

FOURTH MEDITERRANEAN CLAY MEETING
September 5-10, 2006, Middle East Technical University, Ankara, Turkey

PROGRAMME LAYOUT

Sept. 2-4, 2006		PRE-MEETING EXCURSION to Cappadocia Region		
Sept. 5, 2006	09.00-17.30	PRE-MEETING WORKSHOP @ Central Laboratory, METU		
	15.30-20.00	Registration for MCM06 @ Main Hall, Cultural and Convention Center (CCC), METU		
	18.30-20.00	Reception @ Main Hall, CCC, METU		
Sept. 6-8, 2006		SCIENTIFIC SESSIONS / EXHIBITIONS @ CCC, METU		
Sept. 6, 2006	09.00-12.00	Registration @ Main Hall Entrance, CCC		
	08.30-10.30	Poster Setup (Poster No: W1-W13) @ Main Hall, CCC		
	09.00-10.10	OPENING SESSION @ Kemal Kurdaş Hall, CCC		
	10.10-10.30	Tea / Coffee Break		
	10.30-11.50	ORAL SESSION 1A @ Hall A	ORAL SESSION 1B @ Hall B	
	12.10-13.30	Lunch Break		
	13.30-15.00	INVITED LECTURES I		
	15.00-15.20	Tea / Coffee Break		
	15.20-17.00	ORAL SESSION 2A @ Hall A	ORAL SESSION 2B @ Hall B	
	16.30-18.00	Poster Presentations (Poster No: W1-W13) @ Main Hall, CCC		
	16.30-17.30	Meeting of Mediterranean Countries Clay Groups @ Hall E		
	19.00-21.00	Welcome Party @ Ankara Ethnographical Museum		
	Sept. 7, 2006	08.30-10.30	Poster Setup (Poster No: T1-T15) @ Main Hall, CCC	
09.00-10.30		INVITED LECTURES II		
10.30-10.50		Tea / Coffee Break		
10.50-12.10		ORAL SESSION 3A @ Hall A	ORAL SESSION 3B @ Hall B	
12.10-13.30		Lunch Break		
13.30-15.00		INVITED LECTURES III		
15.00-15.20		Tea / Coffee Break		
15.20-16.40		ORAL SESSION 4A @ Hall A	ORAL SESSION 4B @ Hall B	
16.30-18.00		Poster Presentations (Poster No: T1-T15) @ Main Hall, CCC		
18.30-21.00		Turkish Folkloric Dance Performance and Outdoor Beer Party @ CCC		
Sept. 8, 2006		08.30-10.30	Poster Setup (Poster No: F1-F17) @ Main Hall, CCC	
	09.00-10.30	INVITED LECTURES IV		
	10.30-10.50	Tea / Coffee Break		
	10.50-12.10	ORAL SESSION 5A @ Hall A	ORAL SESSION 5B @ Hall B	
	12.10-13.30	Lunch Break		
	13.30-15.10	ORAL SESSION 6A @ Hall A	ORAL SESSION 6B @ Hall B	
	15.10-15.30	Tea / Coffee Break		
	15.30-16.30	ORAL SESSION 7A @ Hall A	ORAL SESSION 7B @ Hall B	
	16.30-18.00	Poster Presentations (Poster No: F1-F17) @ Main Hall, CCC		
	18.00-18.20	CLOSING CEREMONY @ Hall A		
	20.00-23.30	Farewell Dinner @ Ankara Palace		
Sept. 9-11, 2006		POST-MEETING EXCURSION to Cappadocia Region		
		POST-MEETING EXCURSION to Istanbul Region		

EXPLANATIONS for ORAL SESSIONS	
Session No	Session Theme(s)
1A	Crystal Structure, Chemistry and Characterization of Clays
1B	Clays in Engineering Applications
2A	Characterization of Clays / Clays in Micro and Nanosciences / Modified Clays and Their Application
2B	Clays in Engineering Applications
3A	Clays in Micro and Nanoscience / Modified Clays and Their application / Layered Double Hydroxides
3B	Soil Clays and Agriculture / Clays and Environment
4A	Clays in Micro and Nanosciences / Modified Clays and Their Application / Layered Double Hydroxides
4B	Clays and Environment
5A	Geology of Clays
5B	Clays in Cement Industry / Clays in Ancient and Modern Ceramics
6A	Geology of Clays
6B	Clays in Cement Industry / Clays in Ancient and Modern Ceramics
7A	Soil Clays and Agriculture/Clays and Environment
7B	Clays in Ancient and Modern Ceramics

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September 2-4, 2006 (Saturday-Monday)

PRE-MEETING EXCURSION TO CAPPADOCIA REGION

September 5, 2006 (Tuesday)

