



FRENCH PHOTONICS & OPTICS IN STOCKHOLM

- COMPANY DIRECTORY -

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COMPANY DETAILS

Address:

2217 route de Meylan

38330 BIVIERS – France

Tel: +33 (0)4 76 63 55 05

Fax: +33 (0)4 76 51 45 32

www.alpao.com

Number of employees: 10

CONTACT

Frédéric ROOMS

President

frederic.rooms@alpao.fr

DESCRIPTION

Alpao is specialized in shaping light for various applications (see below). The main benefits are enhanced image resolutions and better optical beams.

PRODUCTS

Alpao designs and manufactures full Adaptive Optics Systems based on a unique technology of deformable mirrors and control software. Support and customization of the products is a key part of the company's services.

APPLICATIONS

- Astronomy
- Vision science
- Microscopy
- Free space optics communications
- Low power laser applications



- AMPLITUDE SYSTEMES -

COMPANY DETAILS

Address:

6 Allée Doyen Brus

33600 PESSAC – France

Tel: +33 (0)5 56 46 40 60

Fax: +33 (0)5 56 46 06 94

www.amplitude-systemes.com

Number of employees: 40

CONTACT

Vincent ROUFFIANGE

Sales Manager

vruffiange@amplitude-systemes.com



DESCRIPTION

Amplitude Systemes manufactures a new generation of ultrafast lasers, using direct diode-pumping of Ytterbium doped materials. Main features are small size, easy to use and high reliability.

PRODUCTS

Products include high energy femtosecond oscillators (t-pulse and Mikan series) as well as high repetition rate femtosecond amplifiers (s-Pulse series) and fiber amplifiers (Tangerine and Satsuma series).

APPLICATIONS

- R&D
- Solar cell research
- Micro-electronics
- Micromachining
- Biology
- Lab-on-chip
- Ophthalmology
- Medical
- Etc.

- EOLITE SYSTEMS -

COMPANY DETAILS

Address:

11 avenue Canteranne

33600 PESSAC – France

Tel: +33 (0)5 56 46 45 50

Fax: +33 (0)5 56 46 24 35

www.eolite.com

Number of employees: 25

CONTACT

David HORAIN

Sales Manager

david.horain@eolite.com

DESCRIPTION

EOLITE Systems develops and manufactures high power pulsed fiber lasers (nanosecond and picosecond) for a wide range of fine-technology micromachining applications.

PRODUCTS

BOREAS : High power short pulse fiber lasers (1030 nm, 515 nm, 343 nm), OCTOPUS : Multi fiber delivery rod type lasers(1030 nm, 515 nm) etc.

APPLICATIONS

- Micromachining/processing (cutting, engraving, ablation, drilling, printing, patterning...)

- Photovoltaic industry
- Semiconductor industry
- Material processing
- Etc.



- IMAGINE OPTIC -

COMPANY DETAILS

Address:

18 rue Charles de Gaulle
91400 ORSAY - France

Tel: +33 (0)1 64 86 15 60

Fax: +33 (0)1 64 86 15 61

www.imagine-optic.com

Number of employees: 20

CONTACT

Caroline ADAM

Sales Manager – Europe

cadam@imagine-optic.com

DESCRIPTION

Imagine Optic is a provider of Shack-Hartmann wavefront sensing hardware and software, adaptive optics technologies and professional services in applied optics.

PRODUCTS

- Wavefront sensors
- Optical metrology systems using a wavefront sensor
- Deformable mirrors
- Adaptive optics closed loop
- Associated software (wavefront analysis and correction) and services

APPLICATIONS

- Science
- Industrial quality control
- Space and defense
- Semiconductors
- Etc.



COMPANY DETAILS

Address:

Rue Paul Sabatier

22300 LANNION – France

Tel: +33 (0)2 96 04 10 50

Fax: +33 (0)2 96 04 10 60

www.iXFiber.com

Number of employees: 22

CONTACT

Patrice CROCHET

Sales Director

patrice.crochet@iXFiber.com

DESCRIPTION

Ixfiber designs, develops and manufactures active and passive specialty optical fibers and optical components for various applications (see below).

PRODUCTS

Rare earth doped fibers, double clad fibers, gyroscope fibers, photosensitive fibers, planar waveguide fibers, ultra high numerical aperture fibers, custom design, Fiber Bragg gratings, active doped fibers subassemblies etc.

APPLICATIONS

- Telecommunications
- R&D
- Military
- Industry

COMPANY DETAILS

Address:

5, rue Louis de Broglie
22300 LANNION – France
Tel: +33 (0)2 96 48 84 77
Fax: +33 (0)2 96 48 84 78
www.kerdry.com

Number of employees: 9

CONTACT

Denis TREGOAT
Director of PERFOS
(representing KERDRY)
dtregoat@perfos.com



DESCRIPTION

Kerdry studies, designs and manufactures customized thin films for advanced technologies. Expertise in high quality and ultra precision optical coatings and metal deposition that meet the requirements of the most demanding and diverse applications.

