

8.30 – 9.15

**Key-Note Paper for all Participants****Packaging , Integration, Thermal Management -  
From the State of the Art to Future Trends**Dr. J.A. Ferreira, Electrical Power Processing Group, ITS Faculty, TUDelft,  
THE NETHERLANDS*(see introduction page 32)*

9.20 – 2.40

**Session PQ 9 - Part I****Power Quality Problems and Solutions**

Chairman: Hilmar Darrelmann, RWE Piller, GERMANY

PQ 9-1

**High Availability Power Supply of a Large Computer Center in Eurocontrol  
(European Organisation for the Safety of Air Navigation)**

P. Castellana, Eurocontrol, BELGIUM

PQ 9-2

**Evaluation and Reduction of Common Mode Currents in Adjustable Speed Drives**

N. Idir, J.J. Franchaud, University des Sciences et Technologies de Lille, FRANCE

PQ 9-3

**An Overview of Techniques to reduce Common Mode EMI in Drive Systems**C. Vermaelen, F. Costa, Laboratoire SATIE ENS Cachan, A. Lacarnoy, M. Arpilliere, Schneider  
Electric, FRANCE

10.50 – 11.10

Coffee Break

PQ 9-4

**The Technology of Energy Storage and Management - its Impact upon Equipment  
and System Design**

A. Palin, C. Tarrant, Urenco Power Technologies, ENGLAND

PQ 9-5

**Reduction of Slots Switching of High Power Thyristors Rectifiers by inserting  
Saturable and Controlled Inductances in the Power Line**

B. Riffault, J. Nuns, EDF, FRANCE

12.10 – 1.10

Lunch, Restaurant CCN West 1<sup>st</sup> floor

1.10 – 2.40

**Session PQ 9 - Part II**

PQ 9-6

**Experimental Analysis a 10 kW Wide Input Voltage Range Modular Three-Phase  
Unity Power Factor PWM Rectifier**

R. Greul, J.W. Kolar, ETH Zürich, SWITZERLAND

PQ 9-7

**A 5kW Three-Phase Buck+Boost Telecommunications Power Supply Module  
Rectifier Input Stage Maintaining Unity Power Factor under Failure of a Mains  
Phase**M. Baumann, Vienna University of Technology, AUSTRIA, J.W. Kolar, ETH Zürich,  
SWITZERLAND

PQ 9-8

**Advanced Methods leading to Customer Oriented Supply Quality in Competitive  
Electricity Markets**

M. Finkelmann, C. Graser, RWE Net, GERMANY

2.40 – 5.00

**Visiting PCIM Exhibition**