PRE-MEETING WORKSHOP

on Nuclear Magnetic Resonance Study in Clay Science

@ Central Laboratory (First Floor), METU

Leader: Karl Mueller

09.00-09.30 **Registration**

09.00-17.30 **Lectures**

REGISTRATION FOR THE MCM06 AND RECEPTION

@ Cultural and Convention Center (CCC), METU

15.30-20.00 **Registration**

@ Main Hall Entrance, CCC

18.30-20.00 **Reception**

@ Main Hall, CCC

September 6, 2006 (Wednesday)

REGISTRATION and OPENING SESSION

@ METU, Cultural and Convention Center (CCC)

09.00-12.00 **Registration**

@ Main Hall Entrance, CCC

OPENING AND WELCOME REMARKS

@ Kemal Kurdaş Hall, CCC

09.00-09.15 **Musical Performance with Piano, Umut Asil**, Conductor, METU Symphony Orchestra

09.15-09.20 **Asuman G. Türkmenoğlu**, President, Organizing Committee

09.20-09.30 **Ural Akbulut**, President, Middle East Technical University

PLENARY LECTURE

@ Kemal Kurdaş Hall, CCC

09.30-10.10 **TEACHING CLAY SCIENCE: RECENT DEVELOPMENTS**
Huff W.D.

10.10-10.30 **TEA / COFFEE BREAK**

@ Main Hall, CCC

FOURTH MEDITERRANEAN CLAY MEETING
September 5-10, 2006, Middle East Technical University, Ankara, Turkey

INVITED LECTURES and ORAL SESSIONS
@ Cultural and Convention Center (Halls A and B), METU

September 6, 2006 (Wednesday)
MORNING SESSIONS

SESSION 1 A

@ Hall A

Crystal Structure, Chemistry and Characterization of Clays

Chair: J. Srodon / H. Yalçın

- 10.30-10.50 **RECENT DEVELOPMENTS IN THE CHARACTERIZATION OF LAYER CHARGE AND CHARGE HETEROGENEITY OF SMECTITES: A KEY TO UNDERSTAND GEOLOGY AND PHYSICAL PROPERTIES OF BENTONITES**
Christidis G.E., Makri P., Eberl D.D., and Blum A.E.
- 10.50-11.10 **PROBLEMS IN THE INTERPRETATION OF IR SPECTRA OF DIOCTAHEDRAL 2:1 PHYLLOSILICATES IN THE REGIONS OF OH STRETCHING AND BENDING VIBRATIONS**
Zviagina B.B., and Drits V.A.
- 11.10-11.30 **SURFACE CHARACTERIZATION OF CLAY ROCKS**
Nagy N.M., and Kónya J.
- 11.30-11.50 **MINERALOGY AND MICROANALYSIS OF GREEN EARTH PIGMENTS IN HISTORICAL PAINTINGS**
Hradil D., Bláhová A., Grygar T., Hradilova J., Bezdicka P., and Grunwaldova V.

SESSION 1 B

@ Hall B

Clays in Engineering Applications

Chair: Z. Li / H. Akgün

- 10.30-10.50 **SHEAR STRENGTH-SUCTION RELATIONSHIP OF COMPACTED METU CAMPUS CLAY**
Çokça E., and Tilgen H.P.
- 10.50-11.10 **NUMERICAL MODELING OF THE STABILITY OF CLAYEY SOIL IN KARST TERRAIN**
Aktürk Ö., Drumm E.C., and Akgün H.
- 11.10-11.30 **INVESTIGATIONS OF SHALE INHIBITING PROPERTIES OF DRILLING FLUIDS BY TRANSIENT PERMEABILITY MEASUREMENTS UNDER TRIAXIAL STRESS CONDITIONS**
Mandt T., Strauss H., Gloth H., and Voigt D.
- 11.30-11.50 **A NEW APPROACH FOR DETERMINATION AND EVALUATION OF SOILS CONSISTENCY LIMITS**
Gündüz Z., and Arman H.

12.10-13.30 LUNCH BREAK

@ Kümbet Restaurant, CCC

September 6, 2006 (Wednesday)
AFTERNOON SESSIONS

INVITED LECTURES I

@ Hall A

Chair: W.D. Huff / N. Güngör

- 13.30-14.00 **MANIPULATION OF LAYER CHARGE OF SMECTITES**
Komadel P., Madejová J., and Stucki J.W.
- 14.00-14.30 **LAYERED CLAY MINERALS IN NANOSCIENCE**
Bergaya F.
- 14.30-15.00 **STUDIES OF CLAY TRANSFORMATION IN THE HANFORD VADOSE ZONE**
Mueller K., Bowers G., Strepka C., and Crosson G.

