Sediment Volume Tests for expansive soil identification and Classification

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Expansive soils are those soils which undergo significant volume changes when subjected to water intake. The upward and downward movement of soils causes a big damage to railways, highways and building constructions resulting millions of dollars loss. Therefore identification and classification of them are essential for the suitable solutions and precautions to be undertaken.

In geotechnical engineering, clays are defined as those soils, which are composed predominantly of clay minerals. These clay minerals, which are nothing but hydrous alumina silicates, belong to a larger mineral family called phyllosilicates. There are different classes of clay minerals such as 2-layered clay minerals (ex: kaolinite mineral), 3-layer clay minerals (ex: montmorillonite mineral), 4-layer minerals (ex: chlorite mineral) and so on. These clay minerals along with the associated exchangeable cations play a dominant role in controlling the physic-chemical and engineering behavior of fine-grained soils. Among the various types of clay minerals, kaolinite and montmorillonite represent the two extreme types and need major consideration. While kaolinite is almost inert material from the view point of swelling, montmorillonite clay minerals play a very dominant role in contributing to swelling. The unit cell of montmorillonite mineral consists of an alumina octahedral sheet sandwiched between two silicate sheets. The bonding between the adjacent unit cells of montmorillonite mineral is through very weak van der Waals' forces. This is the primary reasons for swelling to take place.

Three main forces that exist in the fine grain soil water system are i) the forces due to self-weight , ii) electrical forces of attraction (i.e. distance forces), iii) electrical forces of repulsion (i.e. distance forces). Even though, the latter two forces are negligibly small compared to the contact forces in coarse grained soils, their influence is all the more important in a system with very high water content wherein the effect of mechanical forces like inter particle friction is appreciably less. The inter particle of attractive and repulsive forces being the predominant forces in a settling clay- electrolyte system, any changes in them are likely to control the process of formation of the sediments, their nature and the resulting equilibrium sediment volume. In addition, soil clay mineralogy plays an important role on the equilibrium sediment volume of fine-grained soils under different physic-chemical environments.

The effects of dielectric constant of the pore medium on the equilibrium sediment volume of the kaolinitic and montmorillonitic soils are quite opposite to each other. The sediment volume in water is dominated by diffuse double layer water, whereas the sediment

volume in kerosine is dominated by attractive forces leading to flocculent clay fabric. Kaolinitic soils show higher sediment volume in kerosene/carbon tetra chloride than in water whereas this is opposite for montmorillonitic soils. This characteristic behavior has been used to develop the free swell ratio method of classifying the soil with respect to their swelling magnitude.

This can be effectively used for classifying the degree of expansivity of natural fine-grained soils and also to obtain the clay mineralogical composition of such soils. Sridharan and Prakash have defined a term Free Swell Ratio (FSR) as the ratio of equilibrium sediment volume of 10 g of oven dry soil passing 425 μm sieve in distilled water (V_d) to that in carbon tetra chloride (V_k) after an equilibration period of 24 h.[1]

$$FSR = V_d / V_k \quad (1)$$

Many laboratory tests were conducted to obtain useful information about the fine-grained soils with sediment volume test. This paper intends to examine the procedural aspects of the sediment volume tests and mechanisms involved to critically evaluate the validity of the results obtained and suggest a rational improvement to the existing test procedures.

A meaningful and scientific rationale has evolved from the settling behavior of fine grained soils to provide a sound scientific basis for the free swell ratio method.

REFERENCES

[1] Sridharan A., Prakash K.,(2000), Classification procedures for expansive soils , Journal of Institution of Civil Engineers, Geotechnical Engineering, ,143:235-240.

Key Words: *(swelling,free swell ratio,clay)*

PROGRAMME AND ABSTRACTS



- **International Conference on New Trends in Architecture and Interior Designing**
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Best Regards,

The AIOC Organization Committee

Assoc. Prof. Dr. Fatma NOYAN TEKELI

Yıldız Technical University

Committee Chair

PROGRAMME

24 MARCH 2015
12:00 – 20:00 : REGISTRATION / CONFERENCE LOBBY AREA

25 MARCH 2015
09:00-10:00 : REGISTRATION / CONFERENCE LOBBY AREA

10:00-11:15	**MAIN HALL** **GRAND OPENING CEREMONY & WELCOME SPEECH**
AIOC	**Assoc. Prof. Dr. Fatma NOYAN TEKELI / Yıldız Technical University - Turkey** (AIOC Committee Chair / Disciplinary Co Chair – Statistics)
Econometrics	**Assoc. Prof. Dr. Sevin UGURAL / Eastern Mediterranean University – North Cyprus** (Disciplinary Co Chair – Econometrics)
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Architecture	**Assist. Prof. Dr. Saadet AYTIS / Mimar Sinan Fine Arts University – Turkey** (Disciplinary Chair – Architecture)
Civil Engineering	**Assist. Prof. Dr. Ayse YUKSEL OZAN / Adnan Menderes University – Turkey** (Disciplinary Co Chair – Civil Engineering)

