

AGENDA

of the training activities at Dnipro University of Technology (DUT) on-line via distance platform Zoom in the frame of Educational Project “**EcoMining: Development of Integrated PhD Program for Sustainable Mining & Environmental Activities**”
05 – 09.10.2020

05.10.2020, Monday

| | | |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Venue: DUT, Department of Ecology and Environmental Technologies, 10/710 | | |
| 10.00 | Welcome introduction to the Project Lecture: “ Plant–Soil Interactions for Phytotechnologies ” | Prof. Dr. Hermann HEILMEIER , TU Bergakademie Freiberg (TU BAF), Germany |
| 10.40 – 11.00 | Questions and discussion | Moderator: Prof. Dr. Oleksandr KOVROV , DUT, Ukraine |
| 11.00 – 12.20 | Consultative work with PhD students on the topic: “ Phytoremediation of Disturbed Lands ” Discussion, on-line participants | Moderator: Dr. Iryna KLIMKINA , DUT, Ukraine Presenter: Serhii KRASOVSKYI , PhD student, DUT, Ukraine |
| 12.20 – 13.30 Break | | |
| 13.30 – 16.00 | Practical training on-line on the topic: “ GIS-Technologies and Remote Sensing for Environmental Assessment ” Field trip video Discussion, on-line participants | Moderators: Dr. Yurii BUCHAVYI , DUT, Ukraine, and Dr. Viktoriia LOVYNSKA , DSAEU, Ukraine Presenter: Mykhailo SVIDENIUK , PhD student, State Institution “Scientific Centre for Aerospace Research of the Earth”, Institute of Geological Science of the National Academy of Science of Ukraine, Kyiv, Ukraine |

06.10.2020, Tuesday

| | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Venue: DUT, Department of Ecology and Environmental Technologies, 10/710 | | |
| 10.00 | Lecture: “ Suitability of Second Generation Biofuel Grasses for Post-Mining Land Remediation and Phytomining ” | Prof. Dr. Mykola KHARYTONOV , Dnipro State Agrarian and Economic University (DSAEU), Ukraine |
| 10.40 – 11.00 | Questions and discussion | Moderator: Prof. Dr. Oleksandr KOVROV , DUT, Ukraine |
| 11.00 – 12.20 | Practical training on-line on the topic: “ Some Methods of Field Geobotanical Research Used to Assess the State of Disturbed Lands ” Field trip video | Dr. Nadiia MARTYNOVA , Botanical Garden of Oles Honchar Dnipro National University (DNU) |
| 12.20 – 13.30 Break | | |
| 13.30 – 16.00 | Consultative work with PhD students on the topic: “ Breeding and Cultivation of a Hybrid of Sugar and Broom Sorghum on Marginal Lands for the Production of Solid Biofuel ” Field trip video Discussion, on-line participants | Moderators: Prof. Dr. Mykola KHARYTONOV , Dr. Nadiia MARTYNOVA Presenter: Maksim NOSOV , PhD student, DSAEU / Institute of Grain Crops UAAS, Ukraine |

07.10.2020, Wednesday

| | | |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Venue: DUT, Department of Ecology and Environmental Technologies, 10/710 | | |
| 10.00 | Lecture: " Responsible Mining: Case Studies " | Prof. Dr. Carsten DREBENSTEDT , TU BAF, Germany |
| 10.40 – 11.00 | Questions and discussion | Moderator: Prof. Dr. Oleksandr KOVROV , DUT, Ukraine |
| 11.00 – 12.20 | Consultative work with PhD students on the topic: " Responsible Mining " Discussion, on-line participants | Moderator: Dr. Oleksii LOZHNIKOV , DUT, Ukraine Presenter: Vladyslav KARDASH , PhD student, DUT |
| 12.20 – 13.30 Break | | |
| 13.30 – 15.00 | On-line meeting on the topic: " Sustainable Mining: European and Ukrainian Experience " Alumni of the double Ukrainian and German Master Programs; Former participants of the Biomining Project; Present employees of the German Industry | Speakers: M.Sc. Danylo LYSENKO , Junior Mine Planning Engineer by MIBRAG mbH (Mitteldeutsche Braunkohlengesellschaft mbH), and M.Sc. Yeugen CHEBLIA , werkstudent, abteilung PM (Project management), Schaeffler Group |

