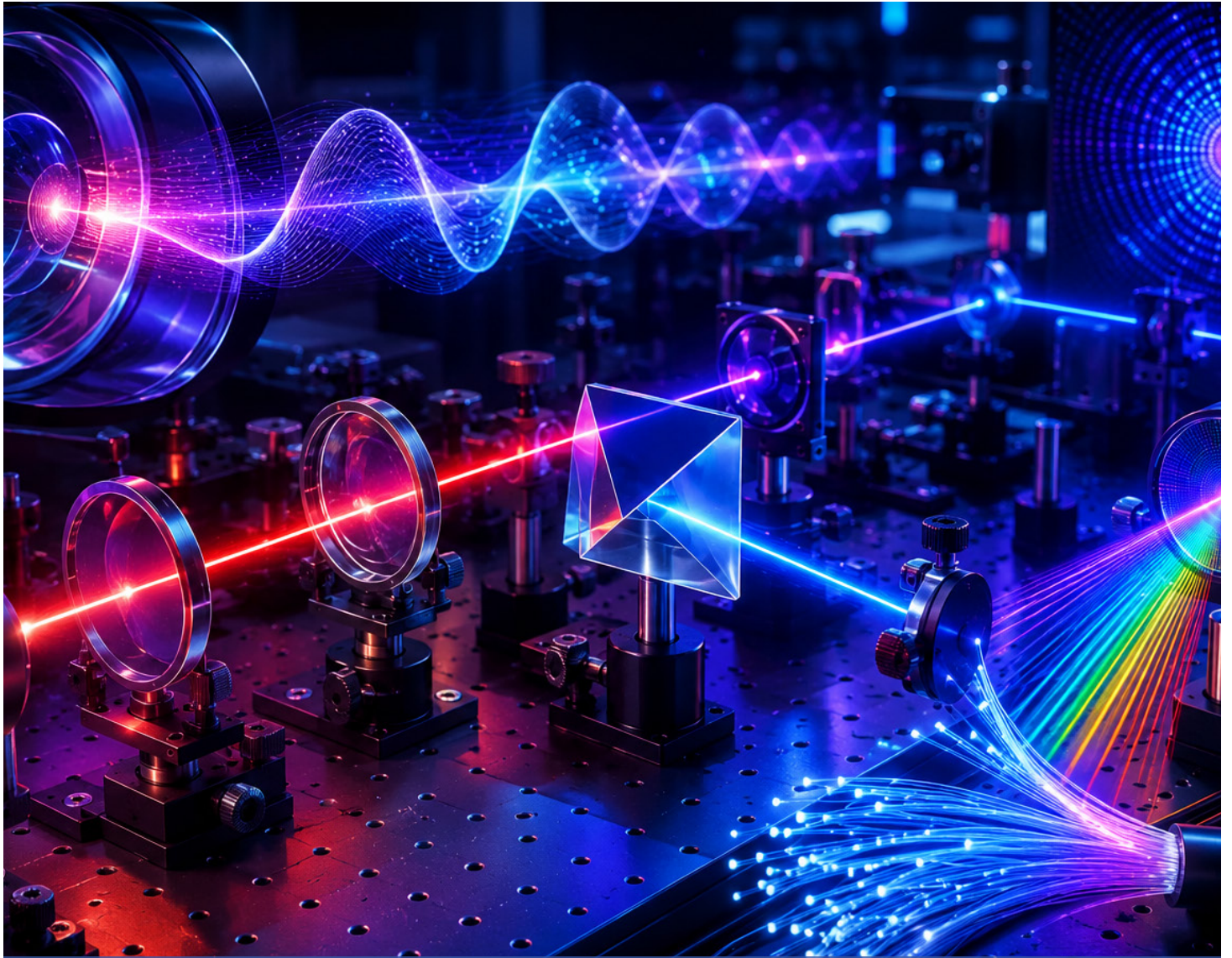


**LASEROPTICS2026**



**INTERNATIONAL CONFERENCE ON  
LASERS, OPTICS AND PHOTONICS**



May 28, 2026



Barcelona, Spain

**FINAL PROGRAM**

## Welcome Message

It is with great pleasure that we welcome you to LaserOptics 2026 – The International Conference on Lasers, Optics and Photonics, taking place on May 28, 2026, in the vibrant city of Barcelona, Spain.

LaserOptics 2026 is designed as a focused and high-impact global forum, bringing together leading experts, researchers, and industry professionals in lasers, optics, photonics, and emerging technologies. This one-day program has been thoughtfully structured to deliver concentrated scientific value, enabling meaningful exchanges and impactful discussions within a dynamic and collaborative environment.

Throughout the day, you will experience a carefully curated agenda featuring keynote presentations, invited talks, and technical sessions that highlight the latest advancements and real-world applications in the field. Our goal is to foster insightful dialogue, encourage new collaborations, and inspire innovative directions in research and technology.

