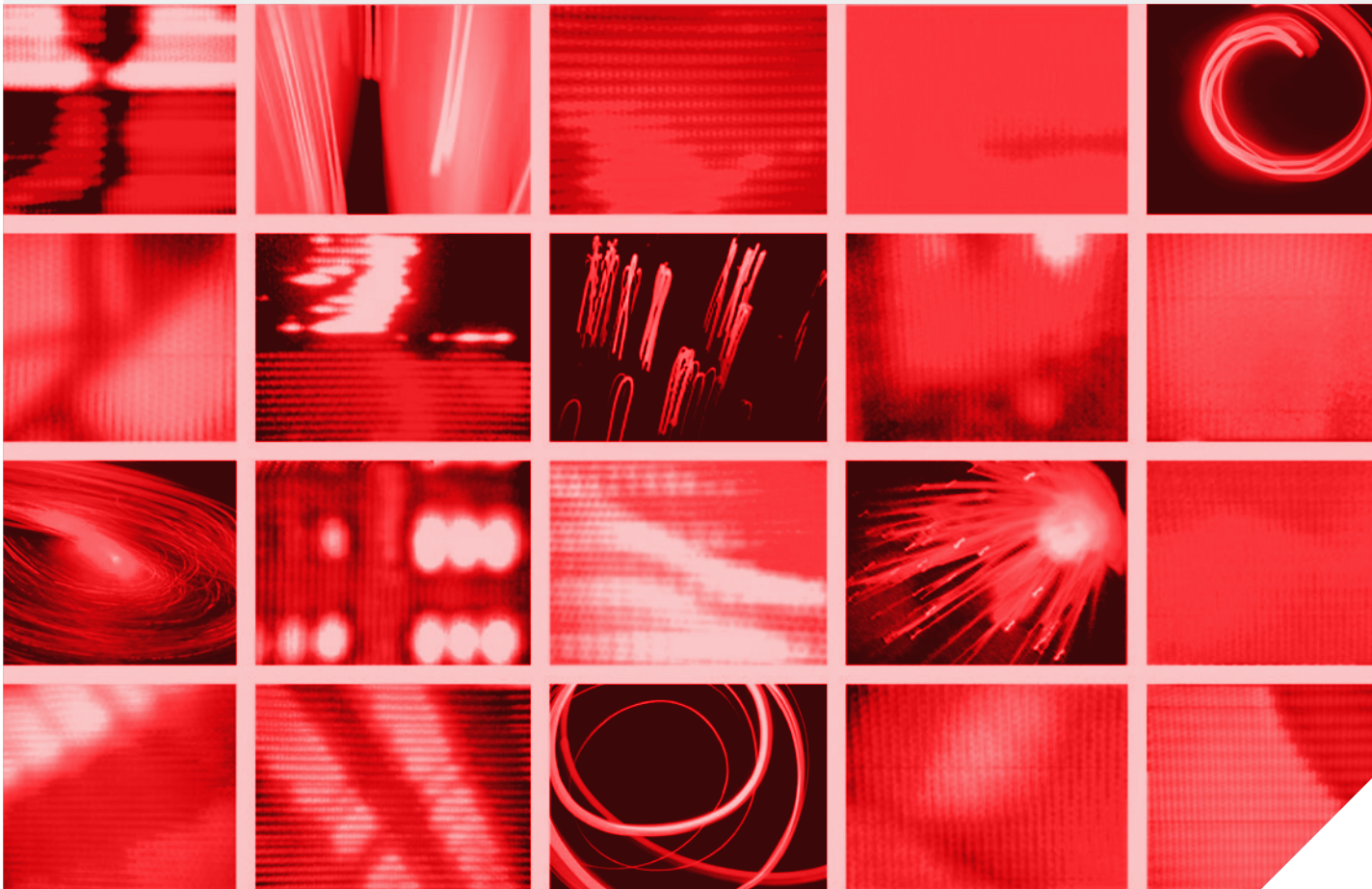


LASER WORLD OF PHOTONICS 2017

JUNE 26-29, 2017
MUNICH TRADE FAIR CENTRE
HALL B3 – BOOTHS B3.240 & B3.340



IN PARTNERSHIP WITH:



