



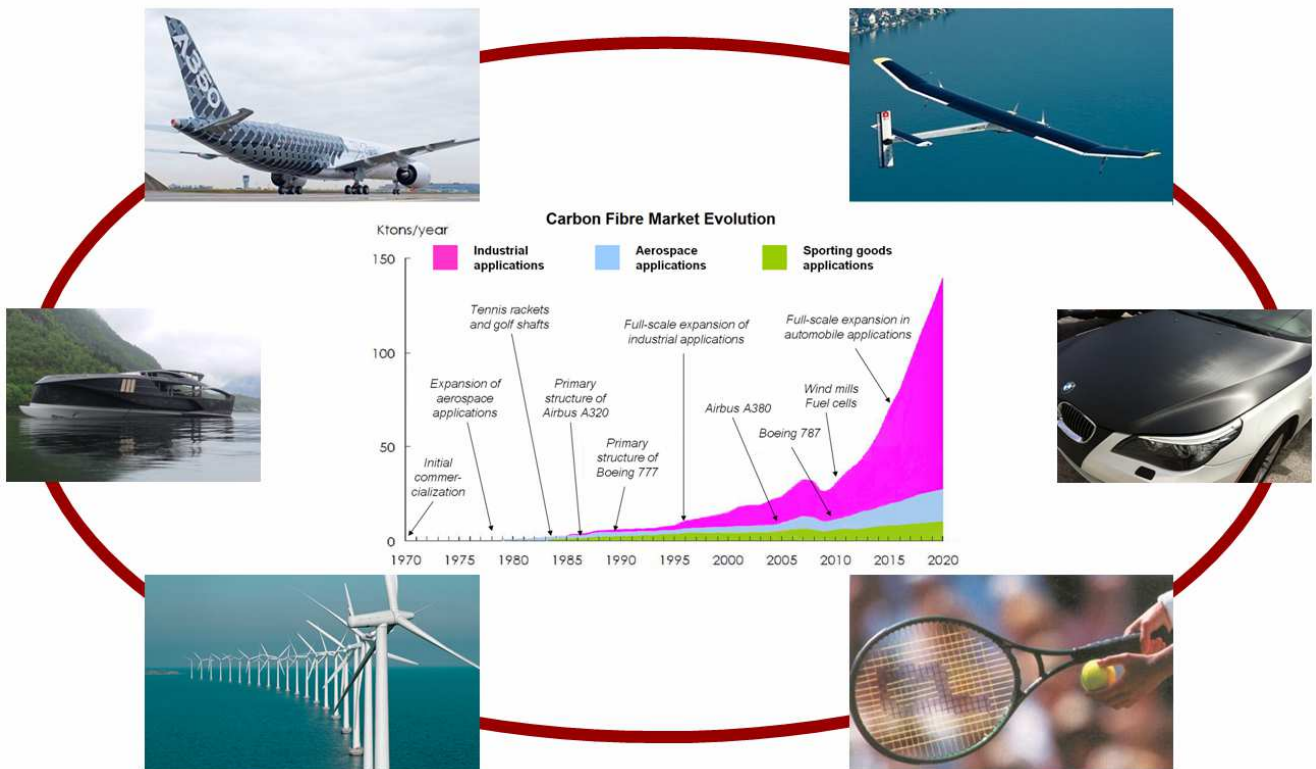
SEII
*European Society for
 Engineers and Industrialists*



International Colloquium on Composite Materials

How carbon composites are revolutionizing our world !

Brussels – 18th November 2015 – University Foundation



With the sponsorship of the :

And the support of :

KU Leuven "Toray Chair in Composite Materials"



In order to safeguard their competitiveness, more and more industries have incorporated a growing volume of carbon fibre-reinforced composites into their products.

Those materials, which combine unparalleled stiffness and strength with a low density, have moved up from the status of small-scale laboratory products to the one of ideal materials for heavily loaded but lightweight structures.

Apart from space and military applications, four main industrial sectors have up to now been concerned with their use :

1. The aeronautics industry, for instance with both the Airbus-350 and the Boeing-787, the structure of which is composed of composite materials up to more than 50 % (in volume), leading to an impressive weight reduction.
2. The car manufacturing industry, where the use of carbon composites leads to significant weight reductions, increased performance and lower fuel consumption.
3. The power industry, for instance wind mills, where 90 metres long turbine blades, made of composite materials, have to run for 25 years, often in extreme environmental conditions.
4. And of course the sporting goods industry (cycles, tennis rackets, skis, golf clubs, ...) has become a 'traditional' user of composites, the performance of which has a beneficial effect on the athletes' performance.

Will this trend go on ? With the emergence of new types of carbon reinforcements, namely graphene and carbon nanotubes, we may reasonably expect that it will be the case.

This colloquium intends to give you a state-of-the-art insight in the most recent developments and prospects in that field, thanks to high level specialists from European academia and world industry.

Programme

08 h 30

Registration of participants

09 h 00



Welcome address, by **Philippe WAUTERS**, President of SEIL.



