MERGEurope forms a network for international competitiveness of the leading European regions of lightweight design and aims to bridge the gaps between science and industry.

www.tu-chemnitz.de/MERGE/MERGEurope
Dear Ladies and Gentlemen,

We cordially invite you to the 3rd International MERGE Technologies Conference (IMTC) from 21st to 22nd September 2017, at the Chemnitz University of Technology. Enjoy an interesting and varied programme of lectures and participate in discussions all around the latest developments and trends of the key technology "Lightweight Design".

Large-scale suitable production processes for the manufacturing of hybrid lightweight components are key technologies for the future. In this context, the variety of the used materials, structures and technologies and their applications have to meet various demands. Thus, topics such as recycling, sustainability and mass customisation will be of great importance in the future. A successful interaction of research institutes and companies in competition require strong cooperation, solution-oriented strategies and marketable applications. By interdisciplinary thinking and acting, knowledge transfer and the networking of numerous actors in the fields of material and natural sciences, production technology, micro electronics, systems integration, design, calculation, simulation and quality assurance we can achieve this goal.

The conference invites experts of science and industry to share their knowledge and experience in the research and development of lightweight structures and their manufacturing technologies. The sessions focus on topics that are especially relevant for a sustainable ecological and economical production of hybrid lightweight components. Furthermore, one main focus of the conference is the cooperation in alliance of the Federal Cluster of Excellence MERGE with international partners, transnational network structures and competitive cluster alliances. Within this, novel scientific and technological solution approaches for the improvement of resource and energy efficiency in the future-oriented field of lightweight design will be demonstrated on an international level.

A poster-session and an accompanying fair exhibition complete the conference’s agenda.

We gladly welcome you to the 3rd IMTC in Chemnitz.

Prof. Lothar Kroll
Coordinator

Dr. Jürgen Tröltzsch
Scientific Director

Dr. Isabelle Roth-Panke
Administrative Director
Conference Topics

The conference covers all aspects of materials, manufacturing technologies and applications for the mass production of lightweight structures. Special focus is on new results in the following topics:

**SESSION 1**

**Preform Materials, Semi-Finished Products and Composite Structures for Lightweight Design**

- In-line processes for preforms and prepregs
- Hybrid materials based on textiles, plastics, metals and fibre-reinforced plastics
- Interface design and engineering

**SESSION 2**

**Processing, Systems and Application for Mass Production of Lightweight Structures**

- Technology fusion and hybridisation
- Manufacturing of hybrid structures with textile, plastic and metal based technologies
- Manufacturing equipment, automation
SESSION 3

Modelling and Simulation of Hybrid Structures and their Production Processes
- Advanced constitutive laws and experimental characterisations
- Integrative simulation and optimisation
- High-precision FEM

SESSION 4

Smart Systems Integration
- Smart, functional and adaptive structures
- Design, technologies and application of integrated smart systems
- Reliability and robustness of integrated systems

SPECIAL SESSION at IMTC 2017

International Lightweight Innovation Networks
- MERGEurope: report and outlook
- European Lightweight Clusters Alliance
- International innovation and cooperation opportunities
PROGRAMME
Thursday, 21st September
Opening | Parallel Sessions
10:00 - 18:00
Conference Dinner from 19:30
First Conference Day
Thursday, 21st September

Registration from 9:00

Room N114
Welcome and Opening
Keynote speeches

10:00 - 12:00

Room N111
Session 1.1
Preform Materials, Semi-Finished Products and Composite Structures

Room N112
Session 2.1
Processing, Systems and Application for Mass Production

Room N113
Session 4.1
Smart Systems Integration

13:00 - 14:30

Room N111
Lunch

Room N112
Session 2.2
Processing, Systems and Application for Mass Production

Room N113
Special Session
International Lightweight Innovation Networks

15:00 - 16:30

Room N111
Networking coffee

Room N112
Networking coffee

Room N113
Welcome and Opening
Keynote speeches

17:00 - 18:00

Conference dinner at pumpwerk eins
Best Paper/Poster Award

SAB-Meeting (only for Members of the Scientific Advisory Board)
17:00 - 18:00

Parallel Events

Conference Dinner

We would like to welcome you at 19:30 in the pumpwerk eins for the conference dinner. www.pumpwerk-eins.de

By Car: pumpwerk eins, Zschopauer Straße 209, 09126 Chemnitz (on-site parking available)

