

FRAUNHOFER INSTITUTE FOR  
WOOD RESEARCH  
WILHELM-KLAUDITZ-INSTITUT WKI

WORKSHOP | OCTOBER 25-26, 2018

**HOFZET® of the Fraunhofer WKI**

The Application Center for Wood Fiber Research HOFZET® of the Fraunhofer Institute for Wood Research WKI is located in Hanover, Germany. The scientists of the HOFZET® develop and analyze biobased (hybrid) fiber composites with thermoplastic and thermoset matrices. Focus is thereby placed upon the higher-grade use of natural fibers and derivatives, if necessary in combination with conentional high performance fibres, for technical applications in various sectors, such as the automotive, construction and environmental industries.

15 permanent employees are engaged at the HOFZET®, 13 of whom are scientists. Around 1,300 square meters of offices, laboratories, technical center and open-air space are available for the execution of research contracts.

The research and development work is carried out in close cooperation with the IfBB - Institute for Bioplastics and Biocomposites. The two institutions share the state of the art technical center at the Campus Ahlem.

<https://www.wki.fraunhofer.de/en.html>

**Organization**

- Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut WKI
- Hochschule Hannover - University of Applied Sciences and Arts, IfBB - Institute for Bioplastics and Biocomposites, Hanover, in cooperation with
- Fraunhofer Project Centre for Composites Research

**Contact**

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[www.wki.fraunhofer.de](http://www.wki.fraunhofer.de)

**Venue**

Collider Building  
Fraunhofer Project Centre for Composites Research  
2544 Advanced Ave.  
London, Ontario, Canada,  
N6M0E1

**Date**

October 25-26, 2018

**Registration**

The registration deadline is extended until October 15, 2018.  
Via Fax: +49 511 9296 99 2291  
or E-Mail to: [madina.shamsuyeva@wki.fraunhofer.de](mailto:madina.shamsuyeva@wki.fraunhofer.de)

**Participation fee**

90 CAD

# BIOCOMPOSITES FOR TECHNICAL APPLICATIONS



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On the behalf of Fraunhofer WKI we invite you to participate in a Workshop on Biocomposites for Technical Applications.

This workshop offers a platform for knowledge and experience exchange between scientists and industry. The aim of the workshop is to identify the fields for the development of potential collaborative projects between German and Canadian scientists and industry.

At the workshop we will be addressing various topics starting from the manufacture of materials through optimization of material performance, manufacturing technologies and analytics to recycling and LCA.

We are looking forward to welcoming you.

**Prof. Dr-Ing. Hans-Josef Endres**  
Fraunhofer WKI, workshop leader



## WORKSHOP | BIOCOMPOSITES FOR TECHNICAL APPLICATIONS

OCTOBER 25-26, 2018



## SUPPORTING ORGANIZATIONS

### PROGRAM OCTOBER 25, 2018

#### 13:00 Opening of the workshop

Prof. Hans-Josef Endres | Workshop leader

#### 13:15 Canadian Government Assistance for Collaborative International Projects

Sylvie Berthiaume | National Research Council Canada,  
Government of Canada

#### 13:45 Supporting Innovation and Growth in Canada: an Overview of Federal Funding Programs

Dominic Aquilina | Innovation, Science and Economic  
Development Canada, Clean Growth Hub

#### 14:15 Government Engagement in Industrial Biotechnology in Ontario

Zoran Grabovac | Ministry of Economic Development,  
Job Creation and Trade

#### 14:45 NRC-IRAP International Programs

Andrew Bauder | Industrial Research Assistance Program,  
National Research Council of Canada

#### 15:15 Coffee break

#### 15:30 Perspective on Kraft Lignin Utilization: Monomers, Fibers and Bioplastics

Prof. Scott Renneckar | University of British Columbia, Canada  
Research Chair in Advanced Renewable Materials

#### 16:00 Biopolymers and Biocomposites – Temporary Trend or Imperative Need?

Prof. Hans-Josef Endres | Fraunhofer WKI, HOFZET®,  
Hochschule Hannover, IfBB

#### 16:45 Panel discussion incl. questions from auditorium

#### 17:45 Summary of the first day | Expectations for the second day

#### 18:30 Evening program | Viewing appointment at the WindEEE Dome

#### 19:30 Dinner

### PROGRAM OCTOBER 26, 2018

#### 8:30 Welcoming speech

Dr. Amit Chakma | President of the Western University

#### 8:45 Bio-based Polymers and Composites

Prof. Chunbao (Charles) Xu | Western University

#### 9:15 The Industrial Bioeconomy in Canada: an Industry Perspective

A.J. (Sandy) Marshall | Bioindustrial Innovation Canada

#### 9:45 High-volume, Manufacturing Technologies as Lightweight Solutions

Vanja Ugresic | Fraunhofer Project Centre for Composite Research  
at the Western University

#### 10:15 Bio-based Hybrid Composites: Effective Material and Process Development

Madina Shamsuyeva | Fraunhofer WKI, HOFZET®

#### 10:45 Biodegradable Plastics and their Contribution to Solving the Marine Litter Problem

Simon McGowan | Hochschule Hannover –  
University of Applied Sciences and Arts, IfBB

#### 11:15 Lunch | Poster session

#### 12:45 Roundtable discussions | Topics

- Bio-based materials for technical applications (Bioplastics, biocomposites, bio-based hybrid composites, manufacture, product properties, analytics, etc.)
- LCA and end-of-life / new-life options (ecobalance, cradle-to-grave analysis, life cycle inventory, LCI data analysis, technical end-of-life / new-life options for bio-based materials, etc.)
- Biodegradability and marine litter (wording, standards, state of the art, process development and monitoring, marine degradability, etc.)
- Land use for biomaterials (facts and statistics, socio-economic influences, forecast of the future demand and availability, etc.)
- Propose your own topic for the round table discussion

#### 15:00 Coffee break

#### 15:15 Summary of the round table discussions

#### 15:45 Summary of the workshop and outlook

Prof. Hans-Josef Endres | Workshop leader

#### 16:00 Tour through the technical center of the FPC



In cooperation with

