

PHOTONICS VALENCIA'08

1ST INTERNATIONAL
INTRODUCTORY COURSE ON LASER
TECHNOLOGY: MICRO-PRODUCTION

LIGHTING TRAINING COURSE

3RD INTERNATIONAL MACHINE
VISION FORUM

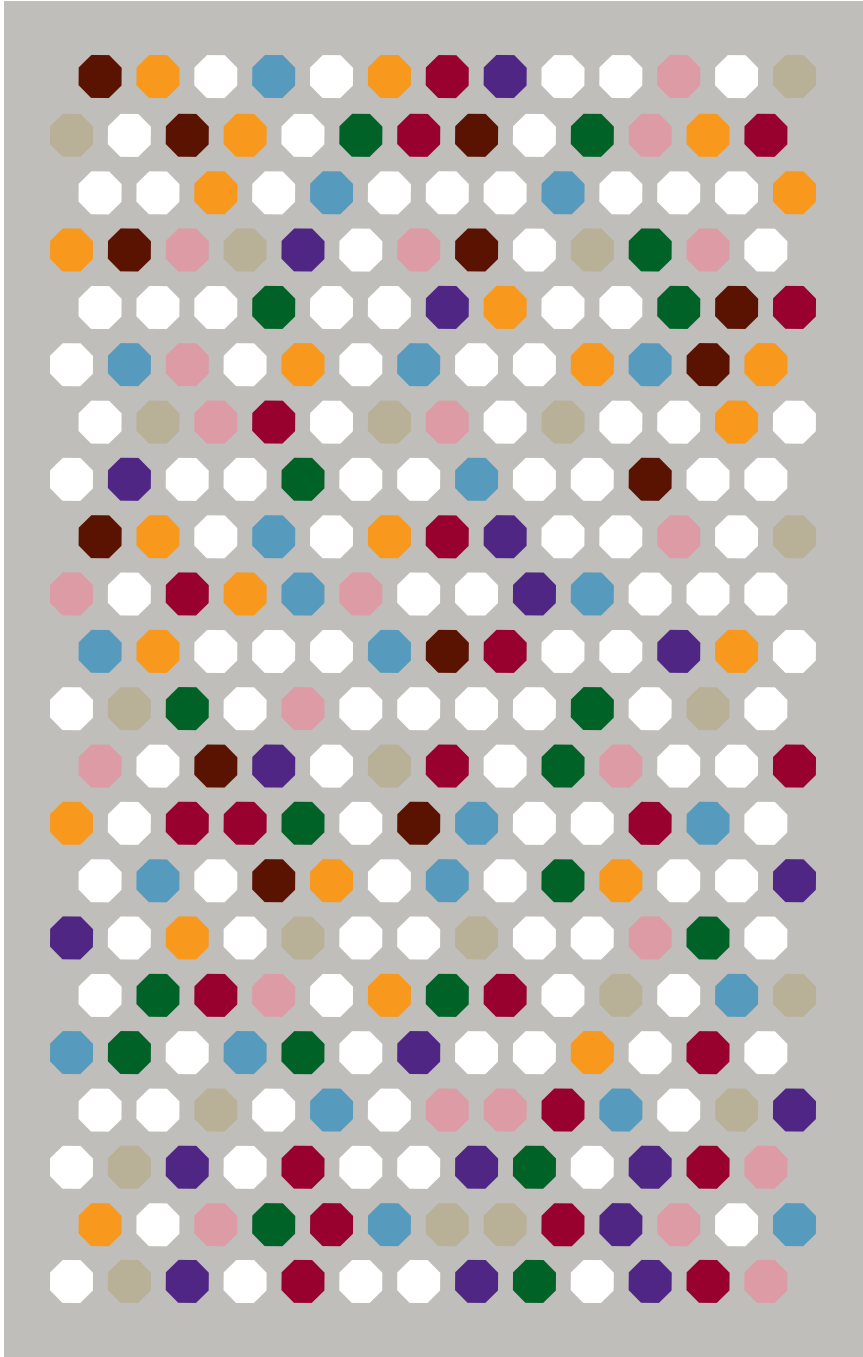
**INDUSTRIAL COLOURIMETRY
COURSE: MATERIALS AND
APPEARANCE**

MACHINE VISION SYSTEMS AND
3D DIGITALISATION

**TECHNOLOGY AND SUSTAINABILITY
IN LIGHTING**

5TH NATIONAL WORKSHOP
FOR PROCESSING MATERIALS
WITH LASER

ONE TO ONE MEETINGS



WELCOME TO THE OPTICS INDUSTRY EVENT

The Technological Institute of Optics, Colour and Imaging (**aido**), an innovative and technological expert in the industrial application of optics technology, is organising **Photonics Valencia 08** in its first year.

This event will be held this coming **26 and 27 November** at the Feria Valencia Convention and Exhibition Centre where optics technologies and their industrial applications will be in the limelight.

This forum is divided into both, sessions that focus on specific training in subjects including optics systems, laser, machine vision and industrial colourimetry; as well as a debate and analysis of some of the key technologies in industry today.

Photonics Valencia hopes to establish an annual event for industries who want to see the latest optics technologies applied to their production systems, with the aim of cutting costs and optimising resources.

Overall, this event hopes to establish Valencia's international position as the cradle of advanced industrial optics technology at the hands of **aido**.

See registration rates* at
www.photonicsvalencia.com

Event location
**Feria Valencia Convention and Exhibition Centre 3rd Floor.
Avenida de las Ferias s/n, 46035. Valencia**

*
Inscriptions until 30th of October (included)
will have 15% discount.

26th AND 27th NOVEMBER

**ONE TO ONE
MEETINGS**

Photonics Valencia will hold the One to One Meetings which will take place both **26th and 27th of November** from 15.30 P.M. The main goal of this events is to promote face to face meetings previously fixed amongst offerers and demanders of technology in its search for potential technology partners in Europe. To participate in this events please fulfil your inscription and technological profile at cooperation in www.photonicsvalencia.com

