

AIMEN LASER

XVI Jornadas / Workshop

Procesado de Materiales con Tecnología Láser
Materials Processing with Laser Technology

Noviembre | 10-11 | November | 2022



Laser Applications Centre - AIMEN Technology Centre

Polígono Industrial de Cataboi SUR-PPI-2 (Sector 2), Parcela 3
ES36418 O PORRIÑO - Pontevedra (Spain)



<https://jornadalaser.aimen.es/>



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Thursday, 10th November 2022 - Laser Industrial Applications

8.30 to 9.00h Register and delivery of material

9.00 a 9.30h Official opening

9.30 to 10.25h Platinum Session

Overcoming challenges in battery manufacturing with high brightness center mode fiber lasers

Dr. Peter Kallage – COHERENT

High-speed Laser Metal Deposition technology: applications from industry & recent system technology

Marco Goebel - TRUMPF

Laser inspection tools for e-mobility welding applications

Bernd Lorösch – ABICOR BINZEL IBÉRICA S.L.

10.25 to 11.20h Session 1: Systems and laser applications in the automotive industry

Blue diode lasers: new chances in material processing due to increased power level

Luisa-Marie Heine - Laserline GmbH

Dynamic beam lasers, new parameters for laser welding

Nina Armon - Civan Lasers

Yield and throughput improvements of anode and cathode manufacturing with laser processes

Marcello Bianchi - Innova Scientific – Lumentum

11.20 to 12.05h Coffee networking & visit to the technology fair

12.05 to 13.45h Session 1: Systems and laser applications in the automotive industry

FACENDO 4.0: laser based solutions to increase competitiveness, innovation and digital transformation of Stellantis

Juan José Areal - Stellantis

Nerea Otero – AIMEN Technology Centre

Dual laser beam solution for lap joint welding of bright materials

Juan Isaza - EXOM Engineering

Latest developments in high brightness blue lasers allow automated high-speed welding of copper and aluminum alloys

Sandrine Grenet – MTB

IPG Photonics solutions for E-V welding applications

Joan Marsal - IPG Photonics

Scan systems for laser material processing

Violetta Urban – SCANLAB GmbH

MPLC systems to improve high-power CW laser as well as fs laser based processes

Gwenn Pallier – Sailabs

13.45 to 15.00h Lunch networking

15.00 to 16.15h Session 2: Other laser applications in the manufacturing industry

Innovations in laser technology for cutting

Yerai Roque – AMADA Maquinaria Ibérica S.L.U.

Laser Metal Deposition manufacturing solution for steel making components

Marcos Cejuela - Arcelormittal

Thermal degradation of CF/PAEK composites manufactured by laser-assisted AFP

Julien Moothoo - Daher Aerospace

Towards industrial productivity with ultrashort pulses: some examples

Eva Rodríguez - Tekniker

16.15 to 16.30h Coffee networking

16.30 to 18.00h Session 3: Process monitoring and laser safety

Process monitoring of brake disc coating with laser

Germán Vergara - New Infrared Technologies S.L.

The importance of integrating safety in the design of laser systems for industry

Youssef Lebour – Procareligh S.L.

New approaches in additive manufacturing: the final steps in DED with powder and wire towards guaranteed quality and "First Time Right"

Dr. Markus Kogel-Hollacher - Precitec GmbH & Co. KG

High dynamic range InGaAs and CMOS cameras for laser manufacturing and processing monitoring

Martin Du Tertre - New Imaging Technologies - Iberoptics

CLAUDIT: laser enclosure with intelligent detection threshold by thermography

Josep Maria Silvestre – Procareligh S.L.

21.00h Dinner & social event

Friday, 11th November 2022 - Laser Research

9.30 to 11.15h Session 4: New processes and others

PULSATE and PHOTONHUB, opportunities for adopting laser and photonic technologies in manufacturing industries

Jörg Hermsdorf - Laser Zentrum Hannover e.V.

Pablo Romero - AIMEN Technology Centre

Multi-material coatings with gradient composition by laser DED

María José Tobar – Universidad de A Coruña

Laser vitrification of ceramics to prevent corrosion in offshore wind structures

Fernando Liébana - Fundación Tecnalia Research & Innovation

Influence of advanced laser welding techniques in electromobility applications

María del Carmen Taboada - Lortek S.Coop

Systems and methods of laser micro-manufacturing, facing new challenges in dimension, precision and productivity

Pablo Romero – AIMEN Technology Centre

Microstructure and nanostructure control combining laser and SALD

Germán de la Fuente – CSIC

11.15 to 11.45h Coffee networking & visit to the technology fair

11.45 to 13.25h Session 4: New processes and others

Additive manufacturing of Ti6Al4V alloy by Laser Wire Directed Energy Deposition (W-DED-LB) process

Eva Vaamonde – AIMEN Technology Centre

Laser beam control in coaxial laser double-wire Direct Energy Deposition using different wire materials

Nick Schwarz - Laser Zentrum Hannover e.V.

Review and proposal of operating parameters and joint preparation in hybrid laser and electric arc welding processes

Ángel Artero - Universidad de Sevilla

Ultrafast laser ablation for surface preparation of GFRP composites used in shipbuilding

Javier Lamas – Universidad de A Coruña

Powder behavior study during Metallic Directed Energy Deposition process via optical setups

Clovis Alleaume – AIMEN Technology Centre

Metal additive manufacturing via a novel composite material using powder and polymers formed in sheets

Rocco Lupoi - Trinity College Dublin

13.25 to 13.30h Closing

13.30 to 14.30h Lunch networking

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