



Press release

Paris, 13 March 2019

JEC GROUP UNVEILS THE WINNERS OF THE JEC INNOVATION AWARDS AT JEC WORLD 2019

On the international stage of JEC World, composite innovation is everywhere! On the planets, on the live demo zones, on the stands, and also on stage... During this second day of the world's largest composites exhibition, the winners of the JEC Innovation Awards were announced.

JEC Innovation Awards celebrate the fruitful cooperation between players of the composite community. Over the past 15 years, the JEC Innovation Awards have brought in 1,800 companies worldwide. 177 companies and 433 partners have been rewarded for the excellence of their composite innovations. The JEC Innovation Awards reward composites champions, based on criteria such as partner involvement in the value chain, technicality or commercial applications of innovations.

The ceremony was opened by Bertrand Piccard, the founder and visionary behind Solar Impulse, the first zero-fuel aircraft with perpetual autonomy.

The jury then announced the ten composite innovation champions selected among 30 finalists, from more than a hundred entries, and the public awarded its prize.

"JEC Group supports innovation and has created the Composites Reference Prize to reward industry champions and promote their innovations. Every year, we receive more than a hundred applications from all over the world," explains Franck Glowacz, Composites Expert at JEC Group.



The 11 winners of the 2019 JEC Innovation Awards with the jury



JEC WORLD
2019 The Leading International
Composites Show
March 12-13-14, 2019 | PARIS-NORD
VILLEPINTE



**Did you miss the ceremony?
Go to the Hall of Fame next to the Agora in Hall 5 E94!**

A PRESTIGIOUS INTERNATIONAL JURY

- Anurag BANSAL, Manager Global Business Development, ACCIONA Infraestructuras
- Christophe BINETRUY, Professor, EC Nantes
- Robert BUCHINGER, CEO, SUNLUMO Technology
- Grahame BURROW, Global President, MAGNA EXTERIORS
- Dominique DUBOIS, CEO, CARBOMAN Group
- Karl-Heinz FUELLER, Manager Hybrid Materials, Concepts and AMG, DAIMLER
- Sung HA, Professor, HANYANG UNIVERSITY
- Murat OGUZ ARCAN, COO, Composites, Construction and Business Development, KORDSA
- Henri SHIN, Director – R&D Composites Innovation Center, KOLON
- Kiyoshi UZAWA, Professor/Director (Ph.D), INNOVATIVE COMPOSITE CENTER

KORDSA TEKNIK TEKSTIL  : the partner of the JEC Innovation Awards
THE REINFORCER

www.jec-world.events

About JEC Group

JEC Group is the world's leading company dedicated entirely to the development of information and business connections channels and platforms supporting the growth and promotion of the composite materials industry. Publisher of the JEC Composites Magazine - the industry's reference magazine, JEC Group drives global innovation programs and organizes several events in the world, including JEC World (the foremost and world-leading international exhibition dedicated to composite materials and their applications), which takes place every March in Paris.

www.jeccomposites.com

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11 WINNERS AWARDED

AEROSPACE • APPLICATION



Winner: **Herone** (Germany) and partners **TU Dresden** (Germany), **Victrex Europa GmbH** (Germany).

Injection forming of gears on CF-PAEK drive shafts

Injection forming of CF-PAEK composite profiles with CF-PEEK – a smart progression of the overmoulding technology to reach the next-level of connection strength for integral composite profiles.

AEROSPACE • PROCESS



Winner: **Profactor GmbH** (Austria) and partners **Airbus Defence and Space GmbH** (Germany), **Danobat** (Spain), **Dassault Systemes SA** (France), **FIDAMC-Fundación para la Investigación, Desarrollo y Aplicación de Materiales Compuestos** (Spain), **IDEKO S. COOP** (Spain), **InFactory Solutions GmbH** (Germany), **M. Torres Diseños Industriales SA** (Spain), **Profactor GmbH** (Austria)

Zero-defect manufacturing process

The development is a zero-defect manufacturing process for large composite parts. It uses inline monitoring and decision support systems to avoid defects showing up only during final NDT.

AUTOMOTIVE • APPLICATION

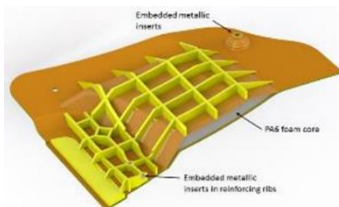


Winner: **Polyscope Polymers** (Netherlands)

Composite guide rails for a roller-blind sunroof

The first time that a thermoplastic composite successfully replaces aluminium for guide rails on roller-blind sunroof modules.

