



**Transilvania
University
of Brasov**

NEWSLETTER

No. 89 September 2019

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OPPORTUNITIES FOR THE 95 MEMBER UNIVERSITIES OF THE ERASMUS+ FAMILY

The Erasmus+ program involving collaboration with partner countries (action KA107) is already well known to our academic community.



Ever since its launch in 2015, it has become increasingly accessible to our colleagues, who have shown commitment to the program and have enjoyed the professional and life experience it has to offer. For about four years now, students have benefitted from study or internship mobilities, and faculty staff has been engaged in teaching or training mobilities.



The KA107 application of 2019 has been on a rising trend as far as the number of the partner countries is concerned—38 countries from 34 in 2018—as well

as in terms of the partner universities—95 HEIs, from 74, in 2018).

The 95 universities we have been collaborating with represent eleven world regions from among the twelve eligible regions in the 2019 application.

And our efforts have been rewarded since ANPCDEF ranked us third among Romanian universities, with an approved budget of 561,494 EUR (compared with 464,924 EUR, in 2018), and first among 38 countries approved for funding. The approved funds allow for 210 incoming or outgoing mobilities.



These numbers are proof of the opening that our University's Erasmus+ team has towards bringing welcome changes in the life of students and teaching staff. The results honour and motivate us, offering a firm ground for the implementation of the KA107 mobility project, and for further developing the international policies and relations of our university.

Prof. Dr Camelia DRĂGHICI
Erasmus+ Coordinator, KA107 Project Manager

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OUR ENGINEERING STUDENTS RESEARCHING AT NATIONAL CHUNG CHENG UNIVERSITY IN TAIWAN

In July and August, Călin-Marian Șerban and Daniel Stanciu, graduates of the Faculty of Technological Engineering and Industrial Management, benefitted from a research mobility at National Chung Cheng University - NCCU in Taiwan.



The research program was hosted by the Department of Mechanics and Mechatronics of AIM-HI – Advanced Institute of Manufacturing with High-tech Innovation.

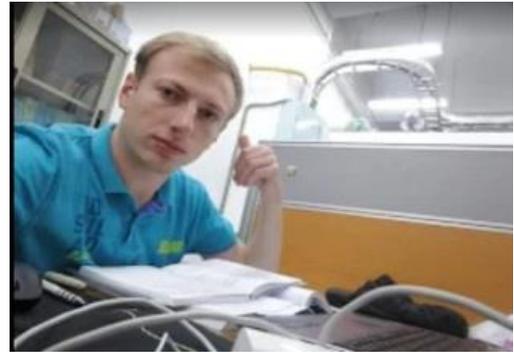


NCCU organizes research internships programs every summer, and students worldwide are eligible to participate and enter a competition.

The main field of research is Industrial Engineering.

Within the framework of a cooperation agreement signed in 2017 between Transilvania University of Brasov and National Chung Cheng University, the

host University and the Ministry of Education in Taiwan awarded our students grants that covered their travel expenses and subsistence during their stay.



Our students participated in two research projects: *Dynamic Analysis of a 6 DOF Robotic Arm* (scientific coordinator Dr Shyh-Leh Chen), and *Development of Image Processing Technique for SLM (Selective Laser Melting) Quality Quantification*.

Besides their research work, the two young researchers participated in cultural activities meant to help them integrate in the group of international students and become acquainted with different aspects of the local culture.



Our two students are currently enrolled in the Innovative Manufacturing Engineering MA program within the Faculty of Technological Engineering and Industrial Management.

NOTE: the photos are downloaded from <https://photos.app.goo.gl/ActBUwGq66uFZJvV8> and <https://photos.app.goo.gl/7haeSbxbXJKsy1X7>

Prof. Dr Mircea-Viorel DRĂGOI

WORLDSKILLS INTERNATIONAL COMPETITION - KAZAN 2019

A UNIQUE EXPERIENCE FOR STUDENTS

Due to outstanding results obtained at the national Mechatronics Olympiad, our University team made up of Costin Tudor Gâdei, 4th year Mechatronics and Dorinel Ionuț Bobîrnac, 3rd year Mechatronics, represented Romania at the Worldskills International Competition – Kazan 2019 (22-27 August), the most prestigious vocational competition in the world.



