

## Opening address

Dear Guests and Friends,

On behalf of the organizing committee of the 14th International Conference MTeM 2019, I wish you a warm welcome to Cluj-Napoca!

Please find details in this program, regarding the timetable of the events and paper presentations, which are grouped into six topics.

The aim of the MTeM Conference is to bring together experts in Manufacturing Engineering, in order to exchange ideas and make new connections to extend and develop partnerships between the researchers from Romania and other European Countries.

The MTeM 2019 Proceedings will be published online with open-access in a volume of MATEC Web of Conferences (<https://www.matec-conferences.org/forthcoming>). MATEC Web of Conferences (ISSN: 2261-236X) is indexed in major international databases: CAS, Compendex, Conference Proceedings Citation Index (Web of Science – WoS), DOAJ, Google Scholar, etc.

I strongly appreciate the contribution of the authors, who submitted valuable papers and agreed to do successive revisions of their papers, following the recommendations received from the reviewers.

Many thanks to the members of the Scientific Committee, who accepted to do the reviewing free of charge, which spent their time and effort to bring a substantial contribution to the MTeM 2019 Conference, by providing professional evaluation of the papers and suitable recommendations.

Welcome to DiCoMI partners, attending the MTeM conference. DiCoMI (<http://www.dicomi.eu/>) project, coordinated by Professor R. Ian Campbell, brings together leading innovators from across Europe, to develop a new method of producing composite material parts with optimized fiber directionality.

I am grateful to Professor Andreas Gebhardt and our partners from Aachen for excellent research collaboration and their support in boosting the scientific excellence and innovation capacity in additive manufacturing of the Department of Manufacturing Engineering (DME) from TUCN. Bringing over the FabBUS mobile 3D Printing laboratory from Aachen is great, to be explored by the MTeM Conference participants, in Cluj-Napoca.

My colleagues from the DME have done their best and without their excellent work it would have been impossible to organize this event. Thank you very much

to the Organizing Committee! The MTeM 2019 conference was organized with the support of AUIF (Academic Association of Manufacturing Engineers), chaired by Professor Petru Berce.

Let's hope that all the participants will be having fruitful scientific activities and will spend enjoyable days, during the MTeM Conference!

Professor Nicolae Balc

Chairman of the MTeM International Conference