

International Conference & Round Table Discussion on the Future of Engineering Education

Engineering Competencies for the Future Shock The growing importance of Continuing Engineering Education

Brussels – 8th and 9th October 2018

<u>Organized by :</u>	<u>In collaboration with :</u>	<u>And with the support of :</u>
 <p>SEII European Society for Engineers and Industrialists</p>	 <p>IACEE International Association for Continuing Engineering Education</p>	 <p>SEFI European Society for Engineering Education</p>  <p>eucen european university continuing education network</p>  <p>FU US University Foundation</p>

As a part of Engineering Education, **Continuing Engineering Education (CEE)** takes on a **growing importance**, as a result of the accelerating pace of technological development. This factual statement, though generally admitted, hides a number of issues and challenges :

- An ‘operational’ challenge linked with the **difficult dialog** between universities and industry, as the latter calls for engineers having a broader set of competencies than in the past, such as “soft” skills, digital literacy and the ability to work in a globalized world.
- A number of ‘**social**’ issues, as sustainable development, lack of attractiveness towards the engineering profession (particularly among female students), a strong trend to act reactively rather than proactively, ethical issues, ...

The **aim of this International Round Table Conference** is to deal with the above-mentioned challenges and issues, with an emphasis on the provision of CEE, the specific needs of Europe and the development of a long term sustainable approach.

The conference will be divided in **two parts** : first a series of relatively short **presentations** made by some stakeholders from academia, industry and the world of engineers, and second a relatively long and carefully prepared and video-recorded **discussion/debate** between the audience and a panel composed essentially of the speakers. Both parts will lead to a number of recommendations.

Please find the programme of this International Round Table Conference on the next pages, followed by practical information about venue, accommodation and registration, or on www.seii.org/seii/index.php/en/

Organizing Committee of the Conference :



Marc GOOSSENS, Secretary General of SEII, Member of the Council of IACEE, Head of the Organizing Committee



Michel VAN HECKE, Founding President of SEII (representing SEII)



Alfredo SOEIRO, Associate Professor of Civil Engineering, Universidade do Porto (representing IACEE)



Jacques SPELKENS, Head of Corporate Social Responsibility Benelux, ENGIE

Programme of the Round Table Conference

Monday 8th October afternoon

- 13 h 15  **Registration of participants**
- 14 h 00  **Conference begins.** Chairman of the Conference : Prof. Em. Dr. Yvan BRUYNSERAEDE, Faculty of Sciences at KU Leuven, member of the Royal Academy of Belgium
- 14 h 10   Welcoming address by Robert LECLÈRE, President of SEII, and Soma CHAKRABARTI, President of IACEE
- 14 h 30  **“Introduction to the conference”**, by Marc GOOSSENS, Secretary General of SEII, Head of the Organizing Committee of the Conference. ***Objective of his presentation :*** describe the evolutionary context of the matter in hand, place the different presentations in the current context and introduce the discussion/debate that will conclude the conference.
- 15 h 00  **“Deliberate Innovation for Tomorrow’s Lifetime Learners”**, by Nelson BAKER, Dean of Professional Education at Georgia Institute of Technology, USA, & Secretary General of IACEE. ***Objective of his presentation :*** develop IACEE point of view about the matter in hand, i.e. the reasons why deliberate innovation is necessary in the field of Engineering Education.
- 15 h 30  **“New Skills and Talents for New Jobs in a Changing Economy”**, by Jacques SPELKENS, Head of Corporate Social Responsibility Benelux, ENGIE. ***Objective of his presentation :*** describe the impact of globalization and rapid technological changes on the way corporates operate and on the competencies they expect from their engineers.
- 16 h 00  **Coffee break**
- 16 h 30  **“Four engineering profiles for two types of companies”**, by Léopold DEMIDDELEER, Founder & Managing Director of TechBridgeOne, member of the Royal Academy of Belgium. ***Objective of his presentation :*** choosing the right ‘psychological’ profile of the engineers industrial companies want to take on does not always lead to the best solution.
- 17 h 00  **“The importance and development of Continuing Engineering in China”**, by Xiujun WU, Executive Director, China Association for Continuing Education Engineering (CACEE), Beijing. ***Objective of her presentation :*** describe China’s experience and prospects in the field of Continuing Engineering Education.
- 17 h 30  **“Engineering a Sustainable Future – The SERINA project”**, by Errol LA GRANGE, Co-founder & CEO, CPDlive Pty Ltd, Melbourne, Australia. ***Objective of his presentation :*** explain why sustainability is important for engineers, how it can be a matter of Continuing Engineering Education, and what the SERINA project consists in.
- 19 h 30  **Gala dinner at the University Foundation (optional)**

Tuesday 9th October morning

08 h 30



“A Post-degree Bridge of the Digital Skills Gap”, by **Diane MORGAN**, Global Managing Director, Trilogy Education Services Inc., London Office.

