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## EPE 2018 ECCE Europe



The 20<sup>th</sup> Conference on Power Electronics and Applications, **EPE'18 ECCE Europe** is co-sponsored by the EPE Association and IEEE PELS and will be hosted by the **Riga Technical University (RTU)**, **from 17 to 21 September 2018**.

EPE ECCE Europe is the place-to-be for specialists in power electronics, systems and components, to present papers and attend sessions on state-of-the-art technology in this sector.

The conference aims to be a meeting place for researchers, developers, specialists from academia AND industrials for interdisciplinary discussions and the latest advances in the field of power electronics and adjustable speed drives.

A characteristic trend from previous EPE ECCE Europe conferences has been an increasingly large industrial participation, as well as a growing exhibition. In Riga we expect +/- 800 delegates and a lot of sponsors & exhibitors. Therefore, do not miss the opportunity to present your new scientific work and/or your activities, services and/or products at the EPE'18 ECCE Europe Conference and Exhibition!

### **RIGA, a city with a story for everyone:**

Riga is the capital of the Republic of Latvia and is the largest city in the Baltics.

As the biggest metropolis in the Baltics, Riga perfectly blends timeless tradition and cutting-edge cool.

Riga is more than 800 years old. Each century has left its marks in the architecture in the Old Town and City Centre where the cultural heritage coexists with the quick pace of modern living.

Latvia's capital is an exciting European metropolis at the crossroads of eastern and northern Europe.

Riga is a UNESCO World Heritage site of cobblestones and breathtaking river views.

The architecture of Riga is beautiful and diverse: a heritage of 800 year old Gothic churches, built by the founders of Riga, medieval buildings in the Old Town, exquisite Art Nouveau, as well as wooden buildings make Riga a true pearl of architecture. The city offers a dynamic cultural life. The Latvian National Opera gathers world-level artists. Concert halls regularly offer classic and popular music concerts, exhibition halls present works of world-known classical and contemporary artists. The cultural life of Riga is generous in various manifestations.

Riga is also the hub of the Baltic States including Sweden, Norway, Denmark and Finland.

Finally, Riga is perfect for organizing conferences, exhibitions, and team-building activities.

The city is very dynamic and can offer not only a professional service, but also good infrastructure. Riga is Europe's WIFI capital with almost 1,000 spots to get online for free.

**More information:** <http://www.epe2018.com/>

### **The EPE'18 ECCE Europe Exhibition:**

Companies or organizations are welcome to sponsor the conference according to our sponsorship packages.

Modular booths or spaces of 6 m<sup>2</sup>, 9 m<sup>2</sup>, 12 m<sup>2</sup>, 18 m<sup>2</sup> or 24 m<sup>2</sup> are available for rent.

Please follow this link to read about our Sponsorship & Exhibition Opportunities:

<http://www.epe2018.com/sponsorship-opportunities/>

**Contact for the exhibition:** [mireille.vankeerberghen@epe-association.org](mailto:mireille.vankeerberghen@epe-association.org)

## Opening tenure tracks:

In the group of DC Systems, Energy Conversion and Storage (DCE&S) at Delft University of Technology we have an opening for three tenured positions.

The successful candidates obtain a contract for 5 years with perspective of a permanent contract.

Tenure track positions are in the following areas:

- Electro mechanics
- DC systems (power electronics)
- High Voltage materials

The detailed description is in attachment of our Newsletter.

## SEMIKRON Innovation Award and Young Engineering Award 2018 – Call for Proposals:

The **SEMIKRON Innovation Award** and the **Young Engineer Award** which have been initiated and are donated by the SEMIKRON Foundation are given for outstanding innovations in projects, prototypes, services or novel concepts in the field of power electronics in Europe, combined with notable societal benefits in form of supporting environmental protection and sustainability by improving energy efficiency and conservation of resources.

SEMIKRON Foundation is awarding the prizes in cooperation with the European ECPE Network. With the awards the SEMIKRON Foundation wants to motivate people of all ages and organisations of any legal status to deal with innovations in power electronics, a key technology of the 21<sup>st</sup> century, in order to improve environmental protection and sustainability by energy efficiency and conservation of resources.

The SEMIKRON Innovation and Young Engineer Prizes will be awarded in the frame of the ECPE Annual Event in March 2018 in Stuttgart. A single person or a team of researchers can be awarded.