Part of the Romanian team were also Dr Luciana Cristea, expert, Dr Marius Cristian Luculescu and Alin Mihai Moja, official observers.



Worldskills International 2019 represented the first participation of Romania in the Mechatronics section of the competition. 34 countries entered the four-day competition that included mechanical, electrical and pneumatic assembling of FESTO automatic stations; operating and testing; writing

of specific applications for station monitoring equipment; maintenance; optimization.

The remarkably high level of the competition, and the fact that several teams benefitted from complete sets of equipment while others did not, made a difference in the competition.

However, our team's potential for performance and their enthusiasm and curiosity set the foundation for our next participation in the Euroskills International Competition in Graz Austria, 2020, and in the Worldskills International Competition Shanghai China 2021.



To all of us this has been an extraordinary experience. Worldskills is not a mere vocational contest. It is a competition that requires hard work and diligence.

It may be a once-in-a lifetime opportunity for the competitors. And there is no greater feeling than the pride one feels when their team is cheered by thousands of people. Or maybe there is... the feeling of being top-ranked. And we are working hard to get there.

Prof. Dr Marius Cristian LUCULESCU
Faculty of Product Design and Environment

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TOPOGRAPHY STUDENTS FROM BRAȘOV PARTICIPATE IN THE INTERNATIONAL SYMPOSIUM “IF IM CAD” 2019

Every year, the Faculty of Land Reclamation and Environmental Engineering within the University of Agronomic Sciences and Veterinary Medicine of Bucharest organize the International Student Symposium “IF IM CAD”. The acronym in the title stands for the three fields covered in the scientific papers: Land Reclamation, Environmental Engineering, and Cadastre.

The fourth edition this year took place on 19 April. The Faculty of Silviculture and Forest Engineering of our University always enters at least one paper for the Cadastre section, with prizes won every year. This year, participants were undergraduate, graduate, and doctoral students from nine universities in Romania and four universities from abroad—Turkey, Italy, Germany, and Brazil). Papers on a variety of topics were presented, some of which were research papers worthy of dissemination in any international symposium. The organizing committee and the jury consisted of specialists in the relevant fields, researchers known Romania and abroad. Our University entered with two papers, one of which won third prize.

The paper in question is titled *Using GNSS Technology in cadastral delimitation activity and making the topographic support necessary for the elaboration of PUZ*, whose author is Vasilica Rohan, a

4th year student in the Terrestrial Measurements and Cadastre study program.



The paper was supervised by Dr Cornel Cristian Tereșneu. Based on complex terrestrial measurements, well-structured, and coherently written, the paper made a good impression throughout. The author is a remarkable student of our faculty.

Admitted in the 2015-2016 academic year with an average grade 9.33 (of 10), she had a remarkable evolution and graduated top of her class.

Assist. Prof. Dr Eng. Cornel Cristian TEREȘNEU
Faculty of Silviculture and Forest Engineering

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DEMO WORKSHOP FOR THE RESTORATION OF BRAȘOV'S FORTRESS WALL

On 12 and 13 September, the students at the Faculty of Civil Engineering volunteered for a demo workshop for the restoration of Brașov's Fortress Wall. The workshop is part of the project "Donate for Brașov!" organized by the Association *Together for Community Development – AIDC Brașov* and was financed by the Donors' Circle within Brașov Community Foundation.



During the workshop, the students at the Faculty of Civil Engineering participated in theoretical presentations and practical activities for the restoration of historical monuments and under the guidance of the coordinators of the restoration activities, gained knowledge and skills regarding the restoration of historical buildings, using traditional techniques and materials.



The work carried out on this occasion consisted in:

- removing the layer of cement,
- cleaning the backlash,
- reinserting the fallen rocks,
- placing and consolidating the rocks using rock putty.

At the end of the workshop, the brick and rock wall was rehabilitated over a 50 sq metres segment. All the participants received certificates for volunteering, in acknowledgement of their dedication to maintaining and preserving our local heritage.

Lecturer Dr Christiana CAZACU
Faculty of Civil Engineering

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2018-2019 ACADEMIC YEAR – ACHIEVEMENTS OF THE STUDENTS AT THE FACULTY OF ECONOMIC SCIENCES AND BUSINESS ADMINISTRATION

In the 2018-2019 academic year concluded in September, our faculty's students obtained a series of remarkable results, be they academic (the 2019 valedictorian or the students with average grades of 10), or related to the involvement in other student activities.

