and Biometrics Conference Registration

## 1 Your details

Title.....First Name:.....Last Name:.....  
Organization:.....Position:.....  
Company business:.....  
Address:.....  
.....  
.....ZIP:.....  
Telephone:.....Fax:.....  
Email:.....

**Opt me in! I would like to receive regular electronic updates about Photonics in Surveillance and Biometrics.**

## 2 Event options and fees

**Don't miss the early bird offer – book through January 26, 2009 and save 10%**

### Choose your payment package:

Conference fee (through January 26th) \$1349   
Conference fee (after January 26th) \$1499   
Team discount\* \$1299   
Pre-conference seminar \$499   
Academic/Gov't rate\*\* \$499   
Conference proceedings \$999   
(For those who cannot attend)

### Exhibition packages:

Tier 1 package \$2500   
Exhibit table + delegate registration\*\*\*  
Tier 2 package \$1500   
Exhibit table only\*\*\*

\*Sign up 3 or more colleagues and SAVE \$200 on each registration  
\*\*Academic rate for full time students and teaching staff at universities only. Early bird offer does not apply. Government officials please provide ID.

\*\*\*For more information on our many exhibition and sponsorship opportunities that meet your business goals, please contact Brian Santos at +1 207 781 9618 or brian.santos@pira-international.com.  
**DISCOUNTS CANNOT BE USED IN COMBINATION**

Office use only: Accounting code: 163-09

Date received:

## 3 Payment method

Purchase Order No:..... VAT No:.....  
(VAT will be charged at the local rate)

Charge my credit card: American Express  Visa  MasterCard

**PLEASE NOTE:** Credit card details will be necessary if your booking is made less than 10 business days prior to the start of the conference, or if your invoice remains unpaid at the start of the event. 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.

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

### Banker's information for credit transfer payments

US Dollar A/C: CitiBank N.A. Account No: 40710066  
Swift Code: CITIUS33 ABA No: 021000089

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

## 4 How to book

**US:** IntertechPira, 19 Northbrook Drive, Portland, ME 04105, US  
Tel: +1 207 781 9631 / Fax: +1 207 781 2150 / www.intertechpira.com  
**Europe:** IntertechPira, Cleve Road, Leatherhead, Surrey KT22 7RU, UK  
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### For further information on the conference please contact:

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