Power Electronics
Electrical Machines
Energy Control Power Systems

EUROPEAN PHD SCHOOL
27 - 31 May 2024, Gaeta/Italy

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PROGRAMME

MONDAY 27 May
08:30 – 09:30 Registration desk open and welcome coffee
09:30 – 10:00 Opening Session @ Conference Room
10:00 – 10:45 Keynote 1 @ Conference Room
   Roland Huempfner (Huawei Technologies, DE)
   Power Electronics for Green Data Centres
10:45 – 12:30 Presentations by participating companies
12:30 – 14:00 Welcome Lunch
14:00 – 14:45 Keynote 2 @ Conference Room
   Riccardo Morici (Alpitronic, IT)
   Innovation in DC charging EVSE
14:45 – 15:00 Poster Set-up
15:00 – 16:15 Poster Session A (last year PhD’s)
16:15 – 18:00 PhD-Company Meetings (Recruitment)
   @ Exhibition Area with Open Bar
19:30 Transfer to dinner
20:00 – 22:30 Social Dinner and Award Ceremony

TUESDAY 28 May
09:00 – 10:00 Keynote 3 @ Conference Room
   Thomas Ferianz (Infineon Austria, AT)
   GaN Gate Driving Solutions
10:00 – 12:30 Lecture 1 @ Conference Room
   Petar Grbovic (Univ. of Innsbruck, AT)
   Multi-Level and Partial Power Processing Converters
12:30 – 13:30 Lunch Break
13:30 – 15:30 LIVE DEMO SESSION @ Exhibition Area
15:30 – 17:30 Lecture 2 @ Conference Room
   Prof. Andreas Kuechler (THWS Schweinfurt, DE)
   Electrical Insulation at High Electrical Field Stresses
   Prof. Michael Galea (University of Malta, MT)
   Electrical Insulation: Lifetime Prediction and Reliability-Oriented Design Aspects

WEDNESDAY 29 May
09:00 – 10:00 Keynote 4 @ Conference Room
   Prof. Vito Nardi (Enertronica Santerno, IT)
   Power Electronics Optimization and New Trends in Utility Scale PV Systems
10:00 – 12:30 Lecture 3 @ Conference Room
   Prof. Markus Henke (TU Braunschweig, DE)
   Advanced Electrical Machines
12:30 – 13:30 Lunch Break
13:30 – 14:30 Poster Session B (1st and 2nd year PhD’s)
14:30 – 18:00 Lecture 4 @ Conference Room
   Prof. Richard Zhang (Virginia Tech, US)
   Power Electronics for Renewables and Next Generation Grids
20:00 – 22:30 Pizza Dinner

THURSDAY 30 May
09:00 – 10:00 Keynote 5 @ Conference Room
   Antonello Antoniazzi, Dejan Pejovski (ABB, IT)
   Semicond. Circuit Breakers for Protection of DC Microgrids
10:00 – 12:45 Lecture 5 @ Conference Room
   Power Semiconductors
   - Dr. Munaf Rahimo (MTAL, CH)
   - High Voltage/High Power Semiconductors (Si, SiC)
   - Prof. Elison Matioli (EPFL, CH)
   Fast Switching GaN
12:45 – 13:45 Lunch Break
13:45 – 16:00 Lecture 6 @ Conference Room
   Dr. Jae Seung Lee, Masanori Ishigaki (Toyota Research Inst. North America, US)
   Mobility and Society Electrification
16:00 – 16:30 Coffee Break
16:30 – 18:00 Lecture 7 @ Conference Room
   Dr. Luca Dalessandro (ETIX, CH)
   Innovation & Entrepreneurship: Best Practices from PhD to Venture

FRIDAY 31 May
08:30 – 10:00 Keynote 6.1 & 6.2 @ Conference Room
   Abel Ferreira (Vestas Wind Systems, DK/PT)
   Wind Power (contrib. to Net-Zero CO2 emissions)
   Prof. Jin Xuan (University of Surrey, UK)
   Hydrogen: Technology Development & System Integration
10:00 – 11:45 Discussion @ Conference Room
   Speakers & PhD Students
   Future Grids & the Role of Power Electronics
11:45 – 12:00 Final Test presentation for ECTS @ Conference Room
   (the exam will be performed online after the PhD School week)
12:15 – 12:30 2024 PhD School edition closing remarks
12:30 – 13:30 Lunch Break
13:30 – 18:30 Cultural Excursion

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The European PhD School on 'Power Electronics, Electrical Machines, Energy Control and Power Systems' is organised by the University of Cassino in cooperation with ECPE European Center for Power Electronics since 2011. It's a unique event in Europe for young power electronics engineers from academia to exchange experience and technical information about their PhD projects.

The PhD School starts with an Industry Day covering keynote presentations from industry experts as well as a dialogue session for detailed face-to-face discussions between PhD students and industry representatives. The 1st day ends with a social dinner including the PhD School Award celebration. The rest of the week is dedicated to high-level lectures from several experts from academia but also from industry, related to the following thematic areas:

- Power Electronics
- Electrical Machines
- Energy Control
- Power Systems

More information and registration: ecpe.org/phdschool
More information about the Industry Day for Recruitment see last page!
Gaeta is a city in the province of Latina, in Lazio, Southern Italy. Set in the Gulf of Gaeta, it is 120 km from Rome and 80 km from Naples. The European PhD School on ‘Power Electronics, Electrical Machines, Energy Control’ takes place at the beautiful Angevin Castle located in the ancient part of Gaeta.
AWARDS 2024

European PhD School Award 2024
On a voluntary basis, each last-year stage PhD student can present the research activity to a qualified PhD School Commission at the Poster session A. At the end of the session, the ‘European PhD School Award’ will be assigned by the Commission, with a grant of 1.000,00 Euro.

Young PhD School Award 2024
Each PhD student attending the PhD School, except the ones participating to the Poster session A (see above), is requested to prepare a poster of her/his research activity. For first year PhD students the poster can be prepared with the planned project and activities. The ‘Young PhD School Award’ will be assigned by the Commission, with a grant of 500,00 Euro.

Research activity:
All PhD students have to send the research activity document, their CV and the poster as PDF in advance.

Further details with confirmation of registration.
Board and Scientific Committee

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Registration:  www.ecpe.org/phdschool

Industry Day for Recruitment
Monday, 27 May 2024

If your company is interested in participation at the Industry Day
please contact lena.somschor@ecpe.org or visit www.ecpe.org/phdschool

Industry Day for Recruitment – the meeting point for companies and PhD students!
In the frame of the PhD School event, ECPE organizes the Industry Day for Recruitment,
where industry representatives can meet PhD students on-site. Established companies in
the field of power electronics, electrical drives and systems participate every year.
Moreover, a special session with presentations is dedicated to the participating companies.