

## Focus-Information

Rock testing and monitoring systems

introduces itself

## MeSy-Solexperts GmbH – a Company of Solexperts AG

### MeSy-Solexperts

The company **MeSy-Solexperts GmbH** was formed on the 1<sup>st</sup> of October 2010. The range of services of MeSy-Solexperts includes all the services of the former MeSy GmbH. In addition, MeSy-Solexperts supplies measuring equipment and the corresponding services provided by Solexperts AG and thus profits from the parent company's many years of experience in geotechnics and hydrogeology.



### Our Range of Activities

#### In-Situ Measuring Technology



- Hydrofrac- and hydrojacking-tests (up to 5000 m, borehole diameter between 48 mm – 216 mm)
- Dilatometer tests (up to 1500 m, standard probe diameters 92 mm / 96 mm / 118 mm / 142 mm / 152 mm)
- Plate load tests in rock niches
- Hydrogeological tests with double or multiple packer systems (up to 2000 m, injection and extraction tests e.g. constant head / constant rate / slug / pulse tests)
- Hydrogeological tests with pump-down packer system in horizontal or inclined boreholes (up to 2500 m and 50 bar back pressure)

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Geotechnology

## Geotechnology

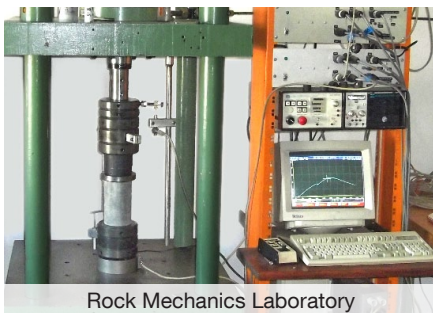
- Manufacturing, sales and measurement services of probes (sliding deformeter, sliding micrometer, TRIVEC, extensometer, reverse-head-extensometer, MagX, clinometer)
- Automatic Data Acquisition Systems (scanning and controlling of sensors and devices with GeoMonitor II, comprehensive alarming, remote access via internet)
- Web based data visualisation and analysis (WebDAVIS)
- Automatic geodetic monitoring with digital level and total station
- Installation of geotechnical monitoring systems, maintenance and testing (deep excavation, buildings and structures, tunneling, pile testing)



Hydrogeology

## Hydrogeology

- Groundwater monitoring systems (up to 1500 m, up to 10 observation intervals: Options: pressure, temperature and conductivity measurements / water sampling / retrievable sensors)
- Customized packer systems
- Tracer tests
- Gas permeability tests
- Customized special tests (tests in rock laboratories for research on nuclear waste repositories / tests and instrumentation for the sequestration of CO<sub>2</sub> / etc.)



Rock Mechanics Laboratory

## Rock Mechanics Laboratory

Performance of laboratory tests on rock samples such as:

- Determination of density, water content, porosity
- Permeability measurements
- Ultrasonic measurements
- Uniaxial- and triaxial compression tests (servo-controlled)
- Shear strength tests
- Mini-frac tests



hiDCon

## hiDCon

High-deformable concrete elements that allow controlled deformation of:

- Squeezing rock
- Swelling rock
- Yielding anchor heads

## Borehole Simulation Autoclave

- Tests on borehole probes of diameter up to 6 1/4" at 1500 bar and 200° C