Objective of her presentation : share the learnings of 40+ global research universities and their quest to stay ahead of the needs of the rapidly changing employment market.

09 h 00



“Digital Transformation of Higher Education”, by **Yves DEVILLE**, Professor, Louvain School of Engineering, UC Louvain. **Objective of his presentation** : describe why and how digitization of society will impact the way of working of universities.

09 h 30



“Systemic Complexity in Decision Engineering”, by **Pierre KUNSCH**, Dr Ph.Sc., Professor, Brussels Free Universities. **Objective of his presentation** : explain why many decisions about the future of any complex system may cause unwanted effects and how an approach based on systems dynamics can remedy such a problem.

10 h 00



Coffee break

10 h 30



Video-recorded DISCUSSION/DEBATE, with a panel composed of the speakers and the participation of the audience.

12 h 30



Conference ends

Practical information

Dates : Monday 8th (afternoon) and Tuesday 9th (morning) October 2018

Venue : University Foundation – Rue d’Egmontstraat, 11 – 1000 Brussels – Belgium ([see map on next page](#))

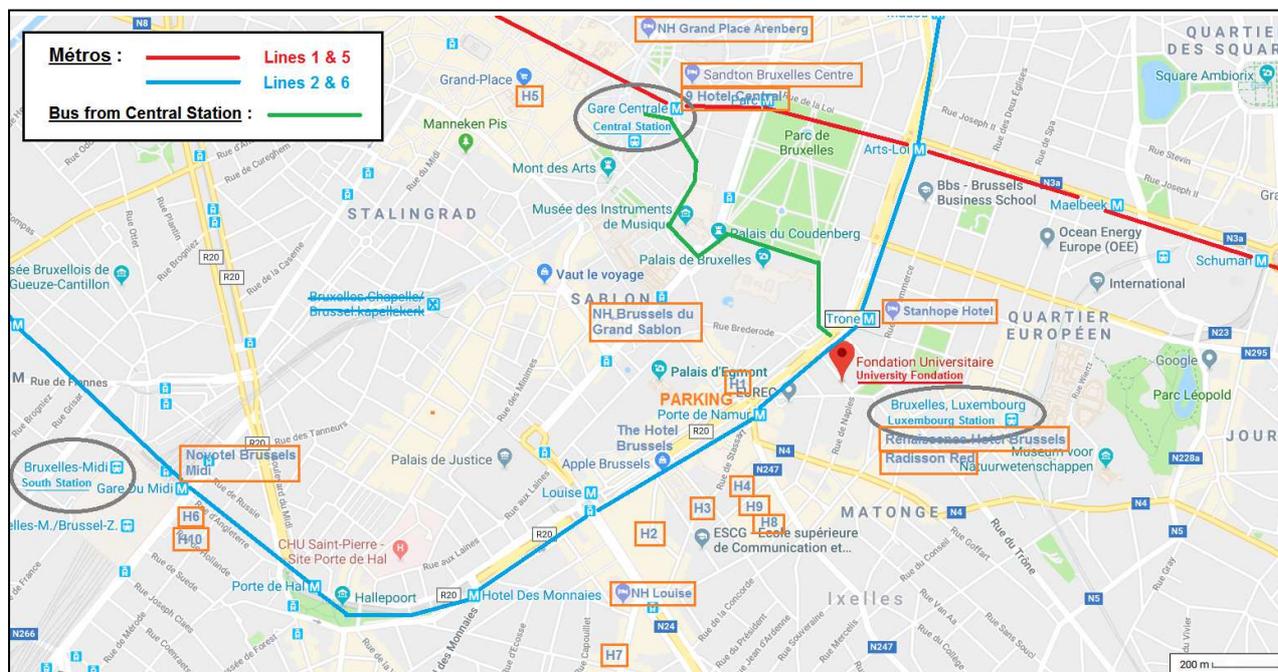
Reaching City Centre from Brussels Airport :

- **Train** to Central or South Station (about 20 min – cost : 9.00 €), with easy connections with buses, trams and metro, *or*
- **Express bus**, line 12 (or 21) to Luxembourg Station (about 30 min, cost : 7.50 €), limited connections (with buses only), *or*
- **Taxi** (duration depending on traffic , cost : about 40 to 55 €, depending on traffic, time and day).

