

Quarterly report - covers the period from 01.07.2022 to 30.09.2022

✓ **Task 1. Organisation of mobilities**

In III quartile of 2022, meetings of the Recruitment Team for Mobilities were held remotely. The Team positively assessed the following applications:

- ✓ 01.08.2022 MSc. Błażej Płomiński, mobility to Adana Alparslan Türkeş Science and Technology University.

In addition, on July 20, 2022, a list of people from partner universities who expressed their willingness to participate in the closing conference was sent to the members of the Mobility Recruitment Team. All submissions (23 mobilities and 3 remote participations) were accepted.

On 1/08/2022, the application was submitted by Prof. Magdalena Dobiszewska, which planned a research visit to Adana Alparslan Türkeş Science and Technology University. However, due to the lack of funds available under Task No. 1, she asked for the application to be withdrawn.

At 01/09/2022 Prof. Magdalena Dobiszewska informed that MSc. Błażej Płomiński will not go to Adana, he also resigned from participation in the closing conference.

In the III quarter of 2022, the following people took part in mobilities as part of the EcoSET Project:

- ✓ Sanling Zuo – internship at Aarhus University, 15.07-15.08 2022
- ✓ Narayanan Santhanam – internship at Aarhus University, 17.07-16.08 2022
- ✓ Muhammed Samil Acar – internship at the University of Molise, 01.06-31.07.2022
- ✓ Tobias Kettrukat from Aarhus University – internship at Bydgoszcz University of Science and Technology, 03.04-30.07.2022
- ✓ Andrej Batik from Mendel University in Brno – study visit at Bydgoszcz University of Science and Technology, 18.06-01.07.2022

- ✓ Mengjun Wu z University of Molise – internship at Bydgoszcz University of Science and Technology, 14.06-13.08.2022

✓ **Task 2. Subsidising common scientific publications.**

In the III quarter of 2022, meetings of the Publication Evaluation Team were held remotely. As a result, the following applications were accepted:

Faculty of Animal Breeding and Biology

- Prof. Beata Sitkowska: „The optimal level of factors for high daily milk yield in automatic milking system”, co-author from Ondokuz Mayıs University, Livestock Science, <https://doi.org/10.1016/j.livsci.2022.105035>
(IF= 1,929; 140 points),
- PhD. Jakub Biesek: “Forecasting Milking Efficiency of Dairy Cows Milked in an Automatic Milking System Using Decision Tree Technique”, Poultry Science, <https://doi.org/10.1016/j.psj.2022.102094>
(IF=3,352; 140 points)
- Prof. Aleksandra Dunisławska: “Mitochondrial dysfunctions and potential molecular markers in sport horses”, International Journal of Molecular Sciences, <https://doi.org/10.3390/ijms23158655>
(IF=6,208; 140 points)
- Prof. Hasan Önder: “Farmers' risk perception on climate change: Transhumance vs semi-intensive sheep production systems in Türkiye”, co-author from Ondokuz Mayıs University and PBŚ, Animals, <https://doi.org/10.3390/ijms23158655>
(IF=3,231; 100 points)
- Prof. Dariusz Piwczyński: “Genetic parameters for methane emission using indirect prediction of methane and its association with milk and milk composition traits”, Animals, <https://doi.org/10.3390/ani12162073>
(IF=3,231; 100 points)

- Prof. Beata Sitkowska: „Macromolecules Influence Cellular Competence and Expression Level of IGFs Genes in Bovine Oocytes in Vitro”, co-author from Ondokuz Mayıs University, Livestock Science, <https://doi.org/10.3390/ani12192604> (IF= 3,231; 100 points),
- Prof. Hasan Önder: “Comparison of Random Regression Models with Different Order Legendre Polynomials for Genetic Parameter Estimation on Race Completion Speed of Arabian Horses”, co-authors from PBS and Ondokuz Mayıs University, Animals, <https://doi.org/10.3390/ani12192630> (IF=3,231; 100 points)

Faculty of Civil and Environmental Engineering and Architecture

- PhD. Jacek Sztubecki: „Experimental Research of the Structure Condition Using Geodetic Methods and Crackmeter”, co-author from Adana Alparslan Türkeş Science and Technology University, Applied Sciences, <https://doi.org/10.3390/app12136754> (IF= 2,838; 100 points),
- PhD. Szymon Topoliński: „Exploring the effect of basalt fibers on maximum deviator stress and failure deformation of silty soils using ANN, SVM and FL supported by experimental data”, co-author from Adana Alparslan Türkeş Science and Technology University, Advances in Engineering Software, <https://doi.org/10.1016/j.advengsoft.2022.103211> (IF= 4,255; 140 points),
- Prof. Magdalena Dobiszewska: „Toughness and Splitting Tensile Strength based optimisation of steel fiber reinforced concrete incorporating silica fume – using response surface method”, co-author from Adana Alparslan Türkeş Science and Technology University, Materials, <https://doi.org/10.3390/ma15186218> (IF= 3,748; 140 points)
- PhD. Jarosław Górecki: „ Determination of Green Building Awareness: A Study in Turkey”, co-author from Adana Alparslan Türkeş Science and Technology University, Sustainability, <https://doi.org/10.3390/su141911943> (IF= 3,889; 100 points),

