

Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering

June 11-14, 2025 University of Vigo (Spain)

Conference Program

Wednesday, June 11, 2025

Venue: Consorcio Zona Franca de Vigo

Address: Rua Areal 46, 36201 Vigo. (Plus code: 67QM+HF Vigo)

Capacity limited to 120 people

13:00 h. Registration

13:45 h. Inauguration of the conference EGRWSE-2025

14:00 - 18:30 h. Short course on:

Sustainable and Resilient Engineering: Drivers, Metrics, Tools and Applications. Prof. K. R. Reddy (UIC, USA), Prof. C. Cameselle (UVigo, Spain), Dr. J. Adams, P.E. (ENGEO, California, USA), Jagadeesh Kumar Janga, Ph.D. Candidate (UIC, USA).

16:00 - 16:30 h. Coffee break

18:30 h. End-of-course cocktail

Capacity limited to 120 people. Admission until 13:45 h or until full capacity is reached

Thursday, June 12, 2025

Venue: School of Industrial Engineering, UVigo.

Address: University Campus, 36310 Vigo. (Plus code: 5896+78 Vigo)

8:25 h. Bus leaves from City to Campus (Plus code: 67QM+HF Vigo)

9:00 - 11:00 h. Registration

9:00 – 10:30 h. Opening session

10:30 h. Group photo

10:30 - 11:00 h. Coffee break + Poster session

11:00 - 12:45 h. Session 1

12:45 - 14:30 h. Lunch

14:30 - 16:00 h. Session 2

16:00 - 16:30 h. Coffee break + poster session

16:30 - 17:30 h. Session 3

17:30 h. Bus leaves from Campus to City

19:30 h. Guided tour of city (Plus code: 67QG+42 Vigo)

21:00 -23:00 h. Get-together dinner (Náutico de Vigo, Plus code: 67RG+G4 Vigo)

Friday, June 13, 2025

School of Industrial Engineering, UVigo.

Address: University Campus, 36310 Vigo. (Plus code: 5896+78 Vigo)

8:25 h. Bus leaves from City to Campus (Plus code: 67QM+HF Vigo)

9:00 - 11:00 h. Registration

9:00 - 10:30 h. Session 4

10:30 - 11:00 h. Coffee break + Poster session

11:00 - 12:45 h. Session 5

12:45 - 14:30 h. Lunch

14:30 - 16:00 h. Session 6

16:00 - 16:30 h. Coffee break + poster session

16:30 - 17:30 h. Conference closing

17:30 h. Bus leaves from Campus to City

19:00 h. Bus leaves for conference dinner (Plus code: 67QM+HF Vigo)

23:59 h. Estimated return to Vigo city center from conference dinner

Saturday, June 14, 2025

Meeting point: Estación de Ría, 36201 Vigo. (Plus code: 67RF+7H Vigo)

10:30 h. Departure for technical visit

Visit to a natural park as an example of sustainable management of natural spaces

17:00 h. Return from technical visit



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Wednesday, 11 June 2025	Thursday, 12 June 2025	Friday, 13 June 2025	Saturday, 14 June 2025
_	8:25 Bus from City to Campus	8:25 Bus from City to Campus	
Borietration	Opening Session (9:00-10:30)	Session 4 (9:00-10:30)	
Dodic	Coffee/Poster Session (10:30 – 11:00)	Coffee/Poster Session (10:30 – 11:00)	
Capacity limited to 120 people	Session 1 (11:00 – 12:45)	Session 5 (11:00 – 12:45)	
Registration (13:00)	Lunch	Lunch	Technical Tour
Inauguration (13:45)	(12:45 – 14:30)	(12:45 – 14:30)	(10:30 – 17:00)
Short Course on Sustainable and Resilient Engineering	Session 2 (14:30 – 16:00)	Session 6 (14:30 – 16:00)	
(14:00-16:00) Coffee break (16:00)	Coffee/Poster Session (16:00 – 16:30)	Coffee/Poster Session (16:00 – 16:30)	
Short Course (16:30 – 18:30)	Session 3 (16:30 – 17:30)	Conference Closure (16:30 – 17:30)	
Cocktail (18:30)	17:30 Bus from Campus to City	17:30 Bus from Campus to City	
Capacity limited to 120 people	19:30 Guided tour of City (1.5 h)	19:00 Bus to Conference Dinner	
	Get-together Dinner (21:00-23:00)	Conference Dinner (20:00-23:30)	