Ø SEMIKRON Innovation Award includes prize money of EUR 10.000,00.

Ø SEMIKRON Young Engineer Award\* includes prize money of EUR 3.000,00.

\* for researchers who have not yet completed their 30th year of age.

The selection procedure for the prize winners is organized in cooperation with ECPE European Center for Power Electronics e.V.. The submitted proposals will be passed to an independent and neutral evaluation committee of experts for discussion and assessment. To apply for the SEMIKRON Awards own applications as well as proposals from third parties are welcomed.

Please send your proposal resp. your application with the reference 'SEMIKRON Innovation Award' by email to Thomas Harder, General Manager of ECPE e.V., [thomas.harder@ecpe.org](mailto:thomas.harder@ecpe.org).

**The deadline for submission ends on 15.01.2018.** The receipt of your proposal will be confirmed by email.

**For details please see the award announcement and call for proposals enclosed.**

## ECPE: Calendar of Events 2017 - 2018

Date	Location	Event	Topic
9 November 2017	Aalborg, Denmark	ECPE Tutorial	<a href="#">ECPE Tutorial 'Power Circuits for Clean Switching and Low Losses'</a> Chairman: Dr. R. Bayerer (Infineon)
20-21 November 2017	Barcelona, Spain	ECPE Tutorial	<a href="#">ECPE Tutorial 'Wide Bandgap User Training'</a> Chairman: Prof. E. Hoene (Fraunhofer IZM)
6 – 7 June 2018	Nuremberg, Germany	ECPE Tutorial	<a href="#">CIPS 2018 - International Conference on Integrated Power Electronics</a> in conjunction with the ECPE Annual Event 2018

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

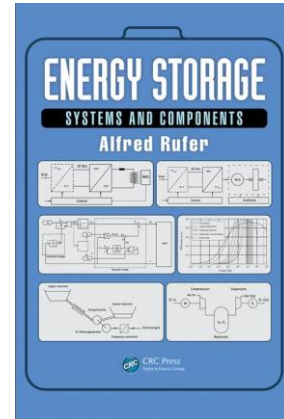
## Books

### **Energy Storage: Systems and Components**

Alfred Rufer

Reference - 274 Pages - 41 Color & 197 B/W Illustrations

ISBN 9781138082625 - CAT# K34501



### **Features**

- Contains a comprehensive description and comparison of different energy storage techniques and the limitations of the current technologies as they relate to future research efforts and technology developments.
- Incorporates Ragone plots to clearly show the link between the amount of energy that can be stored/recovered and its dependency on the transfer power level.
- Presents energy storage technologies, system performance and property aspects, and basic definitions of energy storage.
- Includes exercises to further solidify the knowledge and demonstrate applications.

### **Summary**

This book will provide the technical community with an overview of the development of new solutions and products that address key topics, including electric/hybrid vehicles, ultrafast battery charging, smart grids, renewable energy (e.g., solar and wind), peak shaving, and reduction of energy consumption. The needs for storage discussed are within the context of changes between the centralized power generation of today and the distributed utility of tomorrow, including the integration of renewable energy sources.

Throughout the book, methods for quantitative and qualitative comparison of energy storage means are presented through their energy capacity as well as through their power capability for different applications. The definitions and symbols for energy density and power density are given and relate to the volume and weight of a given system or component. A relatively underdeveloped concept that is crucial to this text is known as the theory of Ragone plots. This theory makes possible the evaluation of the real amount of energy that can possibly release out of a given system, with respect to the level of power dependency chosen for the discharge process.

From systems using electrochemical transformations, to classical battery energy storage elements and so-called flow batteries, to fuel cells and hydrogen storage, this book further investigates storage systems based on physical principles (e.g., gravitational potential forces, air compression, and rotational kinetic energy). This text also examines purely electrical systems such as superconductive magnets and capacitors. Another subject of analysis is the presentation of power electronic circuits and architectures that are needed for continuously controllable power flow to and from different storage means. For all systems described, the elementary principles of operation are given as well as the relationships for the quantified storage of energy. Finally, **Energy Storage: Systems and Components** contains multiple international case studies and a rich set of exercises that serve both students and practicing engineers.