This section which takes place on the frame of Photonics Valencia 08 is coordinated by the Red de Institutos Tecnológicos de la Comunidad Valenciana (REDIT) through SEIMED and the Enterprise Europe Network. Using the profiles inserted in our web we will elaborate an offer catalogue compiling offers and demands on technology which will be promoted and published between European organisms.

During the celebration of this events the attendants will maintain personal meetings with the representatives of the profiles selected in order to look for business opportunities or set up strategic agreements such as R+D transfer, joint ventures and so on.

Since 2004 REDIT is a member of the IRC Network participating and promoting several events of this kind.

As well, REDIT continues offering its services on technological cooperation as a member of SEIMED. This network is part of the Enterprise Europe Network which holds all the organisations that form Euro Info Centres and IRC Network.

26th NOVEMBER

**1ST INTERNATIONAL
INTRODUCTORY COURSE ON
LASER TECHNOLOGY: MICRO-
PRODUCTION**

TIME

9,00/9,30	Registration and receive documentation
9,30/10,00	Opening
10,00/10,30	Laser course presentation J. Antonio Ramos aido
10,30/11,30	Introduction to the laser (I) Hans Joachim Eichler, Institute of Optics and Atomic Physics. Technical University Berlin
11,30/12,00	Break
12,00/13,00	Introduction to the laser (II) Hans Joachim Eichler, Institute of Optics and Atomic Physics. Technical University Berlin
13,00/14,00	Exciplex lasers for industrial applications Juan G. Darias, CEADEN. Cuba Luis Marti, aido
14,00/15,30	Lunch
15,30/16,30	Integrating the laser (I) Jens Haenel, 3D-Micromac AG. Alemania
16,30/16,45	Break
16,45/17,15	Integrating the laser (II) Jens Haenel, 3D-Micromac AG. Alemania
17,15/19,00	Lasers in photovoltaic applications Raj Patel, Spectra-Physics. USA

26th NOVEMBER

**LIGHTING TRAINING
COURSE**

TIME

9,00/9,30	Registration and receive documentation
9,30/10,00	Opening
10,00/11,30	Light sources: Types and characteristics Technological nuances
11,30/12,00	Break
12,00/14,00	Lighting control systems Technologies and examples of applications
14,00/15,30	Lunch
15,30/18,15	Express course Lighting projects