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Conference Program

luna 10	Vanues Cohool of Industrial Engineering 1975			
June 12	Venue: School of Industrial Engineering, UVigo			
9:00-11:00	Registration			
	Opening session			
	Claudio Cameselle & Susana Gouveia (Conference Organizers)			
	Manuel Joaquín Reigosa Roger (UVigo Rector)			
9:00-10:30	José Fariña (Director of the School of Industrial Engineering)			
	Krishna Reddy and Arvind Agnihotri (Conference Chairs)			
	9:30 Keynote lecture: Krishna Reddy (UIC)			
	10:00 <i>Invited lecture:</i> Angel Antelo (Agilent Technologies)			
10:30	Group	photo		
10:30-11:00	Coffee break / Poster session			
	Session 1			
	Room A	Room B		
	Geoenvironmental Pollution Control	Sustainable and Resilient Practices		
	Chair: Krishna R. Reddy	Co-chairs: Antonio Thome, Igor Petrovic		
	Invited lecture: Yeliz Yukselen-Aksoy	Keynote lecture: Helena Fernandes		
11:00-12:45	Invited lecture: Nicolo Guarena	6 oral presentations and discussion		
	5 oral presentations and discussion			
	Room C	Room D		
	Solid Waste and Circular Economy	Sustainable Geo-Infrastructure		
	Co-chairs: Alicia Paz, Vesna Zalar Serjun	Co-chairs: Ivan P. Damians, Irem Z. Yildirim		
	9 oral presentations and discussion	9 oral presentations and discussion		
12:45-14:30		nch		
		ion 2		
	Room A	Room B		
	Solid Waste and Circular Economy	Biotechnologies/Nature-Based Solutions		
	Co-Chairs: Arvind K Agnihotri, Oznur Karaca	Co-chairs: Laura Romero, J. M. Dominguez		
14:00 10:00	Keynote lecture: Alicia Paz	Invited lecture: Madhavi Latha Gali		
14:30-16:00	Invited lecture: Jana Font	Invited lecture: Ahmed Benamar		
	3 oral presentations and discussion	4 oral presentations and discussion		
	Room C	Room D		
	Geoenvironmental Pollution Control	Solid Waste and Circular Economy		
	Co-chairs: Supriya Mohanty, Primož Pavšič 8 oral presentations and discussion	Co-chairs: Paulo Coelho, Nuno Muñoz		
16:00-16:30		8 oral presentations and discussion Poster session		
10:00-10:30		ion 3		
	Room A	Room B		
16:30-17:30	Sustainable Geo-Infrastructure	Sustainable and Resilient Practices		
	Chair: Thyagaraj T	Chair: Ahmed Benamar		
	Keynote lecture: A. K. Agnihotri	Invited lecture: Antonio Thome		
	Invited lecture: Ivan P. Damians	3 oral presentation and discussion		
	Discussion	o orat presentation and discussion		
	Room C	Room D		
	Geotechnics for Renewable Energy	Biotechnologies/Nature-Based Solutions		
	Co-chairs: Y. Yukselen-Aksoy, Y. Kurimoto	Co-chairs: G. Madhavi Latha, H. Fernandes		
	5 oral presentations and discussion	4 oral presentations and discussion		
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June 13	Venue: School of Industrial Engineering, UVig	0		
9:00-11:00	Registration			
	Session 4			
	Room A	Room B		
	Geoenvironmental Pollution Control	Solid Waste and Circular Economy		
	Co-Chair: V. B. Maji, E. Ghazanfari	Chair: Milind Khire		
	Keynote lecture: Chandresh Solanki	Invited lecture: António Roque		
9:00-10:30	Invited lecture: Arvin Farid	Invited lecture: Oznur Karaca		
	3 oral presentations and discussion	4 oral presentations and discussion		
	Room C	Room D		
	Sustainable Geo-Infrastructure	Solid Waste and Circular Economy		
	Co-chairs: H. B. Rao, Pabitra R. Maiti	Co-chairs: Eva Rodil, Fei Jin		
	8 oral presentations and discussion	8 oral presentations and discussion		
10:30-11:00	Coffee break /	Poster session		
	Sess	ion 5		
	Room A	Room B		
	Solid Waste and Circular Economy	Sustainable Geo-Infrastructure		
	Co-chairs: António J. Roque, J. M. Salgado	Co-chairs: Satyajit Patel, Dali N. Arnepalli		
	Invited lecture: Milind Khire	Invited lecture: Hanumantha Rao		
11:00-12:45	Invited lecture: A. M. Pérez-Lafuente	7 oral presentations and discussion		
11.00-12.43	5 oral presentations and discussion			
	Room C	Room D		
	Geoenvironmental Pollution Control	Sustainable and Resilient Practices		
	Co-chairs: Nicolò Guarena, Wolfgang Wehr	Co-chairs: Junboum Park, Arvin Farid		
	Keynote lecture: Magdalena Vaverková	9 oral presentations and discussion		
	6 oral presentations and discussion			
12:45-14:30	Lur	nch		
	Session 6			
	Room A	Room B		
	Environmental Geotechnics for Climate	Workshop on Scientific Publishing		
	Change	Swati Meherishi (Springer Nature)		
14:30-16:00	Co-Chairs: C. H. Solanki, A. K Nayak			
	Invited lecture: Junboum Park			
	5 oral presentations and discussion			
	Room C	Room D		
	Last minute registration	Last minute registration		
16:00-16:30	Coffee break / Poster session			
16:30-17:30	Closing ceremony			
	Claudio Cameselle & Susana Gouveia (Conference organizers)			
	Krishna Reddy and Arvind Agnihotri (Conference chairs)			
	Chandresh Solanki: EGRWSE-2026 announcement			
	Participants comments			

6th INTERNATIONAL CONFERENCE ON Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering

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Conference Program

Opening Session

- 9:30 **Keynote.** Urban Flooding and Stormwater Pollution Problems Under Changing Climate: Sustainable and Resilient Solutions

 <u>Krishna R. Reddy,</u> Banuchandra Nagaraja
- 10:00 Invited lecture. Quantifying PFAS in Water According to the Latest EU Regulations Angel Antelo

Session 1. Room A. Geoenvironmental Pollution Control

- 11:00 **Invited lecture.** Breakthrough Sustainable Energy: Energy Geo-structures Yeliz Yukselen-Aksoy
- 11:20 Invited lecture. Conversion of calcium bentonite to sodium bentonite through dialysis Nicolò Guarena, Francesco Mazzieri, Andrea Dominijanni, Evelina Fratalocchi, Mario Manassero
- 11:40 Modelling of electrokinetic soil treatments. Verification cases <u>Rubén López-Vizcaíno</u>, Adrián López Sánchez-Migallón, Laura Asensio, Xiaojuan Yang, V Navarro, Ángel Yustres
- 11:50 DAT file For Geochemical Modelling (DAT4GM): A Python tool to provide reactive transport models for multiphysics platforms
 Adrián López Sánchez-Migallón, Rubén López-Vizcaíno, Xiaojuan Yang, V Navarro, Ángel Yustres
- 12:00 An Investigation of Suction Behavior of Zeolite-Bentonite Mixtures with Hyprop and Filter Paper Methods
 Sukran Gizem Alpaydin, Esra Güneri, Ceren Ercan, Yeliz Yukselen-Aksoy
- 12:10 Comparison of SiteWise and SimaPro for Sustainability Assessment of Remediation Alternatives
 Banuchandra Nagaraja, Krishna R. Reddy
- 12:20 Mechanical and durability study of fly ash-based geopolymer bricks without fillers Sher Bahadur Singh, Pabitra Ranjan Maiti, Supriya Mohanty

