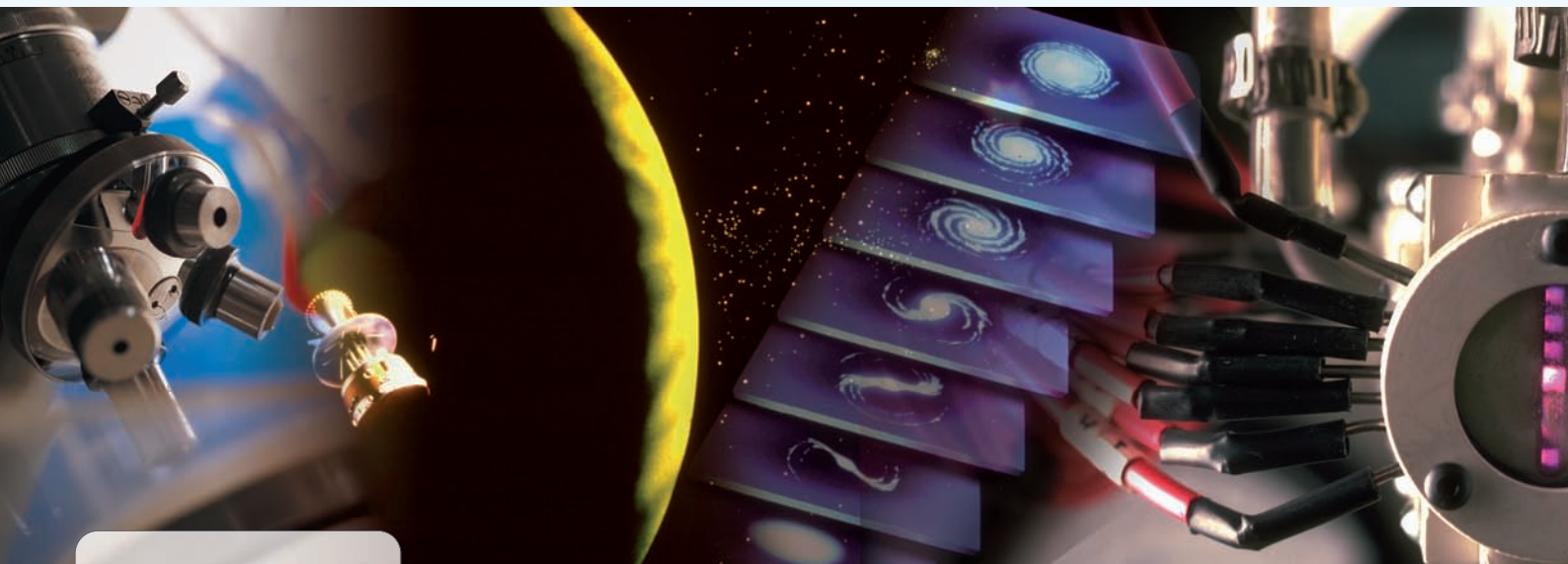




Optics

“ a shared vision ”



Key figures

170 companies

6,000 jobs
in the Rhône-Alps

Fields of excellence

- Optics, microphotonics
- Instrumentation, vision
- Inspection, lighting, space
- Imaging, laser, telecommunications
- Biotechnologies, nano and micro technologies

Cutting edge technologies

- High-precision aspherical machining
- Surface treatment using sol-gel
- Optical diffraction components
- Femto-second laser and associated processes
- Image processing and cutting-edge technology
- Micro and nano surface structuring
- Advanced night vision

BUSINESSES INVOLVED

Thales Angénieux
RS Automation Industrie
NT2I
Nexter
Optsys
JDS Uniphase
Impulsion
HEF R&D
Foretec Fibres Optiques
Courbon



M. PARRAIN

Managing Director of Thales Angénieux

The company was founded in 1935 by Pierre Angénieux. We specialise in precision optics and mechanics for cinema zoom lenses, television zoom lenses, night vision equipment for the Ministry of Defence and optical and mechanical sub-assemblies.

Thales Angénieux is the world's leading company in cinema zoom lenses. 95% of films have been made using Angénieux zoom lenses, and the company has won 2 Oscars for its know-how. We perfected the "Optimo" range which has won the support

of professionals. Here, we have a consistently high-quality and loyal workforce. Turnover has reached 30 million Euros. 10% is directly reinvested in local SMBs.



Training and research

- Ecole Nationale Supérieure des Mines de Saint-Etienne (ENSMSE)
- Ecole Nationale d'Ingénieurs de Saint-Etienne (ENISE) (engineering school)
- Institut d'Optique "Graduate School" (optics institute)
- TELECOM Saint-Etienne
- University Jean Monnet (U.J.M.)

A large number of establishments and other bodies provide courses in **professional technical education** (BAC-Pro, BTS, DUT, ...).

Laboratories

- **University Jean Monnet :**
 - Optoelectronic and microwave systems and instrumentation laboratory
 - Graphical computing and vision engineering laboratory
 - Laboratoire Hubert Curien
 - Signal analysis and industrial process laboratory (LASPI)
- **Ecole Nationale d'Ingénieurs de Saint-Etienne (ENISE) (engineering school)**
 - Diagnosis and imaging of industrial processes

Network

- The overall aim of the **Pôle Optique Rhône-Alpes** (optics centre) is to stimulate economic activity through its actions in the optics-photonics field, as well as in associated areas for which these techniques, which are very diffuse, will bring about new technological changes. It provides support for and unites R&D projects on themes which provide innovation and which can open up new market sectors as well as being able to maintain traditional market sectors at the best possible level. In addition, a team of 4 optician engineers provides technical assistance for SMBs/SMLs.
- **MINALOGIC** : competitiveness centre for Nano technologies
- **OPTITEC**
- **ARUFOG** : association for research and using fibre optics and guided optics (technology transfer centre)
- **INGRID** : network of technology platforms

Useful links

- www.arufog.org
- www.pole-ora.com

M. VALETTE

managing Director of Rhone-Alps Optics Center

The Pôle Optique Rhône-Alpes involves itself in economic activity by drawing on support for research and training, establishing the conditions for accessing micro- and nanotechnologies, assistance for SMBs. Consisting of 5 people, the Pôle ORA is a non profit-making association. We have the advantage of a suitably adapted scientific and industrial environment, of an industry

network made up of a number of SMBs which are responsive and in a position to create founding projects. In the Saint-Etienne basin there is a complementarity of skills in instrumental optics and precision engineering, as well as companies which are world-renowned in these fields.

MAIN ACTIONS

- Creation of technology platforms
- Setting up and providing support for strongly innovative R&D projects
- Technical assistance for SMBs/SMLs
- Creating a research team for "Architectures et systèmes optiques du future" (optical structures and systems of the future)
- R&D projects with the AEC



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