FLOOR PLAN

<p>CRISTAL LASER 340/3</p> <p>◀</p>		<p>ELECTRONIC DEVELOPMENT NORMANDY 340/2</p> <p>◀</p>		<p>PHASICS 340/1</p> <p>◀</p>	
<p>▶</p>					
<p>SYMETRIE 340/4</p>	<p>SAFRAN REOSC 340/5</p>	<p>PYXALIS 340/6</p>	<p>NEW IMAGING TECHNOLOGY 340/7</p>	<p>GLOPHOTONICS 340/8</p>	<p>▶</p>

<p>VERRE & QUARTZ FLASHLAMPS 240/4</p> <p>◀</p>		<p>BERTIN TECHNOLOGIES BUSINESS FRANCE 240/3</p> <p>◀</p>		<p>LYTID 240/2</p>		<p>TEEM PHOTONICS 240/1</p> <p>◀</p>	
<p>▶</p>							
<p>QIOVA 240/5</p>	<p>CILAS 240/6</p>	<p>FIRST LIGHT IMAGING 240/7</p>	<p>OPTIQUE DE PRECISION J. FICHOU 240/8</p>	<p>SAVIMEX 240/9</p>	<p>▶</p>		

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BERTIN TECHNOLOGIES

Hall B3 - Booth 240/3



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CILAS (ASL GROUP)

Hall B3 - Booth 240/6



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Activities & Products

Bertin Technologies develops complex systems on the following applications:

- OGSE/MGSE/EGSE
 - High stability & Calibration Instrumentation
 - Metrology & Specific Environment Instrumentation
 - Quality: From design to qualification
- Design to the Assembly, Integration, Testing, Validation phases

Interests

- Optics, Opto-mechanics, electronics and instrumentation
- High precision assembling and manufacturing technologies
- Optical manufacturing components (mirrors, lenses, filters) Aerospace compatible

Activities & Products

CILAS, Industrial Company of LASers, is a French company subsidiary of ASL group and AREVA. For over 50 years, CILAS has developed recognized expertise in laser and optical technologies for defence and security, and civil markets. CILAS manufactures deformable mirrors, complex optical components, and large optical coatings, for space, astronomy, industry and scientific applications.

Interests

CILAS is interested in optical manufacturers and laser, space and astronomy instrumentation manufacturers.



CRISTAL LASER SA

Hall B3 - Booth 340/3



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Activities & Products

More than 25 years of experience! www.cristal-laser.com
Leading Manufacturer of Flux-Grown non-linear crystals.

Worldwide reputation reinforces our long standing partnership with valued customers, based on the reliability of our products, technical innovation and responsiveness. We offer the highest level of Quality and Product Development with more than 60 crystal growth stations, state-of-the-art fabrication department and material characterization capabilities. **LBO**: most popularly used material for Second Harmonic Generation (SHG) of 1064nm high power lasers and Sum Frequency Generation (SFG) of 1064nm laser source to achieve UV light @355nm. **KTP**: high damage threshold, preferred crystal for laser applications in medical, industrial, defense, scientific fields. **RTP**: widely used for Electro Optical applications when low switching voltages required. High extinction ratio. **KTA**: mainly developed for Optical Parametric Oscillation (OPO). **KTP.fr**: upgraded version of standard KTP when grey-tracking limits the performance of the crystal

Interests

Medical & Biomedical: Ophthalmology, ADN sequencing, Flow cytometry, Dermatology. **Space & Defense**: Eye-safe designators, Range-finding, Air/Space-borne lasers. **Industry & Research**: Laser-display, Holography, Marking, Scribing, TI: Sapphire pumping

E.D.N.

Hall B3 - Booth 340/2

E.D.N.

High Voltage and
Laser Power Supplies

Stéphane LATROUITE

Managing Director

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FIRST LIGHT IMAGING

Hall B3 - Booth 240/7



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Activities & Products

EDN designs and manufactures High voltage power supplies.

