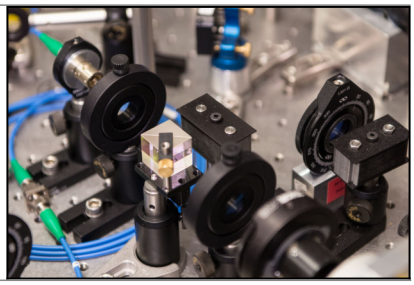
INSTITUT d'OPTIQUE GRADUATE SCHOOL | Continuing Education
Formation Continue

SC1 | Optomechanics



LEVEL: BASIC
Audience: Engineer or technician in design office, R&D, wishing to get specialized in optomechanics
Prerequisites: Basic knowledge in optcs and mechanics
Pedagogical manager(s): Sébastien De Rossi - Enseignant-chercheur à l'Institut d'Optique
Language of the training: French
Maximum capacity: 12
Price: 1820€ HT - **Duration:** 4 days - 28 h

Objectives

Learn the methods and means to specify, design and characterize an optomechanical system

Next sessions

- 04 june 2019 au 07 june 2019 - Palaiseau

Addressed topics

Optics
Optical surfacesand mechanical manufacturing
Mechanics
Optomechanics

SC1 | Optomechanics

The program

Optics
- Basics concepts of ray optics
- Image formation (paraxial approximation)
- Principles, description and characteristics of the fundamental optical instruments (pupils and stops)
- Introduction to aberrations
- Introduction to photometry
- Optical surface manufacturing; optical metrology

Mechanics
- General mechanics
- Thermics
- Mechanical properties of materials
- Motorization

Optomechanics
- From specifications to the optomechanical definition
- Stages of optomechanical design
- Materials
- Modeling and dimensioning
- Implementation plan

Methodology and assessment

General lectures
Tutorials
Optical workshop visit

Formation Continue de l'Institut d'Optique – 2 av. Augustin Fresnel, 91127 Palaiseau. Tél . : +33 1 6453 3236 – fc.institutoptique.fr
PARIS-SACLAY – SAINT-ETIENNE - BORDEAUX