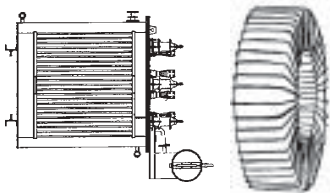


Exhibition

**Electro-magnetic
Coil Manufacture**



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INDUCTICA Conference

Coil Winding, Insulation & Electrical Manufacturing 2004

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Technical Conference Programme

C W I E M E 2004 Berlin

International Conference and Exhibition

INDUCTICA - Technical Conference Programme

International Conference for inductive and electromagnetic components, systems and devices including manufacturing and processing.

Inductive devices are often taken for granted - Coils are as old as electricity itself! However, in recent years there have been considerable advances, particularly in areas like superconductivity, micro-coils and new magnetic materials. Despite this, many manufacturing, testing and analysis methods remain little changed. This conference represents both the new and the old in this respect and our wish is to expand it in both directions.

Tuesday 15th June 2004

Introduction and Welcome to Inductica

0900-0930 A Brief History of Electromagnetism by Prof. Dr. G.J. Monkman -
Fachhochschule Regensburg & INDUCTICA Conference Chairman

Session 1 - Coil Winding and Inductive Component Manufacture

0930-1000 Optimal shape design of a multiple-coil device for induction heating.
P. Di Barba, B. Forghani, M. Negro & U. Piovan - Department of Electrical Engineering, University of Pavia, Italy

1000-1030 Innovative Approaches for Optimising Tension Control.
K. Feldmann & A. Dobroschke - Friedrich-Alexander-Universität Erlangen-Nürnberg

1100-1130 New, machine-based resin impregnation processes.
B. Ashley - Newtech Ltd, UK

1130-1200 Managing Crack Propagation Mechanisms through the Material Selection Process for Coil Windings in High Temperature and Radiation Resistant Applications.
J.G. Hubrig - Innovation Services Inc, USA

1200-1230 Insulation of electrical components under vacuum.
M. Kaufmann - Hedrich Vacuum Systems, Germany

1230-1500 Discussion/Lunch/Exhibition

Session 2 - Materials Including Insulators and Magnetic Materials

1500-1530 Experimental Study of DC Dielectric Breakdown Strength in Magnetic Fluids.
P. Kopcanský, L. Tomco, K. Marton, M. Koneracká, M. Timko, & I. Potocová - Institute of Experimental Physics, Slovak Academy of Sciences, Slovakia

1530-1600 Compared nanocrystalline and ferrite optimized Common Mode Choke for RFI filters suitable as compact components.
T. Waeckerlé, T. Save, B. Vachey & D. Gautard - Cie IMPHY ALLOYS (Arcelor Group), France

1600-1630 Insulating Systems for Wind Turbine Generators.
R. Brütsch - Von Roll Isola, Switzerland

1630-1700 **Mica insulation of rotary electrical machines with high resources of electrical strength.**
V.M. Pak, A.I. Drachev, A.B. Gilman, V.V. Starovoitenkov & N.M. Vakser - Elinar Holding Company, Russia

Wednesday 16th June 2004

Session 3 - Transformer, Motor and Generator Technology

- 0900-0930** **An air-cored PM generator for renewable-energy applications.**
E. Spooner - University of Durham & Evolving Generation Ltd, UK
- 0930-1000** **Estimation of Residual Service Life Time Of Electric Machines Windings.**
H.A.M.A. Habiba - Arab Petroleum Pipelines CO. – SUMED, Egypt
- 1000-1030** **Can inrush currents in transformers be avoided.**
M. Konstanzer - Emeko, Germany
- 1100-1130** **Motors Severe Starting Problems & Remedial Measure.**
H.A.M.A. Habiba - Arab Petroleum Pipelines CO. – SUMED, Egypt
- 1130-1200** **Electrostatic and electromagnetic induced current switching of earthed switches.**
J. Santhosh & K.N.Srinivasan -
- 1200-1500** **Discussion/Lunch/Exhibition**

Session 4 - Modelling and Simulation

- 1500-1530** **Iron Core Inductor High Frequency Circuit Model for EMC Applications.**
J. Luszcz - Gdansk University of Technology, Poland
- 1530-1600** **Automated Finite Element Aided Design of Skewed Rotor Induction Motors.**
C. Riley, A. Michaelides, K. Hoeffler, D. Griffiths & J. K. Sykulski - Vector Fields Ltd, UK
- 1600-1630** **Modelling of power transformers.**
M. Simeonov & I. Novakov - Technical University of Gabrovo, Bulgaria

Thursday 17th June 2004

Session 5 - Test and Measurement

- 0900-0930** **Power And Measuring Transformers Priory Failure Events And PD- Activities As A Result Of High Speed Temperature Overfall.**
Y.P. Aksenov, A.V.Golubev, V.V.Buzaev, Y.M.Sapozhnikov, Y.A.Dementiev & V.A.Rodionov, Department of Electrical Engineering, University of Pavia, Pavia, Italy
- 0930-1000** **Design and manufacturing of eddy current sensors.**
H. Aschenbrenner - Micro-Epsilon-Messtechnik, Germany
- 1000-1030** **In vivo electromagnetic dosimetry using tooth enamel as a detector material.**
S. Egersdörfer & A. Wieser - University of applied sciences, (Fachhochschule Regensburg), Germany,
- 1100-1130** **Application of the EL CID Test with Circulating Currents in Stator Windings.**
J. Sutton & D. Bertenshaw - ADWEL International Ltd, UK
- 1130-1200** **Monitoring systems for rotating machines: PD-Activity measurements.**
Y.P. Aksenov, G.Noë, & I.Arces - DIACS”, Moscow, Russia
- 1200-1230** **PD detection methods on twisted-pair sample under repetitive bipolar impulse.**
K. Kimura, S. Ushirone, S. Ohtsuka, M. Hikita & W. Bitoh - Kyushu Institute of Technology, Japan
- 1230-1300** **Corona Resistant Polyimide Film High Frequency Testing and Applications.**
S.A. Filliben - DuPont High Performance Materials, USA
- 1330-1600** **End of Conference/Exhibition**



Coil Winding, Insulation & Electrical Manufacturing 2004

International Conference and Exhibition
 Messe Berlin - Berlin -Germany
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CONFERENCE REGISTRATION FORM

STEP 1

Important: Please complete all sections of this form. Complete a separate form for each registrant. Use this form to make as many copies as you need. All registration forms must be received by May 17th. After May 17th bring this form with you.

- Send me a FREE Exhibits ONLY Pass - (a €30.00 value)
- Register me for CWIEME Exhibition and INDUCTICA Conference

STEP 2: General Information

Please print clearly

Name: _____ Title _____
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 Tel: _____ Fax: _____
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INDUCTICA Conference Registration Fees

€280.00 Euros for all 3 days
Includes Conference proceedings

€60.00 Euros for Conference Proceedings only. *(Book mailed after the Conference)*

*Student Rate with ID €28.00
 Proceedings extra*

STEP 3: INDUCTICA Session Information

You must choose which sessions you will be attending

- SESSION 1 (€100.00) SESSION 3 (€100.00) SESSION 5 (€140.00)
- SESSION 2 (€80.00) SESSION 4 (€60.00)
- ATTENDING ALL FIVE (5) SESSIONS (€280.00 - *Includes Conference proceedings*)

I will be attending ___ sessions of the Conference. (Please choose the sessions you plan to attend. Session numbers correspond to those used in the Session Descriptions. all that apply.

Purchase Order or Payment must accompany form.

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