

Power Electronics Electrical Machines Energy Control Power Systems



EUROPEAN PHD SCHOOL

25 - 29 May 2026, Gaeta/Italy

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WITH THE SUPPORT OF:



PROGRAMME

MONDAY 25 May

- 08:30 – 09:00 **Registration desk open**
- 09:00 – 09:30 **Opening Session @ Conference Room**
- 09:30 – 10:30 **Keynote 1 @ Conference Room**
**Powertrain Engineering - Vertical Integration:
Reduce Complexity to Accelerate Execution**
Dr. Mattia Guacci (Tesla, DE)
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 12:30 **Presentations by participating companies**
- 12:30 – 13:45 *Welcome Lunch*
- 13:45 – 14:30 **Keynote 2 @ Conference Room**
**Lessons from the Spain Blackout: A Grid-System
Perspective**
Dr. Milan Prodanovic (Inst. IMDEA Energía, ES)
- 14:30 – 15:00 *Poster Setup*
- 14:30 – 16:30 **Poster Session A (last year PhD's)**
- 16:30 – 18:30 **Coffee and PhD-Company Meetings
(Recruitment) @ Exhibition Area**
- 19:30 **Transfer to dinner**
- 20:00 – 22:30 **Social Dinner and Award Ceremony**

TUESDAY 26 May

- 09:00 – 10:00 **Keynote 3 @ Conference Room**
Power Electronics for AI Infrastructure
Dr. Francesco Gennaro (STMicroelectronics, IT)
- 10:00 – 12:30 **Lecture 1 @ Conference Room**
**Solid State Transformer: An Overview, Challenges,
and Opportunities**
Prof. Drazen Dujic (EPFL, CH)
- 12:30 – 13:30 *Lunch Break*
- 13:30 – 15:30 **LIVE DEMO SESSION @ Exhibition Area**
- 15:30 – 18:00 **Lecture 2 @ Conference Room**
Data Centres of the Future (PoL converters)
Prof. José A. Cobos (UPM/DPx, ES)

WEDNESDAY 27 May

- 09:00 – 10:00 **Keynote 4 @ Conference Room**
**Data Centre: Ensuring Efficiency, Compliance, and
Performance Through Adv. Power Measurement**
Patrick Fuchs (ZES Zimmer/Rohde & Schwarz, DE)
- 10:00 – 12:30 **Lecture 3 @ Conference Room**
EMC Challenges in Power Electronics
Prof. Eckart Hoene (Fraunhofer IZM, DE)
- 12:30 – 13:30 *Lunch Break*
- 13:30 – 14:30 **Poster Session B (1st and 2nd year PhD's)**
- 14:30 – 15:30 **Keynote 5 @ Conference Room**
**GaN Monolithic Bidirectional Switch - A Paradigm Shift in
Power Electronics**
Dr. Kenneth Kin Leong (Infineon Technologies, AT)
- 15:30 – 18:00 **Lecture 4 @ Conference Room**
Reliability of Power Electronics Components
Prof. Francesco Iannuzzo (Politecnico di Torino, IT)
- 20:00 – 22:30 **Pizza Dinner**

THURSDAY 28 May

- 09:00 – 11:30 **Lecture 5 @ Conference Room**
**From High-Speed + Gearbox to Flux-Modulated Direct
Drive: Electric Machine Design, Vernier Technology, and
an Entrepreneurial Journey in Niche Hardware**
Dr. Alessandro Acquaviva (Acquaviva Electric, IT)
- 11:30 – 12:30 **Lecture 6 @ Conference Room**
**Modeling and Design of Magnetic Components in
Power Electronics**
Prof. Jonas Mühlethaler (UAS Lucerne/Frenetic, CH)
- 12:30 – 13:30 *Lunch Break*
- 13:30 – 15:00 **Lecture 6 (cont.)**
- 15:00 – 15:30 *Coffee Break*
- 15:30 – 18:00 **Lecture 7 @ Conference Room**
**Energy Storage Systems and Applications: From the
State of the Art to Future Trends**
Minglong He, Giacomo Mariucci (ABB Switzerland, CH)

FRIDAY 29 May

- 09:00 – 10:00 **Keynote 6 @ Conference Room**
**Electrification for the Next-Generation of Aircraft:
R&T on High-Voltage Technologies**
Gilles Peres (Airbus Group, FR)
- 10:00 – 12:30 **Lecture 8 @ Conference Room**
**Powering Tomorrow: Networks, Markets, and Minds
for the Green Transition**
Prof. Amjad Anvari-Moghaddam (Aalborg University, DK)
- 12:30 – 13:00 **Introduction to Final Test @ Conference Room**
- 13:00 – 14:00 *Lunch Break*
- 15:30 – 18:30 **to be confirmed**

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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!

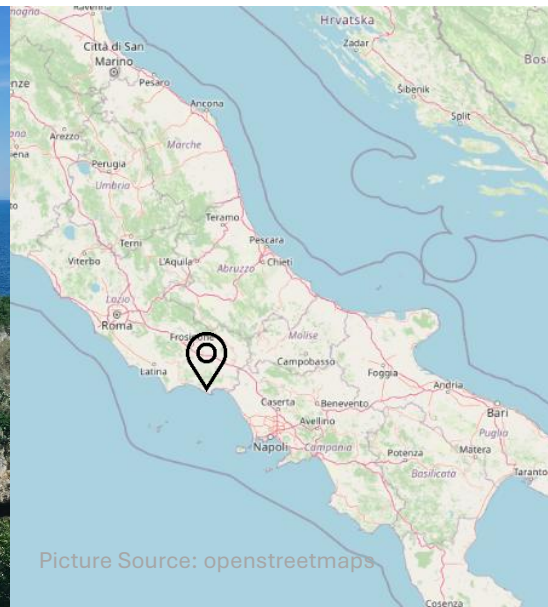


Picture Source: Martina Pellechia, istock

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.



Picture Source: glass_bear, istock



Picture Source: openstreetmaps



Picture Source: ECPE

AWARDS 2026

European PhD School Award 2026

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 Award Commission.

Research activity:

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

Further details will follow with the confirmation of registration.



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EUROPEAN PHD SCHOOL

Contact Organisation



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Registration: www.ecpe.org/phdschool

Industry Day for Recruitment Monday, 25 May 2026



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.