

GAETA (ITALY) - MAY 20-24, 2019

European PhD School

Power Electronics, Electrical Machines, Energy Control
and Power Systems



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Leo Lorenz

European Center of Power
Electronics

KEYNOTE 2019



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Fei Gao
University of
Technology of
Belfort- Montbeliard
France

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Mario Saggio
ST Microelectronics
Italy

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Sasa Djokic
University of
Edinburgh
Scotland (UK)



PROVISIONAL PROGRAM

MONDAY MAY 20, 2019

- 08:00 – 12:00 **Registration desk open**
 09:00 – 10:00 **Opening Session @ Conference Room**
 10:00 – 10:40 **Keynote Session 1 @ Conference Room**
Leo Lorenz (European Center of Power Electronics) -
t.b.d.
 10:40 – 11:00 *Coffee Break*
 11:00 – 11:40 **Keynote Session 2 @ Conference Room**
Johann Walter Kolar (ETH Zurich – Switzerland)
 General Properties, Scaling Laws & Inherent Limitations
 of Energy Electronics
 11:45 – 13:20 **Presentations by participant companies**
 13:20 – 14:30 *Welcome Lunch*
 14:30 – 16:00 **Poster Session A** (last year PhD's)
 16:00 – 16:15 *Coffee break*
 16:15 – 18:30 **PhD-Company Meetings**
 20:00 – 22:30 **Gala Dinner and Best Poster Award**

TUESDAY MAY 21, 2019

- 09:00 – 18:00 **Live Demo Area Open**
 09:00 – 12:30 **Lecture 1 @ Conference Room**
Drazen Dujic (EPFL – Switzerland) - Medium Frequency
 Transformer Design Optimization for Solid State
 Transformers
 12:30 – 13:30 *Lunch*
 13:30 – 15:00 **Live Demo Sessions**
Zes Zimmer
Plexim GmbH
 15:00 – 16:30 **Lecture 2 @ Conference Room**
Bernd Neuner (ZES ZIMMER Electronic Systems
 GmbH) – Modelling, prototyping, testing of power
 electronics and electrical drives systems
 16:45 – 18:30 **Lecture 3 @ Conference Room**
Ilknur Colak (Maschinenfabrik Reinhausen) – Insulation
 Coordination in Power electronics

WEDNESDAY MAY 22, 2019

- 09:00 – 12:30 **Lecture 4 @ Conference Room**
Samuel Araujo (Robert Bosch GmbH) – Outlook on
 electric mobility and power electronics
 12:30 – 13:30 *Lunch*
 13:30 – 14:30 **Poster Session B** (1st and 2nd year PhD's)
 15:00 – 18:30 **Lecture 5_EMA @ Conference Room**
Massimiliano Visintin (General Electric) – Design and
 qualification of inverter fed electric machines
 15:00 – 18:00 **Lecture 5_PSY @ Ground Floor Room**
Sasa Djokic (University of Edinburgh, Scotland - UK) –
 Electrification of Road Transportation and Impact of
 Electric Vehicle Charging on Distribution Networks

THURSDAY MAY 23, 2019

- 09:00 – 12:30 **Lecture 6 @ Conference Room**
Macello Canova (Ohio State University – USA) –
 Electrochemical Energy Storage Systems for Stationary and
 Dynamic Applications
 12:30 – 13:30 *Lunch*
 15:00 – 18:30 **Lecture 7 @ Conference Room**
Mario Saggio (ST Microelectronics - Italy) – Silicon
 Carbide Power Devices: Technologies and Applications

FRIDAY MAY 24, 2019

- 8:30 – 12:00 **Lecture 8 @ Conference Room**
Fei Gao and Elena Breaz (University of Technology of
 Belfort- Montbeliard – France) – Fuel Cell Technology for
 Automotive applications
 12:00 – 13:30 **Final test for ECTS @ Conference Room**
 13:30 – 14:00 *Lunch Buffet*

_EMA Electrical Machines and Drives Session
_PSY Power System Session

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1. Angioino-Aragonese Castle
2. Cathedral of S. Erasmo
3. Pinacoteca Comunale
4. Church of San Francesco
5. Church of San Giovanni a Mare
6. Gran Guardia
7. Church of SS. Annunziata
8. Public Library and Center of Historical and Cultural Studies
9. Gate Charles V
10. Gate Charles III
11. Via Indipendenza
12. Church *degli Scalzi*
13. Mausoleum of L.M. Plancus
14. Sanctuary of the SS. Trinità
15. Town Hall

Other labels on map: SERAPO BEACH, MONTE ORLANDO, Oasi Blu, GULF OF GAETA, ROMA, NAPLES, ROME, GAETA.