11:15 – 11:30	**C O F F E E / T E A B R E AK**

MAIN HALL - CHEMISTRY	
11:30-12:30	**KEYNOTE SPEAKER / Prof. Dr. Zekiye CINAR – Yıldız Technical University** **Title:** THE ROLE OF CODOPING IN TiO2 PHOTOCATALYSIS

HALL 1 – CIVIL ENGINEERING	
11:30-12:30	**KEYNOTE SPEAKER / Prof. Dr. Osman AKAN – American University of Sharjah** **Title:** BEST MANAGEMENT PRACTICES FOR LOW IMPACT DEVELOPMENT

HALL 2 – STATISTICS & ECONOMETRICS	
11:30-12:30	**KEYNOTE SPEAKER – Prof. Dr. Ismihan BAYRAMOGLU (BAIRAMOV) - Izmir University of Economics** **Title:** RECORDS IN BIVARIATE SEQUENCES OF RANDOM VARIABLES

HALL 3 – ARCHITECTURE	
11:30-12:30	**KEYNOTE SPEAKER – Prof. Dr. Burçin Cem ARABACIOĞLU – Mimar Sinan Fine Arts University** **Title:** MEKÂNDA BİLGİ-İLETİŞİM TEKNOLOJİLERİ DESTEKİ ETKİLEŞİMLİLİK TASARIMI

12:30 – 14:00	**LUNCH**

MAIN HALL – CHEMISTRY

SESSION CHAIR	**PD.Dr.Habil. Daniel Ayuk Mbi EGBE**	
TIME	**TITLE**	**PRESENTER**
14:00 – 14:20	CRYSTALLIZATION OF CALCIUM CARBONATE IN THE PRESENCE OF WATER SOLUBLE BLOCK COPOLYMER OF POLYZWITTERION AND POLYETHYLENE GLYCOL	Ferdane KARAMAN – Özlem YAZICI
14:20 – 14:40	ZN2 + EFFECT ON BIOLOGICAL PROPERTIES OF AMSONIA ORIENTALIS	Yonca AVCI DUMAN – Halil Ibrahim TOYGAR – Aygül KINA - Sinem BALCI - Arda ACEMİ – Yonca YUZUGULLU
14:40 – 15:00	PHTHALOCYANINE FUNCTIONAL PHOTOCURABLE COPOLYMER FOR POLYMER DISPERSED LIQUID CRYSTAL DISPLAY APPLICATIONS	Hümeyra MERT BALABAN – Hatice DİNÇER – Emel ÇALIŞKAN – Betül Nur

		ŞEN - Yeşim HEPUZER GURSEL
15:00 – 15:20	SYNTHESIS SPECTROSCOPIC CHARACTERIZATION AND THEORIC CRYSTALLOGRAPHIC INFORMATION OF NOVEL PHENYLDIAZALINE CALIX[4]ARENE CONTAINING ACRYLOYL MOIETY	Sevil OZKINALI – Zeynel ÖZTÜRK
15:20 – 15:40	ZETASIZER MEASUREMENTS OF POLYMER-DRUG DELIVERY SYSTEMS	Dolunay SAKAR DAŞDAN – Nur Melek ÇETİN, Ceren ASLITÜRK – Gülderen KARAKUS

15:40 – 16:00	**C O F F E E / T E A B R E AK**

SESSION CHAIR	**Prof. Dr. Zekiye CINAR**	
TIME	**TITLE**	**PRESENTER**
16:00 – 16:20	DETERMINATION of OPTIMUM CONDITIONS for BIOGENIC AMINES DERIVATIZED with ACETYLACETONE	Bediha AKMEŞE – Adem ASAN
16:20 – 16:40	INVESTIGATION OF THERMODYNAMIC PROPERTIES OF 4-DECYLOXYBIPHENYL-4'-CARBOXYLIC ACID LIQUID CRYSTAL BY INVERSE GAS CHROMATOGRAPHY	Fatih ÇAKAR - Gürkan KARANLIK - Hale OCAK - Belkıs BİLGİN ERAN - Özlem CANKURTARAN - Ferdane KARAMAN
16:40 – 17:00	STEREOSELECTIVE SYNTHESIS OF DIPHENYL SUBSTITUTED CONDURITOL-TYPE CARBASUGARS	Sedat SEVMEZLER – Arif BARAN

HALL 1 – CIVIL ENGINEERING

SESSION CHAIR	**Prof. Dr. OSMAN AKAN**	
TIME	**TITLE**	**PRESENTER**
14:00 – 14:20	CONCRETE DETERIORATION, MODELING AND HEALTH MONITORING OF STRUCTURES	Abid ABU TAIR
14:20 – 14:40	A PROMISING APPROACH IN THE WORLD: TENSILE STRUCTURES ROOFING	Alaa Tareq AL-SHAREEF - Talha EKMEKYAPAR - Derya BAKBAK
14:40 – 15:00	EFFICIENCY OF USE OF A CARBON GEOMEMBRANE FOR THE CONSTRUCTION OF THE EMBANKMENT in POOR LOAD-	Ales ZIBERT - Stanislav SKRABL

