

AGENDA

for the **Training Week** in the frame of Educational Project
**“EcoMining: Development of Integrated PhD Program
 for Sustainable Mining & Environmental Activities”**

28/09/ – 05/10/2019

28/09/2019, Saturday, 09.35 – 17.25

Course “Responsible Mining Approach” (2 lectures)

Course “Advanced topics from biomining” (3 lectures)

TUBAF on the basis of NTU DP, Dnipro, Ukraine

| Room 1 / 60 | | |
|----------------------|---|---|
| 09.35 – 10.55 | Lecture “Responsible Mining Approach” | Prof. Dr. Carsten DREBENSTEDT , TU BAF, Germany |
| 11.20 – 12.40 | Lecture “Responsible Mining Approach” | Prof. Dr. Carsten DREBENSTEDT , TU BAF, Germany |
| Break | | |
| 14.30 – 15.55 | <i>Lecture from industry expert:</i> Geomechanical Modeling of Mines and Dumps Using K-MINE to Minimize the Disturbed Lands Areas in Mining Operations | Dr. Dmytro VINIVITIN , Technical Director, FERREXPO POLTAVA MINING (Poltava Ore Dressing Plant) |
| 16.05 – 17.25 | Lecture: Phytomining | Prof. Dr. Hermann HEILMEIER , TU BAF, Germany |

30/09/2019, Monday, 09.00 – 17.30

Workshop “Structure and requirements of a PhD study”

| 8.30 | Registration | Room 1 / 60 |
|----------------------|---|---|
| 9.00 | Welcoming Speech and Greetings Presentation of the Project | Prof. Dr. Oleksandr SHASHENKO , NTU DP, Vice-Rector on International Affairs Prof. Dr. Hermann HEILMEIER , TU BAF, Germany |
| 09.30 | Structure and requirements of a PhD study in Ukraine | Dr. Larysa KOLESNYK , NTUDP, Head of the Department of Postgraduate and Doctoral Studies |
| 10.30 | <i>Discussion</i> | |
| 11.00 | Coffee break | |
| 11.30 | How to write a good PhD thesis? Practical hints | Prof. Dr. Hermann HEILMEIER , TU BAF, Germany |
| 12.30 | <i>Discussion</i> | |
| 13.00 | Break | |
| 14.00 | Presentation and posters of PhD thesis plan from PhD students | PhD students |
| 15.30 | Coffee break | |
| 16.00 – 17.30 | Presentation and posters of PhD thesis plan from PhD students | PhD students |

01/10/2019, Tuesday, 08.00 – 17.25

Course “Environmental Technologies in Mining” (3 lectures)

Course “Innovative Technologies in Mining and Technical Reclamation”
(2 lectures)

National Technical University “Dnipro Polytechnic”, Dnipro, Ukraine

| Room 1 / 60 | | |
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| 08.00 – 09.20 | <i>Lecture from industry expert:</i> Soil protection from technogenic influence | Prydniprovsk Thermal Power Station |
| 09.35 – 10.55 | <i>Lecture from industry expert:</i> Soil protection from technogenic influence | Prydniprovsk Thermal Power Station |
| Coffee break | | |
| 11.20 – 12.40 | <i>Lecture from external expert</i> | Prof. Dr. Tatiana YAKOVYSHYNA Prydniprovsk Academy of Construction and Architecture |
| Break | | |
| 14.30 – 15.55 | <i>Lecture:</i> Formation and Mining of Man-Caused Deposits | Dr. Oleksii LOZHNIKOV NTU DP, Dep. of Surface Mining |
| 16.05 – 17.25 | <i>Practical training</i> | Dr. Oleksii LOZHNIKOV NTU DP, Dep. of Surface Mining |

02/10/2019, wednesday, 08.00 – 17.25

Course “Innovative Technologies in Mining and Technical Reclamation”

(2 lectures)

Course “Biotechnology in Mining” (3 lectures)

National Technical University “Dnipro Polytechnic”, Dnipro, Ukraine

| Room 1 / 60 | | |
|----------------------|---|---|
| 08.00 – 09.20 | <i>Lecture:</i> Extraction of rare and noble metals using plant extracts | Dr. Liliya FROLOVA USUCT, Ukraine |
| 09.35 – 10.55 | <i>Practical Training:</i> | Dr. Liliya FROLOVA USUCT, Ukraine |
| Coffee break | | |
| 11.20 – 12.40 | Optimization and simulation measures for energy accumulation and elements uptake with plant biomass as source for the novel goods production in the abandoned minelands | Prof. Dr. Mykola KHARYTONOV DSAEU |
| Break | | |
| 14.30 – 15.55 | <i>Lecture</i> Methods of system analysis of the quality of the environment and ecosystems based on the use of geographic information technology and systems | Dr. Yurii BUCHAVY NTU DP, Ukraine |
| 16.05 – 17.25 | <i>Practical Training:</i> | Dr. Yurii BUCHAVY NTU DP, Ukraine |

03/10/2019, Thursday, 08.00 – 17.25

Course “Biotechnology in Mining” (5 lectures)

National Technical University “Dnipro Polytechnic”, Dnipro, Ukraine

| Room 1 / 60 | | |
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| 08.00 – 09.20 | <i>Lecture:</i> Forest tree reclamation, phytostabilization and phytoremediation of coal mining heaps | Dr. Viktoriia LOVYNSKA DSAEU |
| 09.35 – 10.55 | <i>Lecture:</i> Forestry Remediation Systems on Mining Rock in Ukraine. Case Study | Dr. Svitlana SYTNYK DSAEU |
| Coffee break | | |
| 11.20 – 12.40 | <i>Practical Training:</i> | Dr. Viktoriia LOVYNSKA Dr. Svitlana SYTNYK DSAEU |
| Break | | |
| 14.30 – 15.55 | <i>Lecture</i> Bioremediation and biomining with microalgae and cyanobacteria cultures | Dr. Olena ONYSHCHENKO DSAEU, Ukraine |
| 16.05 – 17.25 | <i>Practical Training:</i> | Dr. Olena ONYSHCHENKO DSAEU, Ukraine |

04 – 05/10/2019

| Field trip to Ordzhonikidze Open Pit Mine and Mineral Processing Plant (Ukraine) | | |
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| 07.00 – 20.00 (04/10/2019) | <i>Field trip:</i> Ordzhonikidze Open Pit Mine and Mineral Processing Plant | <u>04/10/2019</u> 7.00 – Departure from the building 4 (Dmytro Yavornytskii Av. 19) 11.00 – Arriving to ... 11.00 – 12.00 – Round table 12.00 – 13.00 – Break 13.00 – 17.00 – Plant excursion 17.00 – Departure to Dnipro 20.00 – Arriving |