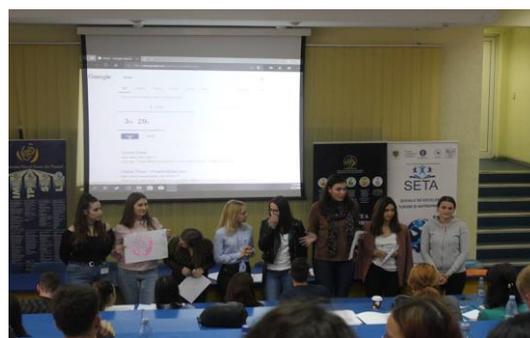
The 2019 valedictorian at the Faculty of Economic Sciences and Business Administration was Andreea Patricia Pătrunjel, who obtained an overall average grade of 9,90 for her three years of study.



Thirteen undergraduate and graduate students had outstanding results in their exams, obtaining the overall average grade of 10 at the end of the 2018-2019 academic year: Nicoleta Iftimi, Damaris Edeline Mitrofan, Cristina Andreea Vulpescu, Elena Mihaela Nechifor, Ionela Apreotesei, Dan Antipa, Elena David, Dragoș Costin Georgescu, Andreea Elena Găleşanu, Raluca Maria Mălin, Violeta Mădălina Tașcă, Raluca Vintilă, and Andreea Patricia Pătrunjel.

The annual Students' Conference was a popular event during which our students presented interesting papers. The first prize was won by: Raluca Ioana Doina Neagoe for Accounting, Vlad Arhire for Management, Aurelia-Diana Mocanu for Economic Theory, Cristian Irimie for Marketing, Tourism, and International Business, Violeta Mădălina Tașcă for the Master's program Economic Informatics, and Emilia-Ioana Ivan for the Bachelor's program Economic Informatics. The first prize in the sixth section must also be mentioned, won within AFCO by student Anita - Cornelia Szakal.

For the past few years, the students enrolled in the study program Economics of Trade, Tourism and Services participated in *The Excellence School in Tourism and Entrepreneurship* organized at the Faculty of Economic Sciences within Petroleum-Gas University of Ploiești; and this year, 2nd year students Florina Găvenea and Andreea Dumitrache represented our faculty successfully.



Another event in which our faculty has been participating for several years is *Transilvania Tourism Fair*. In the 2019 edition, first year Master's students specializing in Business Administration in Tourism, and Marketing Policies and Strategies managed our faculty's stand.



In the month of June, within the framework of the project SUCCESS (University Support for Quality, Competitiveness, and Student Equity), some of the students involved in the project took an exploratory to some of the businesses in Brașov county.

Prof. Dr Gabriel BRĂTUCU, Dean of the Faculty of Economic Sciences and Business Administration

TOP STUDENTS AND GRADUATES OF THE FACULTY OF MATERIALS SCIENCE AND ENGINEERING

In the academic year 2018-2019, two of the graduates of the Faculty of Materials Science and Engineering obtained top results and were valedictorian, with the same final grade.



One of the valedictorian students is George-Alexandru Drăghici, from the study program Biomaterials Engineering, who was admitted to the master program Engineering and Management of Advanced Metallic, Ceramic and Composite Materials. The other student is Balázs Kékési-Keresztes, from the study program Welding Engineering, who was admitted to the master program Work Safety and Work Health Engineering.

At the 2019 edition of the Students' Conference organized by the Faculty of Materials Science and Engineering, the first prize was won by Claudia Georgiana Anton, first year student – Economic Engineering in Mechanics, for the paper *Nanotechnology in Medicine: Advances in Cancer Treatment*, the first prize in Materials Engineering and Management was won by Ionela Monica Ilie, second year student – Economic Engineering in Mechanics, for the paper *Research on Biodegradable*

Metallic Materials Used as Implants in Bone Reconstruction, while the first prize in Welding Engineering and Industrial Safety was won by Cristiana Anina Cabaș, second year master student – Work Safety and Work Health Engineering, for the paper *Constructive Solution for the Protection Helmet*.



