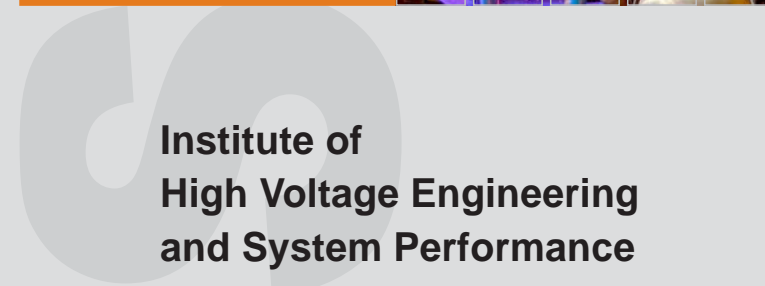


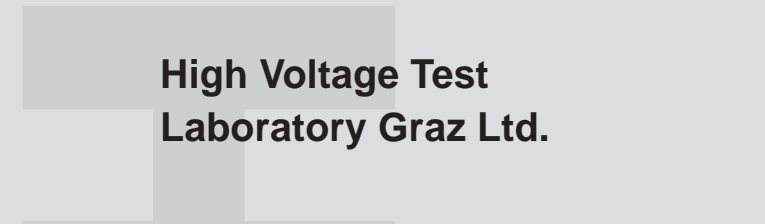
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Graz University of Technology  
Institute of High Voltage Engineering and System Performance



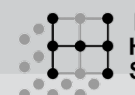
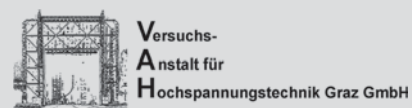
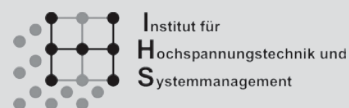
**Institute of  
High Voltage Engineering  
and System Performance**



**High Voltage Test  
Laboratory Graz Ltd.**

Graz University of Technology  
**Institute of High Voltage Engineering and System Performance**

- ▶ Inffeldgasse 18, 8010 Graz, Austria
- ▶ Phone: +43-316-873-7401
- ▶ Email: [office.hspt@tugraz.at](mailto:office.hspt@tugraz.at)
- ▶ [www.ihs.tugraz.at](http://www.ihs.tugraz.at)



## Laboratory “Große Halle” Nikola Tesla Laboratory



Alternating Voltage ..... 1500 kV / 1500 kVA  
 Lightning Impulse Voltage .. 2500 kV / 165 kJ  
 Switching Impulse Voltage . 1900 kV / 165 kJ  
 Direct Voltage ..... 1500 kV / 20 mA  
 Dimensions ..... 35 m x 25 m x 21 m (shielded)

## Laboratory “Kleine Halle”

Direct Voltage ..... 800 kV / 40 mA  
 Impulse Voltage ..... 800 kV / 11 kJ  
 Impulse Current ..... 200 kV / 100 kA / 100 kJ  
 Dimensions ..... 20 m x 13 m x 8 m

## Laboratory “AC“

Alternating Voltage ..... 400 kV / 100 kVA  
 Dimensions ..... 11 m x 8 m x 8 m

**Other HV Laboratories** .. up to 200 kV (AC, DC, Impulse)  
**Climate Test Chamber** ..... up to 170 kV (-40 °C ...+80 °C)  
**Electromagnetic Shielded Rooms** ..... up to 200 kV  
**Endurance Test Facilities** ..... up to 100 kV  
**Outdoor Test Field**  
**Mobile Test Equipment for On-Site Diagnostics**  
**Reference Measuring Systems for AC, DC, Impulse**  
**Partial Discharge Measurement Systems (IEC 60270,**  
**UHF, acoustics)**

## Institute of High Voltage Engineering and System Performance

### Head:

Univ.-Prof. Dr.-Ing. Uwe Schichler

### Vice:

Ao.Univ.-Prof. Dipl.-Ing. Dr. Stephan Pack

The institute deals with teaching, research and development and testing in the field of high voltage engineering and system performance. The scope of the institute includes studies and investigations on electric insulation materials (solids, liquids and gases) and insulation systems, power systems, high voltage test and measuring techniques, and condition monitoring on power equipment like transformers, cables, rotating machines and switchgear. There are three organisational areas: high voltage engineering, system performance and high voltage test laboratories.

## High Voltage Test Laboratory Graz Ltd.

### Managing Director:

Univ.-Prof. Dr.-Ing. Uwe Schichler

### Authorized Signatory:

Ao.Univ.-Prof. Dipl.-Ing. Dr. Rudolf Woschitz

The Test Laboratory of High Voltage Engineering Graz Ltd. (VAH) consists of the high voltage laboratories of Graz University of Technology. VAH is an accredited high voltage test laboratory and can issue test certificates for all performed high voltage tests (AC, DC, impulse) and tests on insulating materials.

## Teaching, Research and Development, Testing

- Technologies and materials in insulation technology
- Maintenance and condition evaluation
- Quality and risk management
- High voltage test and measurement techniques,
- Diagnostics, Asset Management
- High voltage cable and overhead lines
- Insulation coordination in high voltage systems
- Gas insulated switchgear and transmission lines
- Measurement and calculation of transient overvoltages
- Lightning protection zone concepts of modern buildings
- Dielectric strength of materials and insulation systems
- Test of insulators, fittings and accessories
- Testing of high voltage equipment
- Impulse voltage and current tests
- On-site-test of medium voltage cables
- Electrical methods in environmental technology
- Investigations on special problems
- Reference measurement systems, calibration and quality assurance
- Consulting activities the entire field of High Voltage Engineering

## Staff

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