

Newsletter 7 / October 2023 - February 2024

Erasmus+ Capacity Building of Higher Education
Synergy of educational, scientific, management and industrial components for climate
management and climate change prevention/ CLIMAN
619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP

NEWSLETTER 7

October 2023 - February 2024

In this issue you will find news and updates of all partners:

- Collective monograph "Education, science and industry on the road to prevention, adaptation and mitigation of climate change"
- Start of the students` mobility at Turiba University
- Discussion of Students Mobility at HTW-Berlin, Germany
- News from West Ukrainian National University
- News from KROK University
- News from Turiba University
- News from Akaki Tsereteli State University
- News from Kharkiv National Automobile and Highway University



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Synergy of educational, scientific, management and industrial components for climate management and climate change prevention/ CLIMAN 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP

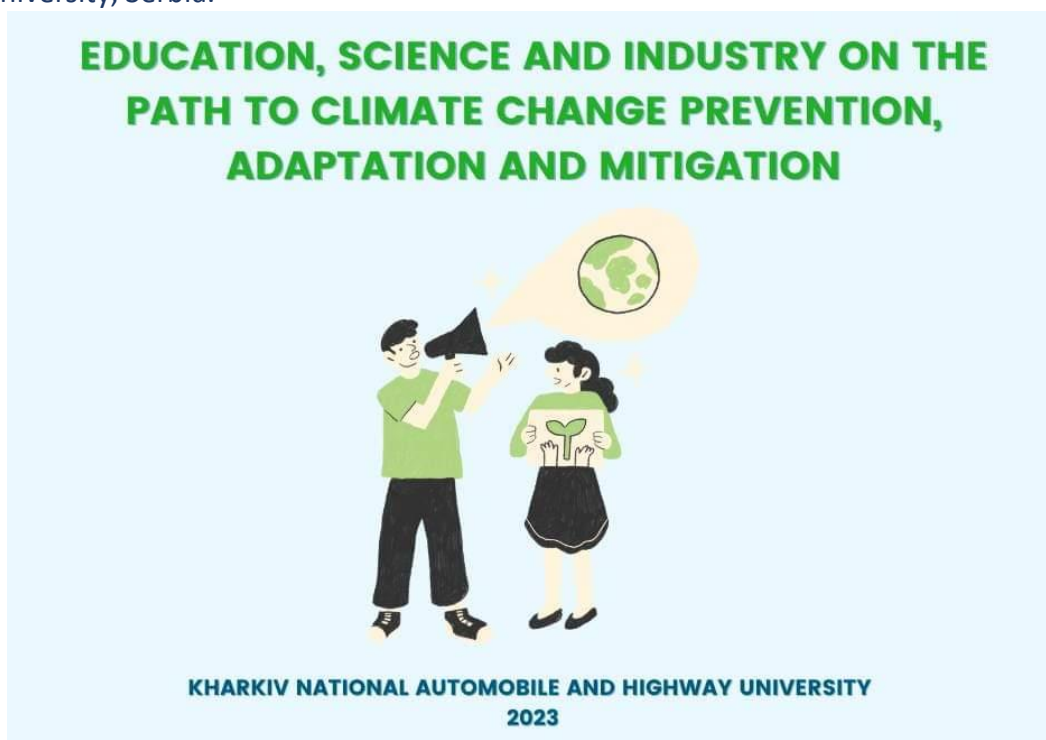
The collective monograph

"Education, science and industry on the road to prevention, adaptation and mitigation of climate change: collective monograph"

The first stage of the international project ERASMUS K2 Erasmus + CLIMAN is completed. Under the general leadership of the team of the Kharkiv National Automobile and Highway University, as the owner of the package, electronic and printed versions of the collective monograph have been prepared in Ukrainian and English.