15.00-15.20 **TEA / COFFEE BREAK**

@ Main Hall, CCC

SESSION 2A

@ Hall A

Characterization of Clays / Clays in Micro and Nanosciences /
Modified Clays and Their Application

Chair: P. Komadel / Ö.I. Ece

- 15.20-15.40 **MICROSTRUCTURAL CHARACTERIZATION OF A STANDARD NATURAL CLAY EXCHANGED WITH THREE ORGANIC CATIONS**
Gallo Stampino P., Zampori L., Dotelli G., Botta D., and Voltolini M.
- 15.40-16.00 **PORE STRUCTURE CHARACTERIZATION OF Al-PILCS AS CATALYST AND CATALYST SUPPORT**
Başoğlu F.T., and Balcı S.
- 16.00-16.20 **CHARACTERIZATION OF IRON-RICH SMECTITES FROM ÇAMLICA/TURKEY**
Seki Y., Güven N., and Yurdakoç K.
- 16.20-16.40 **THE IMPACT OF THE ALTERATION MECHANISM AND THE MINERALOGICAL COMPOSITION TO δD AND $\delta^{18}O$ OF KAOLINS**
Tsolis-Katagas P., Papoulis D., Grammatikopoulos T.A., and Kyser K.T.
- 16.40-17.00 **INVESTIGATION OF CENTRAL ANATOLIA ARAPLI-YEŞİLHİSAR-KAYSERİ REGION CLAYS BY FTIR SPECTROSCOPY**
Davarcioğlu B., and Kayalı R.

SESSION 2B

@ Hall B

Clays in Engineering Applications

Chair: E.Çokça / Z.Gündüz

- 15.20-15.40 **UTILIZATION OF BENTONITE/SAND SEAL FOR UNDERGROUND NUCLEAR WASTE REPOSITORY ISOLATION**
Akgün H.
- 15.40-16.00 **GEOTECHNICAL ASSESSMENT OF THE UPPER PLIOCENE DEPOSITS AROUND BEŞEVLER, ANKARA, TURKEY**
Ulaş K., Kılıç R., Yılmaz G., and Özsoy E.A.
- 16.00-16.20 **EFFECT OF WATER/POLYMER/ELECTROLYTE/CLAY SYSTEMS ON THE RHEOLOGICAL AND FILTRATION CHARACTERISTICS OF OIL-WELL DRILLING FLUIDS**
Khodja M., Canselier J.P., Annabi-Bergaya F., Fourar K., Khodja-Saber M., and Benmounah A.

16.30-17.30

MEETING OF MEDITERRANEAN COUNTRIES CLAY GROUPS

@ Hall E

19.00-21.00

WELCOME PARTY

@ Ankara Ethnographical Museum

September 7, 2006 (Thursday)
MORNING SESSIONS

INVITED LECTURES II

@ Hall A

Chair: H.Murray / Ö. Bozkaya

- 09.00-09.30 **WATER PURIFICATION FROM ORGANIC CONTAMINANTS**
Nir S., Zadaka D., Polubesova T., Shtarker A., Castro-Sowinski S., and Okon Y.
- 09.30-10.00 **SURFACTANT-MODIFIED CLAYS AND ZEOLITES - ENVIRONMENTAL APPLICATION AND LIMITATION**
Li Z.
- 10.00-10.30 **CLAY SCIENCE IN ENVIRONMENTAL AND HUMAN HEALTH**
Fiore S.

10.30-10.50 **TEA / COFFEE BREAK**

@ Main Hall, CCC

SESSION 3A

@ Hall A

Clays in Micro and Nanoscience / Modified Clays and Their application /
Layered Double Hydroxides

Chair: F. Bergaya / R. Birsoy

- 10.50-11.10 **NICKEL CATALYSTS SUPPORTED ON MgO/SMECTITE-TYPE NANOCOMPOSITES FOR METHANE REFORMING**
Moronta A., Iwasa N., Fujita S.-I., Shimokawabe M., and Arai M.
- 11.10-11.30 **CHARACTERIZATION OF THE INTERLAYER EXPANSION OF ORGANOCCLAYS AS A FUNCTION OF CAPTURE OF AN ORGANIC POLLUTANT**
Zampori L., Gallo Stampino P., Dotelli G., Botta D., and Natali Sora I.
- 11.30-11.50 **THE INFLUENCE OF CATION INTERCALATING INTO CLAY ON CATALYTIC PROPERTIES**
Timofeeva M.N., Khankhasaevan S.Ts., and Badmaeva S.V.
- 11.50-12.10 **PREPARATION AND CHARACTERIZATION OF ONaMMT/PEG NANOCOMPOSITES**
Günister E., Atıcı O., Ece Ö.I., and Güngör N.

SESSION 3B

@ Hall B

Soil Clays and Agriculture / Clays and Environment

Chair: S. Nir / C. Cangir

- 10.50-11.10 **SOIL CLAY TYPES AND CARBON DISTRIBUTION**
Hidalgo C., Etchevers J.D., Martinez-Richa A., and Matus F.
- 11.10-11.30 **MECHANOCHEMICAL DEGRADATION OF IMAZAQUIN**
Nasser A., Buchanovsky N., Gerstl, Z., and Mingelgrin U.
- 11.30-11.50 **COMPLEX STUDY OF ADSORPTION OF HEAVY METALS ON SOIL CLAYS AND PURE CLAYS BY ANALYTICAL ELECTRON MICROSCOPY AND X-RAY DIFFRACTION**
Németh T.
- 11.50-12.10 **FERROUS CLAYS INTERACTIONS WITH A H₂S-RICH FLUID**
Voltolini M., Dotelli G., Artioli G., and Previde Massara E.