26th NOVEMBER

**3rd INTERNATIONAL
MACHINE VISION FORUM**

TIME

9,00/9,30	Registration and receive documentation
9,30/10,00	Opening
10,00/10,30	Machine vision to control industrial quality Juan Hervás, aido
10,30/11,00	Robotics in the world of industrial vision Yon San Martin, ROBOCONCEPT
11,00/11,30	The possibilities of vision in the European market Antonio Ventura-Traveset, EMVA
11,30/12,00	Break
12,00/12,30	Non-contact Industrial Metrology Luis Granero, aido
12,30/13,00	Short-range metrology systems Jorge Rodriguez, NUB3D
13,00/13,30	Digitalisation techniques applied to artistic patrimony
13,30/14,00	3D Inspection Systems Application examples, SICK
14,00/15,30	Lunch
15,30/16,00	Vision systems to capture movement José Manuel Giménez, STT INGENIERIA Y SISTEMAS
16,00/16,30	3D Inspection Technology Josep Forest, AQSENSE
16,30/16,45	Break
16,45/17,15	3D machine vision for bin picking: from scientific expertise to industrial applications Ira Effenberger, Fraunhofer Institute - IPA
17,15/17,45	Multi-imaging systems for machine vision Fernando Puente, Technical University of Munich
17,45/18,15	Industrial vision systems quality control Rafael Porcar, Imagine Optic Spain

26th NOVEMBER

**INDUSTRIAL COLOURIMETRY
COURSE: MATERIALS AND
APPEARANCE**

TIME

9,00/9,30	Registration and receive documentation
9,30/10,00	Opening
10,00/10,45	Materials and appearance. Optic Characterisation Natividad Alcón, aido
10,45/11,30	Spectrophotometry. Applications and advantages Pedro Cano, CARY VARIAN
11,30/12,00	Break
12,00/12,45	Reach Standards Juan Carlos Fernández, SWAG-Alquimia
12,45/13,30	Nanotechnology. Applications in the paints and coating's sector José M ^a Lagarón, NANOBIMATTERS

27th NOVEMBER

**TRAINING COURSE: MACHINE
VISION SYSTEMS AND 3D
DIGITALISATION**

TIME

9,00/9,30	Registration and receive documentation
9,30/10,00	Introduction to artificial vision systems
10,00/10,30	Fundamentals of lighting systems: the key to the system's success
10,30/11,00	Photographic lens: How to choose the right optics
11,00/11,30	Different types of cameras and sensors: versatility versus cost
11,30/12,00	Break
12,00/13,30	Basic digital imaging processing techniques. Applications for industrial quality control systems. Practical examples
13,30/14,00	Developing machine vision systems in an industrial environment
14,00/15,30	Lunch
15,30/16,30	3D digitalisation techniques with structured white light
16,30/16,45	Break
16,45/18,15	3D digitalisation techniques applied to industrial metrology

27th NOVEMBER

**TECHNOLOGY AND
SUSTAINABILITY
IN LIGHTING**

TIME

9,00/9,30	Registration and receive documentation
9,30/9,50	Session presentation Teresa Molina, aido
9,50/10,30	Design and lighting Josep M ^a Serra, SANTA & COLE
10,30/11,00	LEDS for lighting Eino Tetri, Helsinki University of Technology
11,00/11,30	Technical design of lighting products Vicente Micó, aido
11,30/12,00	Break
12,00/12,30	ANFALUM and CELMA. EuP Directives. Ricardo Pomatta, ANFALUM
12,30/13,00	ADASY®: Natural lighting system Lucas García, Grupo Lledó
13,00/13,30	Case studies and real high efficient projects by the combination of different lighting sources Wilfried Pohl, Bartenbach LichtLabor GmbH
13,30/14,00	Defining the space between natural and artificial light Vicente Blanca, ETS Arquitectura-UPV
14,00/15,30	Lunch
15,30/16,00	Control and regulation technologies for artificial light Jorge Hernández, Asociación ITACA
16,30/16,45	Break
16,00/16,30	Lighting projects in Spanish building regulations Elena Sanjuán, aido Vicente Ferrer Plaza, SERING 2000
16,45/18,15	Meetings One to One

