



Leuven, November 15, 2013

Concerning: SAMPE BeNeLux Fall meeting at Vrije Universiteit Brussel on December 3rd, theme 'Composites in construction'

Dear SAMPE Benelux friend,

it is my pleasure to announce you the complete program for the Fall 2013 SAMPE BeNeLux meeting. The meeting will take place at the department Mechanics of Materials and constructions (MeMc) of the Vrije Universiteit Brussel. Our host, professor Danny Van Hemelrijck has prepared a seminar program with us that focuses on Composites in Construction. The importance of this theme for the composites industry is highlighted in the text below:

Composites in construction

Fiber reinforced polymer composites are increasingly being used in many industrial sectors. Although the construction sector is one of the largest markets, it is only very recent that civil engineers began to realize the potential benefits they provide over conventional building materials. Despite many advantages, the acceptance of FRP has almost exclusively been limited to the repair and rehabilitation of existing structures and to the construction of bridge decks. Other key advantages such as freedom of shape, ease of installation, speed of assembly and erection, low energy consumption, etc. are not well developed and can only materialize in full-scale construction projects. Undoubtedly, the simultaneous use of all these key benefits will revolutionize civil engineering construction.



Unfortunately, the heat/fire response of polymer based composites is a limiting factor for acceptance in construction. Therefore, the department of Mechanics of Materials and constructions (MeMc) of the VUB has developed inorganic matrix composite materials with good mechanical performance and extremely high fire resistance.

During this SAMPE meeting the current trend in utilization of composite material systems will be reviewed.

Please find hereby the proposed agenda:

- 9.45 Registration & coffee
- 10.15 Welcome and introduction by SAMPE BeNeLux
- 10.20 Welcome address and overview of research related to FRP at VUB, Danny Van Hemelrijck, VUB
- 10.30 '*Benefits of Advanced Composite Materials and Processes in Construction: Past, Present and Future*', Clem Hiel, VUB
- 11.00 '*Cementitious composites: a concrete solution for lightweight structures*', Tine Tysmans, VUB
- 11.30 '*Identification of fracture mechanisms in externally reinforced concrete beams by acoustic emission and digital image correlation*', Dimitrios Aggelis, VUB
- 12.00 Lunch
- 13.00 '*Structural application of composites in civil engineering : case study based opportunities and challenges*', Wouter De Corte, Hogeschool Gent
- 13.30 '*Development of fire resistant facade structures*', Jack Smit, Polux
- 14.00 '*Composite applications in high end architecture*', Pieter-Jan Dwarshuis, Holland Composites
- 14.30 SAMPE Benelux member meeting
- 15.00 Visit to VUB labs & networking drink
- 16.30 Closure



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You can **register** to this event by contacting Bart Vangrimde (see contact details below). Participation is free for SAMPE members. Non-members pay 80.00 € (includes one year membership) and students 20.00 € (includes one year student membership). Please subscribe **at the latest on Friday November 22**.

Non-members can fill out their application forms on-site or via the form that can be found on the SAMPE Europe website: <http://www.sampe-europe.org/> (tab membership application).

The meeting will take place at the following address: building K, VUB (campus Etterbeek), Pleinlaan 2, 1050 Brussel. To know more about access to VUB via car or public transport, see: <http://www.vub.ac.be/english/infoabout/campuses/index.html>

For people driving by car, please find an access plan in Annex. To reach building K it is advised to access via entry nr 8 on the Triomflaan. Parking places are available under building K and around buildings L and Kb.

SAMPE Benelux is grateful to the VUB for organizing this meeting with us.

Hoping to see many of you at VUB,
with regards,

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MEMC

Campus Etterbeek

Legend

Accommodation Office and Student Residences	P
Applied Linguistics (Erasmushogeschool Brussel)	5
Arts and Philosophy	B/C
Aula Q	Q
Bank-ING branch	F
Bicycle parking	Z
Bicycle repair point	14
Bookshop (course material - VUBtiel)	17
Brussels Institute of Contemporary China Studies (BICCS)	5
Cafeteria	R
CAW Mozaiek (Centre for General Social Work)	Y
Central Store for Suppliers (via entrance 13 or G)	F
Centre for Adult Education (CVO language school)	D
Centre for Study and Coaching	F
Copyland	16
Crazy Copy Center	E
Economics, Social and Political Sciences & Solvay Business School	B/C
Engineering	K/Z
Esplanade	1
Facility Management	T
Galerij	Y
Health Centre	Y
HealthCity fitnessclub	L
Institute for European Studies (IES)	5
Institute for Language Education (ITO)	5
International Relations and Mobility Office (IRMO)	5
Job Service	Y
Karel Van Mierl-building	5
KultuurKaffee	Y
Law and Criminology	B/C
Mail Dispatching (via entrance 13 or G)	F
Medical Services	Y
Opinio café	3
Physical Education and Physical Therapy	L
Pleinlaan 9	9
Psychology and Education Sciences	B/C
Rectorate and Administration	M
Restaurant	R
Sciences and Bio-engineering Sciences E/F/B	5
Security	F
Sierr-Dilemma	Y
Social Services for Students	Y
Sport Service	L
Sports Accommodation	L
Sports Field	6
STOA	4
Student Counselling and Advice	Y
Student Information Hub	D
Student Policy	Y
Student Residence Nieuwelaan	8
Student Residences on campus	7
Student Residences Schoofslaan and Triomflaan	10
Swimming pool	L
't Complex	8
University Library	8
Vesalius College	5



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