



Symposium of the International Research Training Group IRTG/ICRC

Integrated Engineering of Continuous-Discontinuous Long Fiber Reinforced Polymer Structures

June 23, 2020

8 am – 2 pm (Canadian time)

2 pm – 8 pm (German time)

Contents

Scientific Program IRTG/ICRC Composites Workshop.....	2
Scientists and Institutions Cooperating Within the IRTG and ICRC.....	3
Organizers.....	4
Contact	4
Funding.....	4



Scientific Program IRTG/ICRC Composites Workshop

Can. Time	Ger. Time	Program	Presenter/Moderator
08:00 – 08:30	14:00 – 14:30	Welcoming and Introduction	
08:00 – 08:09	14:00 – 14:09	Status Report of GRK 2078	<i>Böhlke</i>
08:09 – 08:16	14:09 – 14:16	Status Report of ICRC	<i>Wood</i>
08:16 – 08:23	14:16 – 14:23	UWO/FPC – Challenges and Perspectives	<i>Hrymak, Ugresic</i>
08:23 – 08:30	14:23 – 14:30	KIT/ICT – Challenges and Perspectives	<i>Henning</i>
08:35 – 09:05	14:35 – 15:05	Status Reports of the Research Projects with Discussions	
08:35 – 08:45	14:35 – 14:45	GRK 2078: Overview on Demonstrator	<i>Richter, Meyer, Revfi</i>
08:45 – 08:50	14:45 – 14:50	Discussion	<i>Richter, Meyer, Revfi</i>
08:50 – 09:00	14:50 – 15:00	ICRC: Development of a CFRP Front End Demonstrator – Project Overview	<i>Montesano</i>
09:00 – 09:05	15:00 – 15:05	Discussion	<i>Montesano</i>
09:05 – 09:15	15:05 – 15:15	Coffee Break	
09:15 – 10:50	15:15 – 16:50	Poster Session	
09:15 – 09:35	15:15 – 15:35	Session 1: Characterization	<i>Weidenmann, Wood</i>
09:40 – 10:00	15:40 – 16:00	Session 2: Technology	<i>Henning, Urbanic</i>
10:05 – 10:25	16:05 – 16:25	Session 3: Simulation	<i>Schneider, Altenhof</i>
10:30 – 10:50	16:30 – 16:50	Session 4: Design	<i>Kärger, Johrendt</i>
10:50 – 11:05	16:50 – 17:05	Coffee Break	
11:05 – 12:45	17:05 – 18:45	Networking of Canadian and German Projects and Topics of / Transition to 3rd Gen.	
11:05 – 11:35	17:05 – 17:35	Parallel Sessions 1: (A) Characterization and Simulation (B) Technology and Design	<i>Weidenmann, Altenhof Urbanic, Kärger</i>
11:40 – 12:10	17:40 – 18:10	Parallel Sessions 2: (A) Characterization and Technology (B) Simulation and Design	<i>Wood, Henning Kehrer, Johrendt</i>
12:15 – 12:45	18:15 – 18:45	Parallel Sessions 3: (A) Characterization and Design (B) Simulation and Technology	<i>Weidenmann, Johrendt Altenhof, Henning</i>
12:45 – 13:15	18:45 – 19:15	Coffee Break	
13:15 – 14:00	19:15 – 20:00	Conclusions	
13:15 – 13:25	19:15 – 19:25	Research Visits	<i>Böhlke, Wood</i>
13:25 – 13:40	19:25 – 19:40	Topics of / Transition to 3 rd Generation	<i>Böhlke, Henning, Wood</i>
13:40 – 13:50	19:40 – 19:50	Networking	<i>Böhlke, Wood</i>
13:50 – 14:00	19:50 – 20:00	Final Summary and Todos	<i>Böhlke, Wood</i>



Scientists and Institutions Cooperating Within the IRTG and ICRC

(<http://www.grk2078.kit.edu>)