12.10-13.30 **LUNCH BREAK**

@ Kümbet Restaurant, CCC

September 7, 2006 (Thursday)
AFTERNOON SESSIONS

INVITED LECTURES III

@ Hall A

Chair: J. Konya / Y. Sarıkaya

- 13.30-14.00 **A SEDIMENTOLOGICAL, MINERALOGICAL AND GEOCHEMICAL STUDY OF THE PLYGORSKITE DEPOSITS OF SOUTH GEORGIA-NORTH FLORIDA, USA**
Murray H.H.
- 14.00-14.30 **ILLITE-SMECTITE AS A BASIN ANALYSIS TOOL: AN EXAMPLE FROM PODHALE-ORAVA BASIN IN THE CARPATHIANS**
Srodon J.
- 14.30-15.00 **SIGNIFICANCE OF MICROMORPHOLOGICAL/MINERALOGICAL INFERENCES IN LAND/SOIL MANAGEMENT, CLIMATE CHANGE AND MATERIAL SCIENCES**
Kapur S., Boyraz D., Cangir C., and Akça E.

15.00-15.20 **TEA / COFFEE BREAK**

@ Main Hall, CCC

SESSION 4A

@ Hall A

Clays in Micro and Nanosciences / Modified Clays and Their Application /
Layered Double Hydroxides

Chair: B.B. Zviagina / B. Davarcioğlu

- 15.20-15.40 **CHARACTERIZATION OF NANOCOMPOSITIES SYNTHESIZED BY TWO DIFFERENT TYPES OF ORGANOCCLAYS**
İsci S., Ünlü H.C., Atıcı O., Ece Ö.I., and Güngör, N.
- 15.40-16.00 **ISOMORPHIC RELATIONSHIPS OF DIVALENT CATIONS AND STABILITY OF M²⁺-Al-LAYERED DOUBLE HYDROXIDES**
Stanimirova T., Zaneva S., and Kirov G.
- 16.00-16.20 **USE OF Mg-Al-NO₃-LAYERED DOUBLE HYDROXIDE FOR BORATE ADSORPTION BY INTERCALATION**
Ay A.N., Zümreoğlu-Karan B., and Temel A.

SESSION 4B

@ Hall B

Clays and Environment

Chair: S. Fiore / S. Kapur

- 15.20-15.40 **REMOVAL OF FERRIC-CYANIDE COMPLEX [Fe(CN)₆]³⁻ FROM AQUEOUS SOLUTIONS WITH RAW AND ACID-ACTIVATED CLAYS**
Önen V., and Tarlan E.
- 15.40-16.00 **APPLICATION OF FULL FACTORIAL DESIGN FOR THE REMOVAL OF BORON BY SYNTHETIC CLAYS**
Seki Y., Seyhan S., and Yurdakoç M.
- 16.00-16.20 **INVESTIGATION OF TREATMENT PERFORMANCE OF KAOLINITE ONTO DIFFERENT WASTEWATER TYPES AND TREATMENT METHODS**
Hasçakır B., and Dölgen D.
- 16.20-16.40 **THE BEHAVIOR OF CLAY MINERALS USED IN SANITARY LANDFILLS AS RETENDERS OF ORGANIC AND INORGANIC POLLUTANTS**
Koutsopoulou E., Tsolis-Katagas P., and Papoulis D.

18.30-21.30

TURKISH FOLKLODIC DANCE PERFORMANCE AND OUTDOOR BEER PARTY

@ CCC, Kemal Kurdaş Hall

September 8, 2006 (Friday)
MORNING SESSIONS

INVITED LECTURES IV

@ Hall A

Chair: A. Yeğınobalı / M. Yeniol

- 09.00-09.30 **CLAYS USED IN CEMENT PRODUCTION AND THEIR BURNABILITY CHARACTERISTICS**
Ertün T.
- 09.30-10.00 **CLAYS IN MODERN CERAMICS: CHANGING ROLE OR ROLLING ON THE CHANGE?**
Dondi M.
- 10.00-10.30 **THE MEDITERRANEAN MARKET FOR CERAMIC CLAYS WITHIN THE LAST DECADE**
Fiederling-Kapteinat H.-G.