PRODUCTS

- Metallic coating deposition (Au, Ag, Al, Ti, Cr, Ni/Cr, Pt etc....)
- Optical coating (TiO₂, Ta₂O₅, SiO₂, MgF₂, Al₂O₃, HfO₂, ZrO₂...)
- Combination of metal and optical coating

APPLICATIONS

- Aerospace
- Defense
- Instrumentation
- Medical
- Telecommunications
- Optoelectronic
- Photonics etc.

COMPANY DETAILS

Address:

ESTER technopole
87069 LIMOGES cedex – France

Tel: +33 (0)5 55 35 81 27

Fax: +33 (0)5 55 35 81 34

www.leukos-systems.com

Number of employees: 4

CONTACT

Guillaume HUSS
CEO

guillaume.huss@leukos-systems.com



DESCRIPTION

LEUKOS Systems develops and markets innovative “supercontinuum” lasers exploiting the technology of micro-structured optic fibers (PCF).

PRODUCTS

- Wideband lasers from UV (320nm) to IR(2400nm)
- Mid-power lasers (1-200mW)
- Compact

APPLICATIONS

- Biomedical (high resolution imaging, flow cytometry...)
- Spectroscopy
- Optical components testing

- PHOTONIS TECHNOLOGIES -

COMPANY DETAILS

Address:

Axis Business Park- Bât E
18 Avenue de Pythagore
33700 MERIGNAC- France

Tel: +33 (0)5 56 16 40 50

Fax: +33 (0)5 56 16 40 53

www.photonis.com

Number of employees: 1000

CONTACT

Gert Nützel
Chief Scientist

gnutzel@Photonis.com

DESCRIPTION

PHOTONIS designs, develops and manufactures leading-edge photo sensor technology.

PRODUCTS

Image Intensifier Tubes, Micro-Channel Plates, Nuclear Detectors and Power Tubes.

APPLICATIONS

- Night Vision
- Industry & Science
- Medical Imaging applications.

PHOTONIS are interested in discovering Swedish R&D and new innovative technologies in the following areas : thin layers, glass technologies, optical & infra red detectors, image treatment, image fusion etc.

PHOTONIS

COMPANY DETAILS

Address:

Technopôle Brest-Iroise

29280 BREST – France

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www.telecom-bretagne.eu

CONTACTS

Frédéric LUCARZ

R&D Engineer

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Trevor HALL

Professor

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DESCRIPTION

Telecom Bretagne is a graduate engineering school and international research center. The Optics and Microwave Departments provides expertise in the field of microwave photonics for the deployment of “Radio-over-Fiber” technologies.

ACTIVITIES

- Engineering studies for the deployment of fiber-supported wireless access networks in indoor or outdoor environments.
- Modeling, design and test of optical/opto-electronic and RF (microwave/millimeter-wave) devices, subsystems and system architectures.
- Expertise in Microwave Photonics for the development of novel optical functions for radio-over-fiber applications.
- Expertise in Microwave and Millimeter-wave technologies : material characterization, mm-wave measurement, propagation, multi-antenna systems, RoF and mm-wave systems, MMIC design, antenna design, packaging, SAR (Specific Absorption Rate) modeling and measurements and development of electromagnetic simulation methods such as the TLM (Transmission Line Matrix).

- ALPHA ROUTE DES LASERS -

COMPANY DETAILS

Address:

42 avenue Général de Larminat
33001 BORDEAUX Cedex – France

Tel: +33 (0)5 57 57 84 83

Fax: +33 (0)5 56 24 06 39

www.routedeslasers.com

CONTACT

Françoise METIVIER

Project Manager

francoise.metivier@2adi.aquitaine.fr

DESCRIPTION

Route des Lasers competitiveness cluster gathers industry, research and education actors from the optics and lasers sector in Bordeaux, France. The cluster is dedicated to facilitate optics and lasers technology development and diffusion, primarily in laser systems and their applications, metrology and imaging and innovating physics, for industrial sectors such as: aeronautics and embedded systems, health, vision, chemistry, food industries, electronics.

- **Innovative companies in photonic technologies**

The Route des Lasers competitiveness cluster brings together 70 companies, a network of SMEs working with optical-photonic technologies and lasers, and corporate groups that lead their sectors.

- **One of Europe's highest concentrations of scientific expertise in photonics**

Research centered on optics, such as short-pulse lasers, nonlinear optics, spectroscopy, inertial confinement fusion, optics equipment ..., or on a more multidisciplinary level, nanophysics, bio-photonics, and image processing, have contributed to building the international reputation of the cluster's laboratories (CELIA, CPMOH, CEA, ICMCB...).

