



**Venue:** Werkzeugmaschinenlabor an der RWTH Aachen (WZL), Steinbachstr. 19, 52074 Aachen

**Event website online:** [www.b2match.eu/irasme-cornet-aachen-2017](http://www.b2match.eu/irasme-cornet-aachen-2017)

**09:30 Registration of participants**

**10:00 Welcome and opening remarks**

Dr. Florian Degen (Fraunhofer Institute for Production Technology IPT)

**10:15 Programme presentations**

CORNET, IraSME, Enterprise Europe Network (EEN)

*Discover the right tools and funding options for your project idea*

**11:15 CORNET Success Story "At the heart of a project"**

- 2SlaC - Two Step Laser Coating for 3D Surfaces and Large Areas  
*Ms Maischner, Fraunhofer Institute for Laser Technology ILT, Aachen*

In parallel: Face-to-Face Meetings according to your personal schedules

**11:40 CORNET and IraSME Elevator Pitch Sessions – Part I  
Material Science and Information Technology**

**Dr. Dirk Drees** (Falex Tribology, BE) – Efficient durability testing - a wear institute

*Short description: The main need in industry, with regards to friction and wear problems, is the durability question. How long will this material perform its function? So there is a big need for WEAR-DATA. But this need is not easy to cover: wear tests by their very nature, occupy testing equipment for a long time and also by their nature, require duplicates or multiple tests to perform statistics. The only efficient approach for this is a multistation approach. We set up multistation wear generators to develop a 'wear institute' where materials can be compared cost and time efficiently with respect to durability and wear evolution. We are looking for partners and funding to establish a basic reference data base on materials.*

**Raman Subrahmanyam** (Aerogel competence center (TuTech GmbH), DE) – Biopolymer aerogels – High surface area materials for multiple applications

*Short description: We provide biopolymer aerogel prototypes (500 m<sup>2</sup>/g) mainly for food, care and pharma. We also provide aerogel R&D and consultancy services.*

**Pavan Kumar Manvi** (Institut für Textiltechnik der RWTH Aachen, DE / Aachen Maastricht Institute for Biobased Materials, NL) – Biopolymers in textile process chain and economy

*Short description: The Team of scientists of biopolymer Group at the Institute is strongly engaged in developing textile products based on bio-based materials. The Focus is kept on the developing new field of applications for newly developing as well as existing biopolymers. The biopolymer industry is facing big challenges due to unidentified potential of biopolymers as well as their processing deficiencies. The biopolymer group has keen interest in the cradle to cradle process development and to position the potential biopolymers in competition to the conventional polymers. The biopolymer group is continuously growing and we are looking for new scientific strength in the group. Other than working at this institute*

*my home institute has also quite a lot experience with cross border projects. The interdisciplinary cooperation, Long term experience in the Research Project execution, experience of cross border Projects and efficient expertise enable the group to accept the new challenges and to take over the new research endeavor in the field of biopolymers.*

**Konstantin Gorchakov** (KRAFTONWEG OY, FIN) –  $\alpha$ - $\beta$  Tantalum and intermetallic Coatings of 50-100 microns by PVD Droplets Method

*Short description: KRAFTONWEG OY is a Finnish based company focusing on R&D and experimental production. Backed up by years experience in material science and PVD coatings technologies our team has been working hard on novel functional metal coatings and related new deposition technique for more than 4 years.*

**Tomasz Czarnecki** (ECONCORE, BE) – Company Profile

*Short description: EconCore provides technology for the continuous production of honeycomb sandwich materials. The fast, versatile, continuous ThermHex process allows users to produce sandwich materials for various applications including automotive, transportation, building and construction, industrial packaging/graphical displays, furniture and many others at minimal cost, weight and environmental impact.*

**Dr. Pieter Samyn** (Hasselt University, Applied & Analytical Chemistry, Institute for Materials Research, BE) - Analytical Services for innovative Materials Research

*Short description: We provide support for elemental analysis, thermal analysis, particle analysis, spectroscopy and rheology for establishing structure-property relationships and trouble-solving in general materials and polymers/textile processing.*

**Dr. Christian Pelshenke** (Forschungsgemeinschaft Werkzeuge und Werkstoffe e.V. (FGW) / Research Association for Tools and Materials, DE) – Organisation Profile

*Short description: The FGW is a private, non-commercial institution for applied research in the field of the tool-, cutting- and cutlery industry.*

**Yves de Blic** (Multitel Innovation Center A.S.B.L., BE) – Organisation Profile

*Short description: Synchro Modal IT - SYNCHRONisation in multiMODAL transport thanks to IT-driven hierarchical visibility*

**12:30 Lunch break**

**13:30 CORNET and IraSME Elevator Pitch Sessions – Part II  
Biotechnology, Microtechnology and Mechatronics**

*In parallel: Face-to-Face Meetings according to your personal schedules*

**Joana Gil** (Hamburg University of Technology and BioM<sup>^</sup>P Competence Center (TuTech GmbH), DE) – Cascade valorization of Biomass by means of High Pressure

*Short description: We are a group of scientists with both experience in academia and industry. Biom<sup>^</sup>p "Bio Mass High Pressure" is the start-up initiative, which has been founded under the TUHH- technology transfer company TuTech Innovation GmbH, and is located in Hamburg, Germany. We provide innovative solutions to industries in different market sectors. The experts of our multidisciplinary R&D team work in process development and optimization, high pressure technologies, compounding by extrusion, extraction of functional ingredients for the food and pharmaceutical industry (Supercritical Fluid Extraction) as well as the performance of economic and environmental feasibility studies.*