10.30-10.50 **TEA / COFFEE BREAK**

@ Main Hall, CCC

SESSION 5A

@ Hall A

Geology of Clays

Chair: I. Viczián / A. Sayın

- 10.50-11.10 **EVENT SIGNIFICANCE OF BENTONITE BEDS**
Huff W.D., and Toprak, F.Ö.
- 11.10-11.30 **PRELIMINARY APPROACH TO MINERALOGY AND DEPOSITIONAL ENVIRONMENT OF UPPER MIOCENE CAPPADOCIAN VOLCANIC PROVINCE, ÜRGÜP- BAŞKÖY-GÜZELÖZ (NEVŞEHİR, CENTRAL ANATOLIA, TURKEY)**
Kadir S., Gürel A., Lepetit P. and Davarcıođlu B.
- 11.30-11.50 **Mg-MINERAL OCCURRENCES IN THE SERPENTINITE- AND VOLCANIC-FED LACUSTRINE BASINS IN THE İMRANLI-SUŞEHİRİ REGION, NORTHEASTERN TURKEY**
Yalçın H., Bozkaya, Ö., and Karayel, A.
- 11.50-12.10 **DISPERSAL OF AEGEAN/TURKISH CLAYS TO THE EASTERN MEDITERRANEAN: EVIDENCE FROM THE CLAY RECORD OF QUARTERNARY SEDIMENTS, HAIFA BAY, ISRAEL**
Sandler A., Almogi-Labin A., and Porat N.

SESSION 5B

@ Hall B

Clays in Cement Industry / Clays in Ancient and Modern Ceramics

Chair: İ. Bozdođan / D. Hradil

- 10.50-11.10 **DEVELOPMENT OF METAKAOLIN-BASED ARTIFICIAL POZZOLANIC ADDITIVE FOR CEMENT AND CONCRETE**
Sobolev K., Arıkan M., Ertün T., Yeğınobalı A.
- 11.10-11.30 **CHEMICAL CHARACTERIZATION OF CRETAN CLAYS FOR THE DESIGN OF RESTORATION MORTARS**
Maravelaki-Kalaitzaki N., Budak M., and Kallithrakas-Kontos N.
- 11.30-11.50 **ENGINEERING PROPERTIES OF PAŞINLER CLAY, EASTERN ANATOLIA**
Bayraktutan M.S.
- 11.50-12.10 **MIXED-LAYER MICA-CHLORITE IN ANCIENT POTTERY FROM ACHAIA COUNTY, NW PELOPONNESE, GREECE**
Rathossi C., and Tsolis-Katagas P.

12.10-13.30 **LUNCH BREAK**

@ Kümbet Restaurant, CCC

September 8, 2006 (Friday)
AFTERNOON SESSIONS - I

SESSION 6A

@ Hall A

Geology of Clays

Chair: G. Christidis / M.C. Göncüoğlu

- 13.30-13.50 **MINERALOGY OF FINE-GRAINED SEDIMENTS RELATED TO KARST PHENOMENA IN VILLÁNY MTS., SE TRANSDANUBIA, HUNGARY**
Viczián I., Dezső J., and Raucsik B.
- 13.50-14.10 **CLAY MINERAL EVOLUTION IN THE ROCKS OF MADEN GROUP FROM MALATYA-PÜTÜRGE AREA, EASTERN ANATOLIA**
Bozkaya Ö., Yalçın H., and Dündar M.K.
- 14.10-14.30 **HYDROTHERMAL ALTERATION OF VOLCANIC ROCKS FROM GALATEAN VOLCANIC PROVINCE AT ÇELTIKÇİ AREA (NORTHWEST OF ANKARA)**
Çağatay S.S., and Türkmenoğlu A.G.
- 14.30-14.50 **OCCURRENCE AND ORIGIN OF SEPIOLITE, LOUGHLINITE AND ANALCIME IN A NEOGENE VOLCANO-SEDIMENTARY LACUSTRINE ENVIRONMENT, BEYPAZARI-ÇAYIRHAN, ANKARA, TURKEY**
Kadir S., and Karakaş Z.
- 14.50-15.10 **FANGOTHERAPY: FACT OR SATISF(A)CTION**
Çelebi C.R., Aycı E., and Yıldırım S.

SESSION 6B

@ Hall B

Clays in Cement Industry / Clays in Ancient and Modern Ceramics

Chair: H.G. Fiederling-Kapteinat / M. Bal

- 13.30-13.50 **DEPENDENCE OF CERAMIC PROPERTIES ON THE ORIGIN AND COMPOSITION OF KAOLINS: A CASE-HISTORY FROM THE SANTA CRUZ AND CHUBUT PROVINCES, PATAGONIA (ARGENTINA)**
Dondi M., Iglesias C., and Dominguez E.
- 13.50-14.10 **THE BEHAVIOUR OF Mg, CA, Ca-Mg SILICATES AND CARBONATES IN CERAMIC BODIES**
Aras A.
- 14.10-14.30 **INDUSTRIAL APPLICATION OF THE AKSEKI (ANTALYA) ILLITIC CLAY, SOUTHERN TURKEY**
Sayın Ş.A., Taşan O., Akın A.K., and Bayraktaroğlu Ş.
- 14.30-14.50 **FIRING PROPERTIES OF THE BORNOVA SHALE AND ITS APPLICATION IN THE RED FIRED CERAMIC**
Gül G., Çolak M., Oyman E.R., and Özkan İ.
- 14.50-15.10 **EVALUATION OF HEAT TREATED CLAY FOR POTENTIAL USE IN INTERVENTION MORTARS**
Budak M., Akkurt S., and Böke H.

