

Sunday May 15		Monday May 16	Tuesday May 17	Wednesday May 18	
9h	Opening of EMABM	Welcome addresses – celebrating 140 years of clinker microscopy	Session 4: petrography of aggregates <i>Chair: Josée Duchesne</i>	Session 7: present and future of building materials micrographic analysis <i>Chair: Karl Peterson</i>	Workflow for high-resolution phase segmentation of cement clinker from combined BSE image and EDX spectral data <i>Mingze Jiang, Christiane Rößler, Eva Wellmann, Jop Klaver, Florian Kleiner, Joyce Schmatz</i>
9h20	Session 1: « warm-up » and historic materials <i>Chair: Laurent Izoret</i>	Boosting the petrographer's imagination <i>Peter Laugesen</i>	Mineralogical characterisation of Polish Coal Gangues and assessment as a potential concrete aggregate <i>William Nash, Violeta Ramos, Jens Andersen, Gavyn Rollinson, Rich Crane</i>	Simple automation of SEM-EDS spectral maps analysis with Python and the edxia framework <i>Fabien Georget, William Wilson, Karen L. Scrivener</i>	
9h40		Roman Stone — Toronto's original precast concrete <i>Lucas Herzog Bromerchenkel, Karl Peterson, Ezekiel Schladen</i>	Petrographic insights in the oxidation potential of pyrrhotite-bearing aggregates in concrete: a case study from Trois-Rivières (Québec, Canada). <i>Bruno Titon, Josée Duchesne, Benoît Fournier</i>	Automated Quantification of Fracture Networks in Thermally Treated Granite <i>Ekaterina Ossetchkina, Afeez K. Popoola, Kareem Ramzy Aboyanah, Thomas de Boer, Earl Magsipoc, Julie Younes, Karl Peterson, Giovanni Grasselli</i>	
10h00		First historical cements in France from Boulogne-sur-Mer: Investigations on 19th century's manufactured cement-based monuments. <i>Marwa Jebbawy, Vincent Thiery, Myriam</i>	Tapas de sílice – a smörgåsbord of reactive mineralogies and textures <i>Lucas Herzog Bromerchenkel, Oleksiy Chernoloz, Pengfei Zhao, Ekaterina Ossetchkina, Karl Peterson</i>	Combined LA-ICP-MS and SEM EDX analyses for spatially resolved major, minor and trace element detection in cement clinker phases <i>Florian Kleiner</i>	

*Bouichou, Elisabeth
Marie-Victoire,
Catherine Davy, Laurent
Izoret, Cyrille Albert-
Mercier, Myriam
Moreau*

	10h20	Coffee break		Coffee break	Coffee break
10h40	Session 2: ageing of concrete Chair: Oğuzhan Çopuroğlu	Five years of alkali- activated slag concrete prism expansion with reactive coarse aggregate <i>Lucas Herzog Bromerchenkel, Alireza Dehghan, Karl Peterson</i>		Evaluation of alkali-silica reactivity of aggregates commonly utilized in Metro Manila, Philippines: Petrographical examination of mortar bars <i>Maria Elizabeth S. Laus, Marlon T. Conato, Carlo A. Arcilla, Nancy R. Aguda, Chelly Mei N. Tanpoco, Kate B. Cuyno, Jeremy James C. Jimenez, Ramon D. Quebral, Antonio J. Reyno, Richard L. Ybañez</i>	Open-source deep learning-based segmentation algorithm of concrete microscopic images <i>B. Hilloulin, I. Bekrine, E. Schmitt, A. Loukili</i>
11h		The presence of ettringite in concrete affected by alkali-silica reaction <i>Matthew Piersanti, Medhat H. Shehata</i>	Session 5: pot-pourri of techniques and topics Chair: Andreas Leemann	Effect of fly ash and calcined clay on Alkali Silica Reaction (ASR) – TEM study of the ASR products <i>S. Barbotin-Albinski, E. Boehm-Courjault, K. Scrivener</i>	Method for quantifying the reaction degree of slag in alkali activated cements using deep learning based electron microscopy image analysis <i>Priscilla Teck, Ruben Snellings, Jan Elsen</i>
11h20				Reconstruction of calcium silicate hydrates using multiple 2D and 3D imaging techniques: Light microscopy, μ -CT, SEM, FIB-nT combined with EDX <i>Florian Kleiner,</i>	Announcement of the 19th EMABM in Kassel, Germany – Alexander WETZEL

*Christiane Rößler,
Franziska Vogt, Andrea
Osburg, Horst-Michael
Ludwig*

A quantitative study of the influence of cement matrix impregnation on yarn pull-out strength using combined confocal microscopy and double resin impregnation
Anne-Claire Slama, Rémy Agniel, Jean-Louis Gallias, Bruno Fiorio

Lunch break

Lunch break

**Lunch break
See you in 2024 !**

13h40

**Exhibitors and
sponsors presentation**

**Session 6:
clinker
structure and
admixtures
Chair:
Vincent
THIERY**

Microstructural analysis of cementitious systems with minor elements
*Andrea E. Teixeira P.,
Karen L. Scrivener*

**Workshop
Program sent
separately to
the
participants**

14h20

**Session 3:
into the
cement paste
and new
concretes
Chair: Fabien
Georget**

Growth of C-S-H phases on different metallic surfaces
*Maximilian Schleiting,
Alexander Wetzel,
Daniela Göbel, Philipp
Krooß, Johanna-Maria
Frenck, Thomas
Niendorf, Bernhard
Middendorf*

Incorporating mining wastes into clinker raw feed: case studies from various former antimony mines in the French Massif Central
*Miguéli Chedrewih,
Vincent Thiéry, Arnaud
Gauthier, Fouad Amin*

14h40

Assessment of the self-healing capacity of

Carbonated wollastonite – an effective supplementary

	cementitious materials through active thin sections <i>Emanuele Rossi, Claudia Romero Rodriguez, Henk Jonkers, Oğuzhan Çopuroğlu</i>	cementitious material? <i>Andreas Leemann, Frank Winnefeld, Beat Münch, Florian Läng</i>
15h	Adsorption of PCE in alkali-activated materials analysed by fluorescence microscopy <i>Alexander Wetzel, Janna Link, Bernhard Middendorf</i>	Influence of alumina ratio on reactions at the surface of alite crystals during cooling <i>Matthias Böhm, Aneta Knöpfelmacher</i>
15h20	Posters, cakes, networking and coffee	Chemical-crystallographic characterisation of cement clinkers by EBSD-EDS analysis in the SEM <i>Christiane Rößler</i>
		15h40 Posters, cakes and coffee
		17h Surprise social time
18h00-21h	Cocktail at the museum of natural history	19h Gala dinner