



MEET THE EXPERTS @Prototyping 7/11/2018 16h-17:30h

EXPERTS MECHANICAL ENGINEERING AND MECHATRONICS

In West Flanders, there is an extensive network of more than 250 companies active in the mechanical engineering and mechatronics sector. In the cluster Mechanical Engineering & Mechatronics, the West Flemish knowledge institutions work together with POM West-Flanders on the development of open test and innovation platforms, based on the needs and opportunities for these companies.

The Expert Group M&M of TUA West bundles the infrastructure and expertise of the West Flemish knowledge institutions around Industry 4.0 in the competence center M&M. With the cooperation of Flanders Make, they make demo and test infrastructure available to West Flemish production companies in the Innovation labs of KU Leuven Campus Bruges, the Application labs of UGent Campus Kortrijk and Sirris and the technology labs of VIVES and Howest.

Gregory Pinte, Flanders Make

Expert Mechanical Engineering and Mechatronics

Innovation, product & production process, research, Industry 4.0

Gregory Pinte is R&D manager at Flanders Make, the strategic research centre for the manufacturing industry. Flanders Make delivers full support to the innovation projects of manufacturing companies through excellent research. This way, Flanders Make aims to contribute to new products and production processes that help to realise the vehicles, machines and factories of the future.



Valentijn Destoop, Howest

Expert Mechanical Engineering and Mechatronics

Design-driven Innovation & Entrepreneurship, VR/AR, Technology Lab

As head of the VR/AR technology lab, Valentijn is responsible for connecting the industry to the research center of the world best gaming school Digital Arts & Entertainment at Howest. As a renowned designer and creative entrepreneur, he guest lectured at academic institutions including Vlerick business school, Berlin School of Creative Leadership, among others. Valentijn connects talent through the Creative Network. In his spare time he advises creative entrepreneurs and acts as a mentor in several European startup-incubators and accelerators.





Mark Versteyshe, KU Leuven

*Expert Mechanical Engineering and Mechatronics
Applied mechatronics, Industry 4.0, dependability and distributed systems*

M. Versteyshe, after taking various roles within the industry, has been appointed professor at the research group “M-group” of KU Leuven. M-group bundles competences for applied mechatronics in dependability and distributed systems. “Dependability” encompasses reliability - availability - robustness and security of a system. “Distributed Systems” are treated as a complex ecosystem of machines that are connected within the Industry 4.0 paradigm shift.



Rik Vanhevel, Sirris

*Expert Mechanical Engineering and Mechatronics
Mechatronics, ERP-systems, innovation, Industry 4.0, operator support*

Rik Vanhevel graduated in 1988 as master in mechatronics and computer sciences at KU Leuven, Belgium. Working for more than 25 years with Bekaert, Rik was able to develop a broad set of competencies in the field of manufacturing, ERP-systems, engineering and innovation. He is principal engineer in the program Smart and Digital Factory. Operator support and transparent factory are main topics in the Smart Multivariant Assembly Cell demonstrator in the Sirris application lab.



Jeroen De Maeyer, UGent

*Expert Mechanical Engineering and Mechatronics
Smart products & production systems, electromechanical systems,
digital data engineering, Industry 4.0*

Jeroen De Maeyer is your interface to a group of 125 researchers at UGent and Howest working on (1) smart motion products for vehicles, industrial machines and energy; and (2) smart production systems for flexible assembly and discrete part of batch processes. With our expertise in electromechanical, industrial systems and digital (data) engineering; we are your expert partner for your innovation projects, ready to inspire you with our technology and connecting you with key partners.





Philip Vanloofsvelt, VIVES

Expert Mechanical Engineering and Mechatronics

Industrial IoT, Industry 4.0, Machinery safety, Electrical engineering

Philip Vanloofsvelt graduated in 1987 as master in electronics and computer science. He started working as an automation engineer, project engineer. He is lecturer in industrial automation, machinery safety at VIVES university college since 2003.



Skills:

- Industrial IoT, Industry 4.0 with major focus on production, process and batch automation, using engineering software platforms like Siemens-TIA-portal[®], SIGMATEK-LASAL class[®].
- Machinery safety projects: applying safety technology according to both machinery standards and European directives.
- Developing HMI application, web interfacing and realtime web based dashboarding including remote and cloud based solutions for online access and datalogging.
- Electrical engineering of industrial control cabinets.