27th NOVEMBER

**5th NATIONAL WORKSHOP ON
PROCESSING MATERIALS
WITH LASERS**

TIME	LASER DEVICES AND SYSTEMS
9,00/9,30	Registration and receive documentation
9,30/9,50	Measuring the bar smile on the laser diode arrays J. Antonio Ramos, aido
9,50/10,10	Data storage in optical discs with nano-structured gratings H.J. Eichler, Institute of Optics and Anatomic Physics, Technical University Berlin
10,10/10,30	New high power diode lasers for pulse mode E. Méndez, Monocrom, S.L.
10,30/10,50	Efficient micro machining with high power picosecond lasers S. Weiler, Trumpf Laser GmbH + Co.
10,50/11,10	High power UV nanosecond and picosecond DPSS lasers for microelectronics: flat panel displays and solar cell processing V. Guadaño, Spectra-Physics
	MACRO-PROCESSES: THERMAL TREATMENTS, RM AND WELDING
11,10/11,30	Influence of initial materials properties on direct fabrication of dense parts by selective laser melting technology M. Averyanova, ENISE Laboratoire DIPI
11,30/12,00	Break
12,00/12,20	Rapid manufacturing of final dies and cores for production of large series of sintered parts J.Greses, EOS
12,20/12,40	Comparative study of the surface laser hardening process with AISI 1045 and AISI 4140 steels C. Soriano, Tekniker
12,40/13,00	Improving the fast wear of steels in AISI M2 tools through the superficial fusion via laser G. Castro, AIMEN
13,00/13,20	Generating residual tensions in the laser plating process A. Yáñez, U. La Coruña



- 13,20/13,40 **Combined welding via laser technology in a large crumpling unit for the paper industry: produced in stainless steel**
F. Zubiri, Lortek
- 13,40/14,00 **Using remote laser welders in applications to manufacture automotive components**
D. Torrens, Rofin Baasel España
- 14,00/15,30 Lunch
- 15,30/15,50 **Wear resistant WC layers applied by cladding process using high power diode laser: new developments and industrial applications**
D. Dezert, Technogenia
- 15,50/16,10 **Reactivity between basic Titanium and Graphite powders during laser cladding processing**
V. Amigó, UPV
- 16,10/16,30 **Laser technology in repairing turbo-machinery**
J. Sampedro, aido
- 16,30/16,45 Break
- 16,45/17,05 **Issues in laser cladding coatings over aluminium alloys with Al-Si powder**
J.J. Candel, UPV
- MICRO-PROCESSES: MICRO-PRODUCTION AND LASER ABLATION**
- 17,05/17,25 **Hydroxyapatite coatings substituted with Silicon via pulse laser deposit**
J. Serra, Universidad de Vigo
- 17,25/17,45 **Laser machining of thin film solar cells with ultra short pulse lasers**
J. Haenel, 3D-Micromac AG.
- 17,45/18,05 **Thermoelectric ceramics textured via zonal laser fusion**
J. C. Diez, Universidad de Zaragoza - CISC
- 18,05/18,25 **Water laser processing**
L. Martí, aido
- 18,25/18,45 **Exciplex laser ablation of fabrics**
J.G. Darias, CEADEN