Production examples:

- Switching power supplies for xenon flash lamps (PhotoFlash, IPL, Solid-state lasers)
- High voltage capacitor power supplies
- Simmers, up to 500W / 1,5Amps
- Laser diode supplies
- High voltage power modules up to 35Kv
- OEM power supplies on customer specifications



Interests

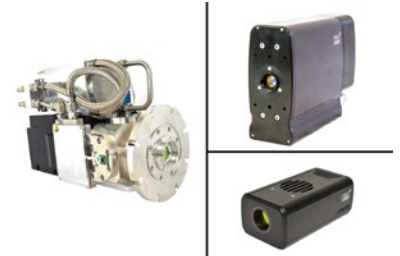
Medical and industrial applications

EDN is THE designer and manufacturer of ELI-NP Laser Power Supplies.

Activities & Products

FIRST LIGHT IMAGING designs and builds high speed low noise Visible and Infrared scientific cameras for Astronomy, Bio-imagery and Industry:

- OCAM²K, EMCCD visible camera, 2000 fps full frame, subelectron read out noise,
- OCAM²S, EMCCD visible camera, same performances with an electronic embedded shutter,
- C-RED One, e-APD MCT Infrared Camera, 320x256, 3500 fps full frame, subelectron RON
- C-RED 2, InGaAs Infrared Camera, 640x512, 400 fps full frame, RON <10 electrons



Interests

Looking for new opportunities in industry and bio-imagery: customers, partners, distributors.

FLASHLAMPS VERRE & QUARTZ SASU

Hall B3 - Booth 240/4



FLASHLAMPS
VERRE & QUARTZ

Emmanuel DIOT

President

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Activities & Products

Manufacturer of flashlamps and arc lamps for research, industry, medical and military applications Manufacturer of neon warning beacons Manufacturer of a wide range of glass products (flow tubes, vacuum tubes, special glass pieces on demand...)

- Flashlamps and arc lamps for optical laser pumping, IPL flashlamps for aesthetics and dermatology, studio photography, strobe lights, anti-collision lights for aircrafts and helicopters, runway lighting, UV-flash disinfection for the food industry and medical instrument, solar simulation, printing and reprography...
- Neon warning beacons for the aerospace industry
- Trigger transformers for HV ignition of the flashlamps
- Tailor-made long discharge lamps



Interests

- Establish new business contacts
- Meet our long-standing clients
- Approach new suppliers
- Introduce our work of activity

www.flashlamps-vq.com

GLOPHOTONICS

Hall B3 - Booth 340/8



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Lead Founder

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Activities & Products

GLOphotonics is a spin-off of a research group, led by Professor Fetah BENABID, which develops, manufactures and markets gas phased photonic components using Hollow Core Photonic Crystal Fibers (HC-PCF). The unique features of this innovative fiber technology provide a flexible and cost effective way to shape and transport Ultra Short laser Pulses (USP) with extremely low attenuation and nearly-free temporal and spectral distortion.

GLOphotonics product offer include:

The Photonic Microcell (PMC), a stand-alone component that consist of a HC-PCF filled with gas and fiber terminations which can be tailored to customer needs.

The Beam Delivery System (BDS), a ruggedized and pre-aligned module for high power beam delivery, available for Yb, Nd:Yag lasers and also now for 500 – 700 nm spectral range.



LYTID SAS

Hall B3 - Booth 240/2



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Co-founder

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Co-founder

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Activities & Products

LYTID commercialises high power CW terahertz sources for research and industry. Lytid's core technologies are the quantum cascade laser and Schottky diodes multiplier chains. The award winning TeraCascade 1000 series terahertz laser source is the most powerful, easy to use and compact system on the market. TeraCascade provides miliwatt level of average power between 2 and 5 THz in a cryogen-free package. Up to 6 QCL chips in a singel system can be electronically switched via the integrated touchscreen interface.