Chairman : Prof. Em. Dr. **Yvan BRUYNSERAEDE**, Department of Physics and Astronomy at KU Leuven

09 h 10



« *Carbon fibre composites for structural applications : from scientific fundamentals to advanced engineering* », by Prof. Em. Dr. Ir. **Ignaas VERPOEST** (KU Leuven and “Toray Chair in Composite Materials”)

09 h 50



« *History and future vision of carbon fibres development* », by Dr. **Makato ENDO**, General Manager, Composite Materials Research Laboratories, Toray Industries Inc., Japan

10 h 30










« *Nano-engineered structural composites : opportunities and challenges* », by Dr. **Larissa GORBATIKH**, Research Expert, KU Leuven, Department of Materials Engineering (MTM)

11 h 10



Coffee break

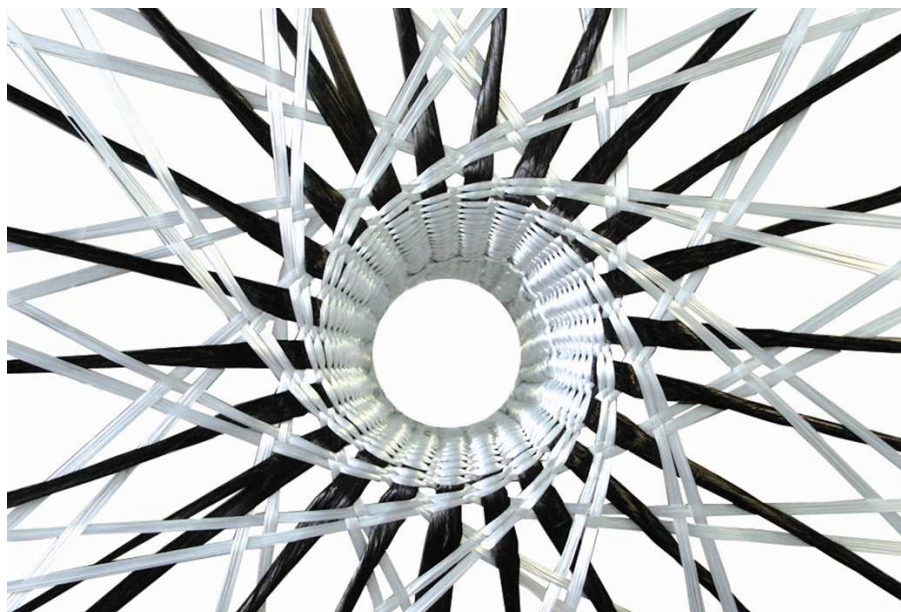
- 11 h 30**  « *The major role of manufacturing processes on the use and properties of carbon fibre-reinforced composites* », by Prof. Dr. **Christophe BINÉTRUY**, Ecole Centrale de Nantes (Civil & Mechan. Engin.), Materials, Processes & Technologies of Composites, France
- 12 h 10**  « *Challenges for the application of carbon composites in aerospace and automotive* », by Prof. Dr.-Ing. **Axel HERRMANN**, Chief Technology Officer, CFK Valley, Stade, Germany
- 12 h 50**  **Lunch**
- 14 h 30**  « *Carbon composites for energy-related applications* », by Prof. Dr. Ir. **Joris DEGRIECK**, Department of Materials Science and Engineering, University of Ghent
- 15 h 10**  « *Solar Impulse : Wings for the Future* », by Dr. Ing. **Claude MICHEL**, Head of the Solar Impulse Partnership, Solvay SA
- 15 h 50**  « *The EU-policy on carbon composites : highlights of actual projects and future trends & plans* », by Dr. **Achilleas STALIOS**, European Commission, DG Research & Innovation, P.Unit G3 Project Officer
- 16 h 30**  **Conclusion drink**

The members of the organizing committee :

- Philippe WAUTERS, Michel VAN HECKE and Marc GOOSSENS (SEII)
- Ignaas VERPOEST, Yvan BRUYNSERAEDE and Stepan LOMOV (KU Leuven)
- Julie LEROY (AGORIA)

hope that the renown of the speakers who have accepted to present the state-of-the-art developments in the field of carbon fibre-reinforced composites will arouse a great interest among engineers and industrialists.

Please find some practical information about venue and registration on next page.



Practical information

Date : Wednesday 18th November 2015

Venue : University Foundation,
Rue d'Egmontstraat, 11
1000 Brussels – Belgium

Metro : Trône / Troon (lines 2 & 6)

Bus lines : 38 & 71 (from Central Station)



Registration fee (including lunch) :	<i>Up to 31st October 2015</i>	<i>From 1st November 2015 on</i>
Students	25 € / participant	30 € / participant
Academic staff	80 € / participant	95 € / participant
Members of SEII or/of AGORIA	80 € / participant	95 € / participant
Other participants	105 € / participant	125 € / participant

Cancellation policy : Before 31st October : 100 % - Between 31st October and 13th November : 50 % - From 14th November on : 0 %

NB. An invoice can be sent if the participant requires it and provides the VAT number of his/her company.

Other information ? Visit SEII's website (www.seii.org/seii/index.php/en/) or ask by email (info@seii.org)

Registration

- First way :**
- Go to SEII's website (www.seii.org) and choose your language
 - Click on the first button of the menu (welcome ⇒ registration)
 - Fill in the registration form and click on the 'Send' button

NB. If you are a student or a member of academic staff, or if your company is a member of AGORIA, please mention it in the 'Remarks' box

- Second way :** fill in the registration form below and - either return it **by fax** to : + 32 - (0)2 502 98 31
- or scan it and send it **by email** to info@seii.org

I shall take part in the « *International Colloquium on Composite Materials* », organized by **SEII**, in partnership with the MTM Department of KUL, on the 18th November 2015.

Title : _____ Name : _____

First name : _____

Function : _____

Organization : _____

Street : _____ Nr : _____ PO Box : _____

Zip code : _____ City : _____ Country : _____

Telephone : _____ Mobile : _____

E-mail : _____ VAT : _____

I will transfer the sum of _____ € to the bank account **IBAN : BE63 3101 3976 9208 – BIC : BBRUBEBB** of SEII, rue d'Egmontstraat, 11 – 1000 BRUSSELS, mentioning “ **Composites 2015** ” and the participant's name(s).

Signature :