Link : <https://www.crcpress.com/Energy-Storage-Systems-and-Components/Rufer/p/book/9781138082625>

## Future EPE ECCE Europe and Technically Sponsored Conferences

### 2018:

- IPEC 2018 ECCE Asia – 20-24 May 2018, Niigata, Japan:  
<http://www.ipec2018.org/>
- IEEE-PEMC - 26-30 August 2018, Budapest, Hungary:  
<http://www.ieee-pemc2018.org/>
- 2018 IEEE Energy Conversion Congress and Exposition (ECCE) – 23-27 September 2018, Portland, USA  
[https://www.ieee.org/conferences\\_events/conferences/conferencedetails/index.html?Conf\\_ID=35340](https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=35340)

### 2019:

- LDIA 2019, 1-3 July 2019, Neuchâtel, Switzerland  
<https://ldia2019.epfl.ch/>
- EPE 2019 ECCE EUROPE, 3 - 5 September 2019, Genova, Italy



# Asst./Assoc. Professor of Electromechanics

**Faculty/department** Electrical Engineering, Mathematics and Computer Science

**Level** PhD degree

**Maximum employment** Maximum of 38 hours per week (1 FTE)

**Duration of contract** Tenure track

**Salary scale** €3475 to €5405 per month gross

## Electrical Engineering, Mathematics and Computer Science

The Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) is known worldwide for its high academic quality and the social relevance of its research programmes. The faculty's excellent facilities accentuate its international position in teaching and research. Within this interdisciplinary and international setting the faculty employs more than 1100 employees, including about 400 graduate students and about 2100 students. Together they work on a broad range of technical innovations in the fields of sustainable energy, telecommunications, microelectronics, embedded systems, computer and software engineering, interactive multimedia and applied mathematics.  
[https://youtu.be/PsbUgi9A\\_cA](https://youtu.be/PsbUgi9A_cA)

The research in the Department of Electrical Sustainable Energy is inspired by the technical, scientific and societal challenges originating from the transition towards a more sustainable society and focuses on three areas:

- DC Systems, Energy Conversion and Storage
- Photovoltaic Materials and Devices
- Intelligent Electrical Power Grids

The Electrical Sustainable Energy Department provides expertise in each of these areas throughout the entire energy system chain.

The DCE&S group is responsible for research and education in the fields of DC systems, high voltage technology, energy storage, electronic power conversion (power electronics), and electromechanics. DC systems is a multidisciplinary field of research, exploring the electronic power conversion of electrical energy for different applications. The group is currently active in applications such as Direct Current distribution grids and microgrids, electrification of mobility (charging of electric vehicles), and renewable generation of electrical energy (such as wind and solar energy).

## Job description

As an Assistant/Associate Professor your focus will be on the following tasks:

Research in Electrical Sustainable Energy in the field of the design and control of electromechanical devices, including supervising PhD and Master students. The focus will be on innovative theoretical and experimental research on design and control of electromechanical and electromagnetic devices. Breakthroughs are expected from system integration of the electromechanical and electromagnetic devices, advanced real-time control, and methods to increase reliability and availability.

Education: Contributions to teaching in the BSc Electrical Engineering programme and



the MSc Electrical Sustainable Energy programme, with a focus on electrical machines and electrical drives.

Management: Acquisition and management of national and international research projects. Establishing strong collaborations with industrial partners.

Participation in international bodies such as IEEE. A holistic approach, in which design, implementation, deployment, and analysis are integrated, is strongly desired; we expect the applicant to actively collaborate with other researchers from academia and industry to realise this aim.

### **Requirements**

You must have a PhD degree in Electrical Engineering related to electromechanics or control of electrical drives. Overall knowledge and experience with experimental implementation of real-time control of electrical drives, as well as previous work experience in one of these areas, is required.

An excellent academic track record reflected by publications in the leading international journals is required.

You should have a demonstrated ability to initiate and direct research projects and to obtain external funding.

Experience in teaching and mentoring is considered an advantage. You also have an open personality and good communication skills. Demonstrated ability in written and spoken English is required. Knowledge of the Dutch language is an advantage.

### **Conditions of employment**

A tenure-track position is offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position.

The TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. An International Children's Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

The TU Delft sets specific standards for the English competency of the teaching staff. The TU Delft offers training to improve English competency.