*We produce Lignin in semi-industrial scale for biocomposites and we are able to provide you with testing samples for your material science and life science applications. Biom<sup>^</sup>p aims to stimulate the Biobased Economy and Sustainable Process Implementation by increasing the use of bioactive compounds and addition of biopolymers to materials and products that are currently produced from oil derived sources.*

**Damian Kasperczyk** (Ekoinwentyka sp. z o.o., PL) - Biopurification of air in a Compact Trickle Bed Bioreactor (CTBB)

*Short description:*

*Ekoinwentyka Sp. z o.o. offers innovative Compact Trickle Bed Bioreactor for air biotreatment, which guarantees the required reduction of VOC, and odor emissions in waste gas.*

**Dr. Michael Müller** (Test and Research Insitute Pirmasens e.V., DE) – Organisation Profile

*Short description: The Test and Research Institute Pirmasens (PFI) is a modern service and research organization devoted primarily to testing, R&D, and certification of consumer products. Originally established to serve the needs of the footwear industry, the PFI has meanwhile established an enviable reputation in many other sectors. PFI assists manufacturers in optimizing their products and processes, whether at the design stage, in development, production, and logistics, or in quality assurance.*

*PFI Biotechnology has been heavily involved in the material and energetic utilization of biomass since 2003. PFI 's engineering laboratory has several pilot biogas fermenters in which various biogas production processes can be simulated under practically relevant conditions. In addition, fermenters are available for biotechnological transformations on a laboratory and on a pilot scale. At PFI tests are conducted on various biomass digestion processes (hydrothermal, enzymatic, chemical) which permit material utilization or improve energy yields.*

**Kerstin Gläser** (Hahn-Schickard-Gesellschaft für angewandte Forschung e.V., DE) – Organisation Profile

*Short description: Hahn-Schickard supports companies with its streamlined portfolio of services and its comprehensive infrastructure in all phases of product innovation: Research, product ideas, feasibility studies, development and validation of samples and prototypes, preparation of serial production, serial production*

**Dr. Martin Schädel** (CiS Forschungsinstitut für Mikrosensorik GmbH, DE) - MOEMS IR-technologies and components

*Short description: Non-profit research & development with over 25 years Competence in Silicon*

**Melanie Klein** (Fraunhofer IPA – Project Group Process Innovation, DE) - Mechatronics for traditional pipe organs – a project proposal

*Short description: The pipe organ is the largest music instrument and subjected to a constant innovation process since centuries. Usually, the key depressions are transferred via complex mechanical systems over long distances. The proposed project addresses the substitution of the mechanical system with an electromechanical – similar to fly-by-wire systems in aircraft.*

**14:15 Coffee break**

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**14:30 CORNET and IraSME Elevator Pitch Sessions – Part III**

**Industrial and Civil Engineering, Circular Economy and Others**

*In parallel: Face-to-Face Meetings according to your personal schedules*

**Christian Schwotzer** (RWTH Aachen University, Department for Industrial Furnaces and Heat Engineering, DE) – Organisation Profile

*Short description: Introduction to the Department for Industrial Furnaces and Heat Engineering*

**Markus Röder** (Gas- und Wärme-Institut Essen e.V., DE) – Organisation Profile

*Short description: Today, the research and development work conducted at the GWI is concentrated into two departments; the first deals with appliance technology and fuel engineering, while the other focuses on industrial engineering and combustion technology. The accredited testing laboratory is one of the largest and most important in the gas industry in Germany and contact is maintained to large sections of the community of gas experts via the Academy.*

**Ivana Agnolin** (HTW Berlin, DE) - BIM-BOOM-BAM: BIM to support the development of technology and services at construction sites and in Facility Management

*Short description: BIM means Building Information Modelling, the semantic 3D-modelling of buildings, unlimited source of information to build and manage: The HTW shows its attainments and looks for partners*

**Hervé Brequel** (Centre Terre et Pierre (CTP), BE) – Organisation Profile

*Short description: CTP is leader or a key partner of several projects portfolio, at European level as well as regional level, including direct involvement or support from industries. These collaborative (pre-competitive) and applied research are carried out in response to a need for a sector or federation and cover a wide range of topics, comprising the set-up of mineral processing techniques applied to waste stream in order to recover chemicals, or valuable materials, from laboratory (several kilograms) to pilot scale (several tons).*

**Carlo Polidori** (Veltha, BE) - SCREEN: Synergic Circular Economy across European regions

*Short description: SCREEN is an H2020 project aiming at the definition of a replicable systemic approach towards a transition to Circular Economy in EU regions within the context of the Smart Specialization Strategy*

**Mikhail Treyvish** (UCA OmniGrade, RUS) - OmniGrade: universal crowdsourcing platform for solving the most complicated business and technological issues

*Short description: International crowdsourcing platform that for companies, organizations and projects with ambitious noble goals is a tool allowing to form an international group of supporters, inspired by their vision and ready to help them on an ongoing basis*

**15:15 Final remarks and closing words by CORNET and IraSME team**

**15:30 End of Partnering Event**

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Please note: Only registered participants take advantage of the Elevator Pitch Sessions and Face-to-Face meetings, scheduled in your personal profile. **The event is free of charge.**