Session 1. Room B. Sustainable and Resilient Practices

- 11:00 Keynote. Biotechnological valorization of underutilized biomasses to produce sustainable animal feeds
 Helena Fernandes, Nuno Muñoz-Seijas, Francisco Manuel Soto Beltrán, José Manuel Salgado, Borja Fernández, Manuel Domínguez
- 11:30 The Role of Mathematics in Environmental Sustainability
 <u>Lino Alvarez-Vazquez</u>, Néstor García-Chan, Aurea Martinez, Miguel E. Vázquez-Méndez
- 11:40 Recycled Glass Powder Based Geopolymers for Soil Stabilization Esma Rahat, <u>Tugba Eskisar</u>
- 11:50 Sustainable treatment of dredged sediments using waste-based binders: fly ash and eggshell lime
 Muhammad Khizar Khan, Marta Di Sante, Francesco Mazzieri, Evelina Fratalocchi
- 12:00 Experimental Assessment of Renewable Diesel (HVO) for Decarbonisation: Emissions, Consumption, and Sustainability Insights
 <u>Lara Febrero-Garrido</u>, Antón Cacabelos-Reyes, André Louis Boehman, Carlos Pérez Collazo, Arturo González-Gil, Arturo González-Gil

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- 12:10 The role of dark stores in sustainable e-commerce: A literature review Iria González Romero, Mar Vazquez-Noguerol, Jesús Garcia-Arca, Jose Carlos Prado
- 12:20 Performance of Bagasse Ash on the Hardened Concrete Materials and Reinforced Concrete Structures: Experimental Study Neha Bhardwaj, Dr Senthil Kasilingam

Session 1. Room C. Solid Waste and Circular Economy

- 11:00 MgO-Stabilized Foundry Sand: A Green Alternative for Construction Materials Basil Jaimon, Ranita Ray, Amisha Nair, Sreedeep Sekharan, Rajan Choudhary
- 11:10 Safe and Sustainable by Design towards a circular economy in chemical sector Marcella Paula, Claudio Cameselle, Pablo Vicos, Germán Ferreira
- 11:20 Phosphorus Removal from Wastewater Using Carbonated Biochar/Steel Slag Composites Zonggiang Ren, Devin Sapsford, Fei Jin
- 11:30 Research on the Comprehensive Resource Utilization of Recycled Aggregates from Municipal Solid Waste Incineration Ash Songying Niu, Hongxin Chen
- 11:40 Use of residual materials in adsorption/tertiary treatment processes of industrial wastewater Jesus Rodríguez Iglesias, Carlos Menéndez Llamedo, Lara dos Santos Sánchez, Deva Rodríguez Jove, Laura Megido Fernández, Yolanda Fernández Nava, María Manuela Prieto González
- 11:50 Development of alkali-activated materials from electric arc furnace slags for foundry mold applications Miguel Otero Sáenz de Lubiano, Lorena Freire, Carolina Ramos, Lucia Unamunzaga
- 12:00 Application of WGP as an eco-friendly alternative for cement in Concrete: A Review Arvindan Sivasuriyan, Eugeniusz Koda
- 12:10 Strength Enhancement of Landfill Fine Fractions for Foundation Applications. A Numerical Study Sudeepta Malakar, Abhishek Kumar, Anil Kumar Mishra
- 12:20 Multicriteria Analysis as a decision making tool for carbon capture technologies in the shipping sector
 - Xulia Placer, Aravind Purushothaman, Paraskevi Karka

Session 1. Room D. Sustainable Geo-Infrastructure

- 11:00 Application of different binders for stabilization of expansive clavs Svetlana Melentijevic, Sol López Andrés, Aitor Lopez Marcos
- 11:10 Pull out tests on Coal Mine Waste to assess suitability as non-conventional backfill for reinforced soil structures
 - Padmavathi M, Sanjeeva P, Padmavathi Viswanadham
- 11:20 Performance of Electric Arc Furnaces Slag in Place of Cement on the Pavement Concrete Application Under the Impact Load Kavita Rani, Senthil Kasilingam
- 11:30 Experimental and Analytical Study of Piled Raft Foundations in Sandy Soil Vo Van Dau, Vo Phan, Nguyen Truong Phat, Vo Kim Ngan, Le Gia Linh, Tran Van Tuan, Pham Huu Ha Giang
- 11:40 The Influence of Particle Size Distribution on Microbially Induced Calcite Precipitation performance Cristhiana Perdigao, Aydin Enez, Negin Amini, Lambert Brau, Susanga Costa



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- 11:50 From waste to infrastructure: geotechnical and environmental insights from a full-scale embankment built with limestone powder waste José Luis Pastor Navarro, Erick Gutiérrez Villarroel, Miguel Cano, Adrian Riquelme Guill, Takenori Hino, Roberto Tomás Jover, Roberto Tomás Jover, Roberto Tomás Jover
- 12:00 Impact of stakeholders' interest on sustainability assessment of geosynthetic reinforced soil structures
 - Anibal Moncada, Ivan P. Damians, Sebastià Olivella, Richard J. Bathurst
- 12:10 Life Cycle Assessment of CFA Pile Foundations: Environmental Benchmarking for Large-Scale Residential Construction André Vinícius Azevedo Borgatto, Juliana Véras, Castorina Silva Vieira
- 12:20 Geosynthetic Encased Stone Columns in Geotechnical Engineering: Performance Insights and Applications Pravez Alam, Shailia Bawa

Session 2. Room A. Solid Waste and Circular Economy

- 14:30 **Keynote.** Advancing Circular Economy Solutions for the Olive Oil Sector: Integrating Biotechnological and Engineering Advances for Olive Pomace Utilization Alicia Paz, Evangelos Topakas, Attilio Converti, Manuel Domínguez
- Invited lecture. Valorisation of food chain waste through solid-state fermentation for biostimulant production for a sustainable agriculture Jana Font, Antoni Sánchez, Adriana Artola, Esther Molina-Peñate, Óscar Prado
- 15:20 Evaluation of Corrosive Characteristics and Unconfined Compressive Strength of Steel Slag Irem Zeynep Yildirim, Monica Prezzi
- 15:30 Developing a Cotton Decolorization Method: Driving Circularity in the Textile Industry Oscar Martinez-Rico, Angeles Domínguez, Begoña González
- 15:40 Selected physical and mechanical properties of combustion slag from Siekierki Power Plant Katarzyna Gabrys

