

2nd Conference - FLOWER Project

Advanced Biobased Materials and Composites for Engineering Applications



17 SEPTEMBER 2020
08:30 - 16:30 (UK TIME)

Online conference

Registration <https://flower-conference.eventbrite.co.uk/>



08:30 Welcome and Introduction - Prof. Hom N. Dhakal (University of Portsmouth)

SESSION 1

08:45 – 10:15

08:45 Keynote - Prof. Ian Hamerton (University of Bristol): *The use of HiPerDiF (high performance discontinuous fibre) technology to manufacture hybrid composites from more sustainable feedstocks*

09:15 Questions & Answers

09:25 Wassim GUERFALA (GeM, Centrale Nantes), Patrick ROZYCKI, Christophe BINETRUY: *Elaboration of hybrid bio-composites with thermoplastic matrix: optimal material formulation and modelling of the quasi-static behaviour for an automotive structural application part*

09:40 Erwan GROSSMAN (Kairos), **Peter DAVIES** (IFREMER): *Experience from the GWALAZ flax reinforced trimaran*

09:55 Questions & Answers

10:15 – COFFEE BREAK

SESSION 2

10:30 – 11:50

10:30 Invited talk - Mr Andy Smith (Gordon Murray Design): *Light weight composite manufacturing, opportunities and challenges*

11:00 Questions & Answers

11:10 Sofiane GUESSASMA (INRAE Nantes): *Biosourced materials in additive manufacturing*

11:25 Sikiru O. ISMAIL (University of Hertfordshire), Hom N. DHAKAL: *Machinability of biocomposites: prospects and challenges*

11:40 Questions & Answers

11:50 Virtual Lab Tour

12:00 – LUNCH BREAK

SESSION 3

13:00– 14:20

- 13:00** **Keynote** - Prof. M. Sain (University of Toronto): *Circular biobased materials and composites technology: A fast emerging industry 4D*
- 13:30** **Questions & Answers**
- 13:40** **Marwa ABIDA** (ENIM), A. BAKLOUTI, F.GEHRING, A. VIVET and C. BOUVET: *Inverse approach for flax yarn mechanical properties identification based on flax fabric reinforcement tests*
- 13:55** **Michael GEUEKE** (University of Siegen): *Mechanical properties and durability of flax and carbon fibre reinforced hybrid composites fabricated by additive manufacturing*
- 14:10** **Questions & Answers**

14:20 - COFFEE BREAK

SESSION 4

14:35 - 16:00

- 14:35** **Invited talk** - Prof. Fabrizio Sarasini (SAPIENZA-UNIVERSITÀ DI ROMA): *Strategies to increase fibre/matrix interfacial adhesion in natural fibre composites: recent advances*
- 15:05** **Questions & Answers**
- 15:15** **Laëtitia DUGOU** (Université de Bretagne Sud, IRDL), Houdayfa OUNIS, Jean-Marc CADOU: *Study of the influence of flax/epoxy layers on the damping and eigenvalues of composite structures*
- 15:30** **Kevin CLARKE** (KCC Packaging): *KCC's trek from plastic packaging to a fibre future*
- 15:45** **Questions & Answers**
- 16:00** **Panel discussion and Closing Note**



PRACTICAL INFORMATION

<https://flower-conference.eventbrite.co.uk/>

This conference is organised by the Advanced Materials and Manufacturing (AMM) Research Group of the University of Portsmouth and co-financed by the by the European Regional Development Fund (ERDF) within the framework of the **INTERREG VA France (Manche) England Programme**



ABOUT FLOWER PROJECT: [University of Portsmouth Website](http://www.universityofportsmouth.ac.uk)



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