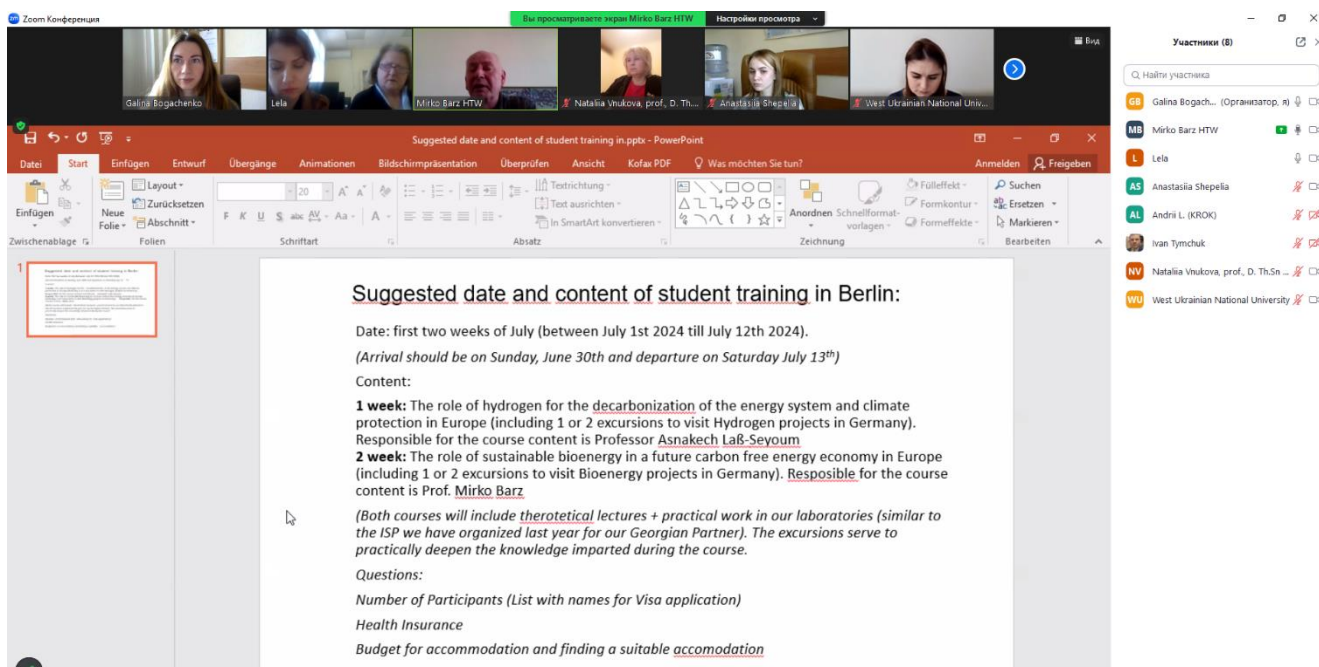
The collective monograph "Education, science and industry on the road to prevention, adaptation and mitigation of climate change: collective monograph (Engl. edition) / by general ed. N. Vnukova, G. Zhelnovach. " was prepared by researchers from partner universities of the international ERASMUS+ project "Synergy of educational, scientific, managerial and industrial components for climate management and climate change prevention / CLIMAN" 619119-EPP-1-2020 -1-NL-EPPKA2-CBHE-JP. The publication highlights the results of own research on the general issues and origins of global climate change, sectoral issues of sustainable development, the implementation of natural based solutions, the application of innovative approaches to energy support for the development of transport, agriculture and waste disposal.

The monograph is intended for a wide range of readers who are interested in the problems of global climate change, as well as ways of possible prevention, adaptation and mitigation of the climate change consequences. Reviewers: Anatoliy HRYTSENKO – Doctor of Geographical Sciences, Professor, Director of the Research Institute "Ukrainian Scientific Research Institute of Ecological Problems", Ukraine Yuliia ZGHURSKA – Deputy Director of the International Cooperation Department of Kharkiv City Council, Ukraine Mira PUCAREVICH – Professor, Dean of the Faculty of Environmental Protection, Educons University, Serbia.



Synergy of educational, scientific, management and industrial components for climate management and climate change prevention/ *CLIMAN 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP*

Discussion of students` mobilities at HTW-Berlin



Suggested date and content of student training in Berlin:

Date: first two weeks of July (between July 1st 2024 till July 12th 2024).
(Arrival should be on Sunday, June 30th and departure on Saturday July 13th)

Content:

1 week: The role of hydrogen for the decarbonization of the energy system and climate protection in Europe (including 1 or 2 excursions to visit Hydrogen projects in Germany). Responsible for the course content is Professor Asnakech Laß-Seyoum

2 week: The role of sustainable bioenergy in a future carbon free energy economy in Europe (including 1 or 2 excursions to visit Bioenergy projects in Germany). Responsible for the course content is Prof. Mirko Barz

(Both courses will include theoretical lectures + practical work in our laboratories (similar to the ISP we have organized last year for our Georgian Partner). The excursions serve to practically deepen the knowledge imparted during the course.

Questions:

Number of Participants (List with names for Visa application)

Health Insurance

Budget for accommodation and finding a suitable accommodation

On February 29, 2024, in the frameworks of the EU Erasmus+ project CLIMAN/ "Synergy of educational, scientific, management and industrial components for climate management and climate change prevention", Online Management Meeting to discuss the students mobility was organized.