Session 2. Room B. Biotechnologies/Nature-Based Solutions

- 14:30 Invited lecture. Micro-meso-macro interactions in bio-cemented sands Madhavi Latha Gali, Geethu Thomas
- 14:50 Invited lecture. Sustainable remediation of sediment using furnace slag mixture Ahmed Benamar, Mohamed-Tahar Ammami, Ahmad Zein-eddin, Zulfiqar Ahmad
- 15:10 Sustainable Soil Stabilization Using Fly Ash, Biochar, and Polypropylene Fibers Nitin Sharma, Rupali Satavalekar
- 15:20 Biological degradation of high-density polyethylene microplastics by Comamonas testosteroni Bess Alicia Newrick, Amanda Laca, Adriana Laca
- Biodegradation of Rhodamine B dye via vermicomposting: Advancing nature-based solutions for textile waste management Bikash Dhadumia, Satya Sundar Bhattacharya, Biswajit Paul
- 15:40 Kraft lignin: possibilities of applying circular economy in the wood sector Diego Moldes, Susana Gouveia, Mari Carmen Fernández-Costas, Cristian Bolaño-Losada, Daniel Filgueira, Nicolás Álvarez



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Session 2. Room C. Geoenvironmental Pollution Control

- 14:30 Volumetric Shrinkage Strain of Bioremediated Oil Contaminated Soil Musa Alhassan, Nik Norsyahariati Nik Daud
- 14:40 Suitability of an Abandoned Quarry for Red Mud Disposal at Dalla Mines, Uttar Pradesh, India: A Feasibility Study
 Ashish Gharpure, <u>Prashant Navalakha</u>, Vaishali Surawar, Aswathi C K
- 14:50 Numerical modelling of landfill gas emission through landfill covers based on computation fluid dynamics

 <u>Prince Kumar</u>, Sivakumar Babu GL, Lakshminarayana Rao
- 15:00 Influence of particle deposition morphology on solute transport in porous media: a CFD-DEM study
 <u>Dong-Jiang Lv</u>, Hong-Xin Chen
- 15:10 Interactions of Hydrophobic and Hydrophilic Microplastics with Kaolinite
 Nafisa Bello, Mojgan Hadi Mosleh, Mohammed Ahmad Syed, Majid Sedighi, Peyman
 Babakhani
- 15:20 An integrated approach to groundwater vulnerability assessment and monitoring at a reclaimed landfill site

 Anna Podlasek, Eugeniusz Koda, Piotr Streich, Wojciech Pietruszewski
- 15:30 Evaluating Contaminant Transport Parameters of Trace Metals in Reclaimed Landfill Materials: A Laboratory and Numerical Study

 <u>Deepak Kumar Haritwal</u>, G V Ramana, Manoj Datta, Pranjal Singh
- 15:40 Image-enabled Characterisation and Oxidation assessment of Microplastics in Soil-Like-Materials Obtained During Mining of Dumpsite <u>Avinash Sajwan</u>, Deepak Kumar Haritwal, G V Ramana

Session 2. Room D. Solid Waste and Circular Economy

- 14:30 Enhancement of Compacted Clay Liners Using Tire Rubber Crumbs: A Sustainable Solution for Improved Crack Resistance
 Sandhiya C, Thyagaraj T
- 14:40 Utilizing Recycled Fines and Industrial By-products through geopolymerization as road construction material
 Alok Bijalwan, Anil Kumar Mishra
- 14:50 Effect of foundry fines in improving the geotechnical properties of red soil for landfill liner application
 <u>Tenkurala Srujana</u>, Thyagaraj T
- 15:00 Wind speed and solar intensity measurement on a municipal solid waste landfill hill with truncated pyramid shape
 Emoke Imre, Péter Felker, Zsolt Hortobágyi, Peter Kádár, Balint Sinkovics, Zoltán Kapros, Delphin Kabey Mwinken, Akos Nemcsics, Gábor Mile, Agnes Balint, Tibor Goda, Csaba Kollar, Tamas Weidinger, <u>Dr. Antal Ürmös</u>
- 15:10 Application of Recycled Aggregates in Road Infrastructures Rabo de Peixe Variant–
 Azores- Portugal
 Catarina Amaral, Ana Maria Malheiro, Maria Silva, Carlos Fraga
- 15:20 Feasibility of Recycling Municipal Solid Waste Incineration Fine Bottom Ash to Stabilize Dredged Marine Deposits Chung Yee Kwok, Wei Li, Yanming Zhang
- 15:30 Assessment of Incineration Ash Properties for Sustainable Construction

 <u>Vesna Zalar Serjun</u>, Anton Meden, Romana Cerc Korošec, Marta Počkaj, Primož Oprčkal

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15:40 Evaluation of Landfill Gas Potential in Indian Landfill Sites <u>Davinder Singh</u>, D. Raghavendher, Sanjeev Kumar

Session 3. Room A. Sustainable Geo-Infrastructure

- 16:30 Keynote. Sustainable deployment of Industrial wastes to improve the load carrying capacity of granular soil Arvind Kumar Agnihotri
- 17:00 Invited lecture. Exploring Sustainability Assessment of Geosynthetic-based solutions in Civil Engineering <u>Ivan P. Damians</u>

Session 3. Room B. Sustainable and Resilient Practices

- 16:30 **Invited lecture.** Contaminated Site Management and Sustainability Analysis Platform Antonio Thome, Adeli Braun, Caroline Visentin
- 16:50 Thermo-Mechanical Treatment of Reclaimed Rubber and Landfill-Derived Mixed Plastics for Sustainable Development <u>Prithvendra Singh</u>, Devendra Narain Singh
- 17:00 The physical and mechanical properties of foundry and construction waste as subbase material
 Emir Okucu, Taylan Cem Aytekin, Nilhan Demirci, Alper Burak Karakus, Okan Onal, Ali Hakan Oren, Yeliz Yukselen-Aksoy
- 17:10 Artificial Intelligence-Driven Decision-Making Approach for Sustainable Prediction of Fire in Subsurface Engineering Environments

 <u>Satyam Tiwari</u>, Sarat Das

Session 3. Room C. Geotechnics for Renewable Energy

- 16:30 Measurement of Shear Strength Parameters of BMT waste: Triaxial CU test and angle of repose <u>Igor Petrovic</u>, Nikola Hrncic, Nikola Kaniski
- 16:40 Laboratory Investigation of the Impact of Injected Fluid Temperature in Deep Geothermal Systems
 - Brooke Lundrigan, Ehsan Ghazanfari
- 16:50 Possible use of CO₂ for Repurposing the Abandoned Oil and Gas Wells to Combat climate change and achieve NET ZERO

