

TWO TRAINING SESSIONS

ON FEBRUARY 16TH 2021 AT ACTUATOR

ONLINE TRAINING
SESSIONS

PIEZOELECTRIC ACTUATORS

Introductory course

Dr. Frank CLAEYSSEN

Basic knowledges

- Basics on piezoelectric materials bulk and MLA
- Piezo materials for actuators
- Constitutive laws / Equivalent electric circuit

Review of piezoelectric actuators

- Review of direct and amplified piezoelectric actuators
- Piezo mechanisms
- Exercises

Review of piezoelectric motors

- Piezoelectric motors
- Resonant structure
- Tribology of piezoelectric motors

Practises

LINEAR MAGNETIC ACTUATORS

Introductory course

Mr. Gérald AIGOUY

Basics of magnetism for actuators

- Magnetic effects and laws
- Magnetic forces
- Magnetic materials

Linear magnetic actuators

- The different kinds of linear actuators
- Design and performance of:
 - Moving coil actuators,
 - Moving magnet actuators,
 - Moving iron actuators.
- Introduction to other magnetic actuators:
 - MRF,
 - ...

Practises

ACTUATOR 21

International Conference and Exhibition
on New Actuators and Drive Systems



Contact and registration

CEDRAT TECHNOLOGIES: Mrs. Sandrine HUGI
training.ct@cedrat-tec.com
+33 (0)4 56 58 04 00
www.cedrat-technologies.com

Venue

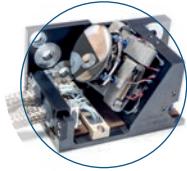
February 16, 2021, from 9 am to 5 pm
Online Training Sessions
via Teams

Who should attend

Engineers in a research department
Electronics and mechanical engineers

Participation fee

550€ for participants from industry
480€ for participants from university
Including documentation, coffee and lunch breaks



AIR & SPACE

- Optical mechanisms flight hardware
- Scan mechanisms for Earth observation
- Hold-down release mechanisms (HDRM)
- Fast steering mirrors



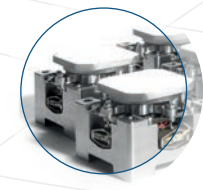
MANUFACTURING

- Chatter cancellation
- Vibration assistance for machining
- Active clamping fixtures



MEDETEC

- Micro actuation
- Miniaturised motorisation
- Microfluidic control device



OPTRONICS

- Micro-scanning & pixel shifting
- Optical image stabilisation
- Auto focus
- Embedded mechatronic functions



INSTRUMENTATION

- Telescope mirror motorisation
- Synchrotron fast shutters
- Environmental & material testing
- Beam shaping