Germany

- **Prof. Dr.-Ing. Thomas Böhlke (spokesperson), Jun.-Prof. Dr. rer. nat. Matti Schneider**
Institut für Technische Mechanik (ITM) / Institute of Engineering Mechanics (ITM)
- **o. Prof. Dr.-Ing. Dr. h. c. Albert Albers**
Institut für Produktentwicklung (IPEK) / Institute of Product Engineering (IPEK)
- **Prof. Dr.-Ing. Peter Elsner***
*Institut für Angewandte Materialien - Werkstoffkunde (IAM-WK), *auch am Fraunhofer-Institut für Chemische Technologie (ICT) / Institute for Applied Materials - Materials Science and Engineering (IAM-WK), *also at Fraunhofer Institute for Chemical Technology (ICT)*
- **Prof. Dr.-Ing. habil. Kay André Weidenmann**
Lehrstuhl für Hybride Werkstoffe am Institut für Materials Resource Management, Augsburg Universität / Chair of Hybrid Composite Materials at the Institute for Materials Resource Management, Augsburg University
- **Prof. Dr.-Ing. Jürgen Fleischer, Prof. Dr.-Ing. Gisela Lanza, Prof. Dr.-Ing. habil. Volker Schulze**
Institut für Produktionstechnik (wbk) / Institute of Production Science (wbk)
- **Prof. Dr. rer. nat. Peter Gumbsch*, Prof. Dr. rer. nat. Britta Nestler, PD Dr.-Ing. habil. Jörg Hohe****
*Institut für Angewandte Materialien - Computational Materials Science (IAM-CMS), *auch am Fraunhofer Institut für Werkstoffmechanik (IWM), ** nur am IWM / Institute for Applied Materials - Reliability of Components and Systems (IAM-CMS), *also at Fraunhofer Institute for Mechanics of Materials (IWM), **only at IWM*
- **Prof. Dr.-Ing. Frank Henning*, Dr.-Ing. Luise Kärger**
*Institut für Fahrzeugsystemtechnik (FAST), * auch am Fraunhofer Institut für Chemische Technologie (ICT), Universität Western Ontario (UWO) und Fraunhofer Projekt Center (FPC) / Institute of Vehicle System Technology (FAST), *also at Fraunhofer Institute for Chemical Technology (ICT), University of Western Ontario (UWO), and Fraunhofer Project Center (FPC)*
- **Prof. Dr.-Ing. habil. Thomas Seelig**
Institut für Mechanik (IFM) / Institute of Mechanics (IFM)

Canada

- **Prof. Dr. Jeffrey T. Wood (spokesperson), Prof. Dr. Colin Denniston, Prof. Dr. Andrew Hrymak, Prof. Dr. Darren Meister, Prof. Dr. Anthony Straatman, Prof. Dr. O. Remus Tutunea-Fatan**
University of Western Ontario
- **Prof. Dr. William Altenhof, Prof. Dr. Jennifer Johrendt, Prof. Dr. Bruce Minaker, Prof. Dr. Jill Urbanic**
University of Windsor
- **Prof. Dr. Michael Thompson**
McMaster Manufacturing Research Institute
- **Prof. Dr. Kaan Inal, Prof. Dr. John Montesano**
University of Waterloo
- **Prof. Dr. Pascal Hubert**
McGill University
- **Prof. Dr. Kamran Behdinin**
Universtiy of Toronto



Organizers

International Research Training Group (DFG GRK 2078)

www.grk2078.kit.edu/

Integrated Engineering of Continuous-Discontinuous Long Fiber Reinforced Polymer Structures

Prof. Dr.-Ing. Thomas Böhlke, Speaker

Prof. Dr.-Ing. Frank Henning, Co-Speaker

Contact

Karlsruhe Institute of Technology (KIT)

www.kit.edu/

Institute of Engineering Mechanics (ITM)

www.itm.kit.edu/cm

Kaiserstraße 10 | 76131 Karlsruhe

Building 10.23, 3rd Floor

Prof. Dr.-Ing. Thomas Böhlke +49 (0)721 608-48852

Office: Mrs. Ute Schlumberger-Maas +49 (0)721 608-43796

Office: Mrs. Helga Betsarkis +49 (0)721 608-46107

Funding



The funding by the German Research Foundation (DFG) is gratefully acknowledged.

www.dfg.de

