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The Faculty of Electrical and Information Engineering of Graz University of Technology is seeking to appoint a full professor of

### Power Electronics

for a tenured faculty position, tenured according to Section 98 of the Austrian University Act (§98 UG) at the Electric Drives and Machines Institute, prospectively starting on **March 1, 2020**.

For this position, we are seeking a highly qualified and scientifically well-established individual who is deeply committed to representing the field of "Power Electronics" in teaching and research.

To apply, applicants must have a doctorate (Ph.D.) in the required engineering discipline or in a closely related field from either an Austrian or an equivalent foreign university. Furthermore, we expect outstanding academic qualifications, as evidenced by a habilitation degree (*venia docendi*) or equivalent scientific achievements as well as several years of international work experience and management skills.

For further information as well as the mandatory application form, please visit us at:

<https://www.tugraz.at/go/professorships-vacancies>

Graz University of Technology aims to increase the proportion of women and therefore qualified female applicants are explicitly encouraged to apply. Graz University of Technology actively promotes diversity and equal opportunities. People with disabilities who have the relevant qualifications are explicitly encouraged to apply.

Applicants must use the provided application form to forward a thorough application in electronic form to [dekanat.etit@tugraz.at](mailto:dekanat.etit@tugraz.at) by no later than May 31, 2019 (email time stamp).

The Dean: Univ.-Prof. Dipl.-Ing. Dr.techn. Wolfgang Bösch, MBA

[www.tugraz.at](http://www.tugraz.at)



## 1. **EPE'19 ECCE Europe, Genova, Italy, 2-6 September 2019**

<http://www.epe2019.com>

### - Technical programme

#### Proposed tutorials:

##### T1 (Morning): GaN Transistors as an Enabler of High-Performance Power Electronics

Miroslav Vasić, Universidad Politécnica de Madrid, Centro de Electrónica Industrial (CEI), José Gutiérrez Abascal 2, 28006 Madrid, Spain

##### T2 (Afternoon): Design of High efficiency Electric Motors and Power Electronic Drives with Wide Bandgap Devices (SiC and GaN)

Prof. Bulent Sarlioglu, PhD, Associate Professor, University of Wisconsin-Madison, USA

##### T3 (Full day): Prospects for Condition Monitoring Implementation in SiC Power MOSFETs

Dr Olayiwola Alatise, Dr Jose Ortiz Gonzalez, School of Engineering, University of Warwick, UK; Assist. Prof. Amir Sajjad Bahman, Prof. Francesco Iannuzzo, Department of Energy Technology, Aalborg University, Denmark

##### T4 (Full day): MMC-based Converters for MVDC Applications

Prof. Drazen Dujic, Dr. Alexandre Christe\*, Mr. Stefan Milovanovic, Power Electronics Laboratory – PEL, Swiss Federal Institute of Technology – EPFL, Lausanne, Switzerland, \*ABB Corporate Research Centre, Västerås, Sweden

##### T5 (Full day): Smart Battery Pack Solutions with Lithium-ion Batteries

Daniel Stroe, Remus Teodorescu, Aalborg University; Mattia Ricco, University of Bologna

##### T6 (Afternoon): Insulation and Coordination Design Steps for Medium Voltage Power Electronics Applications

Ilknur Colak – Team Leader & Project Manager – Power Electronics, Maschinenfabrik Reinhausen GmbH, Regensburg, Germany

##### T7 (Morning): Modular high frequency high voltage power supply: architectures, circuit modeling methodologies and output voltage sharing technologies

Saijun Mao; Leadrive Technology (Shanghai) Co., Ltd, China; Braham Ferreira; Delft University of Technology, The Netherlands.

##### T8 (Full day): Model Predictive Control of Power Converters: Principle, Design and Applications

Ralph Kennel, Department of Electrical and Computer Engineering, Technical University of Munich, Munich, Germany; José Rodríguez, Faculty of Engineering, Universidad Andres Bello, Santiago, Chile ; Tomislav Dragičević, Department of Energy Technology, Aalborg University, Aalborg, Denmark; Mateja Novak, Department of Energy Technology, Aalborg University, Aalborg, Denmark; Tobias Geyer, ABB Corporate Research, Baden-Dättwil, Switzerland

#### Industrial Forum confirmed

- Tuesday 3 September, starting 16h30:

Wide Bandgap components: GaN

- Wednesday 4 September on SiC, starting 16h30

Wide Bandgap components: SiC: “From the high end niche to the main stream – cranking up the volume”

Speakers confirmed:

- John Palmour of Cree/Wolfspeed

- Thomas Neyer of ON Semiconductors

- Speakers from STM, Mitsubishi, and more

Moderator: Prof. Nando Kaminski, University of Bremen, Germany

IEEE WG P2004: „Recommended Practice for Hardware-in-the-Loop (HIL) Simulation Based Testing of Electric Power Apparatus and Controls“

Chair: Michael Steurer; Florida State University, Tallahassee, FL, USA;

Co-Chair: Georg Lauss, Austrian Institute of Technology, Vienna, Austria;

Secretary: Blake Lundstrom, National Renewable Energy Laboratory, Golden, CO, USA;

**Technical visits confirmed**

Phase and Motion Control S.p.A. – Genova

Leading the Innovation in Dynamic Motion, Torque and Position Control for Automation: e.g., extra high torque density motor, high efficiency, high power density submersible pm motors for under water propulsion....

IIT (Italian Institute of Technology) – Genova

Robotics, Nanomaterials, Lifetech, Computational Sciences

**- Exhibition : Plan your participation: check for updated information at <http://www.epe2019.com>**

Already confirmed:

Contributors:

- *ABB SpA Marine & Ports*
- *MONT-ELE*
- *NIDEC INDUSTRIAL SOLUTIONS*
- *Plexim GmbH*
- *Poseico SpA*
- *Rohde & Schwarz*

Exhibitors:

- *COMER s.r.l.*
- *dSpace*
- *ECPE European Center for Power Electronics e.V.*
- *EGSTON Power Electronics GmbH*
- *EUROCONTROL SpA*
- *HIOKI Europe GmbH*
- *imperix ltd*
- *Mathworks – Speedgoat GmbH*
- *Mersen*
- *OMICRON Lab*
- *OPAL - RT Europe*
- *PCIM Europe*
- *PEM (Power Electronics Measurements) Ltd*
- *Powersys*
- *RGM SpA*
- *Typhoon HIL*
- *Yokogawa*
- *ZES Zimmer Electronic Systems GmbH*

Contact :

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**- Hotels : make sure to book your room on time to enjoy the best possible rate:**

<https://www.cbgenova.it/en/events-57/epe-2019-ecce-europe.html>

## **2. Power electronics Ee2019, Novi Sad, October 23th-26th, 2019 - First Call**

We are inviting you to participate in the symposium and with your paper contribute to development of power electronics. The purpose of the symposium is to provide a forum for presentation and discussion of the state-of-art of Power electronics and related areas. Submitted papers should not have been previously published and should present theoretical or experimental research results as well as results of application of developed methods in engineering practice, presentation of engineering solutions and devices, practical experience in power electronic devices exploitation etc.

Important Dates:

Submission of full paper: May 14, 2019

Notification of acceptance: July 2, 2019

Receipt of full paper: September 1, 2019

### Keynotes

Prof. Dr. Johann W. Kolar, D-ITET (CH)  
Dr. Ing. Dusan Graovac, Infineon Technologies AG (GER)  
Dr. Michail Vasiladiotis, ABB (CH)  
Prof. Seddik Bacha, Grenoble Institute of Technology (FR)  
Prof. Marc Hiller, University in Karlsruhe (GER)

### Information

Ee 2019 - Secretariat  
Faculty of Technical Sciences  
Trg Dositeja Obradovića 6,  
21000 Novi Sad, SERBIA  
Phone: +381 21 450 810,  
Fax: +381 21 458 133  
E-mail: [dee@uns.ac.rs](mailto:dee@uns.ac.rs)  
[www.dee.uns.ac.rs](http://www.dee.uns.ac.rs)

## **3. EMR'19 Summer School, 17 – 19 June 2019, Lille, France**

**EMR'19** will be held in Lille, France, 17-19 June 2019 (General chair: Dr. Ronan German, co-chair: Prof. Alain Bouscayrol, L2EP, Univ. Lille)

This annual international summer school deals with the EMR (**Energetic Macroscopic Representation**) formalism **which aims to organize models of multiphysical systems for asystematic deduction of their control organization**. The mains applications of EMR are electric and hybrid vehicles, renewable energy conversion systems, new electric drives, innovative actuators, etc.

This summer school is organized in 1) basic lectures on EMR concepts (first morning) 2) lectures on innovative applications using EMR (2<sup>nd</sup> and 3<sup>rd</sup> mornings), 3) simulation and practice session (afternoons, electric vehicle, wind energy systems, PV system). 3 ECTS will be delivered to Master and PhD students.

After Harbin (China), Trois-Rivières (Canada), Lausanne (Switzerland), Madrid (Spain), Coimbra (Portugal), Montreal (Canada), Hanoi (Vietnam), EMR'19 comes back in Lille (France) where it has been developed. This annual summer school is supported by the control chapter of EPE association since 2013.

