

## Diagnostic Measurements on Power Transformers

Workshop with practical exercises  
12-13 September 2006

Martinspark, Dornbirn / OMICRON Klaus, Vorarlberg (Austria)  
In cooperation with the Schering-Institute of the University of Hanover

### Content:

The workshop covers a wide range of diagnostic methods. In addition to established methods it also examines new methods currently in development, including the theory and demonstrating how they can be applied on-site.

Topics included in the workshop cover methods for determining the water content in paper, impedance measurements, partial discharge measurements, capacitance and dissipation factor frequency sweeps and the FRA (Frequency Response Analysis) for detecting of winding faults.

Practical exercises enable participants to witness the handling and the application of each of the techniques. Sufficient time is reserved for discussion. An interesting evening program provides the opportunity for participants to informally interact with each other.

### Speakers:

- Dr. Dierk Bormann, ABB AB-Corporate Research, Vasteras, Sweden
- Prof. Dr.-Ing. Hossein Borsi, University of Hanover (Chairman)
- Dr.-Ing. Jochen Christian, Siemens AG PTD Transformers Technology and Innovation, Nuremberg
- Dipl.-Ing. Dr. Michael Krüger, OMICRON electronics, Klaus
- Dipl.-Ing. Volker Seitz, RWE NET, Director of the RWE Technical Center Primary Technique, Wesel
- Dipl.-Ing. Peter Werle, ABB Transformer GmbH, Halle

### Target group:

Engineers and technicians in utilities, transformer factories and service companies, who are involved with maintenance and troubleshooting of power transformers.

The number of participants is limited due to the logistics involved in organizing practical exercises such that those taking part can gain the most benefit.

### Attendance Fee: EUR 590,00

This includes the attendance at the workshop and the evening program, workshop documents, break and lunch catering.



## International Protection Testing Symposium

Conference with practical demonstrations  
14-15 September 2006

Martinspark, Dornbirn, Vorarlberg (Austria)

### Content:

The focus of the event is "The influence of new technologies on the world of protection testing", it will examine the latest techniques in testing power system protection and associated primary systems, with contributions from international experts on a range of related subjects.

### Subjects:

- Integration of application and relay knowledge to testing solutions
- Methods for testing directional protection functions in meshed networks
- New technologies for determining protection-relevant primary system parameters
- IEC 61850 and its impact on protection testing

Practical demonstrations will enable participants to experience the technology in operation.

As in the past, the IPTS 2006 will provide a platform for an exchange of experience between participants. Sufficient time is reserved for discussion. This is complemented by an interesting evening program which provides participants with the opportunity to informally interact with each other.

### Target group:

Engineers and technicians from electrical utilities, industrial plants, equipment manufacturers and service companies involved in the commissioning, maintenance and troubleshooting of protection relays. The event focuses on manufacturer-independent subjects and therefore will be beneficial for both users of OMICRON testing solutions as well users of other testing equipment.

The number of participants is limited so that those taking part can gain the most benefit.

### Attendance Fee: EUR 420,00

This includes the attendance at the conference and the evening program, conference documents, break and lunch catering.



# FAX MESSAGE / LETTER



To  
**OMICRON electronics GmbH**  
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## More information

- I am interested in attending the workshop "Diagnostic Measurements on Power Transformers" and I would like to receive more information.
- I am interested in attending the conference "International Protection Testing Symposium" and I would like to receive more information.

## Registration

- I will attend the workshop "**Diagnostic Measurements on Power Transformers**", 12-13 September 2006, attendance fee EUR 590,00
- I will attend the conference "**International Protection Testing Symposium**", 14-15 September 2006, attendance fee EUR 420,00
- I will attend both, the workshop "**Diagnostic Measurements on Power Transformers**" and the conference "**International Protection Testing Symposium**", 12-15 September 2006, reduced attendance fee EUR 860,00

## Personal details

First Name: .....	Family Name: .....
Title: .....	Job Title: .....
Company: .....	Department: .....
Street/PO Box: .....	Zip/Post Code, City: .....
Country: .....	Phone/Fax: .....
E-mail: .....	Signature: .....

## Payment method

- I wish to pay the attendance fee by credit card
  - Visa                       Mastercard                       Dinerscard                       American Express
  - Number: \_\_\_\_\_ Date of expiry: ...../.....
  - Name of card holder: ..... Signature of card holder: .....

- Please send me an invoice to the following address:  
(if different from above)  
.....  
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## Cancellation/Substitution Policy

Should you be unable to attend for any reason we are happy to welcome a substitute colleague but would appreciate prior notification. If you have to cancel entirely we can offer a full refund, less a 20 % administration charge, if written notice is received by 22 August 2006. Regrettably, after this date no refunds can be made.