✓ **Task 3. Subsidising participation in international conferences**

Faculty of Civil and Environmental Engineering and Architecture:

Remote participation in **WMCAUS 2022 7th World Multidisciplinary Civil Engineering – Architecture – Urban Planning Symposium.**

PhD. Iga Grześkow

- GENESIS AND METHODS OF BUILDING A THEMATIC IDENTITY OF A GREEN PUBLIC SPACE OF THE MUSIC DISTRICT IN BYDGOSZCZ
- PIASTOWSKI SQUARE IN BYDGOSZCZ AS AN EXAMPLE OF A PUBLIC SPACE THAT KEEPS THE IDENTITY OF A PLACE

MSc. Agnieszka Grzybowska

- STRENGTHENING BUILDING STRUCTURES SUBJECT TO FIRE CONDITIONS ON THE EXAMPLE OF SELECTED CASES

PhD. Justyna Sobczak-Piąstka

- INCREASE IN CRACK RESISTANCE OF BENDING REINFORCED-CONCRETE ELEMENTS BY LOCAL DISPERSAL REINFORCEMENT OF THE TENSILE ZONE
- CHANGING THE POSITION OF THE NEUTRAL LINE OF BEAMS MADE OF GLUED WOOD IN CONDITIONS OF OBLIQUE BENDING
- THE PARADOX OF THE BEAUTIFUL OR THE ART PARADOX

Prof. Jan Kempa (in cooperation with the University of Beira Interior)

- RESEARCH OF THE IMPACT OF BUMPS ON VEHICLE SPEED
- EU AND PORTUGUESE CYCLING STRATEGY FOR SUSTAINABLE URBAN MOBILITY

PhD. Alina Lipowicz-Budzynska

- STRUCTURAL GLASS AND THE FORM OF AN ARCHITECTURAL OBJECT
- IMAGE USING INTERFERENCE EFFECTS IN THE GLASS FAÇADE

PhD. Aleksander Filip Furmanek

- THE 3D PRINTING OF MODELS AS THE METHOD OF INCREASING THE QUALITY IN THE ARCHITECTURAL DESIGN
- SPECIFIC PROBLEMS OF THE CULTURAL HERITAGE ON THE EXAMPLE OF THE ADAPTIVE REUSE ARCHITECTURE DESIGN OF THE MANOR HOUSE IN SICIENKO

- THE GREENERY AROUND THE OLD TOWN OF TORUN IN AN ALTERNATING PROCESS OF CHANG

Faculty of Animal Breeding and Biology:

73rd Annual Meeting of the European Federation of Animal Science (EAAP) 2022 in Porto, Portugal – participation of 5 people (PhD Magdalena Kolenda, Prof. Ewa Grochowska, Prof. Aleksandra Dunisławska, Sanling Zuo, Niloofar Akhavan), 4 on site participation, one remote participation. Presentations and posters were presented.

✓ ***Task 4. Organisation of a closing conference to sum up the Project***

On September 12-14, 2022, the closing conference summarising the Project was held on the campus of the Bydgoszcz University of Science and Technology (PBS).

As part of the two-day conference, 33 papers were presented in 3 thematic sessions covering the following disciplines: Civil engineering and transport, Animal science and fisheries, Fine arts and conservation. 13 posters were also presented.

On Monday, September 12, 2022, three exhibitions of partner Ondokuz Mayıs University employees were officially opened: an exhibition of graphic works by prof. dr hab. Ali Seylana - Dean of the Faculty of Fine Arts, the exhibition of illustrations by dr hab. Özlem Ayvaz Tunc and a collective exhibition of posters by employees and students of the Faculty of Fine Arts - "Environmental posters".

At the end of the ceremony, an exhibition of works by students and employees of the Department of Interior Design of the Faculty of Design Arts of PBS was opened. The idea of the exhibition was, like the EcoSET project itself, the broadly understood idea of ecology and sustainable development. The works also touched upon the problem of the war in Ukraine.

Among the lecturers of the Department of Interior Design, their artworks were presented by: Prof. Aleksandra Simińska, Prof. Anna Frackowicz, Ariel Śliwiński, MA, Agnieszka Walther, MA, and Mikołaj Lubczyński, MA.

The honorary patronage over the event was taken by the Mayor of the City of Bydgoszcz, Mr Rafał Bruski. Media patronage was held by: TVP Bydgoszcz and Polish Radio PiK

✓ ***Other activities:***

- ✓ The summary of costs in the II quartal broken down by Faculties and tasks was prepared (as of 30.09.2022).