Referring to the students' performance, it is worth mentioning the names of the students of the Faculty of Materials Science and Engineering with top annual averages at the end of the academic year 2018-2019: Ioan Gheorghe Motrescu, first year master student – study program Engineering and Management of Advanced Metallic, Ceramic and Composite Materials, and Robert Ionuț Popa, second year master student – the study program of Work Safety and Work Health Engineering.

Prof. Dr Teodor MACHEDON-PISU, Dean of the Faculty of Materials Science and Engineering

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THE EXOTIC IN THE MODERNIST IMAGINARY A CONCERT AT THE MULTICULTURAL CENTER

On 23 August, Adriana Paler (piano) and Bogdan Scurtu (clarinet) presented a novel program featuring European music from the first half of the twentieth century influenced by the eccentricity of foreign lands: polyrhythms inspired by the Brazilian samba (in the music of French composer Darius Lilhaud), African art (Francis Poulenc) or the neo-rocco textures infused into the music of Serghei Prokofiev, a composer known for creating music for the shows of Serghei Diaghilev's Ballets Russes.



Winner of 27 awards in national and international competitions, Adriana Paler has performed in Germany, Cuba, Switzerland, Italy, France, England, Croatia, Portugal, Luxembourg, among other countries, and has recorded at the ORF radio studios in Vienna. In 2016, Adriana performed Kurtag for Kurtag, in the composer's anniversary concert. Adriana graduated from the University of Vienna, where she studied piano with professor Noel Flores.

Bogdan Scurtu has performed in venues such as Carnegie Hall, Merkin Hall, Lincoln Center and has appeared in concerts along with David Argento Ensemble, Contemporary Chamber Players, Palm

Beach Opera, Southwest Florida Symphony and the former Florida Philharmonic.



He is currently a professor at the American University of the Middle East (AUM) in Kuwait. He graduated from Stony Brook University in New York, where he studied clarinet with Professors Daniel Gilbert and Alan Kay and composition with prof. Sheila Silver.



Dr Maria GHIURȚU
The Multicultural Center of Transilvania University

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SUCCESSFUL ALUMNI - IMRE LAJOS

Imre Lajos, a graduate of the Faculty of Civil Engineering of our university, the study program Civil, Industrial and Agricultural Constructions at the class of 2015-2019, was born on 20 March 1996, in Braşov.



He graduated "Áprily Lajos" High School in Braşov, Mathematics – Information Science.

As an undergraduate student, he participated in various research activities and events organized by the Faculty of Civil Engineering, in local and national contests, such as:

- "Andrei Ioachimescu" National Student Contest in Mechanics, the 2016 edition, the national stage, the section Constructions, where he won the first prize and *Professor Dumitru I. Mangeron* award;

- "C.C. Teodorescu" Professional Student Contest, the 35th edition, 2017, the national stage, Strength of Materials, where he won the third prize;

- CADRE - the Contest for scale models for bridges and wooden frames, the fourth edition, 2018, the section Farms, where he obtained the first prize;

- the 2016 edition of the Students' Conference, where he was awarded the first place at the Faculty

of Civil Engineering, with the paper *Curves and Surfaces Applied to the Construction of a Student Aula Magna*, co-author, coordinated by Dr Monica Purcaru;

- the 2017 Students' Conference, where he obtained the first prize at the Faculty of Civil Engineering, with the paper *The Study of Tensegrity Arches*, coordinated by Dr Adam Dósa;

- "Carpatcement Professional Awards", the 13th edition, the Faculty of Civil Engineering of Braşov, where he occupied the third place;

- AFCO 2018 – Graduates Meet Companies, first prize for the section Constructions, with the paper *Cylindrical Roof on Tensegrity Structure*, coordinated by Dr Adam Dósa.

In 2018 and 2019 he took part in the sixth and seven editions of the International Conference "Contemporary Achievements in Civil Engineering" in Subotica, Serbia, where he presented, alongside his coordinators, papers in the field of the mechanics of structures of civil constructions that he co-authored: *A tensegrity structure for a cylindrical roof* and *Comparative analysis of three solutions for torsion reduction in case of flexible tube concrete structures*.

Lajos is currently a master student in the program Energy Upgrading for the Built Environment at the Faculty of Civil Engineering of our university.

Assist. Prof. Dr Eng. Adam DÓSA
Faculty of Civil Engineering

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