TeraSchottky isa full electronic source based on Schottky multipliers chain provides tens of miliwatt of average power at frequencies centered around 300 and 600GHz. TeraSchottky has the largest tunability available on the market combined with cutting edge performances on output powers and compacity.



High Power CW Terahertz Sources for Science and Industry



TeraCascade 1000 series

THz source based on cryogen-free cooled Quantum Cascade Lasers



New - TeraCascade 100 series

THz source based on nitrogen-cooled Quantum Cascade Lasers



New - TeraSchottky

Sub-THz source based on Schottky diodes multipliers.

Interests

Lytid is looking for strong partners for the distribution of its products in Europe and the USA. Focus markets are academic and industrials laboratories.

NEW IMAGING TECHNOLOGIES (NIT)

Hall B3 - Booth 340/7



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Sales Director

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Activities & Products

NIT is a spin-off from the French Institute of Telecommunications. NIT offers a complete range of standard, customized and full custom HDR CMOS & SWIR imaging sensors for applications such as machine vision, automotive transportation, biometrics, medical, security & surveillance.

Interests

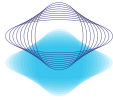
Interest for SWIR and HDR visible imaging
Worldwide



www.new-imaging-technologies.com

OPTIQUE DE PRÉCISION J. FICHOU

Hall B3 - Booth 240/8



FICHOU

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www.optique-fichou.com

Activities & Products

Since 1946, FICHOU is a key French player of high precision optics (mostly for space, defense and R&D applications).

Thanks to strong knowhow, the company is the ideal partner for the development and production of coated (UV-FIR) optical components. All kind of materials (glasses, crystals) could be polished and coated.



Interests

- High quality optics
- Polarization optics, prisms, mirrors, lenses
- Range of material: sapphire, ZnSe, Zerodur, Germanium, CaF2
- Complex custom optics
- Short lead time coating
- High skill team

PHASICS

Hall B3 - Booth 340/1



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www.phasics.fr

Activities & Products

PHASICS offers high resolution wavefront sensors from 193nm to 14µm.

Their patented technology ensures both accurate measurement and ease of use. They apply to laser beam test, adaptive optics, lens alignment and quality control, as well as quantitative phase imaging for biology and plasma measurement.



Interests

- Wavefront sensor from UV to far IR
- Laser beam testing
- Adaptive optics with any deformable mirror
- Plasma characterization
- Aberrations and MTF measurement bench
- Quantitative phase imaging

PYXALIS

Hall B3 - Booth 340/6



Benoit DUPONT

Business Dev.

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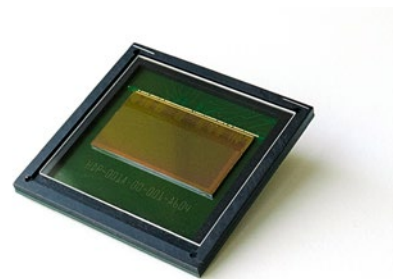
benoit.dupont@pyxalis.com

www.pyxalis.com

Activities & Products

PYXALIS, high performance image sensors.

Funded in 2010, Pyxalis is a supplier of custom image sensors and design services specialized in advanced CMOS image sensors. Pyxalis application domains are Machine Vision, Medical Xray, scientific imaging and high-end digital photography and motion capture.



Interests

- Machine vision
- Scientific imaging
- Medical imaging
- High speed imaging
- Motion capture
- Mobile applications

QIOVA

Hall B3 - Booth 240/5



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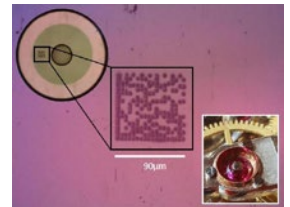
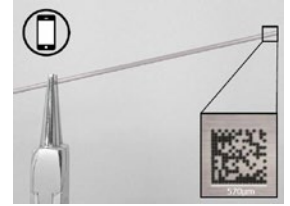
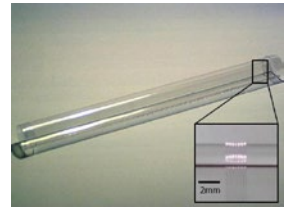
Activities & Products

QioVA:

- Expert in **laser marking** and **micromachining**, QioVA designs and manufactures a wide-range of innovative laser head for pulsed laser.