Mirko Barz presented the concept of the future event at HTW Berlin - University of Applied Sciences, Germany, that will take place in July 2024. The content of the mobility will include learning of the role of hydrogen for the decarbonisation of the energy system and climate protection in Europe, the role of sustainable bioenergy in a future carbon free energy economy in Europe. The mobility will include excursions to hydrogen and bioenergy projects in Germany. The challenge for organization of mobility is to find accommodation for the students. The partners will meet in two weeks to continue discussion.

Newsletter 7 / October 2023 - February 2024

Georgian and Ukrainian students started 2-week mobility at Turiba University



On March 4, 2024, 21 students from various universities in Georgia and Ukraine arrived at Turiba University for a two-week study mobility. As part of this mobility, students participate in lectures, practical sessions and educational visits to explore the theme of sustainable entrepreneurship, learning to generate and develop sustainable business ideas on their own.

Those students come from 6 different universities, including 4 in Ukraine: Kharkiv National Automobile and Infrastructure University, Lviv Polytechnic National University, and West Ukrainian National University, and 2 in Georgia: Akaki Tsereteli Kutaisi State University and Batumi Shota Rustaveli State University.

Representing diverse fields, ranging from ecological studies to pedagogy and engineering, these students emphasize sustainability as a cornerstone of any study program. Turiba University, focusing specifically on business education, provides students with insights into integrating and creating sustainable entrepreneurship.

During their 2-week stay in Latvia, students will familiarize themselves with Turiba, Riga, engage in various study visits and excursions, meet entrepreneurs, and participate in practical sessions.

NEWS FROM WUNU

Presentation of the Climate Management Center at West Ukrainian National University



In *November 2023*, a **presentation of the activities of the Climate Management Centre**, which was established within the framework of the Erasmus+ project "Synergy of educational, scientific, management and industrial components for climate management and climate change prevention / CLIMAN" 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP, was held at the Education and Research Institute of Innovation, Nature Management and Infrastructure of West Ukrainian National University (WUNU).

The meeting was attended by Jan van Zwieten, Chief Coordinator of the CLIMAN project, Rector of the Netherlands Business Academy; Professor Myroslav Malovanyi, member of the CLIMAN project partner consortium, Head of the Department of Ecology and Sustainable Environmental Management at Lviv Polytechnic National University; students and teachers of the Department of Agribiotechnology, Department of Ecology and Health of WUNU.

Olena Borysiak, project coordinator from WUNU, and Ulyana Tkach, coordinator of the Center, spoke about the purpose and activities of Climate Management Center. The centre's work is aimed at ensuring

Synergy of educational, scientific, management and industrial components for climate management and climate change prevention/ *CLIMAN 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP*

Newsletter 7 / October 2023 - February 2024

the synergy of educational, scientific, managerial and industrial components for climate management and climate change prevention.

The main areas of activity of the Climate Management Centre of WUNU are: organisation of research in the field of climate management; promotion of the development and strengthening of the institutional capacity of partner universities to develop recommendations for the industrial, transport, energy, agricultural, tourism sectors of the economy and local authorities in the field of climate change prevention; modernisation of curricula by developing new and innovative courses and methodologies with a focus on the interdisciplinary priority of climate change.

During the presentation of the activities of Climate Management Center of WUNU, CLIMAN Chief Coordinator Jan van Zwieten presented students majoring in Agronomy and Environmental Safety and Protection with certificates of participation in the international summer school "Technological and Economic Aspects of Climate Change Adaptation Strategy", which was organised at Lviv Polytechnic National University as part of the project "Synergy of educational, scientific, management and industrial components for climate management and climate change prevention / CLIMAN" 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP

Repair of energy crops plantations



Synergy of educational, scientific, management and industrial components for climate management and climate change prevention/ *CLIMAN 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP*

Newsletter 7 / October 2023 - February 2024

In *September 2023*, students of the master's programme "**Agronomy**" of **West Ukrainian National University** carried out repairs of energy crops plantations (miscanthus, paulownia, fast-growing poplar, energy willow).

The event was organised within the framework of the Erasmus+ project "Synergy of educational, scientific, management and industrial components for climate management and climate change prevention / CLIMAN" 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP.

NEWS FROM KROK UNIVERSITY

Piloting the course within CLIMAN project



Students of "KROK" University continue to join the global trend on Sustainability. Thus, *in January 2024*, the **piloting of another course, "Climate Entrepreneurship"**, developed within the framework of the EU Erasmus+ project CLIMAN/"Synergy of educational, scientific, management and industrial components for climate management and climate change prevention" (author: PhD in Economics, Associate Professor Olena Naumova) has started. 32 students of the educational program "Management (English)" chose the course as elective one to study in the spring semester of 2023-2024.

