

Newsletter No 4

September 2018

Dear Readers,

The AMaTUC project team is back with fresh news and achievements. We kept informing you frequently via our project website, and we decided to publish a newsletter now. So, be ready to learn about this intense and fruitful third year of AMaTUC project.

In this newsletter we will continue where we stopped last time and talk about the successful organisation of the MTeM conference. This event was the occasion for the AMaTUC team to increase its visibility by producing several videos promoting the project and the scientific excellence of the Technical University of Cluj-Napoca (TUCN) in the field of Additive Manufacturing.

Then, we will present you the results of the summer school organised recently at TUCN and the other project activities between the coordinator TUCN and its twinning partners Loughborough University (LbU), the University of Applied Sciences (FH-Aachen) and Intelligentsia Consultants.

Keep up to date with the latest project news, visit our [AMaTUC website](#) and register to our mailing list to receive the next newsletters as soon as released.

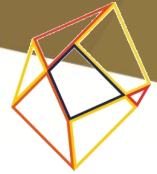
AMaTUC Team

Coordinator:



Partners:











A real success for the MTeM conference

The Technical University of Cluj-Napoca (TUCN) organised the international conference Modern Technologies in Manufacturing 'MTeM' on the the 12-13 October 2017 at the Machine Building Faculty of TUCN.

This biennial conference started in 1991 and it is regarded as a high-level ranking conference in the promotion of research and teaching in Manufacturing Engineering. It also serves as a forum to disseminate information to all branches of the manufacturing industries on the most recent and relevant innovations.

The 2-day conference programme covered topics of high interest for the manufacturing community and addressed questions and issues relevant to academic participants as well as industrial actors such as:

-  *Manufacturing Engineering*
-  *Automation of Manufacturing Systems and Assembly*
-  *Machining processes and Quality assurance*
-  *Metal Forming*
-  *Additive Manufacturing & non-traditional technologies*
-  *Processes of plastics and composite materials*

MTeM 2017

The edition of 2017 was labeled as the AMaTUC conference and it allows the Technical University of Cluj-Napoca to attract more than 80 scientific and industrial experts from all around the world.
















3rd summer school on Additive Manufacturing

The 3rd project summer school was organised in Romania by the AMaTUC coordinator, Technical University of Cluj-Napoca, at their Machine Building Faculty's premises from the 10 to the 15 September 2017. The summer school attracted 48 participants from different universities as well as industries such as Guhring, Bielomatik, MAN AG, Zircon Dent, Bosch, Sinterom, and Daimler- Mercedes.

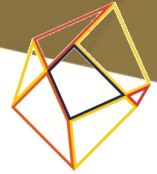
All the partners participated to the final AMaTUC summer school and gave lectures on the following relevant topics:

-  *"Hands-on CAD modelling/ Case study on AM in digital heritage"; Prof. Ian Campbell (LbU)*
-  *"Case study - AM in medical products (wrist splint)"; Prof. Richard Bibb (LbU)*
-  *"Overview of the remaining H2020 calls for AM"; Mr. Flavien Massi (Intelligentsia)*
-  *"AM Education/Training methods"; Ms. Laura Thurn (ACUAS)*
-  *"CAD modelling of the human form (using SAMMIE CAD)"; Prof. Russ Marshall (LbU)*
-  *"Design for AM"; Dr. Patrick Pradel (LbU)*
-  *"Lattice structure benefits for SLM metal parts"; Dr. Julia Kessler (ACUAS)*
-  *"5-axis material extrusion AM"; Dr. James Garner (LbU)*
-  *"Vat Photopolymerization"; Dr. Xiaoxiao Han (LbU)*
-  *"Industrial Applications of AM"; Prof. Andreas Gebhardt (ACUAS)*
-  *"Quality Assurance for AM"; Ms. Franziska Zaunig (LbU)*



In addition, the participants of the summer school received a practical course on CAD modelling, analysis of SLS assemblies and post-manufacturing evaluation. The summer school also proposed a visit of the Romanian branch of the company Guhring which is one of the world's leading manufacturers of precision tool.

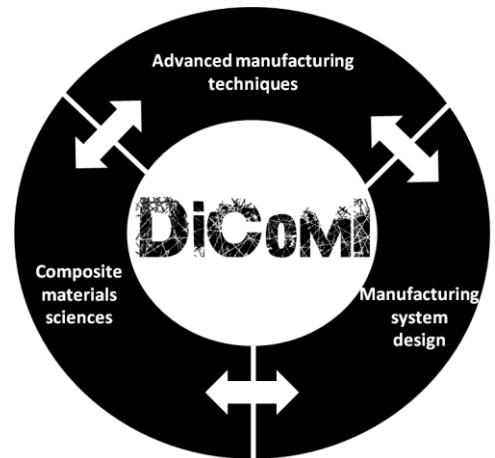
GUHRING



DiCoMI project is launched

The “Directional Composites through Manufacturing Innovation” DiCoMI project has received funding from the European Union’s Horizon 2020 programme under the Marie Skłodowska-Curie scheme for research and innovation staff exchanges. DiCoMI project was officially launched in March 2018 and will sustain the work carried out during the last years as every AMaTUC partners are now participating to this new project.

DiCoMI bring together leading innovators from across Europe, and beyond, to develop a new method of producing composite material parts with optimized fibre directionality. The outcome will be a novel composites manufacturing system capable of producing low-cost parts with increased accuracy and enhanced functionality.



The four-year project involves 16 partners located in 8 different countries in Europe and worldwide. Also, the DiCoMI consortium is composed of 10 research institutions and 6 companies.

Visit the [DiCoMI project website](#) and learn more about the project’s objectives and core activities.





AMaTUC on social media

Many people asked for it, so the AMaTUC team made it!

In order to increase the visibility of the project we decided to create several accounts on various social media.

We first started by making and publishing the official AMaTUC video on Youtube. Other videos about AMaTUC project are available on the dedicated section of our website.



The latest news about AMaTUC project are now available on our Facebook page. Visit and like our page.

Join the AMaTUC group on LinkedIn to discuss directly with the project team and ask all your questions.



Learn more on AMaTUC project activities and achievements by visiting frequently our website:

www.amatuc.com