By Public Transport: Station Central Interchange Point Tram 2, Direction Bernsdorf until Station Wartburgstraße, walk uphill the Wartburgstraße and turn right on Zschopauer Straße (10 min walk)

www.pumpwerk-eins.de
Thursday, 21st September
Registration, Opening, Welcome and Keynote Speeches 09:00 - 12:00

from 09:00

Registration
Central Lecture Hall Building: Foyer

10:00
Opening
Central Lecture Hall Building: N114

Prof. Lothar Kroll, Coordinator Cluster of Excellence MERGE
Prof. Gerd Strohmeier, President of Chemnitz University of Technology

Welcome
Uwe Gaul, Saxon State Secretary, Ministry for Higher Education, Research and the Arts
Sören Uhle, Managing Director of Economic Development Corporation, City of Chemnitz

Keynote speeches
Materials Meet Changes in Automotive Applications
Dr. Olaf Täger, Volkswagen Aktiengesellschaft

Industry 4.0: Impacts on control and switchgear construction
Uwe Scharf, RITTAL GmbH & Co. KG

12:00
Lunch

13:00
Begin of the parallel sessions

Dinner speeches in the evening at pumpwerk eins
Thomas Schmidt, Saxon State Minister of Environment and Agriculture
Frank Heinrich, Member of the German Bundestag (MdB)

Note: The current programme can be found at www.tu-chemnitz.de/IMTC.
Opening

Prof. Lothar Kroll  Prof. Gerd Strohmeier

Welcome

Saxon State Secretary Uwe Gaul  Sören Uhle

Keynote speeches

Dr. Olaf Täger  Uwe Scharf

Dinner speeches

Saxon State Minister Thomas Schmidt  Member of the Bundestag Frank Heinrich
### Thursday, 21st September

**Three Parallel Sessions 13:00 - 14:30**

**Session 1.1 Preform Materials, Semi-Finished Products and Composite Structures**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Tailored fibre placement in thermoplastic composites</td>
<td>Dr. A. Spickenheuer, et al., Leibniz Institute of Polymer Research, Dresden; R. Haase, Fraunhofer IWU; D. Garray, SIRRIS (BE)</td>
</tr>
<tr>
<td>13:25</td>
<td>Comparison of manufacturing fiber metal laminates based on thermoplastic and thermosetting material: Analyses of mechanical properties and economic effects</td>
<td>M. Trautmann, C. Symmank, Dr. A. Schmidt, et al., CUT</td>
</tr>
<tr>
<td>13:45</td>
<td>Automated orbital winding of fiber reinforced structural components</td>
<td>R. Wallasch, R. Tirschmann, C. Teichgraeber, CUT</td>
</tr>
<tr>
<td>14:10</td>
<td>Influence of the cooling behaviour on the mechanical properties of hybrid laminates with carbon fibre-reinforced plastics</td>
<td>C. Zopp, Prof. D. Nestler, et al., CUT; S. Nendel, Cetex Institute of textile-and processing machines non-profit GmbH</td>
</tr>
</tbody>
</table>

**Chairman:** Prof. Daisy Nestler  
**Room:** N111

**Session 4.1 Smart Systems Integration**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Development of activated carbon web for effective EMI shielding applications</td>
<td>Dr. V. Baheti, Prof. J. Militky, S. Naaem, et al., Technical University of Liberec (CZ)</td>
</tr>
<tr>
<td>13:25</td>
<td>Integrated platform for advanced smart textile applications</td>
<td>Dr. H. Illing-Guenther, F. Weigand, et al., Saxon Textile Research Institute; F. Ebert, CUT</td>
</tr>
<tr>
<td>13:45</td>
<td>Enhanced lightweight design by composites: Results of the EU project ENLIGHT</td>
<td>Dr. D. Mayer, Prof. T. Bein, Fraunhofer LBF</td>
</tr>
<tr>
<td>14:10</td>
<td>Hybrid hierarchical composite material based on carbon nanostructures</td>
<td>E. Y. Matsubara, J. M. Rosolen, University of São Paulo (BR)</td>
</tr>
</tbody>
</table>

**Chairman:** Prof. Sven Rzepka  
**Room:** N113

**14:30 - 15:00 Networking coffee**
Session 2.1 Processing, Systems and Application for Mass Production of Lightweight Structures

Chairman: Prof. Welf-Guntram Drossel
Room: N112

13:00 Additive manufactured structures with improved properties for tissue engineering
Prof. A. Lanzotti, M. Martorelli, Fraunhofer JL IDEAS—University of Naples Federico II; A. Gloria, National Research Council of Italy (I)

13:25 The most filigree structure made by remote laser cutting
R. Baumann, Prof. E. Beyer, Technische Universität Dresden, Fraunhofer IWS; Dr. P. Herwig, et al., Fraunhofer IWS