More information

<http://www.emrwebsite.org/>

## **4. SLED 2019, Paper Submission is Open!**

SLED is the IEEE International Symposium on Sensorless Control for Electrical Drives, organized every other year by IAS and PELS. This year IES and EPE are Technical co-sponsors.

The 10th edition of SLED will take place in Torino, Italy, on September 9 - 10, 2019.

Paper Submission is open: please visit the event website: <https://attend.ieee.org/sled-2019/>

Please visit our website and follow the submission instructions at <https://attend.ieee.org/sled-2019/papers/>

Authors and accompanying persons can take advantage of the late summer in Italy and of the synergy with EPE'19 ECCE EUROPE, taking place one week earlier in Genova (<http://www.epe2019.com/>).

We hope to see you in Torino!

Gianmario Pellegrino and Radu Bojoi, SLED 2019 General Co-Chairs

## **5. ECPE: Calendar of Events 2019**

Date	Location	Event	Topic
26 - 27 March 2019	Erding / Munich, Germany	ECPE User Forum	<a href="#">ECPE SiC &amp; GaN User Forum 'Potential of Wide Bandgap Semiconductors in Power Electronics Applications'</a> Chairmen: Prof. A. Lindemann (Univ. of Magdeburg), Prof. L. Lorenz (ECPE), Dr. P. Friedrichs (Infineon) in conjunction with the ECPE Annual Event
4 – 5 April 2019	Berlin, Germany	ECPE Lab Course	<a href="#">EMC Optimised Design (Parasitics in Power Electronics)</a> Course Instructor: Prof. E. Hoene (Fraunhofer IZM)

5 – 6 June 2019	Bremen, Germany	ECPE Workshop	<a href="#">Humidity and Condensation in PE Systems - Degradation Mechanisms and Lifetime Modelling</a> Chairmen: Prof. N. Kaminski (University of Bremen), M. Piton (Alstom)
3 – 4 July 2019	Leinfelden- Echterdingen (near Stuttgart Airport), Germany	ECPE Workshop	<a href="#">Availability of Power Electronics by Fault-Tolerant Designs for Automotive and Aircraft</a> Chairmen: Prof. E. Wolfgang (ECPE), Prof. V. Pickert (Newcastle University), Dr. W. Wondrak (Daimler)
9 – 10 July 2019	Nuremberg, Germany	ECPE Tutorial	<a href="#">Thermal Engineering of Power Electronic Systems - Part I: Thermal Design and Verification</a> Chairman: Prof. U. Scheuermann (Semikron)
15 – 16 Octobre 2019	Nuremberg, Germany	ECPE Tutorial	<a href="#">Thermal Engineering of Power Electronic Systems - Part II: Thermal Management and Reliability'</a> Chairman: Prof. U. Scheuermann (Semikron)

For the information about ECPE Workshops and Tutorials, please visit the ECPE website [www.ecpe.org](http://www.ecpe.org)

## 6. Future EPE ECCE Europe and Technically Sponsored Conferences

### 2019:

- *ICPE 2019 – ECCE Asia, 27 - 31 May 2019 Busan, Korea (South)*  
<http://www.icpe2019.org/>
- *CIGRE Aalborg 2019 - International Symposium, 4 - 7 June*  
<https://cigreaalborg2019.dk/>
- *EMR'19 Summer School, 17 - 19 June 2019, Lille, France*  
<http://www.emrwebsite.org/>
- *LDIA 2019, 1 - 3 July 2019 at MICROCITY EPFL Neuchatel, Switzerland*  
<https://ldia2019.epfl.ch/>
- *PhD Summer School Mont-Soleil, 12 - 16/17 August 2019*  
<http://www.societe-mont-soleil.ch/summer-phd-school-mont-soleil.html>
- *SLED 2019, Torino, 9 - 10 September 2019*  
<https://attend.ieee.org/sled-2019/>
- *EPE 2019 ECCE EUROPE, 2 - 6 September 2019, Genova, Italy*  
<http://www.epe2019.com/>
- *Power electronics Ee2019, Novi Sad, October 23 - 26, 2019*  
[www.dee.uns.ac.rs](http://www.dee.uns.ac.rs)

### 2020:

**EPE 2020 ECCE EUROPE, 7-11 September 2020, Lyon, France**

### 2021:

**EPE 2021 ECCE EUROPE, 6-10 September 2021, Ghent, Belgium**

### 2022:

**EPE 2022 ECCE EUROPE, 5-9 September 2022, Hanover, Germany**

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