	BEARİNG FOUNDATİON SOIL WITH A VERIFICATION OF THE IMPACT OF THE THEORY OF LARGE DEFORMATIONS in THE NUMERICAL CALCULATIONS	
15:00 – 15:20	PREDICTION OF COMPACTION BEHAVIOUR OF SOILS AT DIFFERENT ENERGY LEVELS	Yesim GURTUG - Asuri SRIDHARAN
15:20 – 15:40	SEDIMENT VOLUME TESTS FOR EXPENSIVE SOIL IDENTIFICATION AND CLASSIFICATION	Esin BOZKURT - Yesim GURTUG - Asuri SRIDHARAN

15:40 – 16:00	**C O F F E E / T E A B R E AK**

SESSION CHAIR	**Assist.Prof.Dr. Ayse YUKSEL OZAN**	
TIME	**TITLE**	**PRESENTER**
16:00 – 16:20	TREATMENT AND IMPROVEMENT of GEOTECHNICAL PROPERTIES OF FINE GRAINED SOIL USING LIME	Louafı BAHIA – Hadef BILLAL
16:20 – 16:40	TEMPERATURE TREND ANALYSIS IN URMIA LAKE BASIN COMPARED WITH WATER LEVEL FLUCTUATIONS OF THE LAKE	Shadi HATAMI MAJOUMERD - Alireza BORHANI DARIANE
16:40 – 17:00	MEASUREMENT OF RESIDUAL STRESSES BY THE NEUTRON DIFFRACTION TECHNIQUE IN WELDED JOINT	Moussa ZAOUI - Noureddine CHAMI

HALL 2 – STATISTICS & ECONOMETRICS

SESSION CHAIR	**Assist.Prof.Dr.Gülder KEMALBAY**	
TIME	**TITLE**	**PRESENTER**
14:00 – 14:20	CONFIDENCE INTERVALS FOR THE BEHRENS -FISHER PROBLEM: A PARAMETRIC BOOTSTRAP APPROACH	Ahmet SEZER - Evren ÖZKİP - Berna YAZICI·
14:20 – 14:40	MEASURING SOCIAL INEQUALITY: COMPARISON OF GINI COEFFICIENT AND THEIL INDEX	Valentina SOKOLOVSKA - Žolt LAZAR - Aleksandar TOMAŠEVIĆ
14:40 – 15:00	BIAS REDUCING APPROACH FOR SOME ROBUST ESTIMATORS İN THE CASE OF KERNEL ESTIMATION.	Celal Aydın - Necla Gündüz - Emel Başar
15:00 – 15:20	JOINT DISTRIBUTION OF NEW SAMPLE RANK OF BIVARIATE ORDER STATISTICS	Gulder KEMALBAY – Ismıhan BAYRAMOGLU
15:20 – 15:40	IMPACT OF INFLATION ON	Sevin UGURAL, Rosemary

	ECONOMIC GROWTH; CASE STUDY OF NIGERIA	IDALU

15:40 – 16:00	**C O F F E E / T E A B R E AK**

WORKSHOP on ORDER STATISTICS	
16:00 – 17:00	**Prof. Dr. Narayanaswamy BALAKRISHNAN- McMaster University**

HALL 3 – ARCHITECTURE

Presentations will be in Turkish. English Translated Abstracts will be delivered.

SESSION CHAIR	**Assoc. Prof. Dr. Saadet AYTIS**	
TIME	**TITLE**	**PRESENTER**
14:00 – 14:20	GIYIM MAĞAZASI TASARIM ILKELERİ VE YENI TRENDLER	Ibrahim Can AYTIS
14:20 – 14:40	VITRIN AYDINLATMALARINDA TERCIH EDILEN AYDINLATMA ELEMANININ FARK EDİLEBIRLIRLIGE KATKISI	Necmi KAHRAMAN - Ebru OKUYUCU – Mehmet SARIKAHYA
14:40 – 15:00	İÇ MEKÂNIN HİSSEDİLEBİLEN ÖRTÜSÜ: NANOMALZEMELER	Merih KASAP
15:00 – 15:20	KÜLTÜRÜN MEKANSAL YANSIMALARI VE MIMARI	Tugba TARIM

15:40 – 16:00	**C O F F E E / T E A B R E AK**

SESSION CHAIR	**Prof. Dr. Burcin Cem ARABACIOĞLU**	
TIME	**TITLE**	**PRESENTER**
16:00 – 16:40	MATERIALITY IN DIGITAL FABRICATION AND DESIGN WORKFLOWS”	Ammar KALO
16:40 – 17:00	CONSERVATION AND HIGH-TECH GO HAND IN HAND	Gamze KAYMAK HEINZ
17:00 – 17:20	THE USE OF EXPERIENTIAL LEARNING IN MUSEUMS	Aysegul PEKPOSTALCI
17:20 – 17:40	THE EVALUATION OF CULTURAL CODES IN INTERIOR DESIGN THROUGH TELEVISION SERIES AND CHANGING PERCEPTION OF HOUSING IN TURKEY.	Meral NALÇAKAN - Seda CANOĞLU - Nilay ÖZSAVAŞ
17:40 – 18:00	FURNITURE DESIGN in TURKEY AFTER 1950 "KARE METAL"	Şebnem ERTAŞ - Funda KURAK AÇICI - Firdevs KULAK - Aslı TAŞ