15.10-15.30 **TEA / COFFEE BREAK**

@ Main Hall, CCC

September 8, 2006 (Friday)
AFTERNOON SESSIONS - II

SESSION 7A

@ Hall A

Soil Clays and Agriculture/Clays and Environment

Chair: A. Sandler / E. Akça

- 15.30-15.50 OCCURRENCE AND GENESIS OF CLAY MINERALS ASSOCIATED WITH QUATERNARY CALICHE UNITS AND THEIR HOST-ROCKS OR -SEDIMENTS WITHIN THE MERSİN AREA, SOUTHERN TURKEY
Kadir S., and Eren M.
- 15.50-16.10 EFFECT OF SURFACTANT-BLOCK COPOLYMER DUAL SYSTEMS ON THE STABILITY OF Al₂O₃ and SiO₂
Sakar-Deliormanlı A., and Polat H.
- 16.10-16.30 EARTH SYSTEM SCIENCE PEPPECTIVE OF THE THEME: *CLAYS AND ENVIRONMENT*
Tulunay Y.

SESSION 7B

@ Hall B

Clays in Ancient and Modern Ceramics

Chair: M. Dondi / A. Aras

- 15.30-15.50 USAGE OF THE BY PRODUCT CLAYS OF SARDES (SALİHLİ) PLACER GOLD MINE IN FLOOR TILE CERAMICS
Özkan İ., Oyman R.E., and Çolak M.
- 15.50-16.10 RAW MATERIAL SOURCE RESEARCH FOR PREHISTORIC CERAMIC FROM LAKE VAN BASIN
Çalışkan N., and Kılıç S.
- 16.10-16.30 FROM THE PAST TO THE PRESENT "UDU"
Baykal Z.

CLOSING CEREMONY

@ Hall A, CCC

- 18.00-18.05 **Remarks**
- 18.05-18.20 **Musical Performance with Udu**, Zafer Baykal, Yüzüncü Yıl University, Van

20.00-23.30 FAREWELL DINNER

@ Ankara Palace

FOURTH MEDITERRANEAN CLAY MEETING
September 5-10, 2006, Middle East Technical University, Ankara, Turkey

POSTER SESSIONS
@ METU, Cultural and Convention Center (Main Hall)

September 6, 2006 (Wednesday)

Characterization of Clays / Clays in Micro and Nano Sciences /
Clays in Engineering Applications

08.30-10.30 Poster Setup (Poster No: W1-W13)

@ Main Hall, CCC

16.30-18.00 Poster Presentations

- W1. CHARACTERIZATION OF KONYA-DOĞANHIŞAR CLAYS**
Yalcın Yastı S.
- W2. SURFACE POTENTIAL OF CLAY PARTICLES BY SCANNING PROBE MICROSCOPY: THEORETICAL AND EXPERIMENTAL APPROACHES**
Valdrè G., and Moro D.
- W3. CHARACTERIZATION OF THE EXPANDABLE COMPONENT OF MIXED-LAYER CHLORITE/SMECTITE BY n-ALKYLAMMONIUM METHODS: A XRD-HRTEM-AEM STUDY**
Arroyo X., Arostegui J., and Nieto F.
- W4. ELECTRON MICROSCOPY INVESTIGATION OF SMECTITE MINERALIZATION IN THE LOWER-MIDDLE MIOCENE VOLCANICS AROUND DEMİRCİ VILLAGE (NE SİVRİHIŞAR, ESKİŞEHİR)**
Karakaş Z., and Boyraz S.
- W5. MINERALOGICAL CHARACTERIZATION AND ORIGIN OF CLAY MINERALS OF THE PLIOCENE FLUVIAL-LACUSTRINE DEPOSITS IN THE CAPPADOCIAN VOLCANIC PROVINCE, CENTRAL ANATOLIA, TURKEY**
Gürel A., and Kadir S.
- W6. SMECTITE AND ILLITE-SMECTITE MIXED LAYERED CLAYS FROM THE BENTONITIZED VOLCANICLASTIC DEPOSITS (EASTERN RHODOPES, BULGARIA): A FTIR AND MOESSBAUER SPECTROSCOPY STUDY**
Ivanova R., Paneva D., Yanev Y., and Mitov I.
- W7. HIGH TEMPERATURE XRD OF HYDROTALCITE AND CLAY MINERALS**
Bláhová A., Bezdicka P., Grygar T., Hradil D., Lang K., Novotná K., Lojka R., and Kovanda F.
- W8. INVESTIGATION OF THE REOLOGY PROCESS OCCURING BECAUSE OF WATER IN SATURATED CLAY SOILS**
Mutlutürk M., İsmailov, T., and Yılmaz U.
- W9. RHEOLOGIC AND ELECTROKINETIC PROPERTIES OF DTABr/MMT AND MELAMINE/MMT ORGANOCLAY DISPERSIONS**
Günister E., Pestrelı D., and Güngör N.
- W10. STUDY OF THE INTERACTION OF METHYLENE BLUE WITH SONICATED VERMICULITE**
Ramirez-Valle V., Rytwo G., Huterer R., and Pérez-Rodríguez J.L.
- W11. AQUEOUS TAPE CASTING OF KAOLIN BASED CORDIERITE CERAMICS**
Özel E., and Kurama S.
- W12. RELATIONSHIP BETWEEN STRUCTURAL PROPERTIES AND EXPERIMENTAL SHEAR TEST OF KGa-1, KGa-2 AND COMMERCIAL KAOLIN UNDER HIGH NORMAL PRESSURE**
Calafato A., Dellisanti F., and Valdrè G.
- W13. THE USE OF THE ALMANPINARI CLAY AS A CERAMIC CASTING MUD**
Çetin S., Kılınç Mirdalı N., Halefoğlu Y.Z.