Product: VULQ1™

- A new way to control and shape the laser beam for **multidot** and **multibeam** applications:
 - Beam shaping
 - Parallel processing
 - High speed and resolution
 - Traceability and anti-counterfeiting
- Patented Technology
- Principle: **1 SHOT = 1 SHAPE**



**SAFRAN REOSC
(SAFRAN GROUP)**

Hall B3 - Booth 340/5



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Activities & Products

SAFRAN REOSC is a world leader in the design, production and integration of high-performance optics for astronomy, space, high energy laser and the industry.

Interests

From concept and design to manufacture and integration, Safran Reosc offers a complete range of high-performance optics and high-precision opto-mechanical equipment.



SAVIMEX

Hall B3 - Booth 240/9



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Activities & Products

Expert in the design and manufacturing of optical components in polymer materials as well as opto-mechanical sub-systems

PRODUCTS:

- Visors, masks, shields (clear/tinted/impact resistant/anti-fog/anti-scratch/UV protection) for helmets.
- Optical components (lenses, prisms, windows, mirrors, combiners) for automotive, LED lighting, safety, defence, eyewear.
- Mirrors, mould inserts, ultra-precision components for astronomy, space, defence, research.

SERVICES:

- Optical and mechanical CAD, mould design and manufacturing, thermoplastic injection, optical thin film coatings (on polymer materials), opto-mechanical sub-assemblies, ultra-precision machining by diamond turning and metrology.

Interests

Savimex proposes partnerships to companies having to develop, integrate and manufacture optical functions into their products.



SYMÉTRIE

Hall B3 - Booth 340/4



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Activities & Products

SYMETRIE designs and manufactures precision positioning systems that meet the most specific needs of industrialists and research laboratories.

SYMETRIE is a specialist of the hexapod, which can position an object in space following the 6 degrees of freedom with high accuracy, resolution and stiffness.



Interests

Optics, synchrotrons, space, astronomy, defence, research, naval
People who want to position optical components with high precision for calibration or for integration, such as mirrors on satellites or lenses in a camera
People who want to simulate vehicles trajectories (boat, submarine, tank, plane...) to test equipment (sensors, cameras, lasers...) that will then be put onboard.

Competitive advantages: hexapod specialist, flexibility, reactivity, customization, metrology competences and equipment, software experience.

TEEM PHOTONICS

Hall B3 - Booth 240/1



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Rainer HOERETH

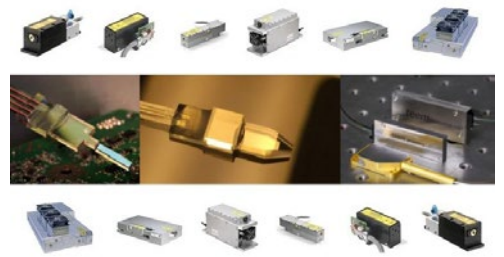
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r.hoereth@teemphotonics.com

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Activities & Products

TEEM PHOTONICS offers high performance pulsed sub-ns lasers at 2000, 1535, 1064, 532, 355, 266, 213 nm.

Its products are used by OEM and Laboratories for their unique combination of long lifetime (over 80,000 hours demonstrated), high dependability and cost effectiveness.



Interests

Teem Photonics laser products provide widely used solutions for OEM and R&D applications in Instrumentation, Sensing, Bioanalytics, Lidar and Materials processing equipment.

PARTNER

CNOP (FRENCH PHOTONICS)

www.cnop-france.org

PARTNER



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Activities & Products

Founded in 2003, CNOP brings together all French associations directly involved in Optics & Photonics.