 <u>Faakirah Rashid</u>, Devendra Narain Singh
- 17:00 Analyzing the scope of the ideal gas hypothesis in the gas transport model V Navarro, Rubén López-Vizcaíno, <u>Erik Anders Tengblad Garcia</u>, Ángel Yustres
- 17:10 Impact of additives and elevated temperatures on the shrinkage behavior of compacted bentonite

 <u>Emir Okucu</u>, Yeliz Yukselen-Aksoy

Session 3. Room D. Biotechnologies/Nature-Based Solutions

16:30 Efficacy of Vermicompost Tea and Xanthan Gum solutions as Flushing agents in Biodegrading and Removing Spent Lubricant Oil from Sandy Soils Mohammad Rakhodaei, Ikrema Hassan, Kyle Rogers, <u>Laura Romero de Zeron</u>



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16:40	Comparison of Antibiotic Efficacy of Gramicidin S-Biosurfactant Combined Formulations against Staphylococcus aureus
	Ksenia Lvova, Sara Silvério, Ana Pereira, Cátia Pereira, Nuno da Silva, Lígia Rodrigues, José Manuel Cruz, Ana Belén Moldes
16:50	Influence of Bacterial Encapsulation on Urease Activity during Microbially Induced Calcite Precipitation
	Renu Joshi, Pavan Kumar Bhukya, <u>Dali Naidu Arnepalli</u> , Vidya Bhushan Maji
17:00	Framework for Modelling Agricultural Soils: Agro-geotechniques Perspective George Appiah-Kubi, Xiaohui Chen, Ana Heitor, Kai Wang
17:10	The use of hemp fibers as an additive in sand bentonite mixtures Şükrü Asım Kalaycı, <u>Seda Durukan</u>
Sessi	on 4. Room A. Geoenvironmental Pollution Control
9:00	Keynote. Transforming Waste to Solution: Moringa Seed Cake Biochar for Lead-Contaminated Soil Remediation <u>Chandresh Solanki</u> , Bhoomi Kamdar
9:30	Invited lecture. Air-water interface adsorption impact on pfas transport through vadose zones
	<u>Arvin Farid</u> , MD. Khorshed Alam, Krishna R. Reddy
9:50	Radon and CO ₂ content in Puerto Naos after the volcanic eruption on the island of La Palma - recalculation with artificial intelligence <u>Wolfgang Wehr</u> , Roger P. Frey
10:00	Use of AI-Powered technologies for Review of Environmental Regulations Manuel Joy, <u>Alexander Abraham</u>
10:10	Influence of electrolyte concentration on electroosmotic permeability of variable charge soil
	Min Yang, XiaoJuan Yang, Honglei Sun, Ángel Yustres, Rubén López-Vizcaíno
Sessi	on 4. Room B. Solid Waste and Circular Economy
9:00	Invited lecture. Construction of unbound granular layers using steel slag - Performance compared to natural reference material on a road in use António José Roque, Antonio Gomes Correia, Eduardo Fortunato
9:20	Invited lecture. An Alternative Approach to Reusing Mine Waste in Underground Mines: CPB
	Okan Yüksel, <u>Oznur Karaca,</u> Tugay Aktaş
9:40	Effect of particle size distribution on mechanical strength of tyre enhanced cemented rock fill
	Mithushi Wickramasinghe, Bre-Anne Sainsbury, Susanga Costa
9:50	Utilisation of Industrial By-Products in Base Course of Flexible Pavements: A Resource Optimization Approach
	<u>Mohsin Qureshi</u> , Mohammed Rumhi, Ghassan Al Kindi, Ali Al Shamakhi, Wadhah Tawfeeq, Osama Ragab Abdelaziz Ibrahim, Hajir Al-Handasi
10:00	Waste-to-Energy Incinerated Residues (WtFIR): Pros and Cons

10:10 Selective extraction sequence of polyphenols from winemaking waste based on solubility

Iván Montenegro, Elena Gómez, Ángeles Domínguez, Begoña González

Surender Singh, Prithvendra Singh, Devendra Narain Singh

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Session 4. Room C. Sustainable Geo-Infrastructure

9:00	Hydro-mechanical behaviour of bentonite-geopolymer mixtures Alessandro Ziccarelli, Renato Maria Cosentini, Esthelyne Ngwenoh Agha, <u>Guido Musso</u>
9:10	Transforming Industrial Waste into Sustainable Roads: A Step Toward SDG-Driven Infrastructure Satyajit Patel, Hrushikesh Kedar
9:20	Study on Sustainable Cement Mortar with Activated Charcoal Powder and Fly Ash Rao P N, Padmavathi Viswanadham
9:30	Behavior Evaluation of Embankments Composed of Soft and Organic Soils Mixed with Red Clays in Field and Laboratory Tests <u>Antonio Damasco Penna</u> , Cleitton Pereira, Mariane Souza
9:40	Numerical Analysis of Combined Piled Raft Foundation as a Sustainable Foundation Solution for High-Rise Structures <u>Aman Garg</u> , Vishwas Sawant, Khrawboklang Kharsyiemiong
9:50	Determination of Filtration Parameters of Recycled Concrete Aggregate - Geotextile Systems under Different Conditions Mehmet Halil Çalim, Ayşegül Bayın Sarıahmetoğlu, Asli Yalcin Dayioglu, <u>Mustafa Hatipoglu</u> Sabriye Banu Ikizler
10:00	Sequential Leaching Characteristics of Fresh and Aged Electric Arc Furnace Steel Slag with Clayey Subgrades Bilal Korkmaz, <u>Asli Yalcin Dayioglu</u> , Mustafa Hatipoglu

10:10 Strength Characteristics of Fiber Reinforced Kaolinite Clay Stabilized using Marble Dust Ashish Kishore, Hemant Chore, Vipendra Singh Jhinkwan, Aditya Ahirwar

Session 4. Room D. Solid Waste and Circular Economy

10:10 The efficiency of waste ash in soil stabilization Chung Yee Kwok, Wei Li, <u>Asen Liu</u>

