

Copenhagen, Oslo,
Stockholm, Berlin,
Paris, Bratislava
(UTC/GMT +1 hour)

Riga, Tartu
(UTC/GMT +2 hours)

Moscow, Rostov
(UTC/GMT +3 hours)

February 8

February 9

February 10

8h30

9h30

10h30

Welcome

9h00

10h00

11h00

Plenary lecture

Plenary lecture

Plenary Lecture

9h45

10h45

11h45

Coffee Break

Coffee Break

Coffee Break

10h00

11h00

12h00

Scientific lectures

Scientific lectures

Scientific lectures

10h45

11h45

12h45

Coffee Break

11h00

12h00

13h00

Coffee Break

Coffee Break

11h15

12h15

13h15

Poster flash presentations

11h30

12h30

13h30

Scientific lectures

12h00

13h00

14h00

Scientific lectures

Closing remarks and
discussion

12h45

13h45

14h45

February 8 (UTC/GMT +2 hours)

	9.30-10.00	Welcome opening prof. Valdis Segliņš <i>Vice-rector for exact sciences, life and medical sciences of University of Latvia</i> Dr Reiner Dohrmann <i>President of AIPEA</i>
	10.00-10.45	Plenary lecture prof. Kalle Kirsimaä <i>Tartu University</i> <i>Weathering indicators of the environmental change at the oxygenation of the Earth's atmosphere in Paleoproterozoic?</i>
	10.45-11.00	Coffee Break
Scientific lectures	SESSION 1 Clays environmental aspects in geology and modern soils / Stephen Hillier	
	11.00-11.15	Timing and interplay of faulting, hydrothermal alteration and weathering processes of the Rolvsnes granodiorite in southwestern Norway. <i>A.Margreth</i>
	11.15-11.30	Long term soil tillage system influence on loamy soil physical-mechanical properties and crop productivity. <i>I.Vircava</i>
	SESSION 2 Clays in archaeology and arts / Ilze Vircava	
	11.30-11.45	Surveying and researching clay beds in the context of Bronze Age archaeological pottery research: A case study of Dole Island microregion. <i>V.Visocka</i>
	11.45-12.15	Coffee Break
Poster session	Poster session	
	12.15-13.00	Subsurface drainage effect on clay-sized mineral content and mineralogy in two glacial till soils. <i>A.Boča</i>
		Yield of grass mixtures depending on the physical clay content in Luvisol soil. <i>L.Zarina</i>
		Do soluble organic acids bind to basal mica surfaces? <i>J. Dziadkowiec</i>
		Alkaline activation of Illite Clay. <i>M. Randers</i>
		Synthesis, Characterization, and Magnetic Properties of $MA_4(OH)_{12}SO_4 \cdot 3H_2O$ with $M = Co^{2+}$, Ni^{2+} and Cu^{2+} : A Novel Class of 1D Spin Chains. <i>A. Bruhn Arndal Andersen</i>
		Composites of clay minerals and natural pigments: synthesis, characterization and potential in biocosmetics. <i>A. Salmina</i>
		Removal of Co (II) from aqueous solution using organically functionalized silica gel. <i>S.Bashir</i>
		Mineralogical discrimination between authentic and recent imitations of pottery manufacture in Zlakusa, Serbia. <i>M.Milošević</i>

February 9 (UTC/GMT +2 hours)

10.00-10.45 Plenary lecture

Dr. Nicolas Michau *ANDRA Chemical behaviour of clay host rock and clay-based materials under repository conditions in the French context: main achievements and future development for HLW repository implementation*

10.45-11.00

Coffee Break

Scientific lectures

SESSION 3 (1) Clay mineral properties / Ulla Gro Nielsen

11.00-11.15

Investigation of the effect of γ -irradiation on Bentonite clay. *M.Holmboe*

11.15-11.30

Cation exchange processes observed in the third excavated parcel of the Alternative Buffer Material test (ABM-V) in Äspö, Sweden, after heating to 250 °C. *R.Dohrmann*

11.30-11.45

Dissolution mechanism of kaolinite in alkaline media: A DFT study. *G.Lazarenko*

11.45-12.00

Development of yet another classical forcefield for molecular simulations of (clay-)minerals. *M.Holmboe*

12.00-12.30

Coffee Break

Scientific lectures

SESSION 3 (2) Clay mineral properties / Michael Holmboe

12.30-12.45

MgAl hydrotalcite-derived mixed oxides for CO₂ adsorption. *S.Bennici*

12.45-13.00

Insight into the phosphate uptake properties of layered double hydroxides. *U. Gro Nielsen*

13.00-13.15

A computational study of diuron-smectite interactions. *M Rodriguez*

13.15-13.30

In situ monitoring of the structural evolution of germanium-based imogolite nanotubes during dehydroxylation. *E .Paineau*

13.30-13.45

Relationships between structural and FTIR characteristics of kaolinites: new insight. *B.Zviagina*

February 10 (UTC/GMT +2 hours)

10.00-10.45 Plenary lecture
Solvita Kostjukova Ltd ALINA *Commercialization of clay technologies: technology transfer steps and practices in Latvia*

10.45-11.00 Coffee Break

SESSION 4 Clay mineral synthesis / Reiner Dohrmann

Scientific lectures

11.00-11.15 Influence of the precursor and the temperature of synthesis on the structure of saponite. *L.Dzene*

11.15-11.30 Optimization of iron-rich clay mineral synthesis via design of experiments and response surface methodology. *P.Dutournié*

11.30-11.45 Influence of the synthesis parameters on the formation and characteristics of organic-inorganic hybrids having a talc-like structure. *J. Brendlé*

11.45-12.00 Hybrid inorganic-organic lamellar materials containing Fe(III): effect of Fe(III)/Mg(II) ratio on the condensation state. *L.Cipriano Crapina*

12.00-12.30 Coffee Break

SESSION 5 Clay composite based materials / Liva Dzene

Scientific lectures

12.30-12.45 Research of lake clay use in medicine and aesthetic cosmetology. *S.M. Misiņa*

12.45-13.00 Humic substance - clay mineral composites as novel and ecofriendly sorbents for environmental remediation. *J. Burlakovs*

13.00-13.15 Novel pH-sensitive composites containing clay minerals and anthocyanins to monitor meat freshness. *R. Ozola-Davidāne*

13.15-13.30 Functional surfaces of polymer nanocomposites modified with organoclay and methylene blue. *E.Skoura*

13.30-13.45 Characterization of hybrid luminescent materials based on smectites, Rhodamine 6G and cationic surfactants. *M.Barlog*

Closing remarks

Dr. geogr. Juris Burlakovs Chairman of the Board of Latvian Clay Science Society