Reaching Venue :

- **From South Station** : *Metro* (lines 2 or 6, direction ‘Elisabeth’), step down at Trône/Troon ([see map on next page](#))
- **From Central Station** : *Bus* (lines 38 direction ‘Héros/Helden’, or 71 direction ‘Delta’), step down at Trône/Troon stop ([see map on next page](#))
- **From Luxembourg Station** : *walking* ([see map on next page](#))
- **From hotels** : *see the ‘accommodation’ section*

Parking : Porte de Namur / Naamsepoort ([see map on next page](#))



Registration

Registration fees (including VAT) :

	Categories of participants	Conference only	Conference & gala dinner	Gala dinner only
1.	Speakers, chairman and/or members of the organizing committee	€ 0	€ 50	€ 50
2.	Members of SEII and/or of IACEE (except those of category 1)	€ 135	€ 200	€ 65
3.	Members of SEFI, EUCEN and/or the University Foundation (except those of categories 1 or 2)	€ 150	€ 220	€ 70
4.	Students	€ 25	€ 65	€ 40
5.	Other participants	€ 170	€ 245	€ 75

A registration form is available on our website (www.seii.org/seii/index.php/en/), allowing payments by **either credit card or bank transfer**.

In both cases, you will receive an invoice after payment.

Accommodation

For the speakers who need a room and for the members of IACEE Executive Committee :

Up to 13 rooms are available, at a discount price (105 € for a single room), at the **hotel of the University Foundation** (venue) for the necessary days (IACEE meeting and/or conference).

This possibility can be extended to the chairman of the conference and to other members of IACEE Council.

Please confirm or ask for the necessary nights by mailing to info@seii.org.

For others participants :

A number of nearby hotels situated not too far from the venue are located on the map above in an orange rectangle :

- Hotels that are ranked 4 or 5 stars are indicated in full name, as below :

NH Brussels du Grand Sablon	NH Louise
NH Grand Place Arenberg	Radisson Red
Renaissance Brussels	9 Hotel Central
Sandton Brussels Centre	Stanhope Hotel
Novotel Brussels Midi	The Hotel Brussels

- If you prefer a 3 stars hotel, here is a list of 10 of them, (they are also located on the above map, not in full name, but by the letter 'H' followed by a number):

H1	Hotel Chambord	H2	Argus Hotel Bruxelles	H3	Hygge Hotel
H4	Aqua Hotel Brussels	H5	Ibis Hotel Brussels off Grand'Place		
H6	Ibis Hotel Centre South Station	H7	Ibis Hotel Styles Centre Stéphanie		
H8	Beverly Hills Hotel	H9	Le Berger Hotel	H10	Park Inn by Radisson Brussels

You can easily get in contact with all these hotels through Google, but please note that :

As organizers of this event, we have no agreement with them, neither concerning availability nor concerning the price.

From the 8th to the 11th October 2018, the *“European Week of regions and Cities”* will be going on in Brussels, with many visitors from abroad. Therefore, **we recommend you not to wait too long before booking a room.**

Reaching Venue from the hotels :

- **From Sandton Brussels Centre, 9 Hotel Central, NH Grand Place Arenberg, and Ibis Hotel Brussels off Grand'Place (H5) :** *walk to Central Station and take a bus as indicated previously*
- **From Novotel Brussels Midi, Ibis Hotel Centre South Station (H6) and Park Inn Radisson Brussels (H10) :** *take metro at South Station as indicated previously*
- **From Stanhope Hotel and Hotel Chambord :** *5 minutes walk (see map above)*
- **From all other hotels :** *10 to 20 minutes walk (see map above)*

Other information ?

Mailto : info@seii.org

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