9:00	Geotechnical properties of compacted tungsten tailings for potential use in transportation infrastructures Jandira Oliveira Domingos, João Pedro Oliveira, Luis Araújo Santos, <u>Paulo Coelho</u>
9:10	Variability of waste clay hydrogeotechnical properties, and practical consequences for use in hydraulic barriers
9:20	<u>Eivind Ånes</u> , Chuangxin Lyu, Gudny Okkenhaug, Tae Heon Kim, Thomas Pabst Characterisation of pectin extracted from orange waste with aqueous solutions of organic acids
	Bochra Benabed, Eva Rodil, Héctor Rodríguez
9:30	Geotechnical Characterization of Grout in Different Compositions for Extensometer Applications
	Hasan Firat Pulat, Simon Dehout, Anne-Catherine Dieudonné, Julia Gebert
9:40	Sustainable utilization of sandstone construction waste as paver block material <u>Aravinda Kumar Vasu</u> , Pradeep Kumar Dammala, Bhupendra Singh, Anuj Bind
9:50	Graphite Recovery and Synthesis of Graphene Derivatives from Spent Primary and Secondary Batteries <u>Pratima Kumari</u> , Sukha Ranjan Samadder
10:00	Applicability of Waste Marble Slurry-Desert Sand as a Crust to Mitigate Wind Erosion of Sand Dunes
	<u>Sumaja Kolli,</u> Ahsan Ul Haq, Pradeep Kumar Dammala, Krishna R. Reddy

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Session 5. Room A. Solid Waste and Circular Economy

- 11:00 Invited lecture. Lab-Scale Assessment of Effect of Sodium Polyacrylate on the Shear Strength of Wet Coal Combustion Residuals Milind Khire
- 11:20 **Invited lecture.** Innovation Projects in Agroforestry Waste Valorization Ana Magdalena Pérez-Lafuente, Raquel Ledo
- 11:40 Determination of geotechnical properties of compacted iron mining tailings for reuse in earthworks
 Maria Eugenia Gimenez Boscov, Guilherme Lourenzi, Luis Santiago, Eduardo Terceiro
- 11:50 Compaction Behavior of Marginal Lateritic Soil modified with Different Shapes of Plastic Waste
 Ahmad Idris, Aminu Suleiman, Gambo Haruna Yunusa
- 12:00 Impact of Ca and Na bentonite on the consolidation behaviour of red mud Pramadhanatha Reddy Pocha, Ramakrishna Bag
- 12:10 Predicting Dry Density of Subgrades Stabilised with Agro-Industrial Byproducts: Comparison of Tree-based Ensembles and Genetic Programming Hamed Faizi, Abbas El-Zein
- 12:20 Short-Term Strength Gain in Foundry Sand-MgO Composite Under Temperature Curing with Varying MgO and Water Content
 Ranita Ray, Basil Jaimon, Amisha Nair, Sreedeep Sekharan, Uttam Manna

Session 5. Room B. Sustainable Geo-Infrastructure

- 11:00 **Invited lecture.** Assessment of Rainfall Influence on the Stability of Ash Dykes Jaswanth Reddy Banka, Goushya Begum, Kummari Sekhar, <u>Hanumantha Rao Bendadi</u>
- 11:20 Effect of the dry-wet cycle on the durability characteristics of carbonated and non-carbonated recycled soil
 Thang Bui Anh, Kimitoshi Hayano, To T. Phuong Anh
- 11:30 Investigating the Effect of Degree of Saturation on Surplus Soils Treated with Inorganic Waste-based Binders Under Different Compaction Energy

 <u>Alula Kassa</u>, Kimitoshi Hayano
- 11:40 Consolidation Behaviour of Soft Clay Under Different Drainage Conditions Parinith Ramakrishna, Thyagaraj T
- 11:50 Geoinfrastructural Sustainable Approach for Identifying Shallow Subsurface Sandwiched Layers through ERT and MASW Techniques

 <u>Prabhakar Vishwakarma</u>, Animesh Mandal
- 12:00 Desert Sand Stabilization through Waste Marble Slurry Powder-based Geopolymerization: Compressive Strength and Microstructural Characterization Anuj Bind, Sumaja Kolli, Pradeep Kumar Dammala, Hanumantha Rao Bendadi, Rajyalakshmi Garaga
- 12:10 Impact of wall-to-wall Connections on the Stability of Back-to-Back RRR-B Walls under a Dual High-Speed Railway line
 Azmach Lole Gebeyehu, Bappaditya Manna
- 12:20 Assessment of Drainage and Filtration Properties of Fly Ash Based Sand Subhash Namhata, <u>Kummari Sekhar</u>, Hanumantha Rao Bendadi

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Session 5. Room C. Geoenvironmental Pollution Control

- Keynote. From Brownfields to Brightfields: The Benefits of Solar landfills on Closed Sites Eugeniusz Koda, <u>Magdalena Daria Vaverková</u>
- 11:30 Contaminant Transport in Sand-Bentonite Composite Landfill Liner: Effect of Sand Gradation Mahender Reddy R, Giridhar Rajesh Bande
- 11:40 Subsurface Permeability Profiling at an MSW Dumpsite: Insights from CPT and HPT Pranjal Singh, Deepak Kumar Haritwal, Gv Ramana, Manoj Datta
- 11:50 Hydraulic Conductivity of Conventional Sodium Geosynthetic Clay Liners to Synthetic Coal Combustion Product Leachate Asena İrem Demir Sürer, Nilhan Demirci, Ali Hakan Ören
- 12:00 Hydraulic conductivity of P-GCLs with different mass per unit area values against bauxite liquor Hüseyin Efe Kayrak, Taylan Cem Aytekin, Ali Hakan Ören
- 12:10 A Perspective on Emerging Issues of Microplastic Pollution in Western and Southern Waters of Hong Kong Shafeeque ur Rehman, Chi Hung Tang
- Sugarcane Bagasse Ash and Waste Glass Powder Blended Ternary Concrete for 12:20 Sustainable Infrastructure Navaneetha E, Rao P N, Bahurudeen A
- 12:30 Evaluation of the Efficiency of Mixture of Moringa Seed and Banana Peel Powder as a Coagulant in Wastewater Treatment (Batik Effluent as a Case Study) Adekunle Olorunlowo David, Julius Musyoka Ndambuki, Jacques Snyman, Williams Kehinde Kupolati, Mpho Muloiwa, Samuel Ayomikun Owolabi, Ajibola Toheeb Lakoja