It gathers the following 11 members: national associations, AFOP (French Trade Association for Optics and Photonics), SFO (Optics academic society), CLP (Industrial laser applications), Cluster Lumiere (network of the lightning industry) and the seven regional clusters which support the development of photonics in their regions: Route des Lasers in Aquitaine, Photonics Bretagne in Brittany, Pole des microtechniques in Franche-Comte, Elopsys in Limousin, Opticsvalley in Ile de France, Optitec in PACA & Languedoc-Rousillon and Minalogic in Rhone-Alpes. The CNOP has driven the French part of "2015, Year of Light".

Interests

The Association relies on various commissions to promote and develop French optics & Photonics activities.

Among them:

- The International Commission
- The Strategic Commission
- The Cartography Commission
- The Biophotonics Commission
- The Communications Commission
- The Education Commission
- The Large Equipment Commission
- The Laser Processes Commission
- The Security & Surveillance Commission
- The Telecom Commission

BUSINESS FRANCE

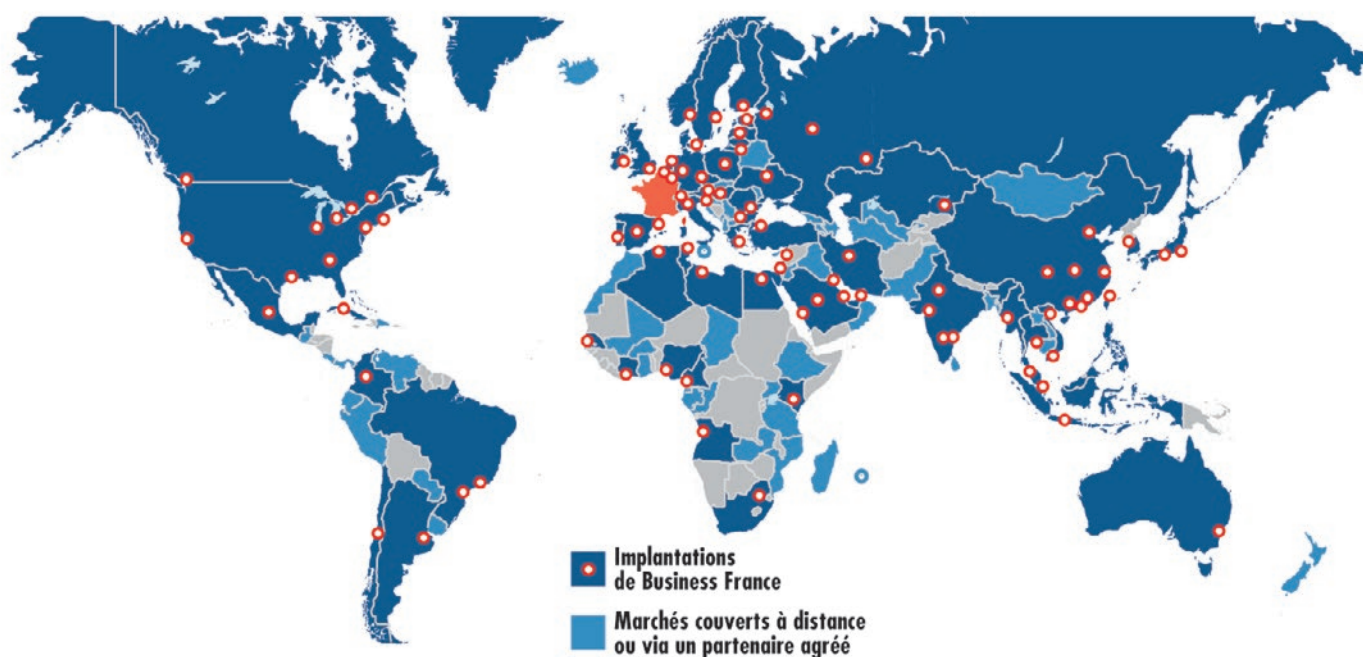
www.businessfrance.fr



Business France is the national agency supporting the international development of the French economy, responsible for fostering export growth by French businesses, as well as promoting and facilitating international investment in France.