26 MARCH 2015

09:00-10:00 : REGISTRATION / CONFERENCE LOBBY AREA

09:00 – 12:00	**CHEMISTRY: TECHNICAL TOUR** **DETAILS WILL BE ANNOUNCED LATER**

09:00 – 12:00	**CIVIL ENGINEERING: TECHNICAL TOUR** **10:00 Visit & Meeting at Nakheel Construction (www.nakheel.com)** **Other visits will be available soon**

09:00 – 12:00	**ARCHITECTURE: TECHNICAL TOUR** **10:00 Visit & Meeting at Nakheel Construction (www.nakheel.com)** **Other visits will be available soon**

12:30 – 14:00	**LUNCH**

MAIN HALL – CHEMISTRY (POSTER SESSION)

SESSION CHAIR		
TIME	**TITLE**	**PRESENTER**
14:20 16:20	SIMULTANEOUS DETERMINATION OF POTASSIUM SORBATE, SODIUM BENZOATE, QUINOLINE YELLOW AND SUNSET YELLOW IN LEMONADES AND LEMON SAUCES BY HPLC, USING EXPERIMENTAL DESIGN	Bürge AŞÇI - Şule DİNÇ ZOR - Özlem AKSU DÖNMEZ - Dilek YILDIRIM KÜÇÜKKARACA
	SYNTHESIS OF A NOVEL PHTHALOCYANINE WITH PERIPHERALLY COORDINATED RU(II) COMPLEX	Gülşah GUMRUKCU KOSE - Gulnur KESER KARAOGLAN - Nurufe KEMIKLI - Ahmet GUL
	EFFECT OF THE AMINO ACID ADDITIVES ON THE ELECTROCHEMICAL PERFORMANCE OF THE POSITIVE ELECTROLYTE FOR VANADIUM REDOX BATTERIES	Hurmus GURSU - Metin GENCTEN - Yucel SAHIN
	A NOVEL QUARTZ CRYSTAL MICROBALANCE SENSOR BASED ON THE ALDEHYDE FUNCTIONALIZED POLYETHERIMIDE	Hüsnü CANKURTARAN - Bekir SELÇUKİ
	REACTIONS OF 2,2,6-TRIMETHYL-1,3-DIOXINE-4-ONE WITH THE ALDIMINES PREPARED FROM THIOPHENE-2-CARBALDEHYDE	Nuket OCAL - Ilayda KOSER
	EXPERIMENTAL OPTIMIZATION OF PROCESS PARAMETERS ON	Ömer SAVAŞ - Salim ASLANLAR - Faruk

	RESISTANCE SPOT WELDING SHEAR STRENGTH BASED ON TAGUCHI METHOD	VAROL
	DEVELOPMENT OF A HIGH PERFORMANCE LIQUID CHROMATOGRAPHY METHOD FOR SIMULTANEOUS DETERMINATION OF EPHEDRINE, GUAIPHENESIN AND ADDITIVES IN SYRUP SAMPLES USING AN EXPERIMENTAL DESIGN	Ayşe ASLAN ÇAKIR - Özlem AKSU DONMEZ - Bürge AŞÇI - Şule DİNÇ ZOR
	MORPHOLOGY AND CHARACTERIZATION OF POLYMER DISPERSED LIQUID CRYSTAL BY SOLVENT-INDUCED PHASE SEPARATION	Serap MUTLU YANİÇ - Hale OCAK - Dilek GÜZELLER - Fatih ÇAKAR - Özlem CANKURTARAN - Belkıs BİLGİN-ERAN
	SURFACE CHARACTERIZATION OF POLYSTYRENE-B-POLY (ACRYLIC ACID) BY INVERSE GAS CHROMATOGRAPHY AT INFINITE DILUTION	Özlem YAZICI
	ADSORPTION AND DESORPTION CHARACTERISTICS, ISOTHERM AND KINETICS PARAMETERS OF XAD-16 RESIN FOR REMOVING MALACHITE GREEN OXALATE	Çağdaş BÜYÜKPINAR - Dila KAYA - Gizem ÖZİNANÇ - Nevim SAN1
	ASYMMETRIC ORGANOCATALYTIC SYNTHESIS OF β-HYDROXYCARBONYL COMPOUNDS	Merve KARAOGLU - Feray AYDOGAN - Çigdem YOLACAN
	THE SYNTHESIS OF PROLINE-BASED ASYMMETRIC ORGANOCATALYSTS AND THEIR APPLICATIONS	Tuğba YORULMAZ - Feray AYDOGAN - Çigdem YOLACAN
	CONDUCTIVE POLYMER DOPED WITH MoS2 COATINGS FOR THE CORROSION PROTECTION OF MILD STEEL	Gülden ASAN - Abdurrahman ASAN
	WASTE WATER TREATMENT OF ELECTROCOAGULATİON TECHNIQUE USING DIFFERENT HEAVY METAL SOLUTIONS	Türkan Börklü Budak - İkbal Koyuncu
	SYNTHESIS OF ANTHRAQUINONE SUBSTITUTED COBALT PHTHALOCYANINE	Sibel EKEN KORKUT - M. Kasım ŞENER - Atıf KOCA
	THREE- COMPONENT, ONE-POT SYNTHESIS OF INDENO[1,2-B]QUINOLINE-7-ONE DERIVATIVES CATALYZED BY TRIFLATE	Zühal TURGUT - Özlem ELMAS - Kadir TURHAN
	CONTROLLING THE PROPERTIES OF PH-SENSITIVE POLY(B-AMINOESTER) HYDROGELS BASED ON DIFFERENT AMINES AND DIACRYLATES	Yasemin TAMER - Hüseyin YILDIRIM
	THE ANALYSIS OF REACTION	Bahar EREN - Yelda