Newsletter 7 / October 2023 - February 2024

Also, 10 students of educational program "Management (English)" (4th year) started the course "Sustainable Strategic Management", developed by PhD in Economics, Associate Professor Olena Bielova, and piloted last semester.

ECO LOTOS Together with the Holosiivskyi National Nature Park held a Discussion Panel



Recently, as part of the Month of Ecology, a **discussion panel** was held with the participation of students from the KROK University's Professional College on the topic «Environmental Challenges of the Present: Ukrainian Contexts».

The event was held within the framework of the Erasmus+ project «CLIMAN/ Synergy of educational, scientific, management and industrial components for climate management and climate change prevention».

The meeting was moderated by Serhii Khara, Head of the Environmental Education Department of the Holosiivskyi National Nature Park, who, together with the leaders of LOTOS, Sophia Vengrynovych and Pavlo Lebediev, and the leader of SSC, Denys Shtak, discussed with the speakers the important environmental issues that Ukrainian society is facing today. The topics of the reports were diverse and relevant.

ROUND TABLE: "The impact of the war on the environment of Ukraine"



On October 24, 2023, the updated team of the Like-minded Ecological Club "LOTOS", within the framework of the Erasmus+ project «CLIMAN/ Synergy of educational, scientific, management and industrial components for climate management and climate change prevention», together with student activists of the University's College of Professional Studies, held a Round Table on the topic: "The impact of war on the environment of Ukraine".

The participants of the meeting revealed various aspects of the topic, namely: air pollution, fire danger, the consequences of blowing up the Kakhovskaya HPP, excessive use of natural resources, as well as

Synergy of educational, scientific, management and industrial components for climate management and climate change prevention/ CLIMAN 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP

Newsletter 7 / October 2023 - February 2024

the impact of war on soil and animal life. The students' presentations reflected not only the urgency of solving the problems, but also the opportunities and initiatives that are already being implemented to reduce their consequences.

This event made it possible to expand the knowledge of the participants about environmental issues in the context of the war. Students offered interesting ideas and perspectives that will help to better understand this issue and find new ways to solve it further.

The beginning of Ecology Month in the College: training by psychotherapist Olga Sandal



On *October 31, 2023*, a **training** within the framework of the Erasmus+ project «CLIMAN/ Synergy of educational, scientific, management and industrial components for climate management and climate change prevention», was held for the students of the College by the psychotherapist, moderator of the NPA division "Psychology of Eating Behavior", member of the Board of Directors of the National Psychological Association, Mrs. Olga Sandal.

Topic of the meeting: "Care for psychological health". It is nice that this motivating and supportive event started the activities of the Ecology Month in the College and was held with the support of the LOTOS ECO team.

Olga Sandal shared with the students her experience and practical recommendations for maintaining mental health, how to cope with stress, revealed the factors influencing eating behavior and strategies for food ecology, and also emphasized the importance of a healthy lifestyle and regular physical activity. We express our gratitude to Ms. Olga for her useful knowledge and support.

We are grateful for active involvement of students in the event and the large number of questions to the specialist convincingly testified to the importance and relevance of the issues that were raised during the training!

Ecology month at the Professional College: eco-quest from "ECO LOTOS"



An extremely motivating and creative **eco-quest was held by the Ecological Club** of Like-minded People "ECOLOTOS" within the framework of the Erasmus+ project «CLIMAN/ Synergy of educational, scientific, management and industrial components for climate management and climate change prevention». Our best, bravest students took part in all the activities of the competition!

They performed the assigned tasks diligently and as a team, and easily found answers to all questions related to ecology. Groups competed against each other, collaborating and exchanging ideas to come up with the best solutions and earn maximum points for participating in the quest. Therefore, not only the overall result, but also the speed and accuracy of the task became important criteria for determining the winners. This eco-quest became an interesting and educational activity for students. And team spirit and zeal became a real guarantee of achieving the best results.

We thank all the participants of the event and, of course, only forward, together to Victory!

[Newsletter 7 / October 2023 - February 2024](#)

NEWS FROM TURIBA UNIVERSITY

Launching of digital handbook “Sustainable entrepreneurship for climate action”



Sustainable entrepreneurship is crucial today, because it aligns business success with long-term societal and environmental well-being, fostering positive impact. The future belongs to sustainable entrepreneurs – they are the driving force behind innovative solutions that balance economic prosperity, social equity, and environmental leadership. As global challenges like climate change intensify, sustainable entrepreneurs hold the key to creating resilient businesses that contribute positively to society and the environment.

