

## Innovation in Motorsport



Varano de' Melegari (Parma), 10<sup>th</sup> May 2021 - Composite Materials are part of a constant optimization and improvement flow. That's why Bercella and Formula Seven joined forces to develop an innovative seat for Formula SAE single-seaters, using only 100% natural materials.

Flax Fiber, besides being an eco-friendly material, it is UVs, impacts and corrosion resistant. Moreover, as if this was not enough, Flax Fiber excellently absorbs the vibrations and isolates from electricity and heat, perfect fits for combining the Seat and the Firewall together into a single component, saving space and mass, both of which are key on Formula SAE racecars. All of this for only 1.450 kg!

As for the resin, it has an epoxy or polyester base that determines the resistance of the Composite. It is important to say that, along with synthetic resins, there is a huge effort to develop bio-resins to make this material 100% sustainable.

This is how Green Economy enters in the world of Racing, so true is it that FIA and other Federations are pushing to boost the use of natural fibers to improve the sustainability of Motorsport, being contemporarily promoters of positive messages. Sustainability is added to the battles against drink-driving and racism.

**Angeloni Group**, our Flax Fiber supplier, comments: *"Thanks to their excellent mechanical properties and low environmental impact, our IMP 503Z-HT - AmpliTex™ range of natural fiber-based prepregs, are extremely versatile. In addition, vibration damping, UV resistance and multiple design options make this a perfect solution for various applications from sports to automotive, aerospace and marine sectors."*

**Formula Seven**, the largest worldwide provider of Formula SAE specific products, comments: *"Our goal is to support Formula SAE engineers by providing ready-made parts optimized for that competition, so that the teams can save time on designing and focus on assembling and testing. This is another step forward that allows the integration of 2 parts with both environmental and performance benefits."*

**Massimo Bercella**, Bercella CEO, concludes: *"We always supported both Formula SAE teams, and the pursue for a more sustainable composites industry. With this innovation in the world where the brightest young minds of the Motorsport industry move their first steps, we show them that greener materials can be reliable on an engineering level, hoping this will prompt their increasing use in the future."*

#### ABOUT BERCELLA

*BERCELLA is a dynamic and innovative Italian company driving since 25 years the design and engineering of cutting-edge solutions using Advanced Composites and Light Alloys. Bercella is specialized in large and complex structures, providing critical industries with tailored high-performance systems, through a 360° service: from early design to engineering development to Advanced Manufacturing, all being vertically integrated in-house, for final turnkey solutions enhancing process control, costs reduction and efficiency.*

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