

# SYNTECS

SUSTAINABLY AND DIGITALLY DRIVEN HIERARCHICAL LASER TEXTURING FOR COMPLEX SURFACES



NEWSLETTER #2

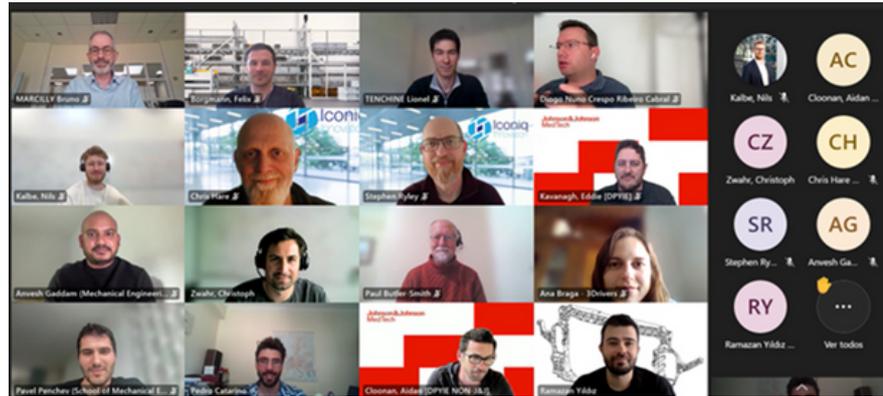


September 2024

## SYNTECS | Project Meeting (M18)

In May, we held our M18 Project Meeting. This event was an important milestone where we reviewed the progress and set future goals. The meeting also included a training session on gender and sex equality, emphasizing our commitment to inclusivity.

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Laser Summer 2024

## WORKSHOP

SYNTECS aims to develop efficient digitally controlled laser surface texturing (LST) to replace traditional methods like chemical and mechanical treatments.

4<sup>th</sup> of July 10h-12h (CEST)



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## SYNTECS | Laser Summer Workshop 2024

In June, we organized the SYNTECS Laser Summer Workshop, an engaging online event where experts discussed advancements in laser texturing technology.

The workshop attracted significant interest and fostered valuable discussions.

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## SYNTECS | Participation in events

IIW Annual Assembly 2024 - We are thrilled to announce the release of a joint paper on "Inline Process Monitoring Sensor and Optical Sensor for Laser Surface Texturing," created in collaboration with the Albatross Project H2020. Presented at IIW 2024 by our partner, European Federation for Welding, Joining and Cutting (EFW), this groundbreaking research aims to drive the future implementation of these advanced techniques in the industry.

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## World Welding Association Networking Event

MTC was invited to exhibit at the World Welding Association Networking event in conjunction with IPG here at the MTC on the 17th of July 2024. The event was attended by WWA members with around 80 attendees where MTC disseminated the SYNTECS project at this event. Some demonstration was also given to the participants on the surface texturing technology development within the project.

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## SYNTECS in 2024 - Project Progress

**Copper Vapour Chamber Innovation** - We've made strides in enhancing the cooling efficiency of complex-shaped copper vapour chambers using Laser Surface Texturing (LST), aiming to achieve an improvement in water/vapour transport and evaporation.

**Stainless Steel Mould Inserts** - Our team is developing textures on mould inserts to provide flexibility in transferring surface textures to various automotive components, particularly for electric vehicles.

**Orthopaedic Implant Advances** - With the rise in life expectancy, we've focused on designing orthopaedic implants with improved longevity and properties, ensuring they meet the demands of modern healthcare.

## SYNTECS IN 2024

During this year, the focus will be on participating in various events, such as conferences, webinars and joint events with other clusters and projects. Training events will also be a priority for the project in 2024!

Stay tuned for more news on SYNTECS developments.

Meet **OUR** Consortium



**SYNTECS**    

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