Session 5. Room D. Sustainable and Resilient Practices

- 11:00 The Role of Augmented Reality and Governance in Improving Labour Productivity for Building Inventories: Insights from the Binckhorst Area Juan Carlos Navares Vázquez, Clara García, Rizal Sebastian, Mario Villalba Ferreira, Danielle Strydom, Simon Duindam, Mark Lommen, Ana Sánchez Rodríguez, Pedro Arias, Jesus Balado
- 11:10 Sustainable and Resilient Steel Structures: A FEM-Based Analysis of Clamp Connections with IPE220 Profile Fernando Nunes Cavalheiro, Manuel Cabaleiro Núñez, Borja Conde Carnero, Yago Cruz
- 11:20 Advanced non-destructive techniques and digital tools for sustainable structural analysis and management Yago Cruz, Joel Cruz, J. Carlos Caamaño, Manuel Cabaleiro, Borja Conde, Belen Riveiro
- 11:30 Impacts of Nanoparticles Application on Human Health and Environment: A Critical Review Krishna Kant, Jayanti Munda, Amit Kumar Nayak, Supriya Mohanty
- 11:40 Influence of Sodium Sulfate Solution on the Behavior of Expansive Soil Treated with Carbide Lime Narmada N, Thyagaraj T
- 11:50 Preliminary Investigations on the Accurate Prediction of Daily Discharge in the Ravi River: A Case Study Jagdish Rai, Mahesh Patel
- 12:00 Utilization of Recycled Aggregates in the Development of Sustainable Fibre-Reinforced Concrete Blocks with Cementitious Materials Omo Yachang, Jackie Brahma

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- 12:10 Behaviour of Expansive Soil Stabilised with Charcoal and Flyash for Pavement Subgrade Material Padmavathi Viswanadham, Rao P N
- 12:20 Integrated Electrochemical Technologies for Wastewater Treatment and Soil Remediation: Tackling Contaminants of Emerging Concern and Pathogens Nazaré Couto, Paula Guedes, Ana Rita Ferreira, Vanessa G. Correia, Raquel Carvalho, João Brinco, Alexandra Ribeiro, Eduardo Mateus

Session 6. Room A. Environmental Geotechnics for Climate Change

- 14:30 **Invited lecture.** Hexavalent Chromium (Cr(VI)) Immobilization in Cement via Chemically Driven CO₂ Mineralization

 <u>Junboum Park</u>, Kian Cho
- 14:50 Data-Driven Surrogate Model-Based Optimization of Leachate Recirculation for Maximum Energy Recovery from Landfills

 Jagadeesh Kumar Janga, Krishna R. Reddy
- 15:00 Engineering Properties of Cement-treated Soil with Different Types of Biochar Yuhei Kurimoto, Yoshiharu Asaka
- 15:10 Gas transport in low permeability clay-based barriers Laura Gonzalez-Blanco, Enrique Romero
- 15:20 The problem of coastal erosion on the Azores islands (Portugal)
 Ana Maria Malheiro, Paulo Amaral, Filipe Marques, Letícia Moniz, André Santos
- 15:30 Electrical Impedance Spectroscopy for Monitoring Non-isothermal Processes During CO₂
 Injection
 Yogendra Narayanan S, Devendra Narain Singh
- 15:40 Indicator-Based Resilience Assessment of Biogeochemical Cover Systems for Landfill Gas Mitigation

 <u>Gaurav Verma</u>, Krishna R. Reddy

Session 6. Room B.

14:30 Workshop on Scientific Publishing Swati Meherishi (Springer Nature)

Poster Session

Poster 1 (#062) Evaluation of modified culture media obtained from liquid and solid residual fractions of corn steep liquor, after biosurfactant and Gramicidin extraction, for Lactobacillus pentosus fermentation

<u>Noelia González Fernández</u>, Ksenia Lvova, Guadalupe Bustos Vázquez, Alejandro López Prieto, Benita Pérez Cid, Xanel Vecino, José Manuel Cruz, Ana Belén Moldes

Poster 2 (#063) Evaluation of microfiltration and ultrafiltration hollow fiber membranes for suspended solid removal from corn steep water prior to biosurfactant recovery Gabriel Figueira, <u>Andrea Martínez-Arcos</u>, José Manuel Cruz, Ana Belén Moldes, José Luis Cortina, Mònica Reig, Xanel Vecino

Poster 3 (#156) The influence of failure pattern on the tensile strength of plant roots from Salix sp. Otim Gerald Innocent, Zhelezova Alena, Sorrentino Gianmario, Rocchi Irene, Trapp Stefan

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Poster 4 (#179) Applications of Microbial Cellulose: A Byproduct of the Kombucha Production Industry

Susana Gouveia, Claudio Cameselle

Poster 5 (#203) A comparison of the stripping capabilities of water-biobased solvents microemulsions as paint strippers with commercial solvents

<u>Santiago Urréjola-Madriñán</u>, Angel Sanchez Bermúdez, Ana-María González-Sánchez, Mercedes Pardo-Clavijo, Clara Rodríguez-García

Poster 6 (#317) Biochar as a promoter of the circular economy in environmental remediation Antón Puga, Ana Rita Alves, Cristina Soares, Cristina Delerue-Matos

Poster 7 (#330) Merging tuneability and toxicity of Ionic Liquids for the removal of hydrophobic aromatic pollutants

Fátima Moscoso Díaz, Marta Markiewicz, Stefan Stolte

Poster 8 (#138) Analysis of Underseepage in the levee of the Danube River Edina Koch, Richard Ray, Mais Mayassah

Poster 9 (#224) LCA of embankment construction with carbonated co-combustion fly ash <u>Davor Kvočka</u>, Marija Đurić, Vesna Zalar Serjun, Primož Pavšič, Primož Oprčkal

Poster 10 (#324) Hydro-Soil-Biota-Atmosphere Coupling Modelling: The study of porosity changes effect on stability of agriculture soils

George Appiah-Kubi, Xiaohui Chen, Ana Heitor, Kai Wang

Poster 11 (#236) Geological factors responsible for the variations in radon exhalation rates across a building