	KINETICS OF AMINOTOLUENE MOLECUL THROUGH CALCULATIONAL METHODS	YALCIN GURKAN

MAIN HALL – CHEMISTRY	
16:20 – 17:20	**KEYNOTE SPEAKER – PD.Dr.Habil. Daniel Ayuk Mbi EGBE - Linz Institute for Organic Solar Cells, Linz** **Title:** MATERIAL DESIGN FOR POLYMERIC ORGANIC SOLAR CELLS: CASE STUDY OF PPE-PPV SYSTEMS

HALL 1 – CIVIL ENGINEERING

SESSION CHAIR	**Dr. Fatih GOKTEPE**	
TIME	TITLE	PRESENTER
14:20 – 14:40	YÜKSEK HIZLI TRENLERİN SERBEST ZEMİN YÜZEYİNDE ve ÇEVRE YAPILARDA OLUŞTURDUĞU TİTREŞİMLERİN DENEYSEL OLARAK İNCELENMESİ	Fatih Göktepe - Erkan Çelebi - H. Serdar Küyük - Muharrem Aktaş - Elif Ağcakoca
14:40 – 15:00	PONZA AGREGALI HAFİF HARÇLARA LİF TİPİ VE ORANININ ETKİSİ	İlhami DEMİR - Özer SEVİM - Selahattin GÜZELKÜÇÜK
15:00 – 15:20	Sismik Yüklere Maruz Yapı- Zemin Ortak Sisteminin Çözüm Sürecinde Temel-Zemin Etkileşim Ortamının Sönümü	Mustafa Yavuz Çetinkaya - Erkan Çelebi - Osman Kırtel
15:20 – 15:40	ARAZİ VE ARSA DÜZENLEMELERİNDE ALAN ESASLI VE DEĞER ESASLI UYGULAMALARIN KARŞILAŞTIRILMASI	Şenay ATABAY - İdris ATABAY

HALL 2 – STATISTICS & ECONOMETRICS	
09:40 – 10:40	**KEYNOTE SPEAKER – Narayanaswamy BALAKRISHNAN - McMaster University**

10:40 – 11:00	**C O F F E E / T E A B R E AK**

HALL 2 – STATISTICS & ECONOMETRICS

SESSION CHAIR	Assoc. Prof. Dr. Gülhayat GÖLBAŞI ŞİMŞEK	
TIME	**TITLE**	**PRESENTER**
11:00 – 11:20	APPLICATION OF EMPIRICAL LIKELIHOOD REGRESSION TO A REAL DATA SET WITH OUTLIERS	**Selahattin AYDOGDU** - Gülhayat GÖLBAŞI ŞİMŞEK
11:20 – 11:40	ESTIMATING COVARIANCE AS A MEASURE OF PORTFOLIO RISK BETWEEN HIGHLY CORRELATED ASSETS	**Gülder KEMALBAY** – Ozlem BERAK KORKMAZOGLU
11:40 – 12:00	LEARNING BAYESIAN NETWORKS FROM CLASSIFICATION TREES AND EXPERT KNOWLEDGE: A PRELIMINARY STUDY	**Luisa Stracqualursi** - Patrizia Agati
12:00 – 12:20	INFORMATION EXTRACTION FROM VIBRATİON DATA: A TIME SERIES APPROACH	**Ibrahim GENC**

12:30 – 14:00	**LUNCH**

SESSION CHAIR	Assoc. Prof. Dr. Sevin UGURAL	
TIME	**TITLE**	**PRESENTER**
14:00 – 14:20	APPLICATION OF TIME DEPENDENT COX PH MODEL IN CREDIT RISK ANALYSIS IN SERBIA	Milena KRESOJA - Sandra RACKOV
14:20 – 14:40	PANEL GWR ANALYSIS OF CONSUMPTION BEHAVIOR in TURKISH REGIONS	Bulent GULOGLU - Fuat ERDAL
14:40 – 15:00	THE FLEXIBLE FOURIER FORM AND PANEL STATIONARY TEST WITH GRADUAL SHIFTS	Şaban NAZLIOGLU – Cağın KARUL
15:00 – 15:20	VOLATILITY SPILLOVERS BETWEEN STOCK MARKETS AND BOND MARKETS IN SOME SELECTED EUROPEAN COUNTRIES	Ersan Öz - Resul Aydemir - Bülent Güloğlu - Ercan Saridoğan

15:20 – 15:40	**C O F F E E / T E A B R E AK**

WORKSHOP	
16:20 – 17:20	**Prof. Dr Prof. Dr. Ismihan BAYRAMOGLU (BAIRAMOV) - Izmir University of Economics**

HALL 3 – ARCHITECTURE

Presentations will be in Turkish. English Translated Abstracts will be delivered.