13:45 New additive manufacturing technology for fiber reinforced plastics in skeleton structure
M. Holzinger, BMW Group; J. Blase, Fraunhofer IWU; Prof. L. Kroll, CUT

14:10 High-performance machining of fiber-reinforced materials with hybrid ultrasonic-assisted cutting
Dr. A. Stoll, C. Rüger, A. Busch, et al., Fraunhofer IWU

14:30 - 15:00 Networking coffee
Thursday, 21st September
Three Parallel Sessions 15:00 - 16:30
Two Parallel Sessions 17:00 - 18:00

**Session 2.2 Processing, Systems and Application for Mass Production of Lightweight Structures**

Chairman:
Dr. Rafael Codeiro
Room: N112

15:00 **FAUSST: Bridging the gap between steel and fibre reinforced materials**

Dr. R. Luterbacher, Dr. L. Molter, Center of Maritime Technologies e.V.

15:25 **Advanced joining technology for the production of highly stressable lightweight structures, with fiber-reinforced plastics and metal**

Prof. H. Seidlitz, F. Kuche, N. Tsombanis, Brandenburg University of Technology Cottbus-Senftenberg

15:45 **Investigation of integral endless fibre reinforced aluminium-polyamide 6 hybrid joints**

R. Van der Auwera, et al., Fraunhofer IFAM; T. Gebken, et al., Technische Universität Braunschweig; M. Busse, University of Bremen

16:10 **Life Cycle Engineering and Management methods for designing hybrid structures: Cases, potentials and challenges**

Prof. U. Götte, C. Symmank, Dr. A. Schmidt, CUT

**16:30 - 17:00 Networking coffee**

**Poster Session 15:00 - 16:30**

Chairman:
Dr. Verena Kräusel
Room: N111

**16:30 - 17:00 Networking coffee**

**Session 3.1 Modelling and Simulation of Hybrid Structures and their Production Processes**

Chairman:
Prof. Jörn Ihlemann
Room: N111

17:00 **Methodological approach to investigate the behavior of the structure under dynamic loading using multiple criteria decision making method**

J. Oleksik, S. Natarajan, Prof. T. Vietor, Technische Universität Braunschweig

17:20 **Lightweight car door made out of a net shape and load adapted hybrid fabric**

M. Fleischmann, L. Bratge, et al., CUT; Dr. A. Spickenheuer, Leibniz Institute of Polymer Research Dresden

17:40 **Residual stress analysis of fibre-reinforced structures with fibre BRAGG grating sensors**

E. Peretzki, N. Schramm, Prof. J. Ihlemann, et al., CUT

19:30 Conference dinner at pumpwerk eins, Awarding Best Paper & Poster Award

Dinner speeches: Saxon State Minister Thomas Schmidt; Frank Heinrich, MdB
**Special Session** International Lightweight Innovation Networks

**Chairman:** Dr. Katharina Schöps  
**Room:** N113

**15:00**  
**European future challenges for lightweight innovation networks**  
Dr. J. Tröltzsch, Scientific Director Cluster of Excellence MERGE, CUT

**15:25**  
**MERGEurope: Lightweight Innovation Network mastering the challenges**  
A. Bochmann, Project coordinator MERGEurope, CUT

**15:45**  
**Good practice for Lightweight Innovation Networks in Upper Austria**  
Mag. B. Löw-Baselli, Johannes Kepler University Linz  
**A2LT – Austrian Advanced Lightweight Technology**  
F. Dannmayr, Automotive Cluster of the Business Upper Austria agency

**16:10**  
**Good practices for pan european cooperation in lightweight application**  
I. Magallón, Senior Consultant, BAX & COMPANY, Barcelona

**16:30 - 17:00 Networking coffee**

**SAB Meeting (only for Members of SAB)**  
**17:00 - 18:00, Room N113**

**Session 1.2 Bio-based Composite Structures**  
**Chairman:** Prof. André Wagenführ  
**Room:** N112

**17:00**  
**Optimisation of fibre reinforced plastics by using the life cycle engineering methodology**  
Dr. J. Kaufmann, CUT, silbaerg GmbH; Prof. I. Ribero, et al., Instituto Superior Técnico (P); Prof. U. Götze, et al., CUT

**17:20**  
**Investigation of bio-based polyamide with short fibers for lightweight structures**  
Dr. R. Rinberg, T. Hartmann, et al., CUT; A. Nikiforov, et al., Kazan National Research Technological University (RUS)

**17:40**  
**Natural fibre reinforced biocomposites: Innovative and optimized processes for series production**  
A. A. Ouali, Dr. R. Rinberg, Prof. W. Nendel, et al., CUT