Inspiring, excellent education is our central aim. If you have less than five years of experience and do not yet have your teaching certificate, we allow you up to three years to obtain this.

### **Information and application**

For more information about this position, please contact Prof. P. Bauer, phone: +31 (0)15-2784654, e-mail: p.bauer@tudelft.nl. To apply, please e-mail a detailed CV along with a letter of application by 1 October 2017 to A. J. Prummel, Hr-eemcs@tudelft.nl. When applying for this position, please refer to vacancy number EWI2017-27.

# Assistant/Associate Professor of DC Systems

**Faculty/department** Electrical Engineering, Mathematics and Computer Science

**Level** PhD degree

**Maximum employment** Maximum of 38 hours per week (1 FTE)

**Duration of contract** Tenure track

**Salary scale** €3475 to €5405 per month gross

## Electrical Engineering, Mathematics and Computer Science

The Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) is known worldwide for its high academic quality and the social relevance of its research programmes. The faculty's excellent facilities accentuate its international position in teaching and research. Within this interdisciplinary and international setting the faculty employs more than 1100 employees, including about 400 graduate students and about 2100 students. Together they work on a broad range of technical innovations in the fields of sustainable energy, telecommunications, microelectronics, embedded systems, computer and software engineering, interactive multimedia and applied mathematics. [https://youtu.be/PsbUgi9A\\_cA](https://youtu.be/PsbUgi9A_cA)

The research in the Department of Electrical Sustainable Energy is inspired by the technical, scientific and societal challenges originating from the transition towards a more sustainable society. Research focuses on three areas:

- DC Systems, Energy Conversion and Storage
- Photovoltaic Materials and Devices
- Intelligent Electrical Power Grids

The Electrical Sustainable Energy Department provides expertise in each of these areas throughout the entire energy system chain.

The DC Systems, Energy Conversion and Storage (DCE&S) group is responsible for research and education in the fields of DC systems, high voltage technology, energy storage, electronic power conversion (power electronics), and electromechanics. DC systems is a multidisciplinary field of research, exploring the integration of renewable energy sources and energy storage (electric vehicles) in DC networks and systems and future DC transmission grids. The group is currently active in applications such as Direct Current distribution and transmission grids and microgrids, electrification of mobility (charging of electric vehicles), and renewable generation of electrical energy (such as wind and solar energy).

## Job description

As an Assistant/Associate Professor your focus will be on the following tasks:

- Research in electrical sustainable energy in the field of the integration of renewable energy sources and energy storage (electric vehicles) in DC networks and systems and future DC transmission grids, including supervising PhD and Master students. The focus will be on innovative theoretical and experimental research of system integration of renewable energy and energy storage (electric vehicles) in DC networks and systems and

future DC transmission grids; design, control and protection of DC networks; innovative power electronic interfaces and converters for charging of electric vehicles; and real time simulation and hardware in the loop of DC systems. Breakthroughs are expected from grid integration of electric vehicles and new storage technologies, innovative DC microgrids and multiterminal DC grids, and system integration with power electronic interfaces.

- Teaching in the area of DC grids on the MSc level but also related subjects at the BSc level. Acquisition and management of national and international research projects, and establishing strong collaborations with academic and industrial partners.
- Participation in international bodies such as IEEE. A holistic approach, in which design, implementation, deployment, and analysis are integrated, is strongly desired; we expect the applicant to actively collaborate with other researchers from academia and industry to realise this aim.

A Tenure Track, a process leading up to a permanent appointment with the prospect of becoming an Associate or full Professor, offers young, talented academics a clear and attractive career path. During the Tenure Track, you will have the opportunity to develop into an internationally acknowledged and recognised academic. We offer a structured career and personal development programme designed to offer individual academics as much support as possible. For more information about the Tenure Track and the personal development programme, please visit [www.tudelft.nl/tenuretrack](http://www.tudelft.nl/tenuretrack).

## Requirements

You must have a PhD degree in Electrical Engineering related to power electronics, renewable energy, or electric vehicles. Overall knowledge and experience with experimental implementation of electronic power conversion, as well as previous work experience in one of these areas, is required. Practical knowledge about design of electronic power conversion in general will be positively evaluated. An excellent academic track record reflected by publications in the leading international journals is required. You should have a demonstrated ability to initiate and direct research projects and to obtain external funding. Experience in teaching and mentoring is considered an advantage. You also have an open personality and good communication skills in written and spoken English.