EXPERTS NEW MATERIALS

The cluster New Materials focuses on West Flemish companies that process plastics in their production processes in order to increase their innovative strength. Together with the Expert Group New Materials of TUA West, investments are being made in infrastructure and knowledge building related to thermoplastic polymers and composites, process optimization and new production processes and recycling of textiles and plastics.

The Expert Group New Materials combines the expertise of Centexbel, Howest, KU Leuven Campus Kortrijk and Bruges, UGent Campus Kortrijk, VIVES and Catalisti. In the open innovation hall New Materials their competencies are brought together and used for, among other things, research into the use of recycle as a raw material in the plastics processing and textile industry.

Sofie Huysman, Centexbel

Expert New Materials & project Accelerate³

Materials Engineering, sustainable materials, biopolymers, additive manufacturing

Dr. ir. Sofie Huysman obtained a master degree in Materials Engineering and a PhD in sustainable materials management at Ghent University. She works at Centexbel as a research scientist and is involved in several regional and European projects on extrusion of thermoplastic polymers and polymer-based additive manufacturing. The use of biopolymers is an important research topic.





Katrijn Sabbe, Howest

Expert New Materials

Chemical Product development, design, plastic processing

After her master's degree in product development, Katrijn specialized in design and processing of plastic products. During the first 10 years of her career she worked at various plastic processing companies, in Anziplast as project engineer and at Cabka as an operation manager.

At the moment, Katrijn guides engineering students in the materialization of designs that are realized on behalf of industrial companies.



Bart Buffel, KU Leuven

Expert New Materials

Chemical engineering, polymer processing, numerical simulations, recycled materials

Bart has a background in chemical engineering and polymer processing. Nowadays, he is a research expert at the polymer processing research group ProPoLiS of the KU Leuven. He teaches, polymer processing, numerical simulations and heat transfer. Bart has experience in different polymer processing topics like: Short fibre reinforced thermoplastics, natural fibres, thermoforming, numerical simulations and material characterization.



Wim Thielemans, KU Leuven

Expert New Materials & project Accelerate³

Chemical engineering, polymers, renewable materials, nanocomposites

Wim Thielemans is a chemical engineer with research experience in Belgium, the USA, France and the UK on the development of polymers, (nano)materials and nanocomposites from renewable resources. His research group at KU Leuven Campus Kulak Kortrijk continues on this track with a strong focus on manipulating and modulating interfaces between phases to develop high-performance renewable materials.





Tom Scharlaken, VIVES

Expert New Materials

Chemical Mechanical engineering, Additive Manufacturing

Tom Scharlaken graduated as Mechanical engineer at KU Leuven. He worked as Mechanical Designer at Demaitere Engineering where he became responsible for production techniques: CNC machining, sheet metal, welding. He has built up a network in manufacturing business before moving on to Vives in 2014. Tom works as a lecturer machining and researcher on Additive Manufacturing. He focuses on Metal AM and has built up experience with Laser Beam Melting (LBM/SLM).



EXPERTS 3D PRINTING

Ed Rousseau, Brightlands Chemelot Campus

Expert project Accelerate³

Mechanical Engineering, Additive Manufacturing, Business Development

Ed Rousseau is Business Development Manager at Brightlands Chemelot Campus. He graduated and holds a PhD in Mechanical Engineering. From 1985 to 2013 he worked at DSM Engineering Plastics in many functions. Since 2013 he works at Brightlands Chemelot Campus in the field of high performance materials and Additive Manufacturing, linking technical and economical expertise in materials towards creating new businesses.



Kris Binon, Flam3D

Expert additive manufacturing

Kris Binon graduated as a Master in Nautical Sciences and continued, while working, studies on international and intercultural management, as well as Disaster Studies. His professional career has been diverse so far: disaster management consultancy, sales and marketing in the technical textile industry, as the representative for the Red Cross in Nepal and developing SME activities in Africa. Currently he is working in less exotic Flanders, on the nevertheless equally interesting topic of 3D printing, as director of the cluster association for additive manufacturing, Flam3D.



Meet the experts is an initiative of POM West-Vlaanderen and TUA West, in collaboration with the Interreg projects Accelerate³ and ISE.