***aido**

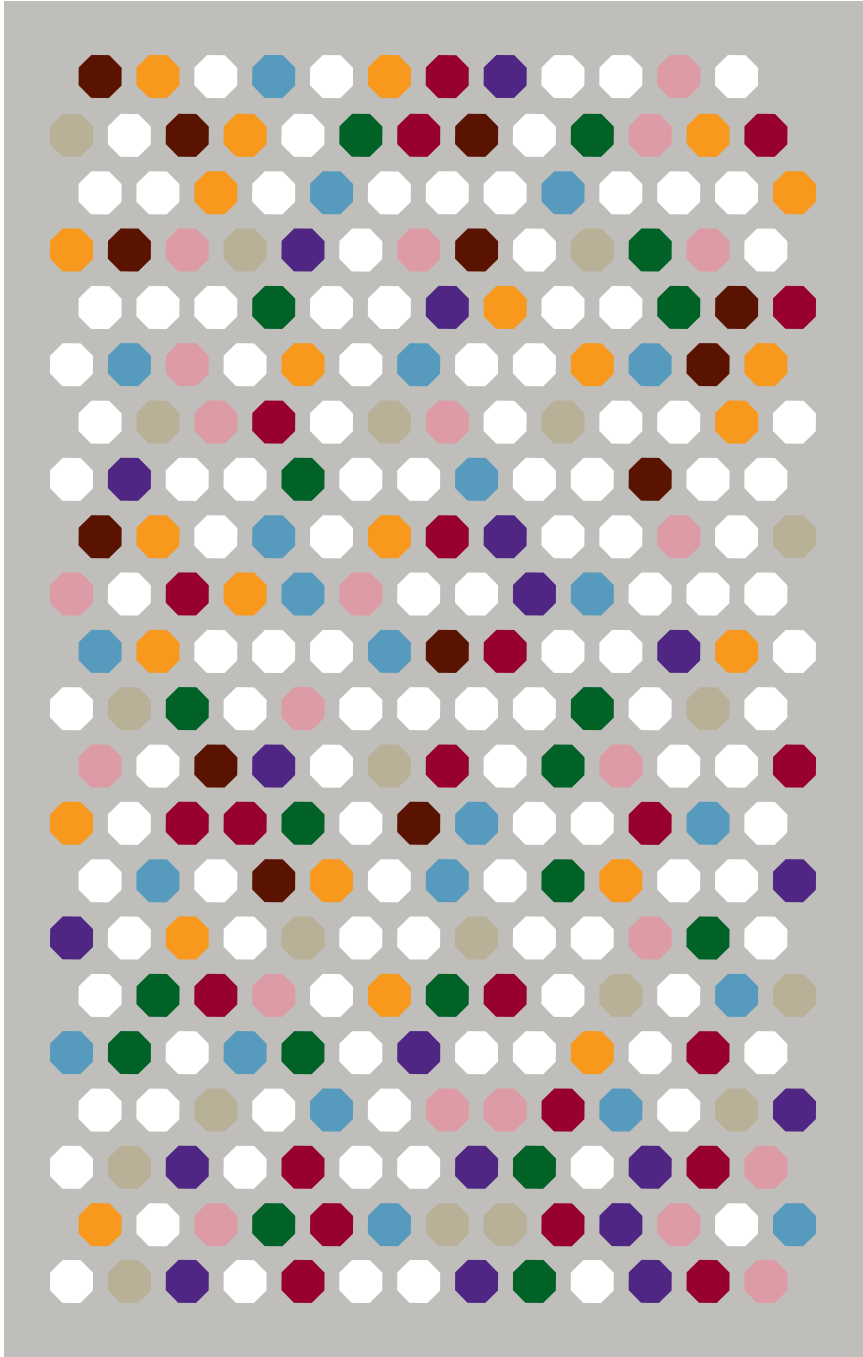
reserves the right to make any changes in this schedule due to external events beyond their control.

ABOUT AIDO

The Technological Institute of Optics, Colour and Imaging (AIDO) is an innovative and technological expert in the application of optics technology to various industrial processes. Currently the centre has become a strategic technological ally for industries in the following sectors: Graphic arts, Audiovisual, Automotive, Aerospace, Art and Restoration, Biomedicine, Commerce, Ceramics, Consultancy, Packaging, Renewable Energies, Lighting, Engineering, Machinery and equipment, Tool and dies, Optics, Paints, Plastics, Chemical and ICTs.

The flexibility of optics technology allows AIDO to work for various business sectors as their technological partner specialised in supplying R+D+I solutions. Through the industrial application of optics technology, AIDO is capable of providing advanced solutions to different problems in many industrial sectors throughout the economy.

See more information at www.aido.es



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