SESSION CHAIR	Prof. Dr. Meral NALÇAKAN	
TIME	**TITLE**	**PRESENTER**
14:20 – 14:40	İÇ MEKÂNDA 3D MODELLEME KULLANARAK FARKLI TASARIM ALTERNATİFLERİNİN OLUŞTURULMASI VE AFYON KOCATEPE ÜNİVERSİTESİ REKTÖRLÜK GİRİŞ MEKANI İÇİN OLUŞTURULAN TASARIM MODELLERİ	Mehmet SARIKAHYA - Ş. Ebru OKUYUCU - Necmi KAHRAMAN
14:40 – 15:00	GEÇMİŞTEN GÜNÜMÜZE UZANAN GELENEKSEL VE MODERN CAMİLERİN MEKÂNSAL KURGULARININ, TASARIM KONSEPTLERİNİN VE ESTETİK ARAYIŞLARININ DEĞERLENDİRİLMESİ VE CAMİ ÖRNEKLERİNİN ANALİZİ	Ş. Ebru OKUYUCU - Mehmet SARIKAHYA - Necmi KAHRAMAN
15:00 – 15:20	CUMALIKIZIK GELENEKSEL YERLEŞİMİ İLE BURSA TOKİ MODERN YERLEŞİMİNİN SÜRDÜRÜLEBİLİRLİK BAĞLAMINDA KARŞILAŞTIRILMASI	Güler KOCA - Gülşen AKIN

15:20 – 15:40	**C O F F E E / T E A B R E AK**

SESSION CHAIR	Prof. Dr. Didem Baş YANARATEŞ	
TIME	**TITLE**	**PRESENTER**
15:40 – 16:00	MATERIALS OF SPACES' & 'SPACES FOR MATERIALS'	Didem BAŞ YANARATEŞ
16:00 – 16:20	ALTERATION OF SPACE IN SILLE TRADITIONAL RESIDENCES VIA TECHNOLOGICAL EQUIPMENT	Elif BÜLÜÇ - Fatmanur BARAN - Havva Burcu YILDIRIM - Dicle AYDIN
16:20 – 16:40	TRADITIONAL AND MODERN INTERIORS of TURKISH HOUSE	Ikbal Ece POSTALCI – Güldehan ATAY
16:40 – 17:00	THE TRACES OF THE PAST... THE ROOTS OF THE FUTURE AN ESSAY ON CREATIVITY, PLAY AND ARCHITECTURE	Tuna ŞAHSUVAROGLU
17:00 – 17:20	CONSERVATION AND HIGH-TECH GO HAND IN HAND	Gamze KAYMAK HEINZ
17:20 – 17:40	THE IMPACT OF PASSIVE TRADITIONAL STRATEGIES ON SAVING ENERGY IN HOT CLIMATE	Nadia AL BADRI
17:40 – 18:00	NEW TREND IN DESIGNING EXPERIENTIAL SHHOPPING SPACES	Ayşegül PEKPOSTALCI

26 MARCH 2015

GRAND GALA DINNER: Please check your coupon delivered with conference bag. Extra Ticket: 50 Usd per person

Departure from Hotel Lobby (Down Floor) : 19:30 / Arrival to Hotel : 23:00

27 MARCH 2015

MAIN HALL – CHEMISTRY (POSTER SESSION)

SESSION CHAIR		
TIME	**TITLE**	**PRESENTER**
	DIMERIZATION OF TETRAHYDROISOBENZOFURAN-4-ONE: SYNTHESIS OF NATURAL PRODUCT	Sedat SEVMEZLER – Arif BARAN
	AN EFFICIENT STEREOSELECTIVE SYNTHESIS OF SOME PSUDOCARBASUGAR POLIOLS	Sedat SEVMEZLER – Arif BARAN
10:00	STEREOSELECTIVE SYNTHESIS OF HALOGEN SUBSTITUTED CARBOSUGARS COMPOUNDS	Sedat SEVMEZLER – Arif BARAN
	STEREOSELECTIVE SYNTHESIS OF DIPHENYL SUBSTITUTED CONDURITOL-TYPE CARBASUGARS	Sedat SEVMEZLER – Arif BARAN
12:00	SYNTHESIS AND CHARACATERIZATION OF THE SCHIFF BASES AND THEIR TRANSITION METAL COMPLEXES	Esra KAKI - Hatice CEYLAN
	SYNTHESIS, CHARACTERIZATION, ELECTROCHEMISTRY AND VOC SENSING PROPERTIES OF NOVEL METALLOPHTHALOCYANINES	Esra KAKI - Ali Rıza ÖZKAYA - Ahmet ALTINDAL - Bekir SALİH - Özer BEKAROĞLU
	KINETIC DIFFERENCES BETWEEN THREE COMMERCIAL EPOXIES CURING TO ROOM TEMPERATURE	Juana ABENOJAR - Belén ENCINSO - Mariola PANTOJA - Miguel Angel MARTINEZ
	CHEMICAL CHANGES ON THERMOPLASTIC POLYMERS TREATED WITH ATMOSPHERIC PRESSURE PLASMA TORCH	Belén ENCISO - Noemí ENCINAS - Mariola PANTOJA - Juana ABENOJAR - Miguel Angel MARTINEZ
	ADDITION OF A CROSSLINKING AGENT INTO CONVENTIONAL SILANE SOLUTION: EFFECT ON HYDROLYSIS AND CONDENSATION PROCESS	Mariola PANTOJA - Juana ABENOJAR - Miguel Angel MARTINEZ - Yolanda BALLESTEROS
	NON-THERMAL ATMOSPHERIC PRESSURE PLASMA: SURFACE EFFECT ON BLACK GLASS-CERAMIC	Miguel Angel MARTINEZ - Carlos RODRIGUEZ-VILLANUEVA - Belén ENCINSO - Mariola PANTOJA - Juana