It promotes France's companies, business image and nationwide attractiveness as an investment location, and also runs the VIE international internship program.

Founded on January 1, 2015 through a merger between UBIFRANCE and the Invest in France Agency, Business France has 1,500 personnel, both in France and in 73 countries throughout the world, who work with a network of public- and private-sector partners.

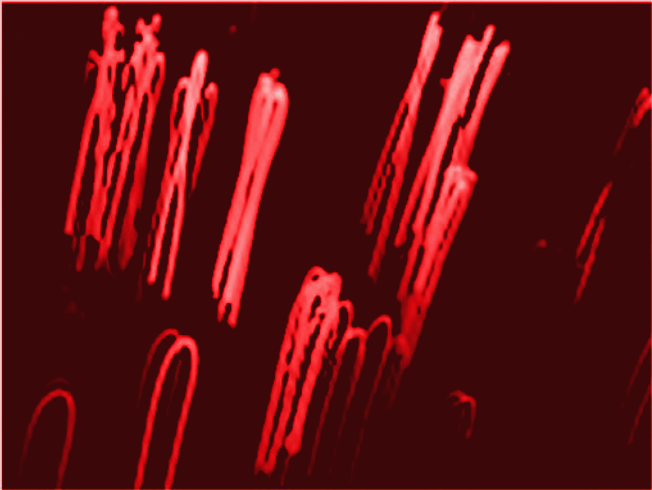




LASER WORLD OF PHOTONICS 2017

GERMANY - MUNICH

JUNE 26 -29, 2017




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77 boulevard Saint-Jacques
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www.businessfrance-tech.fr

Nathalie MARCHAL

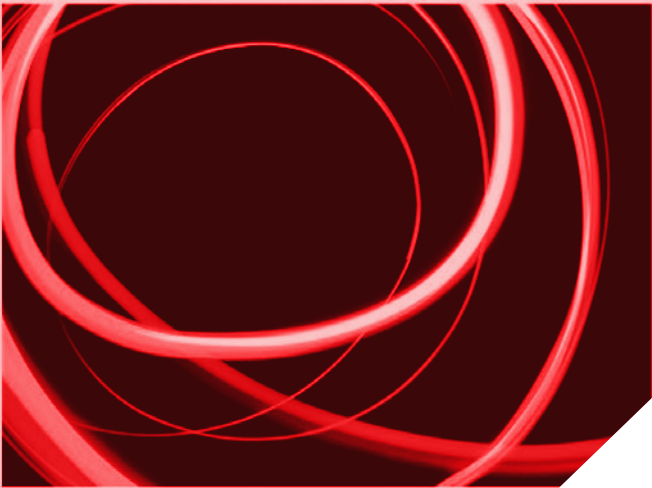
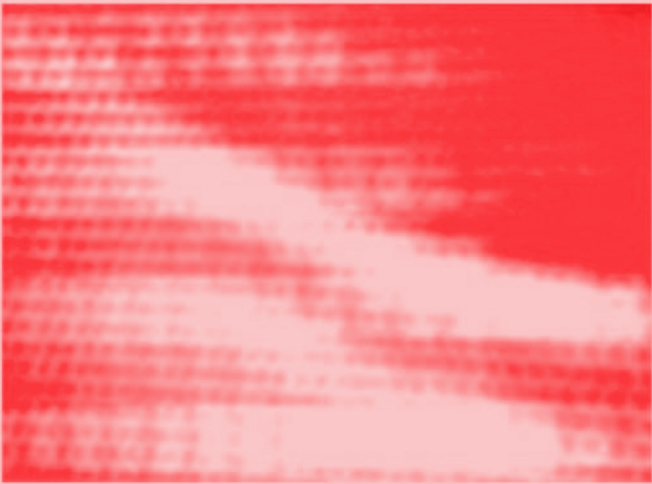
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Créative France is an unconventional campaign that enhance France's economic attractiveness and image abroad. The purpose of the campaign is to highlight our country's full range of strengths, skills and savoir-faire. For more information: creative.businessfrance.fr

