



Newsletter No 3

August 2017

Coordinator:



Partners:



Dear Readers,

Following the publication of the last newsletter, marking the end of the 1st period of AMaTUC project, we have been busy preparing the periodic reporting to the European Commission as well as the official review.

We received a good feedback from both the European Commission and the external reviewer, which confirmed the relevancy of the AMaTUC action for the Technical University of Cluj-Napoca (TUCN) and its twinning partners Loughborough University (LbU), the University of Applied Sciences (FH-Aachen) and Intelligentsia Consultants.

The 2nd period of the project gets off to a flying start for the partners with the organisation of an AMaTUC summer school in Loughborough as well as several good news we will reveal in this newsletter.

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





2nd summer school on Additive Manufacturing

The 2nd project summer school was organised by the partner Loughborough University (LbU) at their Design School's premises from the 17 to the 21 July 2017. All the consortium partners participated to the summer school including ten (10) research staff from the coordinating organisation TUCN. To be mentioned the participation of several students from the Design School at the South China University of Technology which considerably raised the networking dimension of the summer school.

Representatives from the partners FH Aachen and Intelligentsia were invited to give training lectures on topics relevant to Additive Manufacturing and project management. The agenda of this event comprises of several interesting topics such as:

- ✦ *Using 3D printing for prototypes*
- ✦ *Additive Manufacturing Technologies*
- ✦ *Added value through AM*
- ✦ *Early prototyping*
- ✦ *Project management*



In addition of the lectures, the participants had the chance to develop their skills and applied their new knowledge through case study and practical exercises.



- ✦ *Using UX interface in MARVEL*
- ✦ *UX prototyping*
- ✦ *Personalising Designs*
- ✦ *CAD modelling*
- ✦ *Manual prototype development*
- ✦ *Evaluation of first digital prototypes*
- ✦ *3D scanning of prototypes*



New research and innovation Projects

The preparation of new research proposals and even more, the participation to new projects is a key performance indicator for the AMaTUC project. It was made clear by the partners, and especially the coordinator TUCN, that complementary projects must be developed to strengthen the existing cooperation, enlarge the network and finance Research, Development and Innovation (RDI) activities.

Since the beginning of the project, TUCN won three national RDI projects:

-  **Bridge Grant OpTi-DeP:** 3D Printing Optimization for customized dental applications.
-  **Bridge Grant PreMCo:** Develop the machining capabilities for advanced composite materials, by using the water jet cutting process.
-  **Bridge Grant:** The optimization of the fiber reinforced composite materials and their manufacturing technology, used in developing electrical vehicle body panels.



Few weeks ago we received a good news from the European Commission concerning our DiCoMI proposal “Directional Composites through Manufacturing Innovation”. Indeed, the proposal submitted under the Marie Skłodowska-Curie Actions – Research and Innovation Staff Exchange (RISE) has been successfully evaluated and will start next year. This new Horizon 2020 project comprising of 16 partners will involve the entire AMaTUC consortium and it will be coordinated by Loughborough University.





Organisation of the conference MTeM 2017

The Technical University of Cluj-Napoca is currently organising an international conference on Additive Manufacturing in Romania. The Modern Technologies in Manufacturing 'MTeM 2017' will take place at the Machine Building Faculty of TUCN the 12-13 October 2017.

If you are looking for raising your knowledge in 3D printing and advanced manufacturing as well as developing a network of relevant contact in the field, then the MTeM 2017 conference is made for you. The 2-day conference programme will cover topics of high interest for the manufacturing community and will address questions and issues relevant to academic participants as well as industrial actors:

-  *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

Join this great international conference and have a chance to meet the AMaTUC team. Register to the MTeM 2017 conference on the event [website](#).

Participation to other international conferences

The full list of conferences attended by the AMaTUC partners will be published soon on the project website. Nevertheless, we can already mention the participation of LbU at [ICED'17](#) in Vancouver (Canada) the 21-25 August 2017 as well as the participation of TUCN and FH Aachen at [ILP-MIT](#) 2017 in Boston (USA) the 1-4 August 2017.





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. Many team members have been interviewed and you will surely recognised the famous FabBus owned by the partner FH Aachen.



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

Register now to our mailing list and receive the AMaTUC newsletters as soon as they are released.