

# EIW2018

ESTACA International Week



'USER'S COMFORT IN  
AUTONOMOUS  
TRANSPORTATION'



ESTACA West Campus  
Laval, France



19<sup>th</sup> - 23<sup>rd</sup> March 2018

CONFERENCES & WORKSHOPS

CREATE COLLABORATIVE  
RESEARCH PROJECTS

DEVELOP & STRENGTHEN  
INTERNATIONAL PARTNERSHIPS

TEACH STUDENTS

ESTACA is an engineering school and a major European player in the transport domain. Students are trained to work in the fields of aeronautic, automotive, rail & guided transport engineering and aerospace through innovative teaching tackling the core of current transport issues such as eco-design, embedded systems, propulsion systems and on-board energy, etc.

ESTACA gives students some first-hand experience in using technology and imparts its expertise which is recognized throughout the industry.

Research is crucial for us. ESTACALAB, our research center, conducts activities on both system and mechanical engineering. Innovative technologies for transport and the environmental and social challenges we are facing today are among our key topics. As a result, we are involved in the development of emerging new technologies for green, sustainable transport that are smart and adapted to our current and future needs.

The school is actively involved in academic, industrial and scientific collaborations at regional (clusters of competition, Institutes of Excellence, etc.), national (ISAE group) and international (Campus France) levels.

## TEACHING DAYS (19 – 20 March 2018)

During the first two days, 19 - 20 March 2018, we would like to invite professors to ESTACA Teaching days. The aim is to develop our student's technical English skills and to prepare them to their future job of engineer.

For guest professors, the week offers a possibility to teach: Mechanical Engineering, System Engineering, Transportation (Aeronautics, Automotive, Space, Railway and Urban Transportation), Mathematics, Computer Sciences, Mechatronics, Sustainable Development, Management,...

## WORKSHOPS (21 – 23 March 2018)

Three main sessions will be organized dealing with both research (Mechanical and Systems Engineering) and academic fields.

Members of the International Department, as well as researchers from Universities are welcome to share ideas, develop and strengthen partnerships.

## KEYNOTES:

### Composite Structures:

**Dr. Véronique MICHAUD**, Head of Laboratory for Processing of Advanced Composites

Université Polytechnique Fédérale de Lausanne / EPFL, Switzerland

*'Composite materials, drivers for clean and cost-effective ground transport'*

### Energy Storage and Embedded Systems:

**Dr. James WHIDBORNE**, Head of Dynamics, Simulation & Control Group, Centre for Aeronautics

Cranfield University, United Kingdom

*'Drag Reduction for Trucks by Deflector Control'*

### Air Quality:

**Pr. Prashant KUMAR**, Director, Global Centre for Clean Air Research (GCARE)

University of Surrey, United Kingdom

*'Transport Microenvironment Exposure via Mobile Monitoring' + 'Air Quality in Megacities'*

Other oral presentations (*based on registrations, still in progress*): 'Virtual reality and Augmented reality in autonomous transportation', 'What are the main advantages of mechatronics systems in industrial applications', 'Why do we need system engineers', 'More comfort and less fatigue as antecedents of acceptance of autonomous vehicle', 'the innovative 'DYNAFIB' project'...

# EIW2018 Preliminary program

■ teaching days program / ■ all participants / ■ international staff program / ■ research program