Lorena Gonzalez-Gil, Arturo González-Gil, <u>Lara Febrero-Garrido</u>, Jorge Feijoo, Mercedes Solla, Antón Cacabelos-Reyes

Poster 12 (#278) Assessment of Electrokinetic Treatment and Associated Health Risks of Metalcontaminated Sites

Sonam Taneja, Anil Kumar Haritash, <u>Oznur Karaca</u>

Poster 13 (#133) Development of burning- and cement-free eco-efficient bricks using soils, wastes, and cassava wastewater

Francisco Almeida Angelo, Gustavo Ferreira Simoes

Poster 14 (#163) An attempt to develop procedures for characterizing construction and demolition waste for application in gabion retaining structures

Maria Clara Alves Ferreira Ramos, Gustavo Ferreira Simoes

Poster 15 (#153) Evaluating the presence of impurities and microplastics in amendments and digestates from organic wastes

<u>Bess Alicia Newrick</u>, Adriana Laca, Amanda Laca, José Manuel González La Fuente, Laura Megido

Poster 16 (#170) Production of enzymatic cocktails by solid-state fermentation of marine discards Martín Cid Fernández, Aida Ochogavias, Alicia Paz, Manuel Domínguez

Poster 17 (#171) Evaluation of protein production by solid state fermentation of marine discards using Rhizopus oligosporus CECT 20169

<u>Aida Ochogavias</u>, Martín Cid Fernández, Alicia Paz, Manuel Domínguez

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- Poster 18 (#173) Assessment of the potential reuse of tailings from past tungsten mining Joana Ribeiro, Filipa Almeida, Beatriz Silva
- Poster 19 (#178) AutoML risk analysis for potential mineral enrichment areas
 Abraham Novas Verde, María Pazo, Margarida Antunes, Eduardo Giraldez, María Araújo
- Poster 20 (#210) Applying green solvent extraction to obtain high-valued protein from adult insects (beetles)
 - <u>Francisco Manuel Soto Beltrán</u>, Helena Fernandes, Nuno Muñoz-Seijas, Borja Fernandez, Jose Manuel Salgado, Manuel Domínguez
- Poster 21 (#212) Use of insect frass to obtain high valued enzymes via solid-state fermentation <u>Borja Fernández</u>, Helena Fernandes, Nuno Muñoz-Seijas, Francisco Manuel Soto Beltrán, José Manuel Salgado, Manuel Domínguez
- Poster 22 (#220) Foundry waste based geotechnical composite Marija Đurić, Alenka Sešek Pavlin, <u>Primož Pavšič</u>, Davor Kvočka
- Poster 23 (#226) Management and impact of the disposal of used cooking oil on the sands of Copacabana beach, Rio de Janeiro, Brazil
 - Rodrigo Leal, Glaucio Honório, <u>Ana Ghislane van Elk,</u> Gabriel Mendes, Ana Clara da Silva Coelho
- Poster 24 (#233) Assessment of biosurfactant extracts obtained from Brewer's spent grain for oil dispersion applications
 - N. Russo-Martínez, Ana B. Moldes, Xanel Vecino, Jose M. Cruz
- Poster 25 (#235) Utilizing Coconut Waste in Construction: A sustainable Approach for a Circular Economy
 - Maíta Rosa, Romildo Toledo Filho, Ana Ghislane van Elk
- Poster 26 (#269) Stabilization of Municipal Solid Waste Reject Using Cement and GGBS Shivam Verma, Prashant Kumar, <u>Bala Ramudu Paramkusam</u>, Ankit Gupta
- Poster 27 (#318) Inclined plane shear testing of interfaces between a recycled aggregate from construction and demolition waste and nonwoven geotextiles

 José Ricardo Carneiro, Maria de Lurdes Lopes
- Poster 28 (#319) The use of incinerator bottom ash in road construction: an overview José Ricardo Carneiro, <u>Maria de Lurdes Lopes</u>
- Poster 29 (#335) Electrical and mechanical properties of cementitious materials obtained from foundry slags and short carbon fiber.
 - <u>Nuria Pereira Pinto</u>, David Álvarez González, Aránzazu Pintos, Javier García-Rey, Belén Díaz, X. Ramón Nóvoa
- Poster 30 (#340) Succinic acid solutions to get pectin from orange inner peel: optimisation of extraction conditions
 - Bochra Benabed, Eva Rodil, Héctor Rodríguez
- Poster 31 (#073) Direct tension test of sand stabilized with ground granulated blast-furnace slag <u>Tsutomu Namikawa</u>, Kousuke Nakajima
- Poster 32 (#129) Use of copolymers and cement for stabilization of loess soils Atanas Zlatarov, Andrey Totsev, Grisha Ivanov

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Poster 33 (#250) Prospects of decommissioned wind turbine blades as a structural stabilizing element of excavations and slopes - preliminary studies.

Michal Jurek, Lidia Buda-Ożóg

Poster 34 (#275) Fabrication and testing of resilient geocells Aarya Krishna, Madhavi Latha Gali

Poster 35 (#348) Synergistic Effect of Cement-Fly Ash Stabilization and Fibre Reinforcement on Soil Strength

Omo Yachang, Ajanta Kalita, Taku Muni

Poster 36 (#207) Removal of two azo dyes with different ionic natures by adsorption onto a hydrotalcite-type layered double hydroxide Santiago Urréjola-Madriñán, Lorena Gonzalez-Gil, Pedro Hidalgo, Rosa Devesa-Rey

Poster 37 (#251) Variations in Mechanical Strength of Enzymatically Induced Calcite <u>Preity Yadav</u>, Dr. Amit Prasad, Dr. Uday Kala

Poster 38 (#293) Durability study of mortar samples prepared with foundry slags Nuria Pereira Pinto, David Álvarez, Aránzazu Pintos, Belén Díaz, X. Ramón Nóvoa

Poster 39 (#041) Effects of alternative electrolytes on the removal of hexavalent chromium from paint sludge by electrokinetic remediation

<u>Aicha Metali</u>, Mounir Ziati, Claudio Cameselle, Susana Gouveia

Poster 40 (#187) Effect of Molding Water Content and Curing Time on the Hydromechanical Behavior of Soils Stabilized with Ground-granulated Blast-furnace Slag Shabana Salih K, <u>Dr Vandana Sreedharan</u>