

TWO TRAINING SESSIONS

ON SEPTEMBER 25TH AT ACTUATOR 2020

PIEZOELECTRIC ACTUATORS

Introductory course

Dr. Frank CLAEYSEN

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 20

International Conference and Exhibition
on New Actuators and Drive Systems



Contact and registration

CEDRAT TECHNOLOGIES: Mrs. Sandrine HUGI
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Venue

September 25, 2020, from 9 am to 5 pm
Congress Center Rosengarten
Rosengartenplatz 2, 68161 Mannheim

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