

# 2 Training sessions on June 16<sup>th</sup> at ACTUATOR 2016

## » **Piezoelectric actuators**

Mr. Frank CLAEYSSEN

## » **Linear magnetic actuators**

Mr. Gérald AIGOUY

### **Piezoelectric Actuators**

#### **Introductory course**

##### **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**

##### **Basics of magnetism for actuators**

- Magnetic effects & laws
- Magnetic forces
- Magnetic materials

##### **Linear magnetic actuators**

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

##### **Practises**

#### **Contact / Registration**

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#### **Venue**

June 16, 2016, from 9 am to 5 pm  
Maritim Hotel & Congress Centrum Bremen /  
Hollerallee 99 - 28215, Bremen, Germany.

#### **Who should attend**

Engineers in a Research Department, electronics and mechanical engineers who would like to have a one-day training on "piezo actuators" or "linear magnetic actuators".

#### **Participation fee**

EUR 500E for participants from industry /  
EUR 425E for participants from university.  
Including documentation, coffee and Lunch Breaks.

