

CALL for the

GeoGebra Summit. 2021. and

Computer Algebra and Dynamical Geometry Environment in Education of Mathematics and Informatics conference

Summer University

organized by the Faculty of Materials Science and the Institute of Mathematics of the University of Miskolc

in the framework of the CEEPUS Network CIII-HU-0028-14-2021

Miskolc, June 28-July 9 2021.

Dear Colleagues, dear Network Partners!

We have the pleasure to inform you that the Faculty of Materials Science and Engineering and the Institute of Mathematics of the University of Miskolc in cooperation with the network partners from the Johannes Kepler University Linz, Charles University in Prague, Catholic University in Ruzomberok, the Slovak Technical University and the Comenius University in Bratislava, The Faculty of Science of the University of Novi Sad, The Eszterházy University in Eger, the University of Pécs, Pannonia University of Veszprém, University of Debrecen, the Institute of Mathematics of the Faculty of Science and Education of the Palacky University of Olomouc of Czech Republic, Czech Technical University in Prague, the Faculty of Mathematics of the Babes Bolyai University of Cluj-Napoca, the Baia Mare University Center of the Technical University of Cluj-Napoca, the Anghel Kanchev University of Ruse, the Paisii Hilendarski University in Plovdiv, the Technical University of Kosice as partners of the CEEPUS Network CIII-HU-0028-10-1617 will jointly organize the on-line summer university intensive course and series of special lectures **GeoGebra Summit. 2021. Computer Algebra and Dynamical Geometry Environment in Education of Mathematics and Informatics**

The scientific topics of the intensive course and series of invited lectures cover the theory and practice of Dynamical Geometry and Computer Algebra Systems, and their applications in engineering and other sciences.

The students, PhD students and teachers of the network partners of the CEEPUS network CIII- HU-0028 can apply for on-line CEEPUS grants to participate at the event, and we ask our colleagues to provide the information in a larger audience to make possible to gain the interest of students of other higher education and research institutes.

The prospective participants beyond the CEEPUS framework can apply for the so-called on-line CEEPUS freemover grants as well, or to use other funds to cover their participation costs.

The students will get a study record and 3 credit points according to their study level (BSC, MSC or PHD), equivalent of the special course Engineering Computations in the University of Miskolc.

Preceding the summer course, the CEEPUS partner in JKU Linz organized the **Designing Innovations in STEAM Education Conference** online conference chaired by Professor Zsolt Lavicza, Head of the Methodological Doctoral Programme of the School of Mathematics of the Johannes Kepler University of Linz, and Professor Markus Hohenwarter, head of the developers' team of the world's best-known Dynamic Geometry software, the GeoGebra program.

Beside the many advantages of this software available on the Internet on all popular platforms and IT tools, computers, laptops, tablets, and even smart phones. It can be used by everyone in their native language, and social media-based internet database – the so called GeoGebra tube - has contains more than 2 million applications that can be opened, re-used - and even shared by people who want to offer their own materials, as an excellent way to reach new horizons of scientific and educational cooperation. It is an important advantage that this is an open-sources- i.e. free-program that you can use in legal way by everybody, even contributing to further development.

At the same time, the Hungarian project experience will be shared with students and instructors from the network partner university, so that we can also start work a CEEPUS partner countries change of experience, preparing participants to be involved with further cooperation the sending university.

The course will also be attended by renowned speakers, conference participants and several members of the International GeoGebra team. Participants can participate actively in the course and even in the conference.

We will advise the interested people to contact the organizers by e-mail pkortesi@gmail.com resp. piller.imre@gmail.com

The programme will consist of two parts:

Part 1. Series of Invited Special Lectures

Part 2. The Intensive Course work, involving participants teacher and student presentations

We plan to record in ZOOM sessions the lectures and course work, and to make it available for all participants on an internet page.

We also plan to make up an on-line volume with ISBN number containing the contributed papers and presentations.

Practical advices for participants.

1. You have to create your own CEEPUS desktop on the central CEEPUS site: www.ceepus.info
2. You need to login in the Mobility page and start a new mobility application by the **Action** button
3. Choose the year, the network No: CIII-HU 0028
4. Your home country and Institution
5. Host country: Hungary, Host Institution University of Miskolc, Faculty of Materials Science and Engineering
6. Fill in the mobility type: Student short term or Teacher, and option is **on-line participation**
7. Data : 2021 June 28 to July 9.
8. Fill in your personal data
9. In the **Motivation** part write: I plan to take part actively in the Summer University organized by the University of Miskolc and I plan to present a student contribution/ a series of lectures in the subject: Tentative title(s)

Remark

For the previous year summer course, Central European Contributions to the History of Mathematics and Teaching of Mathematics you can see the page:

https://www.uni-miskolc.hu/~matsefi/Summer_University_2020/