TIME SCHEDULE OF THE 9TH INTERNATIONAL POSTGRADUATES SEMINAR

Time	Presenter	University	Presentation		
Meeting website		Voov Meeting (https://voovmeeting.com/) Meeting ID: 748 1880 0457 Tencent Meeting (https://meeting.tencent.com/) Meeting ID: 748 1880 0457			
Thursday 16th, October, 2025 18:25-22:40 (GMT+8)					
18:25-18:40	Opening ceremony (Host: Dr. Patrick Gehre)				
	Speech from Vice president of Wuhan University of Science and Technology Prof. Teng Ma				
	Speech from President of Federation for International Refractory Research and Education Mr. Chris Parr				
	Speech from rotating chairperson, Technische Universität Bergakademie Freiberg Dr. Patrick Gehre				
Session A, Chair: Dr. Sido Sinnema					
18:40-19:00	Dahee Gwak	Seoul National University, South Korea	Phase equilibria in the CaO-MgO-Al ₂ O ₃ system: MgO and MgAl ₂ O ₄ solubility in liquid slag at 1550–1600 °C		
19:00-19:20	Qianchao Ma	China University of Geosciences (Beijing), China	Development of novel $\mathrm{Na_4Ca_3(AlO_2)_{10}}$ material with exceptional alkali corrosion resistance		
19:20-19:40	Bruno Reitmann Pagliarini	Federal University of Sao Carlos, Brazil	Tailoring titania content to design Al ₂ O ₃ –MgO–TiO ₂ flexible castables		
19:40-20:00	Zexian Wang	Wuhan University of Science and Technology, China	ML driven nanoindentation micromechanical analysis of carbon-bonded alumina refractories		
Session B, Chair: Prof. Shengli Jin					
20:00-20:20	Patricia Kaiser	Technische Universität Bergakademie Freiberg, Germany	Effect of different pre-oxidation treatments on the corrosion resistance of mgo/steel-composite anodes for the aluminum industry		
20:20-20:40	Jinling Shi	Wuhan University of Science and Technology, China	Enhanced thermal shock resistance of microporous MgO–MgAl ₂ O ₄ refractory aggregates with low thermal conductivity from MgO powder and α -Al ₂ O ₃ micro-powder		
20:40-21:00	Joanna Przystaś	AGH University of Krakow, Poland	Whiskers in refractory materials		
21:00-21:20	Túlio Mumić Cunha	Federal University of Sao Carlos, Brazil	A numerical method for weepholes desing for fast and safe drying of monolithic materials		
Session C, Chair: PrivDoz. DI Dr. mont. Dietmar Gruber					
21:20-21:40	Cristian Bohorquez	Technical University of Leoben, Austria	Evolution of the microstructure in a Phosphate-Bonded Alumina Refractories due to exposure to H ₂ at 900°C and influence on mechanical behavior		
21:40-22:00	Chuanhao Li	Henan University of Science and Technology, China	High-throughput intelligent computation of Al ₂ O ₃ –Cr ₂ O ₃ solid solutions		
22:00-22:20	Dinesh Kumar Gunasekar	Technische Universität Bergakademie Freiberg, Germany	Sustainable refractory development using MgO-C recyclates and eco-friendly binder systems		
22:20-22:40	Otavio Henrique Borges	Federal University of Sao Carlos, Brazil	Tailoring refractory raw materials: eco-friendlier alternatives to magnesia-chromium aggregates		

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Friday 17th, October, 2025 18:00-22:30 (GMT+8)					
Session D, Chair: PrivDoz. DrIng. habil. Patrick Gehre					
18:00-18:20	Yu Xiwen	China University of Geosciences Beijing, China	Preparation and properties of MgAl ₂ O ₄ -ZrO ₂ -Mg ₂ SiO ₄ multiphase materials for lithium battery cathode saggar		
18:20-18:40	Seungjae Park	Seoul National University, South Korea	CALPHAD Type description of systematic thermodynamic modeling of ZrO_2 - RE_2O_3 binary systems (RE = Y, La-Lu)		
18:40-19:00	Fanbo Zeng	Wuhan University of Science and Technology, China	A novel turing pattern corrosion behavior on slag/refractory interface and its inhibition mechanism by Ce ions		
19:00-19:20	Eduardo Gabriel de Oliveira Gomide	Federal University of Sao Carlos, Brazil	Enhancing the application of refractory castables by bridging laboratory and industrial realities		
Session E, Chair: Prof. Yajie Dai					
19:20-19:40	Ruiqi Cao	Northeastern University, China	Research on the reuse of post-use alumina-based refractorie		
19:40-20:00	Luís Otávio Zaparoli Falsetti	Federal University of Sao Carlos, Brazil	Investigating a machine learning model to estimate slag properties and foamability		
20:00-20:20	Zhiyuan Xu	Shanghai University, China	Enhancing the properties of Al_2O_3 -SiC-C castables through the in-situ growth of $Al_4Si_2C_5$ platelets at high temperatures		
20:20-20:40	Alexander Schramm	Technische Universität Bergakademie Freiberg, Germany	Effect of MgO-C recyclates on the thermo-mechanical properties of commercial MgO-C refractory bricks		
Session F, Chair: Ass. Prof. Ilona Jastrzębska					
20:40-21:00	Yun Ching Lin	Delft University of Technology, The Netherlands	Dense-to-cracked double-layer oxide scale in ZrC ultra-high temperature ceramic		
21:00-21:20	Oliwia Pająk	AGH University of Krakow, Poland	Wettability and corrosion by copper slag of MgO, Al ₂ O ₃ , ZrO ₂ , MgCr ₂ O ₄ , MgAl ₂ O ₄ , ZnAl ₂ O ₄ and Mg ₂ SnO ₄		
21:20-21:40	Chunzhuo Feng	Xi'an University of Architecture and Technology, China	Enhanced oxidation and slag corrosion resistance of low- carbon Al ₂ O ₃ -C refractories by introducing CNTs/MgAl ₂ O ₄ whiskers		
21:40-22:00	Livia Gabrielle Pacifico	Federal University of Sao Carlos, Brazil	Development of high-temperature porous refractories via dealloying-inspired ZnO volatilization		
22:00-22:20	Martin Tiberio	Technical University of Leoben, Austria	Investigations into the effect of brittleness reduction in magnesia spinel refractories		
22:20-22:30	Closing Remarks and Award Ceremony				
	Closing remarks and speech from Director of State Key Laboratory of Advanced Refractories (WUHAN), WUST, Prof. Yawei Li				
	Award cerenony by Executive Chief of Staff of Federation for International Refractory Research and Education: Dr. Sido Sinnema				
Presentation:					

Presentation:

15 minutes Oral presentation and 5 minutes Q&A