08.10.2020, Thursday

| | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Venue: DUT, Department of Ecology and Environmental Technologies, 10/710 | | |
| 10.00 | Lecture: " Application of the Environmental Monitoring System in the Industrialised Regions with Mining Activity " | Dr. Pavlo KHAZAN , Member of Dnipropetrovsk Regional Council, Environment & Energy Committee |
| 10.40 – 11.00 | Questions and discussion | Moderator: Dr. Iryna KLIMKINA , DUT, Ukraine |
| 11.00 – 12.00 | Lecture: " Phytotechnologies for Mining Applied in Ukraine " | Prof. Dr. Oleksandr KOVROV , DUT, Ukraine |
| 12.00 – 12.20 | Questions and discussion | Moderator: Dr. Iryna KLIMKINA , DUT, Ukraine |
| 12.20 – 13.30 Break | | |
| 13.30 – 16.00 | Consultative work with PhD students on the topic: " Environmental Problems in Mining and Land Restoration " Discussion, on-line participants | Moderator: Prof. Dr. Oleksandr KOVROV , DUT, Ukraine Presenter: Kyrylo ZVORYHIN , PhD student DUT, Ukraine |

09.10.2020, Friday**Workshop: "Case-studies and advanced research in the field of sustainable mining"**

| | | |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Venue: DUT, Department of Ecology and Environmental Technologies, 10/710 | | |
| 10.00 – 10.20 | Welcoming greetings: Consul of German Embassy DAAD representative in Dnipro Vice Rector DUT on International Affairs | Stefan KEIL , Consul General, German Consulate General in Dnipro Susanne BANDAUF , DAAD Lector Prof. Dr. Oleksandr SHASHENKO |
| 10.20 – 11.00 | Lecture: " Tailing management facilities and their safety " | Dr. Oleksandra LOHUNOVA , Head of "Sustainable Development Platform" NGO, Consultant to the UNECE Industrial Accidents Convention, Intern of the International Commission for the Protection of the Danube River, Austria |

| | | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.00 – 11.20 | Questions and discussion | Moderator: Prof. Dr. Oleksandr KOVROV , DUT, Ukraine |
| 11.20 – 12.20 | Discussion: “ How to design an experiment and poster? ” | Moderator: Prof. Dr. Hermann HEILMEIER , TU BAF, Germany |
| 12.20 – 13.30 Break | | |
| 13.30 | P.1. Features of sulfur content and its changes in coal seams of the Lviv-Volyn basin | Sofiia MOSKALENKO , PhD student, DUT, Dep. of Geology and Mineral Prospecting |
| 13.45 | P.2. Kinetic and capacitive characteristics of natural sorption materials | Oleksandr VALIAEV , PhD student, Institute of Geotechnical Mechanics named by N. Poljakov of National Academy of Sciences of Ukraine, Dnipro, Ukraine |
| 14.00 | P.3. Phytostabilization and Herbicide-Free Weed Control on Railways | Alla SAMARSKA , PhD student, Academician V. Lazarian Dnipro National University of Railway Transport |
| 14.15 | P.4. Tree Canope Affects Soil Macrofauna Spatial Patterns on Broad and Mesoscale Levels in Eastern European Poplar-Willow Forest | Yuliia ZHUKOVA , PhD student, Oles Honchar Dnipro National University |
| 14.30 | P.5. Development of ceramic materials for the manufacture of bricks with stone cutting sludge from granite | Volodymyr SHAMRAI , PhD student, Zhytomyr Polytechnic State University, Ukraine |
| 14.45 | P.6. Spatial Organization of <i>Vallonia pulchella</i> (Muller 1774) in Ecological Niche in Pedozems of Nikopol Manganese Ore Basin | Ava Umerova , PhD student Bohdan Khmelnytskyi Melitopol State Pedagogical University, Melitopol, Ukraine |
| 15.00 | P.7. Laser-Induced Fluorescence Spectroscopy for rare Earth Elements Detection in Plants | Mykhailo SVIDENIUK , PhD student, Institute of Geological Science of the NASU, Kyiv, Ukraine |
| 15.15 – 15.30 Break | | |
| 15.30 | P.8. Influence of Physical and Chemical Properties in the Zone of Pre-Karpat District of the Tourist and Recreational Complex of Lviv Region | Kateryna Korol , PhD student, Lviv State University of Life Safety, Lviv, Ukraine |
| 15.45 | P.9. Chemische Elemente in den Blättern von Bäumen aus den Zerstörten Gebieten der Region Kryvyj Rih | Yuliia Bielyk , PhD student, Oles Honchar DNU |
| 16.00 | P.10. Sweet Sorghum Cultivar Medove Growing in Phytomeliorated Rocks | Denys KHEILYK , Master student, DSAEU, Ukraine |
| 16.15 | P.11. Bottom Sediments as Local Geological Hazards. Estimation and Recourse Management | Maryna Huslysta , PhD student, DSAEU, Ukraine |
| 16.30 | P.12. Waste Management in Ukraine | Kyrylo ZVORYHIN , PhD student, DUT |
| 16.45 | P.13. Environmental and Social interaction: Case Study | Serhii KRASOVSKYI , PhD student, DUT, Ukraine |
| 16.45 – 17.00 | Final Competition Session for Best Poster; Certificates | Moderator: Prof. Dr. Hermann HEILMEIER , TU BAF, Germany |
| P.14. | Investigation of the <i>Ailanthus altissima</i> application for phytoremediation purposes | Zlata SUSHKO , Bachelor student, DUT, Ukraine |
| P.15. | Breeding and Cultivation of a Hybrid of Sugar and Broom Sorghum on Marginal Lands for the Production of Solid Biofuel | Maksim NOSOV , PhD student, DSAEU / Institute of Grain Crops UAAS, Ukraine |
| P.16. | Phytoremediation of Reclaimed Coal Dumps in Western Donbas | Serhii KRASOVSKYI , PhD student, DUT, Ukraine |
| P.17. | Justification of the Phytoremediation Technology for Slopes of Overburden Dumps by Composite Briquettes | Kyrylo ZVORYHIN , PhD student, DUT, Ukraine |
| P.18. | Environmental aspects of technological schemes improvement for overburden development with intra-quarry dumping in conditions of watered placer deposits | Vladyslav KARDASH , PhD student, DUT, Ukraine |
| P.19. | Evaluation of Energy-Ecological Efficiency of Innovative Technologies in City Boiler Rooms | Iryna MONIUK , PhD student, DUT, Ukraine |

| | | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P.20. | Influence of Biochar and Potassium Humate on the Growth of PhytoIndicators Growing on Substrate from Reclaimed Coal Dumps in Western Donbass | Tetiana SOROKA , Master student, DUT, Ukraine |
| P.21. | Evolution of Antibiotics, their Impact on Human Genetics and State of the Environment | Dariia ROZCHUPKINA , Bachelor student, DUT Ukraine |
| P.22. | Evaluation of Enzyme Pool Activity in Reclaimed Minelands | Vladislav KOSTENKO , Master student, DSAEU, Ukraine |
| P.23. | Biotesting of Four Artificial Land Reclamation Profiles | Nataliia PRYSHEDKO , Master student, DSAEU, Ukraine |
| P.24. | The Stratigraphy of Artificial Construction of Minelands Reclamation Models | Olexandr GAVRYUSHENKO , Post Doct. DSAEU, Ukraine |
| P.25. | Environmental and Economic Evaluation of Land Reclamation | Olga TKALICH , Post Doct. DSAEU, Ukraine |
| P.26. | The Use of the <i>Parthenocissus quinquefolia</i> in Biological Reclamation of Waste Rock Dumps | Oleksii STROHYI , Bachelor student DUT, Ukraine |
| P.27. | Using Plants of Sedum spp. in Biological Reclamation of Waste Rock Dumps | Oleksandr BOKHENKO , Bachelor student DUT, Ukraine |
| P.28. | Formation of an Electronic Municipal Register of Trees Using GIS | Mykyta SHKARIN , Master student, DUT, Ukraine |
| P.29. | GIS and Remote Sensing for Environmental Monitoring on Territories with Mining Activities | Pavlo LOMAZOV , Master student, DUT, Ukraine |
| P.30. | Synthesis and adsorption of magnetic biochar as an adsorbent for Cr (III) cations removal from aqueous solutions | Mariia CHERKASOVA , Master student, Ukrainian State University of Chemical Technology, Dnipro, Ukraine |
| P.31. | Investigation of the process of wastewater treatment from heavy metals by slag sorbent | Prybieha MYKYTA , Master student, USUCT, Dnipro, Ukraine |
| P.32. | Experimental Evaluation of Thermal Conductivity of Water Heaters of Residential Buildings | Valeriia SHMELOVA , Bachelor student DUT, Ukraine |
| On-line participants without poster | Alevtina MULINA , PhD student, DUT Tetiana LAMPIKA , PhD student, DUT Kostiantyn LIASOV , PhD student, DUT Vasyl LIPCHAK , PhD student, DUT Leontii ILCHISHEN , Bachelor student, DUT Sofiiia LISOVSKA , Bachelor student, DUT Melvice EPEDE , PhD student, TU BAF Amir BOUSTILA , PhD student, Badji Mokhtar University Annaba, Algeria Asma BELHACHEMI , PhD student, University Ibn Khaldoun Tiaret, Algeria Ing. Bernard OSEI-WUSU , PhD student, MBA. International Management of Resources and Environment TU BAF, Germany / Ghana | Nazia ZAFFAR , PhD student, TU BAF, Germany / Quaid-i-Azam University, Islamabad, Pakistan Azim Khan NIAZI , PhD student, TU BAF Youcef CHEIKHAOUI , PhD student, National School of Mines and Metallurgy of Annaba, Algeria Precious OKOROAFOR , PhD student Institute of Biosciences/ Interdisciplinary Environmental Research Centre, TU BAF Lillian MONEI , PhD student, Tallinn University of Technology/TU Bergakademie Freiberg Stanislav KOVALOV , PhD student, DSAEU / Institute of Grain Crops UAAS, Ukraine |
| Experts | Prof. Dr. Hermann HEILMEIER , TU BAF Prof. Dr. Carsten DREBENSTEDT , TU BAF Prof. Dr. Michael SCHLOEMANN , TU BAF Dr. Oliver WICHE , TU BAF, Germany Prof. Dr. Borys SOBKO , DUT, Ukraine Prof. Dr. Vasyl POPOVYCH , Head of the Institute of Civil Protection, Lviv, Ukraine Prof. Dr. Mykola KHARYTONOV , DSAEU Prof. Dr. Oleksandr KOVROV , DUT, Ukraine Prof. Dr. Artem PAVLYCHENKO , DUT Prof. Dr. Valerii KOLESNIK , DUT, Ukraine Dr. Nadiia MARTYNOVA , Botanical Garden of Oles Honchar DNU, Ukraine Dr. Olena ONYSHCHENKO , Independent researcher, Germany Dr. Oleksii LOZHNIKOV , DUT, Ukraine Dr. Iryna KLIMKINA , DUT, Ukraine Dr. Yurii BUCHAVYI , DUT, Ukraine Dr. Viktoriiia LOVYNSKA , DSAEU, Ukraine | Dr. Pavlo KHAZAN , Member of Dnipropetrovsk Regional Council, Environment & Energy Committee Dr. Oleksandra LOHUNOVA , Head of "Sustainable Development Platform" NGO, Consultant to the UNECE Industrial Accidents Convention, Austria Dr. Liliya FROLOVA , USUCT, Dnipro Dr. Volodymyr KOZECHKO , DSAEU Dr. Oleksandr MYTSYK , DSAEU, Ukraine Prof. Dr. Yuriy TKALICH , DSAEU, Ukraine Dr. Serhii SHEVCHENKO , DSAEU Dr. Nataliia HONCHAR , DSAEU, Ukraine Dr. Anna HOTVIANSKA , DSAEU, Ukraine Dr. Yuriy RUDAKOV , DSAEU, Ukraine M.Sc. Danylo LYSENKO , Mitteldeutsche Braunkohlengesellschaft mbH, Germany M.Sc. Yeugen CHEBLIA , Schaeffler Group |