	June 9th 2023		
Time	Speaker	Affiliation	Торіс
09:00	Greeting		reeting
09:10	Keynote Presentation		
	Jessica Schneider	CSO & Co-Founder of MiViA – AI powered material analysis; Institute of Metal Forming, TUBAF	Starting a buisiness focusing on AI-based metallographic analyses for automated evaluation
09:40 - 10:20	Oral Presentations: Session 1 – Battery Development and Recycling		
09:40	Oliver Schmidt	Institute of Experimental Physics, TUBAF	Novel Current Collectors for Post-Lithium Energy Storage Systems using Thin-Film Coating and Flash Lamp Annealing
10:00	Mareike Fritze	Institute of Biosciences, Work Group Biohydrometallurgy/ Microbiology, TUBAF	ReLiFe: Recycling Lithium Ferrophosphate – biotechnological possibilities
10:20 – 11:05	Poster Session 1		r Session 1
	Katarzyna Kwiecien	Institute of Bioscineces, Workgroup Environmental Microbiology, TUBAF	Characterization of <i>Alicyclobacillus</i> sp. S09 in relation to the importance of different cultivation substrates and yeast extract components
	Szymon Kwiecien	Institute of Metal Forming, TUBAF	Analysis of the effects of increased copper and tin content in cold forging steels
	Yen-Ming Li	Institute of Experimental Physics, TUBAF	Challenge of assembling reproducible pouch cells
	Shuvrodev Biswas	Institute of Experimental Physics, TUBAF	Composite Cathode Materials for Improved Iono-Polymer Aluminium Batteries

	Dina Friebel Duncan Maina Catinca Roth Julien Göthel Ghazal Kooti	Institute of Analytical Chemistry, TUBAF Geotechnical Institute, TUBAF Frankfurt University of Applied Sciences Institute of Iron and Steel Technology, TUBAF Chair of Eingineering Geology and Environmental Geotechnics, TUBAF; Department of Petroleum Engineering, Amirkabir University of Technology, Tehran, Iran	Direct process accompanying analysis of biomass for critical elements in combusting processes with ETV-ICP-OES The effect of the intermediate principal stress on pillar strength The Significance of Role Models for Future Executives: Does Gender Matter? The use of iron ores to implement a closed oxidation and reduction cycle as an energy storage concept Developing a Population Balance Mathematical Model to Study Water-in-Oil Emulsion Behavior in Electrostatic Crude Oil Coalescers
	Muntasir Shehab	Institute of Geotechnics, TUBAF	Predicting swelling pressure of bentonite and bentonite mixtures using various machine learning approaches
11:05 – 11:20	Break		Break
11:20	Keynote Presentation		
	Pascal Koch	Founder of IMENSUS – Space Resource Exploration; Christian-Albrechts-Universität zu Kiel	Starting a business focusing on the exploration of extra-terrestrial resources for space mining companies
11:50 – 12:30	Oral Presentations: Session 2 – Analytical and Inorganic Chemistry		
11:50	Lara Dütsch	Institute of Analytical Chemistry, TUBAF	Structural characterization of the extracellular matrix of the diatom <i>Didymosphenia geminata</i> with multiple spectroscopic methods

12:10	Felix Sieg	Institute of Inorganic Chemistry, TUBAF	High-pressure synthesis and property determination of spinels in the elemental system Ge-Ga-Cr-O-N
12:30 - 13:30	Break		
13:30 - 14:30	Oral Presentations: Session 3 – Mine Waters and Artificial Systems		
13:30	Anita Sanchez	Institute of Mineralogy, TUBAF	DOM Characterization and Metal Analysis for Water Passage through a Historic Mine Drainage
13:50	Timm Wunderlich	Chair of Technical Thermodynamics, TUBAF	A Green District Concept by Using Geothermal Mine Water Energy
14:10	Volker Göhler	Chair of Artificial Intelligence and Databases, TUBAF	A Model for Empathic Response in Artificial Systems
14:30 – 15:15	Poster Session 2		
	Faith Chebet Tumwet	Chair of Hydrogeology and Hydrochemistry, TUBAF; Zittau Institute of Process Development, Recycling Management, Surface Technology, and Natural Substance Research, University of Applied Sciences Zittau/Görlitz	Morphology-dependent fragmentation of PVC microplastic particles influence their transport in saturated quartz sand columns
	Mulatu Sigiso Defacho	Institute of Geotechnics, TUBAF; Faculty of Civil and Environmental Engineering, Jimma Instituteof Technology, Jimma University	Development of low-cost pollutant removal adsorptive technics for industrial effluents

	Clemens Hartmann	Institute of Geology, TUBAF	Concentration and chemical bonding conditions of metal(loid)s in mining contaminated subaquatic sediments of the Hüttenteich near Berthelsdorf, Saxony, Germany
	Bastian Wiggershaus	Institute of Analytical Chemistry, TUBAF	Micro-Discharge Optical Emission Spectroscopy – Main component and trace analysis of saline solutions by generating micro plasmas directly in solution
	Karsten Meiner	Institute of Nonferrous Metallurgy and Purest Materials, TUBAF	Investigation about arsenic separation from alkaline sulfide leaching solutions obtained by copper concentrates
	Konrad Burkmann	Institute of Physical Chemistry, TUBAF	Thermodynamic Study of Zirconium and Hafnium Boranate - $Zr(BH_4)_4$ and $Hf(BH_4)_4$
	Lúcia Pedrosa	Chair of Hydrogeology and Hydrochemistry, TUBAF	Analysis of flow patterns and conditioning factors under single-track railways
	Korbinian Heimler	Institute of Analytical Chemistry, TUBAF	Confocal Micro X-Ray Luorescence Spectrometer for Nondestructive and Depth-Resolved Element Analysis
	Cristian Jorquera Román	Institute of Biosciences, Work Group Environmental Microbiology, TUBAF	Characterization of a novel acidophile chemolithotrophic As(III) oxidizer strain: <i>Acidiphilium acidophilum</i> CJR1
	Mohammed Shakeer Khan	Foundry Institute, TUBAF	Amine Detection on a Simplified Curing Setup of PU Cold Box System
15:15 – 15:45	Break		
15:45 – 16:45	Oral Presentations: Session 4 – From Semiconductors to Architecture		
15:45	Marieke Zickner	Institute of Electronic and Sensor materials, TUBAF	Ternary Semiconductor Quantum Dots for Photocatalysis

Ī	16:45 -17:00	Closing Remarks		
	16:25	Maren Weissig	Faculty of Architecture, TU Dresden	Zwischen Welpenbonus und Beuteschema - Between study and professional place of activity, path dependencies of the architectural profession
	16:05	Hannah Keese	Geotechnical Institute, TUBAF	The goal of using Open Source Software