LSEE
Laboratoire Systèmes Electrotechniques et Environnement

apime
Association pour la Promotion de l'Innovation des Matériels Electrique

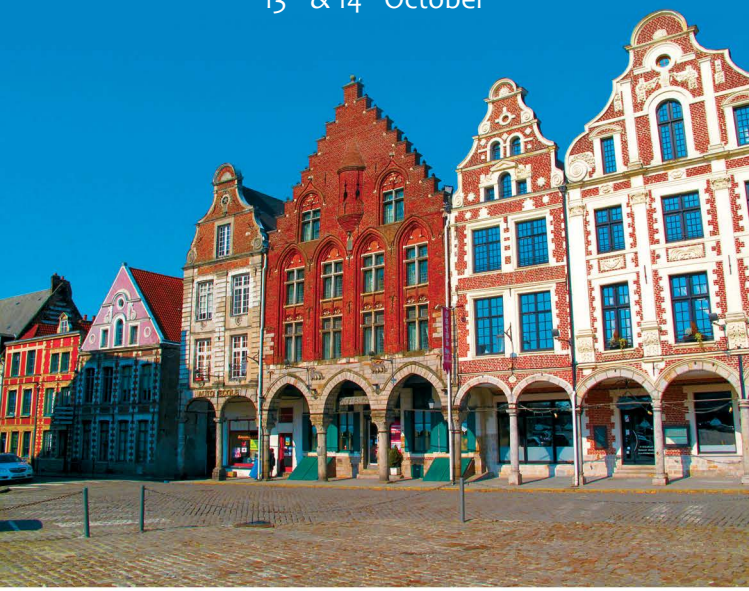
ED2E 2020

International Conference on

Eco-Design in Electrical Engineering

Arras

13th & 14th October



MEDEE
Maîtrise Energétique des Entraînements Electriques

UNIVERSITÉ D'ARTOIS

EDF

Rte

Welcome to ED2E

It is our great pleasure to invite you to participate to the international conference on **Eco-Design in Electrical Engineering.** It will be held in Arras, France, the **13th and 14th of October 2020** in the campus of the Artois University, **Arras, France**.

Scope

In the general context of sustainable development, the conference will focus on eco-design of electrical equipment in connection with the development of renewable energies and energy efficiency. The objective is to connect researchers from industry and academia in order to encourage them to work together on common themes. All TRL levels will be addressed. Contributions on feedback from experiences will be very useful and will facilitate discussion on common issues at all levels of maturity and development.

Objective

The evolution of the electrical equipment and their constituent materials and their inclusion in the current and future power grids show prospective. The time frame tied to that context justifies the consideration of technical and economic constraints to investment, operating costs and recycling.

Topics

1. Materials

Ecological impact of electrical engineering materials (insulation, conductor, magnetic)

- ◊ Existing materials performance improvement
- ◊ Low environmental impact materials
- ◊ New materials : nano-materials, superconductive

2. Equipment

Ecological impact of electrical equipment (Production, Transmission, Distribution, Use)

- ◊ Motors & Generators
- ◊ Transformers & Circuit breakers
- ◊ Limiting current / voltage devices
- ◊ Power electronics converters

3. Grids & Renewable energy

Insertion constraints of equipment in the grid

- ◊ Public & Isolated grids, Smart Grids
- ◊ Photovoltaic production
- ◊ Wind farms (on & off-shore)
- ◊ Energy storage
- ◊ Hydro-electricity

4. Economics & Regulations

Life cycle management of the networks considering regulation aspects and environmental impacts through economic approaches

- ◊ Eco-design & End of life management
- ◊ Limitation of non-renewable materials
- ◊ Life cycle forecast
- ◊ Maintenance strategies
- ◊ Technical-and-economic assessment, Regulations

5. Energy Efficiency

Review the potential energy efficiency improvement

- ◊ The economic potential of loss-saving
- ◊ Barriers and incentives to minimise losses
- ◊ Considering the losses in the network design

Social Event

The conference will be ponctuated by a gala dinner and a visit (included in the fees) of the experiments plateform of the research lab LSEE.

Language

The English language will be the official language of the conference. It will be used for both sessions and the communication text in the final proceeding.

Abstract Submission

Prospective authors should submit an abstract of one or two pages (A4) using the online submission system available on this link :

https://ed2e-2020.sciencesconf.org/

The instruction for the preparation of paper will be given on available on the conference web site. The manuscripts will be **evaluated by reviewers**.

An **award** and a price of 500€ for **the best paper presented by a young researcher** will be offered by an ED2E sponsor: EDF.

Important Dates

15th march :	Abstract submission deadline
1st may :	Notification of acceptance
1st september :	Full paper submission deadline
13th & 14th October :	ED2E 2020

Chairman

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Dominique Planson	INSA Lyon
Rémus Pusca	LSEE
Jean-Christophe Riboud	RTE
Dominique Serve	Schneider-Electric

Registration Fees

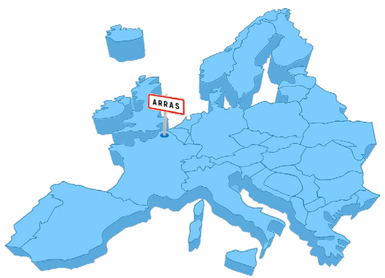
Participant	250 €
Student	50 €

Location

The technical program of the ED2E 2020 will be held in the amphitheater Jacques Sys, also known as «Le Dôme» inside the campus of the Artois University, which is situated in the centre of Arras and thus in the middle of all city activities.

Venue

Arras is located less than 50 minutes from Paris Charles de Gaulle airport by high speed train (TGV) and 30 minutes from Lille airport by car.



Contact

Laboratoire Ampère, Bât. Léonard de Vinci
INSA Lyon, 21 avenue Jean Capelle
F 69621 Villeurbanne cedex
Website : www.apime38.com
email : ed2e@univ-artois.fr

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