AUTOMOTIVE • PROCESS



Winner: **Evopro Systems Engineering Kft.** (Hungary) and partners **eCon Engineering Kft.** (Hungary), **HD Composite Zrt.** (Hungary), **Université de technologie et d'économie de Budapest, Faculté de génie mécanique** (Hungary) et **Académie hongroise des sciences, Centre de recherche en sciences naturelles** (Hungary)

Fast manufacturing of complex TP composites

Automated, short-cycle-time production of thermoplastic polymer composites with a special focus on high functional integration, complexity and recyclability of the parts, based on T-RTM technology.



CONSTRUCTION & INFRASTRUCTURE



Winner: Arkema (France) and partners Arkema (France), National Cooperative Highway Research Program - NCHRP (USA), Sireg (Italy), Université de Miami (USA)

Bendable TP composite reinforcements for concrete

Readily bendable thermoplastic composite bar and cable for reinforced and prestressed concrete revolutionizing the durability of construction.

SUSTAINABILITY



Winner: Technical University of Denmark (Denmark) and partners Centexbel (Belgium), Comfil (Denmark), Fraunhofer-Gesellschaft (Germany)

Bio4self – Self-reinforced PLA composites

Bio-based, easy-to-recycle self-reinforced composite materials using high-stiffness PLA fibres for use in sports, automotive and medical applications.

SPORTS & HEALTHCARE



Winner: KTM-Technologies GmbH (Austria) and partners KTM-Technologies GmbH (Austria), Mitsubishi Chemical Carbon Fiber and Composites GmbH (Germany)

FMC for the KTM carbon skid plate

The first structural composite skid plate produced using an FMC/NCF/elastomer hybrid. This direct production line with a one-shot process enables the best product-market fit in series production in terms of properties and costs.

3D PRINTING



Winner: Continuous Composites (USA) and partners Air Force Research Lab (USA), FCA / Comau (USA), Lockheed Martin (USA), Siemens (USA)

Continuous-fibre 3D printing

Continuous Fibre 3D Printing (CF3D™) combines composite materials with a 3D printing process, creating a mouldless out-of-autoclave process. The result is a drastic reduction in cost and lead times.



LAND TRANSPORTATION



Winner: **Stratiforme Industries** (France) and partners **Armines Douai** (France), **CEF Centre d'essais ferroviaires** (France), **SNCF Réseau** (France)

ACCUM: universal composite catenary cantilever

ACCUM is a universal composite catenary cantilever validated from 750V to 25kV and suitable for all standard and specific railtrack profiles, designed for easy supply, installation and maintenance.

INDUSTRY & EQUIPEMENT



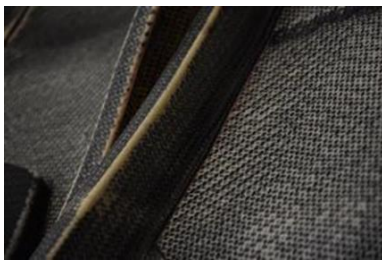
Winner: **AZL AACHEN GmbH** (Germany) and partners **AZL Institute of RWTH Aachen University** (Germany), **Conbility GmbH** (Germany), **Covestro Deutschland AG** (Germany), **Engel Austria GmbH** (Austria), **Evonik Industries AG** (Germany), **Fagor Arrasate S. Coop.** (Spain), **Faurecia SE** (France), **Fraunhofer IPT** (Germany), **Laserline GmbH** (Germany), **Mitsui Chemicals Europe GmbH** (Germany), **Mubea Carbo Tech GmbH** (Austria), **Philips Photonics**

(Germany), **SSDT Shanghai Superior Die Technology Co.** (China), **Toyota Motor Europe NV/SA** (Belgium)

Ultra-fast consolidator machine system

Modular production system for the mass-production of individual tailored blanks based on a piece flow approach in combination with laser-assisted thermoplastic tape placement with in-situ consolidation.

PUBLIC PRICE



Winner: **Cecence** (UK) and partners **Acro Aircraft Seating LTD** (UK), **FTI** (UK).

Fully FST compliant 16g composite aero seatback

Rapid hot compression moulded, fully composite 16g carbon seatback with FST compliance built in to its core, negating the need for fire proof dressing and with an out of mould paint ready

surface.

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