But how to teach our students sustainable business? How to help them to brainstorm and develop sustainable business ideas? ERASMUS+ SECA project partner – Turiba University from Latvia, Aachen University of Applied sciences from Germany and Lapland University of Applied Sciences from Finland joined their forces to develop teaching material on sustainable business models.

SECA Guide is the digital handbook on innovating sustainable start-ups and businesses for climate action. This guide empowers educators, students, entrepreneurs and businesses with the knowledge and tools necessary to create and develop sustainable business ideas and models.

In this handbook you will find a comprehensive methodology that walks you through the process of innovating and building sustainable businesses aligned with climate action. This will be helpful material for any lecturer or trainer who is teaching business, economics, development, sustainability subjects. Also, it will be useful for anyone who is interested to develop sustainable business ideas.

Synergy of educational, scientific, management and industrial components for climate management and climate change prevention/ CLIMAN 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP

Newsletter 7 / October 2023 - February 2024

You will find in SECA guide different methodologies, step-by-step instructions, worksheets, links to supporting videos and other resources.

Download full guide or explore teaching material on webpage in 4 languages:
https://sustainable.turiba.lv/?page_id=1909

NEWS FROM AKAKI TSERETELI STATE UNIVERSITY

Students of the "Environmental Protection Technologies" Master's Program of Akaki Tsereteli State University are the owners of the "Green Scholarship"



The "Climate Management Center" of Akaki Tsereteli State University, established within the CLIMAN project, actively cooperates with state structures and non-governmental organizations.

During the years 2022-2026, within the framework of the large-scale initiative of the United Nations Development Program (UNDP) "Reducing the risk of disasters caused by climate change in Georgia", the **Center for Environmental Information and Education of the Ministry of Environment and Agriculture of Georgia will award a "green scholarship" to successful master's students** in the field of environmental science. The project is implemented with the support of the Green Climate Fund (GCF), the governments of Georgia, Sweden, and Switzerland.

Newsletter 7 / October 2023 - February 2024

In 2022, four outstanding students of the Master's program "Environmental Protection Technologies" received the "Green Scholarship", and with the same approach, the scholarship was awarded for 2023. The Center awarded four students of Akaki Tsereteli State University within the framework of the "Green Scholarship" program.

Khatia Kharazishvili, Mariam Undilashvili, Giorgi Maglapheridze and Dimitri Dvaladze are students of the "Environmental Protection Technologies" master's program, who successfully completed the "Climate Management" module developed within the framework of the **CLIMAN project**. These students were awarded "Green Scholarship", as a result of their high academic performance.

As part of a large-scale initiative of the United Nations Development Program (UNDP), the students also received a 3-day training session on the topic of "Climate Change Disaster Risk Management and the Importance of Hazard Risk Mapping".

NEWS FROM KHARKIV NATIONAL AUTOMOBILE and HIGHWAY UNIVERSITY

International academic mobility of masters with the support of the European project CLIMAN

With the support of the European project "Synergy of educational, scientific, managerial and industrial components for climate management and mitigation" 619119-EPP-1-2020-1-NL-EPPKA2-CBHE-JP (CLIMAN), whose priorities are to modernise the curriculum by developing new and innovative courses and methodology, interdisciplinary priority - climate change, on 3 March 2024, academic mobility of masters studying under the programme "Environmental Safety" began at Turība University (Riga, Latvia) (the Department of Ecology provides educational support and implementation of the educational programme). EU funding programme: European Neighbourhood Instrument (Erasmus+: KA2 CBHE). The academic mobility programme is very rich and includes a course of lectures and practical classes on the circular economy, climate-neutral technologies, waste recycling, as well as modern methods of managing business models with regard to sustainable development goals. The University of Turība hosted a large team of young people from different countries who are not indifferent to the climate future of the planet. University teams represent Georgia from Kutaisi and Tbilisi, and Ukraine by teams from Kyiv, Kharkiv, Ternopil and Lviv. More than 20 young future specialists will work with the same future specialists from Turība University on the issues of sustainable development goals, innovative technologies of the future, and energy security under the guidance of renowned scientists.

Tetiana Shypa, a master's student of the Department of Ecology, handed over monographs prepared as a result of the project to Christina Neumann, Head of the Project Department at Turība University, on behalf of the KhNADU project team. We look forward to hearing more about the CLIMAN academic mobility program.