## Conditions of employment

A tenure-track position is offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position.

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experience and do not yet have your teaching certificate, we allow you up to three years to obtain this.

### **Information and application**

For more information about this position, please contact Prof. P. Bauer, phone: +31 (0)15-2784654, e-mail: [p.bauer@tudelft.nl](mailto:p.bauer@tudelft.nl). To apply, please e-mail a detailed CV along with a letter of application by 1 October 2017 to A. J. Prummel, [Hr-eemcs@tudelft.nl](mailto:Hr-eemcs@tudelft.nl). When applying for this position, please refer to vacancy number EWI2017-26.

# Asst./Assoc. Professor of High-Voltage Engineering

**Faculty/department** Electrical Engineering, Mathematics and Computer Science

**Level** PhD degree

**Maximum employment** Maximum of 38 hours per week (1 FTE)

**Duration of contract** Tenure track

**Salary scale** €3475 to €5405 per month gross

## Electrical Engineering, Mathematics and Computer Science

The Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) is known worldwide for its high academic quality and the social relevance of its research programmes. The faculty's excellent facilities accentuate its international position in teaching and research. Within this interdisciplinary and international setting the faculty employs more than 1100 employees, including about 400 graduate students and about 2100 students. Together they work on a broad range of technical innovations in the fields of sustainable energy, telecommunications, microelectronics, embedded systems, computer and software engineering, interactive multimedia and applied mathematics. [https://youtu.be/PsbUgi9A\\_cA](https://youtu.be/PsbUgi9A_cA)

The research in the Department of Electrical Sustainable Energy is inspired by the technical, scientific and societal challenges originating from the transition towards a more sustainable society. Research focuses on three areas:

- DC Systems, Energy Conversion and Storage
- Photovoltaic Materials and Devices
- Intelligent Electrical Power Grids

The Electrical Sustainable Energy Department provides expertise in each of these areas throughout the entire energy system chain.

The DC Systems, Energy Conversion and Storage (DCE&S) group is responsible for research and education in the fields of DC systems, high voltage technology, energy storage, electronic power conversion (power electronics), and electromechanics. DC systems is a multidisciplinary field of research, exploring the integration of renewable energy sources and energy storage (electric vehicles) in DC networks and systems and future DC transmission grids. The group is currently active in applications such as Direct Current distribution and transmission grids and microgrids, electrification of mobility (charging of electric vehicles), and renewable generation of electrical energy (such as wind and solar energy).

## Job description

As an Assistant/Associate Professor your focus will be on the following tasks:

1. Research in Electrical Sustainable Energy in the field of high voltage materials and components, including supervising PhD and Master students. The focus will be on materials for HVDC and HVAC insulation systems and for high voltage technologies. It is expected that you will conduct research in solid, liquid, and gas insulating materials with special emphasis on thermal, mechanical, and electrical improvement by nanoparticles addition. The research topics include material characterisation techniques, ageing

mechanisms, self-restoring insulating materials, material assessment, space charges, and new conductor materials based on superconductivity, nanotubes, and new metal combinations. The research output should be applicable to different high voltage fields, such as power electronic converters, high voltage cables, power transformers, gas insulated substation components, and gas insulated lines.

2. Education: Teaching in the area of high voltage materials and components, sustainable electrical power engineering, and high voltage infrastructures (MSc level), and in the BSc programme in Electrical Engineering.

3. Management: Acquisition and management of national and international research projects as well as establishing strong collaborations with industrial partners.

4. Participation in international bodies such as IEEE, Cigré, and IEC. A holistic approach, in which design, implementation, deployment, and analysis are integrated, is strongly desired.

A Tenure Track, a process leading up to a permanent appointment with the prospect of becoming an Associate or full Professor, offers young, talented academics a clear and attractive career path. During the Tenure Track, you will have the opportunity to develop into an internationally acknowledged and recognised academic. We offer a structured career and personal development programme designed to offer individual academics as much support as possible. For more information about the Tenure Track and the personal development programme, please visit [www.tudelft.nl/tenuretrack](http://www.tudelft.nl/tenuretrack).