**19:30**  
Conference dinner at pumpwerk eins, Awarding Best Paper & Poster Award  
Dinner speeches: Saxon State Minister Thomas Schmidt; Frank Heinrich, MdB
PROGRAMME
Friday, 22nd September
Parallel Sessions
09:30 - 16:30
Tour MERGE Technology Centre
11:00 - 13:00
Second Conference Day
Friday, 22nd September

Registration from 08:30

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1.3</th>
<th>Session 2.3</th>
<th>Session 4.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Interface Design, Adhesives and Joining Technologies</td>
<td>Processing, Systems and Application for Mass Production</td>
<td>Smart Systems Integration</td>
</tr>
<tr>
<td>11:00</td>
<td>Guided tour MERGE Technology Centre</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>13:00</td>
<td>Networking coffee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:00</td>
<td>Discussion/Closing remarks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Parallel Events

- Guided tour MERGE Technology Centre
  11:00 - 13:00
- „MERGE Unternehmerforum“ including World-Café
  10:00 - 14:00
Friday, 22nd September
Three Parallel Sessions 09:30 - 11:00

Session 1.3 Interface Design, Adhesives and Joining Technologies
Chairman: Prof. Thomas Lampke
Room: N111

09:30  Enka® TecTape – a ready to use hybrid roving with unidirectional glass and thermoplastic fibers
Dr. S. Volta, A. Flachenecker, C. Vieth; PHP Fibers GmbH

09:55  Cold surface treatments on fiber-reinforced plastics by pulsed laser
J. Gebauer, V. Franke, Dr. U. Klotzbach, et al., Fraunhofer IWS

10:15  Prefinished metal polymer hybrid parts
Dr. I. Kühnert, Dr. M. Gedan-Smolka, et al., Leibniz Institute of Polymer Research Dresden; P. Scholz, et al., Fraunhofer IWU

10:40  Microstructuring of joining areas in aluminum alloy sheets by jet electrochemical machining
R. Schimmelpfennig, Dr. M. Hackert-Oschützchen, A. Martin, et al., CUT

11:00 - 13:00 Guided tour MERGE Technology Centre/Lunch

Session 4.2 Smart Systems Integration
Chairman: Prof. Jan Mehner
Room: N113

09:30  Material-integrated composite humidity sensors for condition monitoring of fiber-reinforced plastics
Dr. J. Martin, et al., Fraunhofer ENAS; K. Shetty, et al., CUT; S. Neukirchner, et al., Saxon Textile Research Institute

09:55  Development and characterization of highly sensitive thin film strain sensors consisting of nickel-carbon composite for integration in thermoplastic-based hybrid laminates
C. Karapepas, Prof. D. Nestler, Dr. D. Wett, et al., CUT

10:15  Design and economic evaluation of synthetic jet actuators for the integration in heterogeneous composite structures
M. Schüller, M. Lipowski, et al., Fraunhofer ENAS; M. Walther, et al., CUT

10:40  Additive manufacturing of capacitive humidity sensors by screen printing for condition monitoring of FRP composites
T. Seifert, Dr. J. Martin, et al., Fraunhofer ENAS; Prof. T. Otto, CUT

11:00 - 13:00 Guided tour MERGE Technology Centre/Lunch
Session 2.3 Processing, Systems and Application for Mass Production of Lightweight Structures

Chairman: Prof. Holger Seidlitz
Room: N112

09:30 Lightweight piston design in hand-held power tools
Dr. C. Karrar, S. Meuser, Dr. A. Wolf, ANDREAS STIHL AG & Co. KG

09:55 Evaluation of process chains for manufacturing hybrid structures in early design stages: A source of impulses to R&D activities
J. Boll, A. Graf, C. Symmank, et al., CUT

10:15 Product-oriented turn-key solutions for fiber-reinforced thermoplastic components
Dr. M. Cetin, KraussMaffei Automation GmbH; S. Fenske, KraussMaffei Technologies GmbH

10:40 Multifunctional FRP-aluminium foam setup for battery housings of electric vehicles
R. Schmerler, C. Lies, et al., Fraunhofer IWU; T. Gebken, et al., Technische Universität Braunschweig

11:00 - 13:00 Guided tour MERGE Technology Centre/Lunch

Thermoplastic tape winding machine for continuous fibre-reinforced thermoplastic and thermoset UD tapes
Friday, 22nd September
Two Parallel Sessions 13:00 - 16:30

**Session 3.2 Modelling and Simulation of Hybrid Structures and their Production Processes**

13:00
**Modelling the deformation of continuous fibre-reinforced thermoplastics subjected to hygrothermal loading**
T. Grätzl, M. Hille, BMW Group; N. Schramm, et al., CUT