		ABENOJAR
	PHOTOPHYSICAL PROPERTIES OF NEWLY SYNTHESIZED BORON-DIPYRROMETHENE COMPOUNDS	Mustafa HAYVALI - Halil YILMAZ - Betül KÜÇÜKÖZ - Gökhan SEVINÇ - Sezen TEKIN - H. Gul YAGLIOGLU - Ayhan ELMALI
	SYNTHESIS AND PROPERTIES OF HYBRID POLYURETHANE ACRYLATE COATING MATERIALS BY UV IRRADIATION AND SOL-GEL METHOD	Sevim KARATAŞ - H.Burcu HANAY - Atilla GÜNGÖR
	SYNTHESIS AND CHARACTERIZATION OF UV CURABLE HYPER BRANCHED POLYESTER POLYOLS BASED ACRYLATES	Sevim KARATAŞ - Volkan DİNDAR - Atilla GÜNGÖR
	SYNTHESIS AND CHARACTERIZATION OF NOVEL METALLOPHTHALOCYANINES	Şaziye ABDURRAHMANOĞLU - Büşra MIZRAK
	SYNTHESIS AND CHARACTERIZATION OF RARE-EARTH SANDWICH COMPLEX	Şaziye ABDURRAHMANOĞLU - Büşra MIZRAK
	PHENOLIC AND FLAVONOID CONTENTS OF EXTRACTS FROM CLOVER LEAF	Yeşim YEŞILOĞLU - Sezer GÜLEN
	BENZO-15-CROWN-5 CONTAINING “NO” DONOR LIGANDS AND COMPLEXES: SYNTHESIS AND TAUTOMERISM ORTHO-HYDROXY SUBSTITUTED COMPOUNDS	Zeliha HAYVALI - Cemal ŞENOL - Duygu ŞAHİN - Öznur ŞENEL - Serhat KOÇOĞLU
	INFLUENCE OF TEMPERATURE AND TH CURRENT DENSITY ON THE HARDNESS OF THE COATINGS OBTAİMED IN VARIOUS ELECTROLYTES CONTENT OF IRON CHLORIDE	Boubaker Othmani - Boucetta said
	THE SYNTHESIS OF BIODIESEL FROM VEGATABLE OIL	Radia SELAIMIA, Abdelsalem BEGHIEL, Rabah OUMEDDOUR

HALL 1 – STATISTICS & CIVIL ENGINEERING (POSTER SESSION)

SESSION CHAIR		
TIME	**TITLE**	**PRESENTER**
	REGULARIZED MINIMUM COVARIANCE DETERMINANT FOR CLASSIFICATION OF LARGE P SMALL N DATA.	Ernest Fokoue - Bohan Liu - Necla Gündüz

11:20 12:20	ESTIMATING THE RELIGION OF COUNTRIES ACCORDING TO SHAPES OF THE FLAGS USING SUPPORT VECTOR MACHINES AND KERNEL METHODS	Taha EREN SARNIÇ / STATISTICS
	DETAILED MICROZONATION STUDIES AROUND THE GOKPINAR DAM LAKE (DENIZLI)	Ali AYDIN - Suat TAŞDELEN - Mahmut GÜNGÖR - Erdal AKYOL
	FARKLI SINIF ÇİMENTO HARCI ÜRETİMİNDE METAKAOLİN KATKISI KULLANIMININ ARAŞTIRILMASI	Gökhan GÖRHAN - Gökhan KÜRKLÜ
	BEYAZ ÇİMENTO HARCI ÖZELLİKLERİNE METAKAOLİN KATKISININ ETKİSİ	Gökhan KÜRKLÜ - Gökhan GÖRHAN