## Requirements

You must have a PhD degree in Electrical Engineering related to high voltage materials and components. Overall knowledge and also practical experience with high voltage, as well as previous work experience in one of these areas, is required. An excellent academic track record reflected by publications in the leading international journals is required. You should have a demonstrated ability to initiate and direct research projects and to obtain external funding. Experience in teaching and mentoring students is considered an advantage. You also have an open personality and good communication skills. Demonstrated ability in written and spoken English is required. Knowledge of the Dutch language is an advantage.

## Conditions of employment

A tenure-track position is offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position.

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**Announcement and Call for Proposals**  
**for**  
**SEMIKRON Innovation Award**  
**SEMIKRON Young Engineer Award**  
**awarded by the SEMIKRON Foundation**

The SEMIKRON Innovation Award and the SEMIKRON Young Engineer Award is given for outstanding innovations in projects, prototypes, services or novel concepts in the field of power electronics in Europe, combined with notable societal benefits in form of supporting environmental protection and sustainability by improving energy efficiency and conservation of resources.

Both prizes have been initiated and are donated by the SEMIKRON Foundation which is awarding the prizes in cooperation with the European ECPE Network.

With the award the SEMIKRON Foundation wants to motivate people of all ages and organisations of any legal status to deal with innovations in power electronics, a key technology of the 21<sup>st</sup> century, in order to improve environmental protection and sustainability by energy efficiency and conservation of resources.

The SEMIKRON Innovation and Young Engineer Prizes 2018 will be awarded in the frame of the ECPE Annual Event in March 2018 in Stuttgart. A single person or a team of researchers can be awarded.

- SEMIKRON Innovation Award includes prize money of EUR 10.000,00.
- SEMIKRON Young Engineer Award for researchers who have not yet completed their 30<sup>th</sup> year of age includes prize money of EUR 3.000,00.

**Selection criteria:**

**Degree of innovation:**

The award targets at projects, prototypes, services and novel concepts developed in Europe, which did not yet appear on the market, which are used in a novel application, or which form an absolute novelty, and therewith fulfil the requirement to be extraordinary and remarkable. Sole project proposals are not in the scope of the call, the innovation should have been verified by experiment or simulation. The degree of innovation has to conform to international standards.

**Societal benefit:**

Societal benefit of the innovation regarding the increase of energy efficiency, conservation of resources, sustainability and environmental protection.

**Selection procedure:**

The selection procedure for the prize winners is organised in cooperation with ECPE European Center for Power Electronics e.V.. The submitted proposals will be passed to an independent and neutral evaluation committee of experts for discussion and assessment. The expert reviewers are appointed by the SEMIKRON Foundation in agreement with the ECPE Board of Directors. The number of experts should be at least five. The evaluation committee decides on the submitted proposals by majority vote. Selection and awarding of the prize winners is done with exclusion of the jurisdiction.

To apply for the SEMIKRON Awards own applications as well as proposals from third parties are welcomed.





**Proposal / Application**  
**for the**  
**SEMIKRON Innovation Award**  
**SEMIKRON Young Engineer Award**

The deadline for submission ends on 15.01.2018!

Please send your proposal resp. your application with the reference 'SEMIKRON Innovation Award' by email to Thomas Harder, General Manager of ECPE e.V., [thomas.harder@ecpe.org](mailto:thomas.harder@ecpe.org). The receipt of your proposal will be confirmed by email immediately.

Your proposal comprising 3-5 pages in total should be structured according to the headline given below and submitted in English language.

**1. Front page**

*The front page should show the title of the proposal, an abstract, the name and affiliation as well as a short CV (incl. exact date of birth) of the candidate(s) or applicant(s).*

**2. Description of the innovation**

*Description of the innovation with the underlying project, prototype, service or the novel concept. The innovation should be clearly pointed out with the area and scope of possible applications.*

**3. Who will be awarded?**

*Shall a single person or a team of researchers be awarded?  
At which location did the innovation take place?  
Age and CV of the person(s) to be awarded?*

**4. What is the nature of the innovation?**

*What is the claim of being innovative?*

**5. What is the societal impact and benefit?**

*Description of the economic, ecological and societal benefits of the innovation in qualitative and if possible also in quantitative terms (e.g. conservation of resources, energy efficiency, environmental protection)*