September 7, 2006 (Thursday)

Modified Clays and Their Application / Layered Double Hydroxides and Anionic Clays / Soil
Clays and Agriculture

08.30-10.30 **Poster Setup (Poster No: T1-T15)**

@ Main Hall, CCC

16.30-18.00 **Poster Presentations**

- T1. **THE RHEOLOGICAL AND ELECTROKINETICAL CHARACTERIZATION OF ODTABr/MMT ORGANOCCLAY**
İsci S., Yıldızhan, M.M., Bezci H., Peltek İ., Sancaktar O., and Çobanoğlu İ.
- T2. **ADSORPTION OF NITROPHENOLS ONTO IONIC AND NON-IONIC ORGANOBENTONITES**
Yıldız N., Köroğlu F., and Çalimli A.
- T3. **ADSORPTION STUDIES ON TREATMENT OF TEXTILE DYEING EFFLUENTS BY USING SEPIOLITE MINERAL**
Uğurlu M., Kula İ., Karaoğlu H., and Deveci İ.
- T4. **CHANGES OF STRUCTURAL AND THERMAL PROPERTIES OF A COMMERCIAL KAOLIN AFTER MECHANICAL TREATMENT IN CONTROLLED ENVIRONMENTAL CONDITIONS**
Dellisanti F., and Valdrè G.
- T5. **CATALYTIC APPLICATION OF COBALT(II)-PHTHALOCYANINE COMPLEXES INTERCALATED INTO PILLARING CLAY FOR OXIDATION TYPE REACTIONS**
Timofeeva M.N., Kovalenko O.N., and Kundo N.N.
- T6. **REMOVAL OF ANIONIC CONTAMINANTS BY USING MODIFIED CLAY**
İnam D., E. H. Göktürk, and Türkmenoğlu A.G.
- T7. **THE EFFECT OF CADMIUM ION ON THE DIELECTRIC PROPERTIES OF LAPONITE CLAY**
İzci E.
- T8. **PREPARATION AND CHARACTERIZATION OF POLY(ACRYLIC ACID)/ BENTONITE SUPERABSORBENT COMPOSITE**
Seki Y., Torgürsül A., and Yurdakoç K.
- T9. **ADSORPTION OF PHENOL ON SEPIOLITE AND XAD-15 RESIN**
Günay H., and Gündüz Zafer U.
- T10. **COMPARATIVE STUDY OF THERMAL DECOMPOSITION OF Mg-AL-LAYERED DOUBLE HYDROXIDES WITH MONOVALENT AND DIVALENT BORATE ANIONS**
Stanimirova T., and Hibino T.
- T11. **HYDROTALCITE REGENERATION: A CALORIMETRIC STUDY**
Petrova N., Stanimirova T., and Kirov G.
- T12. **ADSORPTION OF ACID ORANGE 7 DYE ONTO ANIONIC CLAY**
Bouhent M., Derriche Z., Prevot V., Leroux F., Deroy M., and Forano C.
- T13. **MINERALOGICAL CHARACTERIZATION OF THE FINE FRACTION (<2 μ M) OF TEPETATES AND DEGRADED VOLCANIC SOILS IN MEXICO**
Hidalgo C., Etchevers J.D., Martínez-Richa A., and Yee-Madeira H.
- T14. **CLAY FORMATION AND PODZOLIZATION ON MAFIC AND ULTRAMAFIC ROCKS IN MONT AVIC NATURAL PARK (AOSTA, ITALY)**
D'amico M., Julitta F., Bonifacio E., Cantelli D., and Previtali F.
- T15. **OCCURRENCE OF Palygorskite in Caliche Deposits of Pliocene Sediments in Ankara Region, Turkey**
İpekçil C., Aras A., and Türkmenoğlu A.G.

