

## May 17, Sunday

8:00	18:00	<b>One-day field trip to the Balaton Highland</b>
17:00	18:00	<b>Registration</b>
18:00	19:00	<b>Welcome reception</b>

## May 18, Monday

8:00	18:00	<b>Registration</b>
8:00	9:00	<b>Poster mounting</b>
9:00	9:10	<b>Opening</b>

9:10	<b>J. Majzlan</b>	Weathering of ore deposits and mining waste - how much inorganic chemistry and how much biology?
9:40	<b>N. Daneu</b>	Topotaxial reactions at the atomic scale - the origin of sagenitic rutile and rutile/hematite intergrowths
10:10	<b>P. Uher</b>	Calcium-rich silicate and oxide minerals: Products of high-temperature contact metamorphism of xenoliths in andesites (Fintice, Eastern Slovakia)
10:40	<b>C. Ionescu</b>	Archaeological ceramics: A geoscientific perspective

11:10	11:40	<b>Coffee break</b>
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### Session talks (two parallel sessions)

11:40	<b>B. Bajnóczi</b>	Handheld XRF and EPMA-EDS analyses of blue-glazed Anabaptist-Hutterite and Haban ceramics – implications for the production technology and provenance of the pigment
12:00	<b>Á. Baricza</b>	Modelling the effects of acid solutions on the glaze of Zsolnay architectural ceramics (Budapest, Hungary)
12:20	<b>C. Ionescu</b>	Integrated study on compositional and technological characteristics of Celtic pottery from Transylvania (Romania)

11:40	<b>A. Rečnik</b>	Crystallographic study of twin boundaries and rutile precipitates in chrysoberyl crystals from Pratinhas (Brazil)
12:00	<b>N. Miyajima</b>	Iron partitioning between ringwoodite lamella and the host wadsleyite in the transformation
12:20	<b>R. Káldos</b>	HR-Raman spectroscopic and FIB-SEM analyses of carbonate melt inclusions in jacupirangite from Kerimasi Volcano (Tanzania)

12:50	14:20	<b>Lunch</b>
14:30	16:20	<b>Posters I</b>
15:50	16:20	<b>Coffee</b>

**Session talks (two parallel sessions)**

16:20	archaeometry	<b>F. Kristály</b>	Evolution of amorphous components, non-silicates and clay minerals during clay firing: Experiments and possible applications in archaeometry
16:40		<b>O. Crandell</b>	Pottery firing technology in Late Bronze Age and Early Iron Age in NW Romania
17:00		<b>C. Ionescu</b>	Effect of temperature on the composition and microstructure of carbonate-rich illitic clay investigated by FTIR
17:20		<b>Gy. Szakmány</b>	Prehistoric „greenstone” artefacts from Hungarian archaeological localities and collections
16:20	petrology, geochemistry, mineralogy	<b>L. Patkó</b>	Constraints on mantle metasomatism beneath the Nógrád-Gömör volcanic field with combined geochemical and geophysical approaches
16:40		<b>L. Zaharia</b>	U-Pb zircon dating of Gura Vitioarei Tuff (Tarcău Unit, Eastern Carpathians, Romania)
17:00		<b>A. Horváth</b>	Correlation of the mineralogical and geochemical composition of the Úrkút manganese deposit
17:20		<b>M. Leskó</b>	Correlation between Toarcian (Early Jurassic) manganese sediments from the Tölgyhát quarry (Gerecse mts., Hungary) and Úrkút manganese ore deposit (Bakony mts., Hungary): A mineralogical study
18:00	18:50	<b>Society meeting and election of the Mineralogical and Geochemical Section of the Hungarian Geological Society</b>	
19:00		<b>Conference dinner</b>	