We extend our sincere appreciation to all speakers, participants, and contributors whose expertise and engagement make this conference possible. Your presence plays a vital role in advancing the global photonics community.

We wish you a productive and enriching experience at LaserOptics 2026 and a memorable stay in Barcelona.

Warm regards,

On behalf of the Organizing Committee

LaserOptics 2026

Creovate Conferences

# DAY-1 | MAY 28, 2026

09:00-09:45

REGISTRATION

**On-Spot Registration & ID Card Collection**

09:45-10:00

OPENING

**Opening Ceremony by Conference Chair**

Hakan Ates

## Plenary Presentations (10:00-11:30)

10:00-10:45

PLENARY

**Ultrafast Structural Dynamics in Solids Driven by Femtosecond Laser Pulses: From Nonthermal Femtosecond Bond Breaking to Picosecond Crystallization**

Martin E. Garcia

University of Kassel, Germany

10:45-11:30

PLENARY

**Compound Semiconductors and VCSEL Chips Technology and Applications**

David Cooke

Director of Sales at Vital Materials, USA

11:30-11:45

BREAK

**Coffee Break & Networking**

## Keynote Presentations (11:45-15:40)

11:45-12:20

KEYNOTE

### **Reduction of Multiple Filamentation due to Atmospheric Turbulence During Propagation of a Laser Pulse**

**Alain Bourdier**

University of New Mexico, USA

12:20-12:55

KEYNOTE

### **Breaking the Rayleigh Diffraction Limit: Passive Super-Resolution Imaging of Incoherent Objects**

**Christine Wang**

Co-Founder and Chief Technology Officer of Diffraction, USA

12:55-13:55

BREAK

### **Networking Lunch and Group Photograph**

13:55-14:30

KEYNOTE

### **Computational Materials Engineering and Nanotechnology: Study of the Relationship between Mechanical and Optical Behaviors**

**Hakan Ates**

Gazi University, Turkey

14:30-15:05

KEYNOTE

**Research on Ultra-Clean Automatic Precision Assembly Technology for Optical Module of Large High-Power Solid-State Laser Facility**

**Xiaodong YUAN**

Laser Fusion Research Center, CAEP, China

15:05-15:40

KEYNOTE

**Perovskite SLIPT Receivers for Simultaneous Energy Harvesting and High-Speed Optical Wireless Communication**

**Tariq Sajjad**

School of Engineering and Design, London South Bank University, UK

**Featured Presentations (15:40-18:00)**

15:40-16:05

FEATURED

**Process Engineering for Navigation Systems and Sensor Technologies in Photonics Approach**

**Mehmet Civan**

Roketsan, Turkey

16:05-16:30

FEATURED

**Versatile Optical Tweezer by Geometric Metalens with Phase-Tailored Focusing Trajectory**

**Weijie Shi**

Southeast University, China

16:30-16:45

BREAK

## Coffee Break & Networking

16:45-17:10

FEATURED

### The Effect of Hybrid Modification on the Mechanical Properties of the Ti13Nb13Zr Alloy Surface

**Dominika Beata Kwidzińska**

Gdansk University of Technology, Poland

17:10-17:35

FEATURED

### Generation of Tunable Longitudinal Superchirality by a Vector-Light Metalens

**Wenjing Sun**

Southeast University, China

17:35-18:00

FEATURED

### Analysis of Factors Influencing the Surface Cleanliness Quality of Optics for Laser System in Cleanroom Operations

**Yilan Jiang**

Laser Fusion Research Center, CAEP, China

## Poster Session & Networking (18:00 - 18:20)

POSTER

PO1

### **Influence of Decellularization Techniques on the Structural and Functional Properties of Human Amniotic Membrane Scaffolds**

**Paulina A. I. Hernández B**

Center for Research in Optics AC, Mexico

## **Conference Wrap-Up, Closing Remarks & Group Photograph**

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## A Message of Gratitude

On behalf of Creovate Conferences and LaserOptics 2026, we extend our sincere appreciation to all speakers, scientific committee members, partners, and organizing team members whose valuable contributions have made this conference possible.

We are especially grateful to our distinguished keynote speakers, plenary speakers, and industry experts for sharing their knowledge, insights, and innovations in the fields of lasers, optics, photonics, and emerging technologies.

LaserOptics 2026 serves as a focused international platform where scientific research, technological advancement, and industry collaboration come together to inspire innovation and meaningful discussion. Set in the vibrant city of Barcelona, Spain, this conference brings together researchers, academicians, industry professionals, and innovators from around the world to exchange ideas, foster collaborations, and explore the future of photonics and optical sciences.

We sincerely hope that LaserOptics 2026 provides an enriching and impactful experience for all participants through insightful presentations, engaging discussions, and valuable networking opportunities.

As you continue your professional and research journeys, we wish you continued success, innovation, and inspiration in advancing the fields of lasers, optics, and photonics.

Warm regards,

On behalf of the Organizing Committee

LaserOptics 2026

Creovate Conferences