

Vorankündigung

Gemeinsames Chapter Meeting von

IEEE Joint IAS/PELS/IES Austrian Chapter

IEEE Joint IAS/PELS/IES German Chapter

IEEE PELS Swiss Chapter

in Graz/Steiermark

Donnerstag 04. Juli 2013 - Freitag 05. Juli 2013

Werksbesichtigung bei der ELIN Motoren GmbH

ELIN Motoren GmbH Werk,
neuer Standort Preding/Weiz



Quelle: ELIN Motoren

ELIN Synchronmaschine einer
Biomasseanlage



Technische Daten: 19,6 MVA, 10,5 kV,
Nenn Drehzahl 1.500 1/min
(Quelle : ELIN Motoren)

Gastredner:

Prof. Dr.-Ing. Ralph Kennel (TU München, Germany)

„Encoderless Control of AC Drives:
Recent Achievements - Realistic and Unrealistic Expectations“

Prof. Dr. Maarten J. Kamper (Stellenbosch University, South Africa)

„Reluctance synchronous machine drive - a viable alternative “

Gastgeber:

Univ.-Prof. Dr.-Ing. Annette Mütze
Institut für Elektrische Antriebstechnik und Maschinen
Technische Universität Graz

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ELIN Motoren GmbH



With 120 years of experience in development and production of electrical machines, ELIN Motoren GmbH is one of the most traditional industries in Austria. With approximately € 84 M turnover, 500 employees, and more than 85% export share in 2012, it plays a central role both for the Austrian and the international market.

ELIN's product range includes high- and low-voltage motors from 37 to 35,000 kW, induction generators from 500 to 5,000 kW, and synchronous generators from 5,000 to 50,000 kVA. The company's strengths is the production of small and medium quantities, as well as customer-specific solutions. ELIN's machines are used worldwide, in the fields of wind energy, industrial plant applications, power plants, decentralized energy systems and small hydro-plants, mining, gas & petroleum, applications.

Prof. Dr.-Ing. Ralph Kennel



received the Diplom-Engineer and Dr.-Ing. (PhD) degrees from the University of Kaiserslautern (Germany) in 1979 and 1984 respectively. From 1983 to '99 he held several positions with Robert BOSCH GmbH (Germany), being responsible for the advanced and product development of fractional horsepower motors from 1997 to '99. From 1999 to 2008, Prof. Kennel was Full Professor at Wuppertal University (Germany); since 2008 he has been Full Professor for Electrical Drive Systems and Power Electronics at Technische Universität München (Germany). Today, his main interests are in the areas of encoderless control of AC drives, predictive control of power electronics, and Hardware-in-the-Loop systems. Dr. Kennel is a Senior Member of the IEEE, Fellow of the IET (former IEE), Chartered Engineer in the UK, and a 2012-13 IEEE Power Electronics Society (PELS) distinguished lecturer. He is also an Associate Editor of IEEE PELS.

Prof. Dr. Maarten J. Kamper



received the M.Sc. and Ph.D. degrees from Stellenbosch University (South Africa) in 1987 and 1996, respectively. In 1989, he became a member of the academic staff of the Department of Electrical and Electronic Engineering, Stellenbosch University, where he is currently Full Professor of electrical machines and drives. His area of interest are on computer-aided design and control of reluctance, permanent magnet, and induction machine drives, with applications in electric transportation and renewable energy. Dr. Kamper is is a Senior Member of the IEEE, a South African National Research Foundation supported scientist and a registered Professional Engineer in South Africa. He is also an Associate Editor of the IEEE IAS Electrical Machines Committee.