## May 19, Tuesday

### Session talks (two parallel sessions)

8:30	clay mineralogy	<b>W. Oueslati</b>	Effect of an “in situ” hydrous perturbation on the structural changes of Ba-modified montmorillonite: quantitative XRD analysis
8:50		<b>B. Zviagina</b>	The illite-aluminoceladonite series: distinguishing features and identification criteria
9:10		<b>T. Németh</b>	Transformation of clay minerals in soils and it’s effect on metal adsorption
9:30		<b>W. Oueslati</b>	Adsorption of tetracycline onto Na-montmorillonite: Effect of hydrous perturbation and the soil pH
9:50		<b>I. Viczián</b>	Diasporic bauxite in the Villány-Bihor structural unit, in deeply subsided basement position
8:30	mineral deposits, environmental and appl. min.	<b>F. Mádai</b>	Hunting for critical elements – new mineralogical results from the Velence Hills, Hungary
8:50		<b>N. Zajzon</b>	Gadolinite-bearing NYF-type pegmatite from Sukoró, Velence Hills, Hungary
9:10		<b>V. Mozgai</b>	Ore mineral paragenesis of the Au-Ag-Pb-Zn epithermal mineralisation around Parádfürdő, Recsk ore complex (NE-Hungary)
9:30		<b>K. Gherdán</b>	Corrosive environmental mineral formation during museum fumigation with phosphine (H <sub>3</sub> P)
9:50		<b>F. Kristály</b>	Experiments on identification, composition approximation and interpretation of amorphous materials from X-ray powder diffraction
10:10	10:40	<b>Coffee</b>	
10:10	12:10	<b>Posters II</b>	
12:10	13:20	<b>Lunch</b>	
13:30	plenaries	<b>C. Taricco</b>	Meteorites and past solar activity
14:00		<b>S. Kele</b>	Presentation and calibration of the clumped isotope thermometer using travertine and tufa deposits
14:30		<b>G. Săbău</b>	Eclogites in basement complexes of Romania: Context and mineral peculiarities
15:00	<b>Closing</b>		
15:30	18:30	<b>Field trip to Kolontár - CANCELLED</b>	

## Posters

P-01	archaeometry	Zs. Bendő	High pressure metaophiolite polished stone artefacts from Hungarian archaeological localities and collections
P-02		O. Crandell	Tools used in ceramics production during the Neolithic and Chalcolithic: Examples from Teleorman county, Romania
P-03		A. Giurgiu	Mineralogical study of tegulae from Roman Porolissum (NW Romania)
P-04		E. Kereskényi	The first results of a new project: Archeometrical investigation of neolithic polished stone tools of Herman Ottó Museum
P-05		D. Kürthy	Preliminary archaeometric results of siliceous carbonatic rocks from the Early Iron Age mound grave in Regöly, Hungary
P-06		B. Péterdi	Nephrite artefacts in Hungary - the present state of knowledge
P-07		I. Tóth	Preliminary archaeometric results of stone artefacts of Late Avar period settlements, Hajdúnánás Mácsi-dűlő and Fekete-halom (NE Hungary)
P-08	clay min.	T. Ivanovskaya	Diocahedral 2:1 phyllosilicates of the illite-glaucanite series of the Precambrian and Lower Cambrian deposits
P-09		I. Kovács	Argillic alteration of igneous rocks in hydrothermal environments (Velence mts., Western Hungary)
P-10	crystallography	Sz. Ormándi	Real structure of natural mordenite from Mátra Hill (Hungary)
P-11		A. Rečnik	Crystallographic study of twin boundaries and rutile precipitates in chrysoberyl crystals from Pratinhas (Brazil)
P-12	environmental and appl. min.	F. Çiner	Use of grape molasses soil for wastewater treatment
P-13		Á. Demeter	The Tata Castle – A complex weathering study on historic stone wall segments, with implications for monument conservation
P-14		R. Demeter	Comparative mineralogical analysis of facade mortars from buildings built between the two World Wars in the cities of Subotica (Serbia) and Budapest (Hungary)
P-15		M. Ringer	Environmental mineralogical study of a fluorine absorber of a brick works in North Hungary
P-16		E. Thamó-Bozsó	Luminescence dating of feldspar from Danube terrace sediments on the Pest Plain (Hungary)
P-17		É. Tompa	Synthesis of filamentous magnetite on biological templates
P-18	geochemistry	T.Á. Csomor	Mineralogical characterisation of the sedimentary phosphatic occurrence from Nekézseny and Dédestapolcsány, Hungary
P-19		T.Á. Csomor	Jarosite in sandstone - the mineral characterisation of a special rock from the Szendrő Mts., Hungary
P-20		Cs. Szabó	The control of chemical and physical properties on carbonate chemistry in diagenetic systems
P-21		L. Zaharia	Geochemistry of sedimentary rocks from Gosau-type Drocea Basin (Southern Apuseni mts., Romania)