13:25
**Integrating models for fiber reinforced materials into finite element simulations**
Dr. M. Hofmann, R. Dietze, N. Goldberg, et al., CUT

13:45
**Simulation of solid tire curing process for quality improvement**
Asst. Prof. A. Chaikittiratana, et al., King Mongkut’s University of Technology North Bangkok (TH)

14:10
**Modelling damage and failure in composite materials with probabilistic approach**
Prof. V. V. Astanin, Dr. G. O. Shchegel, National Aviation University Kiev (UA)

**14:30 - 15:00 Networking coffee**

**Session 4.3 Smart Systems Integration**

15:00
**Investigation on inkjet printing for electromagnetic compatibility application**
M. Hartwig, M. Polomoshnov, et al., CUT; Dr. R. Zichner, et al., Fraunhofer ENAS

15:25
**Realization of sensitive functionality by integration of electromagnetic resonators in composite materials**
T. D. Großmann, et al., CUT; M. Heinrich, et al., Fraunhofer IWU; Dr. S. Kurth, et al., Fraunhofer ENAS

15:45
**Technologies for the integration of miniaturized silicon sensor systems in fiber reinforced composites**
B. Arnold, A. Bauer, et al., CUT; F. Rost, et al., Fraunhofer ENAS

16:10
**Mass production enabled manufacturing and measurement technologies for hybrid laminates with sensory function**
Dr. V. Kräusel, A. Graf, et al., CUT; M. Heinrich, et al., Fraunhofer IWU

Discussion/Closing remarks
Session 2.4 Processing, Systems and Application for Mass Production of Lightweight Structures  
Chairman: Dr. Jürgen Tröltzsch  
Room: N112

13:00 Automated composite production - in-situ processing of (epsilon) caprolactam and structures made of thermoplastic tapes  
Dr. N. Müller, Dr. L. Reith, P. Zwicklhuber, ENGEL AUSTRIA GmbH (AT)

13:25 Smart process combination for aluminium/plastic hybrid components  
A. Albert, W. Zorn, et al., Fraunhofer IWU; M. Layer, et al., CUT

13:45 Potentials of the modular injection molding system solution MXW 2500 for lightweight and multi-material moldings  
S. Fenske, KraussMaffei Technologies GmbH; Prof. W. Nendel, CUT; Dr. V. Reichert, A&E Produktionstechnik GmbH

14:10 Multi-material design for physiologically optimised lightweight car seat  
S. Ren, K. Schäfer, Prof. D. Nestler, et al., CUT

14:30 - 15:00 Networking coffee

Session 1.4 Preform Materials, Semi-Finished Products and Composite Structures  
Chairman: Prof. Holger Cebulla  
Room: N112

15:00 Mikrosandwich: Lightweight for the automotive interior  
C. Menzel, Dr. B. Stamp, H. Bieder, et al., Daimler AG

15:25 Impregnability and performance of rCF-nonwovens with epoxy resin  
J. Mankiewicz, Prof. E. Cleve, Prof. M. Heber, University of Applied Sciences Krefeld

15:45 Manufacturing of lightweight parts by sandwich injection molding of metal-replacement plastics combined with light foams  
A. Hüttl, N. Pönisch, Dr. P. Bloß, Kunststoff-Zentrum in Leipzig gGmbH

16:10 Laser beam melting of complexity curved honeycomb structures  
G. Schlick, M. Binder, M. Illgner, Fraunhofer IGCV

Discussion/Closing remarks
Parallel Event
Friday, 22nd September 10:00 - 14:00

„MERGE Unternehmerforum“ including World-Café
This event is only available in German language.


ANMELDUNG
Bitte registrieren Sie sich auf unserer Homepage:
www.tu-chemnitz.de/IMTC
Die Teilnahme ist kostenfrei.

ZIELGRUPPE/TEILNEHMER
Vertreter von regionalen Kleinen und Mittleren Unternehmen (KMU)

SPRACHE
Die Veranstaltung wird in deutscher Sprache durchgeführt.

