



ESBBC

PROGRAMME

1ST

EUROPEAN
SUMMER
SCHOOL ON
BIO-BASED
COMPOSITES

FROM PLANT & WOOD FIBRES TO ADVANCED COMPOSITES



ONLINE EVENT
6, 7, 8 OF JULY 2021

<https://events.femto-st.fr/ESBBC>

JULY 2019

8:50 – 9:00 Welcome & introduction – Vincent Placet

9:00 – 9:20 Steve Barron – Towards a more sustainable world – From film to hemp farming

9:20 – 11:15 SESSION 1: Interactive Workshop on bio-based materials design, perception and emotional aspects

9:20 – 9:45 Presentation – Lecture/interview

Influence of processing on the physical and emotional properties of plant fibre-reinforced composites - Jörg Müssig, Tim Huber, Darshil Shah

9:45 – 11:15 Workshop

Perception of the quality and environmental friendliness of bio-based composites - Jörg Müssig, Tim Huber, Darshil Shah

11:15 – 11:30 Coffee break

11:30 – 12:15 Presentation of European projects

11:30 – 11:40 SSUCHY - Vincent Placet

11:40 – 11:50 FLOWER - Alain Bourmaud

11:50 – 12:00 NETFIB - Michel Chalot

12:00 – 12:10 FibreNet - Pasi Kallio

12:10 – 12:15 Q&A

12:15 – 13:30 Lunch break

13:30 – 16:45 SESSION 2: Plant and wood fibres

13:30 – 14:00 Keynote lecture: Overview of plant fibres for bio-based composite reinforcement; main specificities and key properties - Alain Bourmaud, Vincent Placet

14:00 – 14:15 Q&A, Quizz

14:15 – 14:45 Keynote lecture: Wood fibres - from their biological origin to their properties - Michaela Eder, Olivier Arnould

14:45 – 15:00 Q&A, Quizz

15:00 – 15:30 Flash presentations Selected PhD students

15:30 – 16:00 Coffee break

16:00 – 16:45 Mechanical testing of individual wood fibres: video/live demonstration - Pasi Kallio & FIBRObotics

16:45 – 17:45 SESSION 3: Biochemistry of plant fibres

16:45 – 17:15 Keynote lecture: Towards better knowledge of fiber cell wall : from biochemistry to the properties of plant walls, main lines and variables - Arnaud Day, Johnny Beaugrand

17:15 – 17:30 Q&A, Quizz

17:30 – 17:45 Flash presentations Selected PhD students

JULY 7

9:00 – 12:00 SESSION 4: Advanced functionalities of bio-based composite materials and structures

9:00 – 9:30 Keynote lecture: Hygrothermal ageing and durability of bio-based composites and structures - Aart Van Vuure, Peter Davies

9:30 – 9:45 Q&A, Quizz

9:45 – 10:15 Flash presentations Selected PhD students

10:15 – 10:45 Coffee break

10:45 – 11:15 Keynote lecture: Multifunctionnal bio-based and recycled composite materials and structures - Fabrizio Scarpa, Tulio Panzera

11:15 – 11:30 Q&A, Quizz

11:30 – 12:00 Flash presentations Selected PhD students

12:00 – 13:30 Lunch break

13:30 – 17:30 SESSION 5: Bio-based composites and materials applications

13:30 – 14:00 Keynote lecture: Bio-based materials in construction and architecture - Darshil Shah, Ana Gat6o

14:00 – 14:15 Q&A, Quizz

14:15 – 15:45 Keynote lecture: Bio-based composites in wind energy - Bo Madsen

14:45 – 15:00 Q&A, Quizz

15:00 – 15:30 Coffee break

15:30 – 16:00 Industrial applications #1: Developing Biobased Composite Products - Mark Lepelaar, NPSP

16:00 – 16:15 Q&A

16:15 – 16:45 Industrial applications #2 : Natural fiber composites for lightweight mobility - Marion Frey, BCOMP

16:45 – 17:00 Q&A

17:00 – 17:30 Flash presentations Selected PhD students

JULY

9:00 – 10:30 SESSION 6: Workshop on scientific journal writing – Darshil Shah, Alain Bourmaud

10:30 – 11:00 Coffee break

11:00 – 12:15 SESSION 7: Plant cultivation, harvesting and processing

11:00 – 11:30 Fibre extraction and valorisation of the different constituents of European plants - Pierre Ouagne, Philippe Evon

11:30 – 11:45 Q&A, Quizz

11:45 – 12:15 Flash presentations Selected PhD students

12:15 – 13:45 Lunch break

13:45 – 15:15 SESSION 8: Circular Bioeconomy

13:45 – 14:15 Keynote lecture: End of life of bio-based materials - Karel van Acker

14:15 – 14:30 Q&A, Quizz

14:30 – 15:00 Keynote lecture: Renewable Carbon Concept and Initiative – what does this mean for bio-based composites? - Michael Carus

15:00 – 15:15 Q&A, Quizz

15:15 – 15:45 Coffee break

15:45 – 16:00 Best student presentation Prizes

16:00 – 17:00 Discussions, closing remarks





Dr. Olivier ARNOULD
Associate Professor,
University of Montpellier,
France



Mr. Steve BARRON
Film director and producer,
writer, music video director,
United Kingdom



Dr. Johnny BEAUGRAND
Research Director,
INRAE,
Nantes, France



Dr. Alain BOURMAUD
Research Engineer,
University of South Brittany,
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Mr. Michael CARUS
Founder & CEO of
nova-Institute for Ecology
and Innovation, Germany



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