P-22	mineral deposits	Zs. Kapui	Characterisation of the hydrothermal processes at the Reppia VMS deposit in the Northern Apennines, Italy
P-23		Zs. Molnár	Formation conditions of the fluorite veins of Pécsely (Balaton Highland, W-Hungary)
P-24		Y. Pystina	Geological-genetic model of gold-platinum mineralization in the polar Urals
P-25		B.A. Topa	TBA
P-26	mineralogy	A. Kis	Observations on photoluminescence in Zircon crystals
P-27		Zs. Dallos	Bone mineral investigation from XRD pattern with Rietveld refinement and Patterson-function
P-28		I. Farkas	Anomalous behavior of some minerals during heating procedure – the third step applied in clay mineral diagnostics
P-29		B. Fehér	Reinvestigation of tourmaline from Nagybörzsöny, Börzsöny Mts., Hungary
P-30		P. Hirtopanu	Sonolite occurrence in Razoare Mn-Fe depozit, Lapus Mountains, East Carpathians, Romania
P-31		A. Menyhárt	Richelsdorfite $\text{Ca}_2\text{Cu}_5\text{Sb}(\text{AsO}_4)_4(\text{OH})_6\text{Cl}\cdot 6\text{H}_2\text{O}$ and turquoise $\text{Cu}(\text{Al,Fe})_6(\text{PO}_4)_4(\text{OH})_8\cdot 5\text{H}_2\text{O}$ from Parádfürdő ore deposit, Fehérkő Hill, Hungary
P-32		C. Moldovan	The mineralogy of some particular phosphate deposits from Humpleu system, Romania
P-33		R. Papp	Mineralogical and geochemical study of manganese oxide and oxydehydroxides in the Eplény manganese deposit, Hungary
P-34		Y. Pystina	Zircon as criterion of division of granitoids of different ages
P-35		D. Szabó	Ammonioalunite and adranosite-Al. New mineral species from the burning coal dumps of Pécs-Vasas, Hungary.
P-36		S. Szakáll	Reinvestigation of “inesite” from Gyöngyösoroszi, Mátra mts., Hungary
P-37	petrology	A. Batki	Accumulation of early magmatic minerals: Constraints on the origin and emplacement of hornblendites from the Ditrău Alkaline Massif, Romania
P-38		S. Gönczy	Andesitic composite volcanoes of the Vihorlat-Gutin area
P-39		O. Grakova	Geological characteristics of diamond-bearing rocks in the north-east borderland of the East-European Platform
P-40		O.R. Kátai	Petrographic and fluid inclusion study of salt rocks from Praid (Transylvania, Romania)
P-41		Z. Kovács	Exploration of mantle heterogeneity by 3D X-ray microtomography in upper mantle xenoliths from Mindszentkál (Bakony-Balaton Highland, Western Pannonian Basin)
P-42		T. Radics	Petrological similarities between turmalinised gneiss from Álmosd and the turmalinisation products of Muntele Mare granitoids
P-43		T. Spránitz	More than 300 km raft on the ice floe. Dumortierite, clinohumite and scapolite from the Bohemian Massif in Dunavarsány, Middle Hungary
P-44		M. Szumowska	New data on miocene pyroclastic rocks and eruptive processes in the Jawor area (Lower Silesia, Poland)
P-45		N. Ulyasheva	Metamorphism of Precambrian rocks of the polar Urals
P-46		T. Zagyva	Study of the volcanic facies and the submarine hydrothermal processes of the Jurassic basalt at Szarvaskő (NE-Hungary)