

Programme 3. - 6.6. 2021

**3rd International  
Conference Forest  
and Landscape  
Restoration of  
Post-mining Sites  
held in Prague, Czechia**

Institute for Environmental Studies,  
Faculty of Science, Charles University

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Thursday, 3<sup>rd</sup> June <http://restoration.jdem.cz/>

### Part I

9:00	Introduction & welcome	
9:15	Anand Narain Singh	Ecological restoration of degraded mined habitats: Opportunities and challenges in 21st century
9:30	Majeti Prasad	Visible examples of restoration of post-mining sites in India
9:45	Subodh Kumar Maiti	Ecorestoration of coalmine degraded lands
10:00	Yongjun Yang	3D observation end assessment of restored ecosystems on post-mining sites
10:15	Discussion in Breakout Rooms	1 Anand Narain Singh 2 Majeti Prasad 3 Subodh Kumar Maiti 4 Yongjun Yang 5 free discussion 1 6 free discussion 2

### Part II

10:30	Emilia-Cornelia Dunca	Ecological factors of the biotope and ecological rehabilitation of Jiu Valley tailings dumps
10:45	Markéta Braun Kohlová	Waiting is not enough. Prospect and a safe path can make post-mining forests more attractive
11:00	Vítězslav Moudrý	Monitoring of restored sites using airborne LiDAR and hyperspectral data
11:15	Wolfgang Schaaf	The Chicken Creek Catchment: a landscape scale approach on minesite restoration
11:30	Jan Frouz	Falkon catchment whole ecosystem scale approach on minesite restoration
11:45	Discussion in Breakout Rooms	1 Emilia-Cornelia Dunca 2 Markéta Braun Kohlová 3 Vítězslav Moudrý 4 Wolfgang Schaaf 5 Jan Frouz 6 free discussion 1 7 free discussion 2
12:00	Lunch	

### Part III

14:00	Jennifer Franklin	Overcoming arrested succession on reclaimed surface mines of the eastern USA
14:15	Diego Balestrin	Landscape dynamics in two regions under influence of the bauxite mining in minas gerais-brazil
14:30	Pardeep Kumar	Herbaceous vegetation development under planted woody species contribute to ecosystem recovery in tropical coal mined spoil, India: a case study
14:45	Nalukui Matakala	Evaluation of the phytostabilization potential of tree species occurring on the Copper Tailings Dams of the Copperbelt Province in Zambia
15:00	Steffi Schillem	Tree and shrub species grown on post-mining sites as source of biomass for bio-based industry
15:15	Cezary Krzysztof Urbanowski	Pure or mixed stands? Response of soil Gamasina and Uropodina mites to habitat type end litter decomposition on reclaimed post-mining land and adjacent forest sites

15:30	Discussion in Breakout Rooms	1 Jennifer Franklin 2 Diego Balestrin 3 Pardeep Kumar 4 Nalukui Matakala 5 Steffi Schillem 6 Cezary Krzysztof Urbanowski 7 free discussion 1 8 free discussion 2
<b>Part IV</b>		
15:45	Mateusz Rawlik	Tree species as main drivers of afforested post-mining sites restoration
16:00	Oldřich Vacek	Verification of the suitability of woody plants for forest reclamation in the area of the Sokolov coal basin
16:15	Marta Kotápišová	Spatial heterogeneity of woody vegetation during primary succession in post mining heaps
16:30	Marko Spasić	Comparison of physical and chemical properties of soils formed under 22 different tree species on a 50-year-old forest reclamation site in the Czech Republic
16:45	Peter Beckett	Over 40 years of creating novel ecosystems on a smelter-impacted landscape of Sudbury, Ontario, Canada
17:00	Discussion in Breakout Rooms	1 Mateusz Rawlik 2 Oldřich Vacek 3 Marta Kotápišová 4 Marko Spasić 5 Beckett 6 free discussion 1 7 free discussion 2
17:15	End of Day 1	
<b>Friday, 4<sup>th</sup> June</b> <a href="http://restoration.jdem.cz/">http://restoration.jdem.cz/</a>		
<b>Part V</b>		
9:00	introduction second day	
9:15	Xia Kang	Changes of root microbial populations of natively grown <i>bothriochloa ischaemum</i> and <i>Typha angustifolia</i> during natural attenuation of V-Ti magnetite tailings
9:30	Lukáš Jačka	Do different tree species have different effects on infiltration and preferential flow? A case study from clayey spoil heap
9:45	Martin Bartuška	Carbon storage in post mining chronosequences
10:00	Sangeeta Mikhopadhyay	Title of presentation: Evaluation of reclamation success of coal mine sites through soil quality index
10:15	Sneha Bandyopadhyay	Development of Comprehensive soil quality index (CSQI) for suitability ranking of plant species used for reclamation in coal mine degraded land
10:30	Discussion in Breakout Rooms	1 Xia Kang 2 Lukáš Jačka 3 Martin Bartuška 4 Sangeeta Mikhopadhyay 5 Sneha Bandyopadhyay 6 free discussion 1 7 free discussion 2

Part VI		
10:45	Alena Walmsley	From spoil to soil: utilizing waste material to create soils for mine rehabilitation
11:00	Evgeny Abakumov	Microbial biodiversity of different aged contrast post mining soils of the Russian North-West
11:15	Fujii Kazumichi	Estimating potential soil water retention using soil physicochemical properties
11:30	Michael Bonkowski	Lessons learned from an agricultural post-mining chronosequence on microbial stoichiometry and organic matter formation
11:45	Bartłomiej Woś	Effect of tree species on carbon, nitrogen, and phosphorus stock and their relationships under reclaimed mine and reforested post-fire soil regeneration scenarios
12:00	Discussion in Breakout Rooms	1 Alena Walmsley 2 Evgeny Abakumov 3 Fujii Kazumichi 4 Michael Bonkowski 5 Bartłomiej Woś 6 free discussion 1 7 free discussion 2
12:15	Lunch	
Part VII		
14:00	Pawel Horodecki	Humus layer development under various tree monocultures on a post-mining spoil heap
14:15	Ruby Stefany Garcia Moreno	Ecohydrology of Reclaimed Quarry Landscape Under Mediterranean Climate in Spain
14:30	Karelle Rheault	Genetic variability and selection pressure influence phenotypic responses to stressful environment as well as bacterial and fungal assemblages in the rhizosphere of balsam poplar
14:45	Petra Benetková	Do soil trasfer speed development of sil fauna in post mining soils
15:00	Fabio Vicentiny	The role of soil heterogeneity for soil and vegetation development
15:15	Yamileth Dominguez-Haydar	Impact of Pheidole fallax (Hymenoptera: Formicidae) as ecosystem engineer in rehabilitated coal mine areas
15:30	Amir Hass	On the role of redox-promote dissolution processes in reforested surface mine soil
15:45	Discussion in Breakout Rooms	1 Pawel Horodecki 2 Ruby Stefany Garcia Moreno 3 Karelle Rheault 4 Petra Benetková 5 Fabio Vicentiny 6 Yamileth Dominguez-Haydar 7 Amir Hass 8 free discussion 1 9 free discussion 2
16:00	End of Day 2	

Youtube stream Day 1: <https://youtu.be/JSJXZ9AU7Ws>

Youtube stream Day 2: <https://youtu.be/TvJBuA-SN5c>