



IEEE German Section

IEEE Joint IAS/PELS/IES Chapter

Aachen Technical University and Philips Research Host Chapter Meeting

112 participants took part in our largest chapter meeting ever. The meeting was held in conjunction with the Benelux Joint IAS/PELS/IES Chapter. German and international chapter members and guests, a distinguished lecturer and four IEEE officials (Dr. Marco Liserre IES Student Activities Committee Chair Bari/Italy, Prof. Dr. Vassilios G. Agelidis PEELS Chapter Development Chair Glasgow/UK, Prof. Dr. Bruno Allard PEELS European Liaison Lyon/France and Prof. Dr. Thomas G. Habetler PEELS Jr. Past President Atlanta/US) came together in the historic capital of Europe, Aachen. A European Chapter Support Meeting, a PESC'04 OrgCom Meeting, an Aachen Student Meeting and a Benelux Chapter Board Meeting were also held here. The Benelux Chapter held here its last election; new chairman is Ir. Marcel Hendrix (Eindhoven).



- Design Guideline for a Resonant Gate Driver (T. Lopez)
- CAD of Magnetic Components (Dr. B. Ackermann)
- Integrated Power Electronics (Dr. E. Waffenschmidt)
- DSP Application for Power Electronics (C. Hattrup)
- Electronic Ballast for Lighting (U. Böke)
- UHP Lamp & Video Projection (Dr. P. Lürkens, C. Deppe)
- Power Electronics in Medical Equipment (Dr. M. Wendt)
- Digital State Space Controller for Series Resonant Converters (Dr. T. Scheel)
- LLC Converter Topologies with Asymmetrical Half-Bridge (R. Elferich)
- Inverter for Photovoltaic Applications (M. Hendrix)

During the first day of technical meeting, we visited the laboratories of the Institute for Power Electronics and Electrical Drives, led by Prof. Dr. ir. Rik W. De Doncker, the founding chairman of our chapter. Current chairman Dr. Magyar on behalf of the chapter donated a historical radio receiver "Philips Aachen Super D52AU" (see photo below) which had been manufactured right in the institute building formerly being a Philips production site. The following social meeting comprised a guided tour through the old city, ending directly in uni-

versity's arch cellar where Philips had sponsored the come together party.

Next day's venue was Philips research laboratory. Here Dr. Magyar donated an original Philips battery charger: Its mercury vapour rectifier and iron-hydrogen current stabilizer tube are examples for early power electronics from the 1920's, being still functional today. Managing director Dr. R. G. Gossink introduced Philips Research Laboratory to the audience, followed by several technical lectures and demonstrations dealing with current research activities:

- Two Stage Converter Topology for a Mains Battery Charger (T. Tolle)

The meeting was closed with a distinguished lecture from Prof. P. G. Maranesi (IEEE Fellow, University of Milan/Italy) about Power Electronics for Space and its Fall-out to Ground.

More detailed information about the chapter, the recent and the upcoming meetings can be found at [www.ewh.ieee.org/r8/germany/ias-pels](http://www.ewh.ieee.org/r8/germany/ias-pels).

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