VERANSTALTUNGSORT
Technische Universität Chemnitz
Neues Hörsaalgebäude
Reichenhainer Straße 90
09126 Chemnitz

Raum N005

ANSPRECHPARTNER
Anja Bochmann
Telefon: +49 371 531-30268
E-Mail: anja.bochmann@mb.tu-chemnitz.de
## Programm Raum N005

<table>
<thead>
<tr>
<th>Zeit</th>
<th>Veranstaltung</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Begrüßung und Vorstellung StrategieWerkstatt: Industrie der Zukunft</td>
<td>Julian Stubbe, VDI/VDE Innovation + Technik GmbH</td>
</tr>
<tr>
<td>10:10</td>
<td>Impulsreferat</td>
<td>Zukünftige Herausforderungen für den Leichtbau in Europa</td>
</tr>
<tr>
<td>10:30</td>
<td>MERGEEurope: Internationalisierungskonzept des Exzellenzclusters</td>
<td>Anja Bochmann, Exzellenzcluster MERGE, TU Chemnitz</td>
</tr>
<tr>
<td>11:00</td>
<td>World-Café zu folgenden Fragestellungen:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wertschöpfung</td>
<td>In welchen Bereichen industrieller Wertschöpfung ist eine internationale Unternehmensstrategie relevant?</td>
</tr>
<tr>
<td></td>
<td>Region</td>
<td>Welches Potenzial bietet grenzüberschreitende Zusammenarbeit für die wirtschaftliche Stärkung ländlicher Grenzregionen? Können Kooperationen z. B. bei der Abmilderein der Folgen des demografischen Wandels und des Fachkräftemangels helfen? Wie kann das gelingen?</td>
</tr>
<tr>
<td></td>
<td>Netzwerk</td>
<td>Welche Akteure sollten in Netzwerken zur Förderung der Kooperation in Innovationsbereichen wie Digitalisierung, Cross-Innovation oder Kreativwirtschaft sowie Startup-Szene integriert werden? Welche Herausforderungen und Barrieren sind bei der Internationalisierung zu überwinden?</td>
</tr>
<tr>
<td></td>
<td>Förderung</td>
<td>Welche Unterstützung der öffentlichen Hand brauchen Unternehmen beim Ausbau internationaler Kooperationen? Können Fördermaßnahmen im Rahmen der Europäischen Fonds für regionale Entwicklung (EFRE) besser genutzt werden?</td>
</tr>
<tr>
<td>12:00</td>
<td>Zusammenfassung der Ergebnisse</td>
<td>Julian Stubbe, VDI/VDE Innovation + Technik GmbH</td>
</tr>
<tr>
<td>12:15</td>
<td>Mittagspause inmitten der Posterausstellung</td>
<td></td>
</tr>
<tr>
<td>13:15</td>
<td>Führung durch das MERGE-Technologiezentrum</td>
<td>Norbert Schramm, Exzellenzcluster MERGE, TU Chemnitz</td>
</tr>
</tbody>
</table>
Industrial Advisory Board
(in alphabetical order)

Prof. Dr. Reinhold Achatz  ThyssenKrupp AG, DE
Nicolas Beltrame  Westfalia Presstechnik GmbH & Co.KG, DE
Dr. Udo Berthold  Cotesa GmbH, DE
Nicolas Beyl  KraussMaffei Technologies GmbH, DE
Dr. Klaus-Dieter Debschütz  Daimler AG, DE
Gerard Dziomber  Faurecia Automotive Seating, MEX
Holger Elsner  Lightweight Structures Engineering GmbH, DE
Prof. Siegfried Fiebig  Volkswagen Sachsen GmbH, DE
Dr. Michael Fiedler  Heckert GmbH, DE
Dr. Stefan Finkbeiner  Bosch Sensortec, DE
Dr. Egbert Gärtner  Elbe Flugzeugwerke GmbH, DE
Bernd Grille  TESOMA GmbH, DE
Raimund Grothaus  EAST-4D Carbon Technology GmbH, DE
Mike Gruner  H&T-ProduktionsTechnologie GmbH, DE
Oliver Harten  Airbus Operations GmbH, DE
Dr. Norman Herzog  Nordmetall GmbH Adorf, DE
Dr. Martin Hillebrecht  EDAG Engineering AG, DE
Dr. E. h. Georg P. Holzinger  KraussMaffei Technologies GmbH, DE
Stefan Jugel  P-D-Plastiken GmbH Oschatz, DE
Dr. Wolf Köhler  TER Plastics Polymer Group, DE
Dr. Jochen Kopp  BMW Group, DE
Dr. Georg Kormann  John Deere GmbH & Co. KG, DE
Dr. Michael Korte  Audi AG, DE
Reiner Krause  Voith Turbo Scharfenberg GmbH & Co. KG, DE
Adam Kurowski  Kompozyty Sp. z o.o., PL
Gerd Lehmann  CDVAC GmbH, DE
Prof. Jürgen Leohold  Volkswagen Group, DE
Swen Malikus  Daimler AG, DE
Dr. Fritz P. Mayer  Karl Mayer Textilmaschinenfabrik GmbH, DE
Frank J. Meurs  TenCate Advanced Composites bv, NL
Dr. Peter Neumann  Engel Austria GmbH, AUT
Prof. Christian Obermann  Bond-Laminates GmbH, DE
Lubomír Obrátil  DIPEX, spol. s r.o., SK
Jacek Polaszewski  GRAFORM, PL
Dr. Volker Reichert  A&E Produktionstechnik GmbH, DE
Prof. Bertram Reinhold  Audi AG, DE
Thierry Renault  Faurecia Automotive Seating, FR
Hans-Ulrich Richter  richter & heß VERPACKUNGEN, DE
Ralph Rumberg  KOKI Technik Transmission Systems GmbH, DE
Herbert Rödig  Infineon Technologies AG, DE
Hans-Tobias Schicktanz  Schicktanz GmbH, DE
Josef Schwuger  MPT Group GmbH Mittweida, DE
Dr. Thomas Steffen  Rittal GmbH & Co. KG, DE
Ursula Steiner  DOPAK Sp. z o. o., PL