Teaching days		Workshops		
Monday 19 <sup>th</sup>	Tuesday 20 <sup>th</sup>	Wednesday 21 <sup>st</sup>	Thursday 22 <sup>nd</sup>	Friday 23 <sup>rd</sup>
8h30 Arrival Laval Train Station 9:40	Courses for ESTACA students	Arrival Laval Train Station 9:40	Registration	Registration
10:00-9:00 <b>OPENING SESSION</b>	Coffee break	Registration	<b>What is a French Engineer?</b> Farah Hefied <b>Recruitments in France</b>	<b>Exchange possibilities at ESTACA</b> Farah Hefied <b>SCIENTIFIC SESSION</b> Electrification and Energy Storage Systems
11:00-10:00	Coffee break	<b>OPENING SESSION</b> Presentation of ESTACA Presentation of Participants	Coffee Break	coffee Break
12:00-11:00 Courses for ESTACA students	Courses for ESTACA students	Laboratories Tour	<b>Intercultural Communication</b> Sophie Bosc <b>SCIENTIFIC SESSION</b> Innovative Composite Structures	Laval Virtual Center <a href="http://lavalvirtualcenter.com/en/">http://lavalvirtualcenter.com/en/</a>
13:00-12:00		Lunch at ESTACA	Lunch at ESTACA	Lunch at Lactopole Museum <a href="http://www.lactopole.com/en/">http://www.lactopole.com/en/</a>
14:00-13:00 Lunch at ESTACA	Lunch at ESTACA	<b>French Education System</b> Farah Hefied break <b>French Basics</b> Amélie Delaurière	<b>International Fair / meetings with ESTACA Students</b> <b>SCIENTIFIC SESSION</b> Intelligent Transportation Systems	Museum Visit Lactopole <a href="http://www.lactopole.com/en/">http://www.lactopole.com/en/</a>
15:00-14:00 Courses for ESTACA students	Courses for ESTACA students	<b>PLENARY SESSION</b> 'User's Comfort in Autonomous Transportation'	Coffee break	
16:00-15:00 Coffee break	Coffee break	Coffee break	<b>Net working</b> <b>POSTER SESSION</b>	Visit of GRUAU <a href="https://www.gruau.com/en/">https://www.gruau.com/en/</a>
17:00-16:00 Courses for ESTACA students	Courses for ESTACA students	<b>French Basics</b> Amélie Delaurière <b>PLENARY SESSION</b>		
18:00-17:00		<b>Guided tour of Laval</b> <a href="http://www.laval-tourisme.com/en/">http://www.laval-tourisme.com/en/</a>	Free time	Bowling Session Cap form <a href="http://www.capform-53.fr/">http://www.capform-53.fr/</a>
19:00-18:00 Free time	Free time	Diner Cocktail City Hall of Laval	<b>Gala Diner</b> Alliance des Saveurs, Bonchamp les Laval <a href="http://www.lalliancedessaveurs.fr/">http://www.lalliancedessaveurs.fr/</a>	Closing Session and Diner ESTACA / Chaud comme la Breizh <a href="http://chaudcommelabreizh-crepier.fr/">http://chaudcommelabreizh-crepier.fr/</a>

## Registration fees

5 days: 19 – 23 March (Teaching days and Workshops)	3 days: 21 – 23 March (Workshops)	1 day
100€	80€	30€
<ul style="list-style-type: none"> <li>o Admission to the EIW 2018 Teaching days and Conferences</li> <li>o Hotels for 5 nights (only from Monday 19<sup>th</sup> to Friday 23<sup>rd</sup>) / breakfasts included</li> <li>o Lunches (except Monday and Tuesday dinners) and coffee breaks from Monday lunchtime to Saturday breakfast</li> <li>o Social events</li> </ul> <b>It doesn't include:</b> Monday and Tuesday dinners	<ul style="list-style-type: none"> <li>o Admission to the EIW 2018 Conference</li> <li>o Hotels for 3 nights (only from Wednesday 21<sup>st</sup> to Friday 23<sup>rd</sup>) / breakfasts included</li> <li>o Lunches and coffee breaks from Wednesday lunchtime to Saturday breakfast</li> <li>o Social events</li> </ul>	<ul style="list-style-type: none"> <li>o Admission to the EIW 2018 Conference</li> <li>o Lunches during the day</li> <li>o Social events (if applicable)</li> </ul>

All prices (in Euro) include the Value Added Tax (VAT)

**Application deadline: 31<sup>st</sup> December 2017**

More information: <http://www.estaca.fr/en/>  
contact: [eiw@estaca.fr](mailto:eiw@estaca.fr)

