www.micos.it

WORKSHOP

Piezo electrical technology for micro and nano positioning

Diezosystem Jena incredibly precise

Piezosystem jena is a world leading company in the development, design and engineering of piezo actuator, piezo electrical positioning systems for micro and nano-positioning and nano-automation. In addition to the positioning stages the company also offers the fitting electronics as well as optical fiber switches.

The vast experience in developing and manufacturing of nano-positioning systems, enables to provide special systems and also OEM manufacturing.

The piezo actuators and positioning stages are characterized by a unique precision in the range of nanometer and sub-nanometer, generate forces of several thousand Newton and realize precise positionings in micro seconds.

8 ottobre 2008 ore 9:30 - 12:00 INFN - Laboratori Nazionali di Frascati via E. Fermi, 40 - Frascati

AGENDA:

- Introduction a few words on miCos Italia and piezosystem jena. (about 5 min.) Dr. Davide FABRIS Field Sales Engineer - miCos Italia GmbH
- What are micro and nano positioning basic theory of piezo actuators. (about 15 min.) Dipl.-Ing. (FH) Waldemar STAFFEL Sales and Technical Support - piezosystem jena GmbH
- **Technical analysis -** stack actuators versus translation stages. (about 25 min.) Dipl.-Ing. (FH) Waldemar STAFFEL Sales and Technical Support - piezosystem jena GmbH
- Mechanical design examples of translation stages' design. (about 20 min.) Dipl.-Ing. (FH) Waldemar STAFFEL Sales and Technical Support - piezosystem jena GmbH
- Coffee break (about 15 min.)
- **Electronics -** open loop versus closed loop and calibration. (about 25 min.) Dipl.-Ing. (FH) Waldemar STAFFEL Sales and Technical Support - piezosystem jena GmbH
- Measurement of a piezo positioner we tell the truth. (about 15 min.) Dipl.-Ing. (FH) Waldemar STAFFEL Sales and Technical Support - piezosystem jena GmbH
- Field of application examples of typical use of piezo positioning system. (about 30 min.) Dipl.-Ing. (FH) Waldemar STAFFEL Sales and Technical Support - piezoystem jena GmbH







Host and location information:

Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati Via E. Fermi,40 -- I-00044 Frascati (Roma) - http://www.lnf.infn.it/