Participating Institutions of MERGE
Lucie Toscani  
Dr. Jens Trepte  
Dr. Volkmar Vogel  
Roland Warner  
Peter Weber  
Dr. Gerd Wedler  
Dr. Joachim Wicke  
Dr. Bernd Wohlmann  
Dr. Olaf Zöllner

Veritas AG, DE  
imk automotive GmbH, DE  
VDITH Engineering GmbH, DE  
eins energie in sachsen GmbH & Co. KG, DE  
FEP Fahrzeugelektrik Pirna GmbH & Co. KG, DE  
Apparatebau Gauting GmbH, DE  
Siemens AG, DE  
Toho Tenax Europe GmbH, DE  
Covestro AG (ehem. Bayer MaterialScience AG), DE

Conference Committee
(in alphabetical order)

Assoc. Prof. Renata Antoun Simão  
Prof. Stefania Bruschi  
Assoc. Prof. Arisara Chaikitiratana  
Prof. Edward Chlebus  
Assoc. Prof. Anna Dobrzeńska-Danikiewicz  
Prof. Welf-Guntram Drossel  
Dr. ir. Ferrie van Hattum  
Assoc. Prof. Helmuth H. Hergeth  
Prof. Jörn Ihlemann  
Prof. Lothar Kroll  
Prof. Tadeusz Lagoda  
Prof. Thomas Lampke  
Prof. Daisy Nestler  
Prof. Thomas Otto  
Prof. Narongrit Sombatsompop

Chair of Metallurgical Engineering and Materials, University of Rio de Janeiro, BR  
Full Professor at Centre of Mechanics of Biological Materials, University of Padova, IT  
Head of Department of Mechanical & Aerospace Engineering, King Mongkut's University of Technology North Bangkok, TH  
Professor of Faculty of Mechanical Engineering, Wrocław University of Technology, Wrocław, PL  
Chairman of BSc and MSc Examination Committees, Institute of Engineering Processes Automation and Integrated Manufacturing Systems, Silesian University of Technology, PL  
Executive Director Fraunhofer Institute for Machine Tools and Forming Technology (IWM), Chemnitz, DE  
Professor at Saxion's Lightweight Structures chair, University of Applied Science SAXION, Enschede, NL  
College of Textiles, Department of Textile and Apparel, Technology and Management, North Carolina State University, USA  
Vice President for Research and Junior Researchers, Professorship of Solid Mechanics, Chemnitz University of Technology, Chemnitz, DE  
Coordinator Cluster of Excellence MERGE, Chemnitz University of Technology, Chemnitz, DE  
Vice President for Research and Development, Opole University of Technology, Opole, PL  
Dean of Faculty of Mechanical Engineering, Professorship of Materials and Surface Engineering Chemnitz University of Technology, Chemnitz, DE  
Head of Endowed Chair Textile Plastic Composites, Chemnitz University of Technology, Chemnitz, DE  
Director (acting) of Fraunhofer Institute for Electronic Nano Systems (ENAS), Chemnitz, DE  
Professor in Materials Technology, King Mongkut’s University of Technology Thonburi (KMUTT), Bangkok, TH
General Information

CONFERENCE VENUE
Chemnitz University of Technology
Lecture Hall Building
Reichenhainer Straße 90
09126 Chemnitz, Germany