September 8, 2006 (Friday)

Clays and Environment / Geology of Clays / Clays in Cement Industry /
Clays in Ancient and Modern Ceramics

08.30-10.30 **Poster Setup (Poster No: F1-F17)**

@ Main Hall, CCC

16.30-18.00 **Poster Presentations**

- F1. **HYDROLYSIS AND DECOMPOSITION OF NA-MONTMORILLONITE: A KINETIC STUDY**
Aringhieri R., and Lelli M.
- F2. **ADSORPTION OF TRIMETHOPRIM FROM AQUEOUS SOLUTION ONTO MONTMORILLONITE K10**
Bekçi Z., Seki Y., and Yurdakoç M.K.
- F3. **MINERALOGY AND GEOCHEMISTRY OF CLAYEY SEDIMENTS REDEPOSITED IN THREE DUMPS OF EAST MARITZA LIGNITE BASIN (BULGARIA)**
Milakovska Z., Goettlicher J., Gasharova B., and Pohlmann-Lortz M.
- F4. **EXPERIMENTAL STUDY OF Pu ADSORPTION ONTO SMECTITE AND ILLITE MIXTURES**
Missana T., García-Gutiérrez M., and Alonso U.
- F5. **DETERMINATION OF SOLUTES DIFFUSION COEFFICIENTS IN CONSOLIDATED CLAYS BY RUTHERFORD BACKSCATTERING SPECTROMETRY: METHODOLOGY VALIDATION AND PRELIMINARY RESULTS**
Alonso U., Missana T., Patelli A., García-Gutiérrez M., Siitari-Kauppi M., Penttinen L., and Rigato V.
- F6. **EXCHANGE COEFFICIENTS OF HEAVY METALS FOR THE ANKARA CLAY SOIL IN MULTICOMPONENT SOLUTIONS**
Çamur M.Z., and Canpolat F.
- F7. **CLAY- FRACTION MINERALOGY AND ITS IMPLICATIONS OF THE MIOCENE-TO-QUATERNARY INFILL OF THE KARACASU GRABEN, W ANATOLIA**
Açıklalın S., and Ocakoğlu F.
- F8. **KAOLINITE AS AN INDICATOR FOR DEPTH OF BURIAL, PADESH BASIN, SOUTHWESTERN BULGARIA**
Stefanov Y., and Stanimirova T.
- F9. **MINERALOGICAL CHARACTERISTICS OF CLAYS IN MIOCENE SEDIMENTS AT LINXIA BASIN, CHINA**
Na Y., and Hanlie H.
- F10. **MOBILITY OF MAJOR, TRACE AND RARE EARTH ELEMENTS DURING ALTERATION OF A RHYOLITIC TUFF TO BENTONITE NEAR YENİKÖY, BALIKESİR, TURKEY**
Kocabaş C., and Çoban F.
- F11. **PHYSICO-MECHANICAL AND MICROSTRUCTURAL CHARACTERIZATION OF LIGHTWEIGHT CEMENT SLURRIES BASED ON CLASS G CEMENT: BENTONITE AND DIATOMITE COMPARATIVE STUDY**
Benmounah A., Bouziani T., Kheribet R., Fourar K., and Khodja M.
- F12. **POZZOLAN OBTAINED BY MECHANOCHEMICAL AND THERMAL TREATMENT OF KAOLIN**
De Gutiérrez R.M., Vizcayno C., Castello R., Rodriguez E., Guerrero C.E., and De Soto I.
- F13. **THE INVESTIGATION OF CERAMIC PIGMENTS FROM SALBAŞ CLAY**
Halefoğlu Y.Z., Kılınç Mirdalı N., and Çetin S.
- F14. **PIGMENT PRODUCTION FROM ALAMAPINARI CLAY AND USAGE IN UNDERGLAZE DECORATION**
Kılınç Mirdalı N., Çetin S., and Halefoğlu Y.Z.
- F15. **A STUDY ON ROMAN LEAD GLAZED CERAMICS**
Akyol A.A., Tekkök B., Kadioğlu Y.K., and Demirci Ş.
- F16. **AN ARCHAEOMETRIC STUDY OF A GROUP OF EARLY OTTOMAN CERAMICS FROM İZNIK**
Kırmızı B., Göktürk E.H., Türkmenoğlu A.G., and Yalman B. -
- F17. **SOME OBSERVATIONS ON CRYSTALLINE SILICA PHASES DURING FIRING OF KAOLINITIC CLAY**
Aras A.

FOURTH MEDITERRANEAN CLAY MEETING
September 5-10, 2006, Middle East Technical University, Ankara, Turkey

September 9-11, 2006 (Saturday-Monday)

POST-MEETING EXCURSION TO CAPPADOCIA REGION

POST-MEETING EXCURSION TO ISTANBUL REGION