HALL 2 – STATISTICS & ECONOMETRICS

SESSION CHAIR	**Prof. Dr. Mehmet EVKURAN**	
TIME	**TITLE**	**PRESENTER**
09:40 – 10:00	HIGHER EDUCATION AND DISTANCE EDUCATION APPLICATIONS IN TURKISH UNIVERSITIES	Mehmet EVKURAN
10:00 – 10:20	THE RESEARCH OF FACTORS THAT MAY AFFECT THE SUCCESS OF DISTANCE EDUCATION STUDENTS ON THEIR VOCATIONAL COURSES WITH THE METHOD OF LOGISTIC REGRESSION ANALYSIS	Hakan KÖR - Hasan ERBAY - Emre DEMİR
10:20 – 10:40	APPROXIMATE ALGORITHM FOR UNCONSTRAINED (UN) WEIGHTED TWO-DIMENSIONAL GUILLOTINE CUTTING PROBLEMS	Rachid OUAFI - Maya AIT ABDESSELEM

10:40 – 11:00	**C O F F E E / T E A B R E A K**

HALL 4 – STATISTICS & ECONOMETRICS

SESSION CHAIR	**Prof. Dr. Abdullah EROGLU**	
TIME	**TITLE**	**PRESENTER**
09:20 – 09:40	OECD ÜLKELERİNDE VE TÜRKİYE'DE VERGİ HARCAMALARI	Funda TUNCEL
09:40 – 10:00	STRATEJİK PLANLAMANIN İŞLETMELERİN KARAR VERME DÜZEYLERİNDE KULLANIMI	Gültekin ÖZDEMİR - İlker TEKİN
10:00 – 10:20	A NEW LOAN PAYMENT MODEL UNDER CONSIDERING ON RHYTHMIC	Abdullah EROGLU - Gultekin OZDEMIR

	SKIPS AND VARIABLE INSTALLMENTS	
10:20 – 10:40	TÜRKİYE'NİN RESMİ KALKINMA YARDIMLARI POLİTİKASI: EĞİLİMLER VE HEDEFLER	Şebnem TOSUNOĞLU

10:40 – 11:00	**C O F F E E / T E A B R E AK**

HALL 4 – STATISTICS & ECONOMETRICS

SESSION CHAIR	**Öğr Görv. Ömer Faruk AKMEŞE**	
TIME	**TITLE**	**PRESENTER**
11:00 – 11:20	STATISTICAL ANALYSIS OF STUDENTS' OPINIONS ABOUT THE EFFICIENCY OF WEB-BASED DISTANCE EDUCATION SYSTEM	Ömer Faruk AKMEŞE - Emre DEMİR - Hasan ERBAY3
11:20 – 11:40	A COMPRASION OF SOME META-HEURISTICS OPTIMIZATION METHODS FOR PARAMETER ESTIMATION IN LOGIT MODEL WITH AN APPLICATION TO VITILIGO DISEASE RISK FACTOR	Emre DEMİR - Emre DÜNDER - Mehmet Ali CENGİZ
11:40 – 12:00	2000 YILI VE SONRASI DÖNEMDE TÜRKİYE'NİN DIŞ TİCARET YAPISINDA COĞRAFİ YAKINLIĞA BAĞLI GELİŞMELER: ELEŞTİREL BİR BAKIŞ	Ayşegül AKKOÇ - Melahat YEŞİLKAYA

HALL 3 – ARCHITECTURE

SESSION CHAIR	**Dr. İbrahim IMAN**	
TIME	**TITLE**	**PRESENTER**
09:20 – 09:40	TOWARDS EFFICIENT SUSTAINABILITY	İbrahim IMAN
09:40 – 10:00	SUSTAINABLE EDUCATIONAL STRUCTURES	Bahar KAYA
10:00 – 10:20	PASSIVE COOLING STRATEGIES IN GREENING EXISTING RESIDENTIAL BUILDING IN HOT DRY CLIMATE: CASE STUDY IN BAHRAIN	May Al SAFFAR
10:20 – 10:40	BUBBLE FACADES	Antonio MACIA MATEU - Ana MORA VITORIA - Rebeca CEBRIAN ALBARRACIN - Verónica LEUZZI BETOSINI
10:40 – 11:00	INVESTIGATION OF REFURBISHMENT	Nilay COŞGUN - Tülay

	MADE IN RESIDENCES IN TERMS OF SUSTAINABILITY	ESİN TIKANSAK - E.Özlem AYDIN

11:00 – 11:20	**C O F F E E / T E A B R E AK**

HALL 3 – ARCHITECTURE

SESSION CHAIR	**Prof. Dr. Nilay COSGUN**	
TIME	**TITLE**	**PRESENTER**
11:20 – 11:40	THE WAY PEOPLE DETERMINE THE FUTURE OF THE CITIES: LOCAL ELECTIONS	H.Burçin HENDEN ŞOLT
11:40 – 12:00	GELENEKSEL TARAKLI EVLERİNDE ZAMAN-MEKAN İLİŞKİLERİ	Hilal EREK
12:00 – 12:20	YENİ EĞİTİM ÇEVRESİ TASARIMINDA PERFORMANS ODAKLI YAKLAŞIM	Serefraz AKYAMAN

12:20 – 12:45	**CLOSING CEREMONY**
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