CONFERENCE FEE
2-Day Ticket 21st - 22nd September 2017 ....................................... 350.00 EUR
includes evening event
1-Day Ticket 21st September 2017 ............................................... 250.00 EUR
includes evening event
1-Day Ticket 22nd September 2017 ............................................. 150.00 EUR
2-Day Ticket for the members of MTC Lightweight Structures e. V. and the Industrial/Scientific Advisory Board ... 180.00 EUR
includes evening event
Participants with oral or poster presentation ............................. 150.00 EUR
includes evening event
Employees Chemnitz University of Technology .......................... 150.00 EUR
includes evening event
MERGE employees ............................................................................. FREE
Students ....................................................................................... 30.00 EUR
without framework programme, conference documents and refreshments
Special Session and World-Café MERGE ........................................... FREE
Fees include VAT

REGISTRATION
The online registration is available on our website
www.tu-chemnitz.de/IMTC

TERMS OF PAYMENT
Payment is only possible by bank transfer after accounting. During the conference, payment in cash or by card will be not accepted. In case of cancellation until 15th August 2017 (date of E-mail receipt) the registration fee will be refunded with a deduction of 10.00 EUR. Cancellations after this date are not possible.

CONFERENCE LANGUAGE
The conference will be held in English.

EXHIBITION & SPONSORSHIP
If you are interested in presenting your company please contact
Diana Ruder via imtc@tu-chemnitz.de

CHILDCARE
At the Cluster of Excellence MERGE the implementation and protection of equal rights for male and female scientists is a matter of course. In case you need someone to take care of your child, please let us know.
CONTACT DURING THE CONFERENCE
Diana Ruder (General Organisation)
Phone: +49 371 531-35267
Susi Tosch (Scientific Organisation)
Phone: +49 371 531-32368
Email: imtc@tu-chemnitz.de

INTERNET
Wi-Fi will be available for all conference participants. The necessary login details will be given to you on the day of the event.

ARRIVAL
Because of extensive construction measures around the conference venue, we strongly recommend using public transport.

By Car
Please follow the redirection signs. Only a few parking spaces are available. Please find current information at www.tu-chemnitz.de/IMTC.

Address for navigation system:
Reichenhainer Straße 90, 09126 Chemnitz
50°48′49.7″ N, 12°55′47.9″ O.

By Train
From the central station you can reach the Lecture Hall Building by taxi or bus (2-minute walk to the bus station). Take bus line 51 towards Altenchemnitz/Reichenhain (get off at 'TU Campus'). Then go about 200 m to the right downhill. The Lecture Hall Building is located on the left side of Reichenhainer Straße.

By Plane
Starting from Dresden airport (approx. 84 km by car):
Take freeway A4 and A72 direction Hof. Exit at Chemnitz-Süd.

Starting from Leipzig-Schkeuditz airport (approx. 95 km by car):
Take freeway A14 first direction Dresden. At the interchange Parthenaue please take the freeway A38 direction Göttingen/Leipzig-Südost. Exit at Chemnitz/Borna onto B2/B95/freeway A72 towards Chemnitz and exit at Chemnitz-Süd.

SERVICE
Taxi
Taxi Genossenschaft Chemnitz eG
Phone: +49 371 369000
www.taxi-chemnitz.de

Public Transport
CVAG Chemnitzer Verkehrs-AG
Phone: +49 371 2370-333
www.cvag.de
General Information

ACCOMMODATION
The following hotels offer special conditions for participants. For getting the key word and further information please contact the organisation team or visit www.tu-chemnitz.de/IMTC/hotels.

Hotel Chemnitzer Hof 4*S
Theaterplatz 4, 09111 Chemnitz
Phone: +49 371-68 40
www.chemnitzer-hof.de
Distance to the conference venue 3.2 km

Seaside Residenz Hotel Chemnitz 4*
Bernsdorfer Straße 2, 09126 Chemnitz
Phone: +49 371-35 510
www.residenzhotelchemnitz.de
Distance to the conference venue 1.5 km

Hotel an der Oper 4*
Straße der Nationen 56, 09111 Chemnitz
Phone: +49 371-68 10
www.hoteloper-chemnitz.de
Distance to the conference venue 3.3 km

Mercure Kongress Chemnitz 3*
Brückenstraße 19, 09111 Chemnitz
Phone: +49 371-683 0
www.mercure.com
Distance to the conference venue 2.8 km

Due to construction works traffic will be rerouted in several areas. Please have a look at www.tu-chemnitz.de/IMTC/journey to find the up-to-date directions to the venue.
NEUES VERFAHREN ZUR HERSTELLUNG
ENDLOSFASERVERSTÄRKTER THERMOPLASTISCHER
HALBZEUGE UND BAUTEILE

Modul der einstufigen Direktverarbeitung

Subject to modification. Status August 2017.