

# PROGRAM

## 2<sup>nd</sup> International Symposium on the Geology of the Black Sea Region

5-9 October 2009

Congress Center of MTA  
Ankara, TURKEY



MADEN TETKİK ve ARAMA  
GENEL MÜDÜRLÜĞÜ



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JEOLOJİ MÜHENDİSLERİ ODASI

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Sözlü sunular iki paralel oturumda gerçekleştirilecektir; her bir sununun zamanlaması Sempozyum programında ayrıntılı olarak verilmiştir. Günlük program her bir salonun girişinde oturum başlamadan önce ayrıca duyurulacaktır.

Sözlü sunular için **20 dakika** çağrılı sunular için **30 dakika** ayrılmıştır; bu sürenin 5 dakikası tartışma ve diğer yazarlarla yer değiştirmek için önerilmektedir. Sempozyum süresince 150'ye yakın sözlü bildiri sunulacağından, iki salondaki programın zamanında yürütülmesi oldukça büyük önem arz etmektedir. Bu nedenle programın aksa-madan ve düzenli devam etmesi için yazarlarımızdan sunularını **zamanında tamam-lamaları** önemle rica edilmektedir. Bu konuda salon başkanları yetkili olup, süre aşımına kesinlikle izin vermeyeceklerdir. 15 dakikanın bitimini belirtmek için her bir salonda alarmlı saat kullanılacaktır. Salon Başkanları ayrıca görevli oldukları oturumun bilimsel kalitesinin korunması ve sempozyum programının düzenli ve zamanında yürütülmesi için gerekli önlemleri alacaklardır.

Her bir salonda bir diz-üstü bilgisayar ve DataShow hazır bulunacaktır. Salonlar-da tepegöz ve slayt aleti **bulunmayacaktır**. Kişisel dizüsti bilgisayarların kullanılması **mümkün olmayacaktır**.

Yazarlarımızdan sunularını "PowerPoint" formatında CD-ROM veya USB bellek-lerinde getirmeleri ve sistemimize zamanında yüklemeleri beklenmektedir. Sistemimizle uyumlu olabilmesi için sunularınızı farklı formatlarda kayıt ederek getirmeniz-de fayda olacaktır. Sunularınızı sistemimize kolayca ve zamanında yüklemeniz için özel bir oda ayrılacaktır: **Sunu Teslim Odası:**

- i. Eğer konuşmanız sabah oturumunda ise sunularınızı bir önceki gün **en geç saat 16:00'ya kadar** sistemimize yüklemeniz gerekmektedir.
- ii. Eğer konuşmanız öğleden sonraki oturumda ise sunularınızı aynı gün **en geç saat 12:00'ye kadar** sistemimize yüklemeniz gerekmektedir.
- iii. Sempozyumun ilk günü (5 Ekim 2009, Pazartesi) olan konuşmalar için, sunu-larını engeç saat 11.00'a kadar sistemimize yüklemeniz gerekmektedir.

Sunu Teslim Odası'nda sizlere yardımcı olmak için görevliler ve sınırlı sayıda ma-saüstü bilgisayar bulunacaktır.

#### POSTER SUNUMLARI:

Poster salonu, konferans salonları ile aynı katta yer almaktadır. Poster sunuları, posterin sunulacağı günde saat sabah 10.00'da asılmalı, son sözlü sunundan sonra indirilmelidir. Poster sunacak olanların çay aralarında ve her gün 13.30-14.00 ara-sında posterlerinin yanibaşında olmaları beklenmektedir.

#### ÖĞLE YEMEKLERİ:

Öğle yemekleri MTA lokantasında yenilir. Bu servisten faydalanmak isteyen-ler günlük 5 TL'ye yemek kuponlarını kayıt masasında satın alabilir.

Oral presentation are organized in oral sessions scheduled in two lecture rooms given in the symposium programme together with the time of presentation of each contribution. The session programme will also be shown outside of the corresponding lecture room well before the session starts.

Thirty and 20 minutes are allotted for invited and normal presentations, respectively, of which five minutes are for discussions and changeover. Because the symposium programme is very tight, the time schedule of each session should be kept strictly. The authors are therefore kindly requested to be punctual on timing of their presentation. To remind the presenter after 15 minutes, an alarm clock will be used in each lecture room. The chairpersons in each lecture room will be asked to maintain the quality of the scientific programme and to prevent any delays in the symposium programme.

A laptop computer and a DataShow will be provided in each oral session room. There will be no slide projectors or overhead projectors available. Please note that personal laptops will not be used.

Authors are kindly asked to bring their presentations in Power Point format on a CD-ROM or USB flash drive. Please bring multiple copies of the presentation different media to make sure your file is compatible with our system. The authors are kindly requested to upload presentations directly in **Speaker Ready Room**.

- i. If your presentation is in the morning session, please deliver your presentation to the Speaker Ready Room until 4:00 p.m. at the latest, on the previous day.
- ii. If your presentation is in the afternoon session, please deliver your presentation to the Speaker Ready Room until 12:00 a.m. at the latest, on the day of your session.
- iii. For presentations in the first day (5th October, 2009, Monday) of the Symposium, the authors are requested to upload their presentations until 11:00 a.m. at the latest.

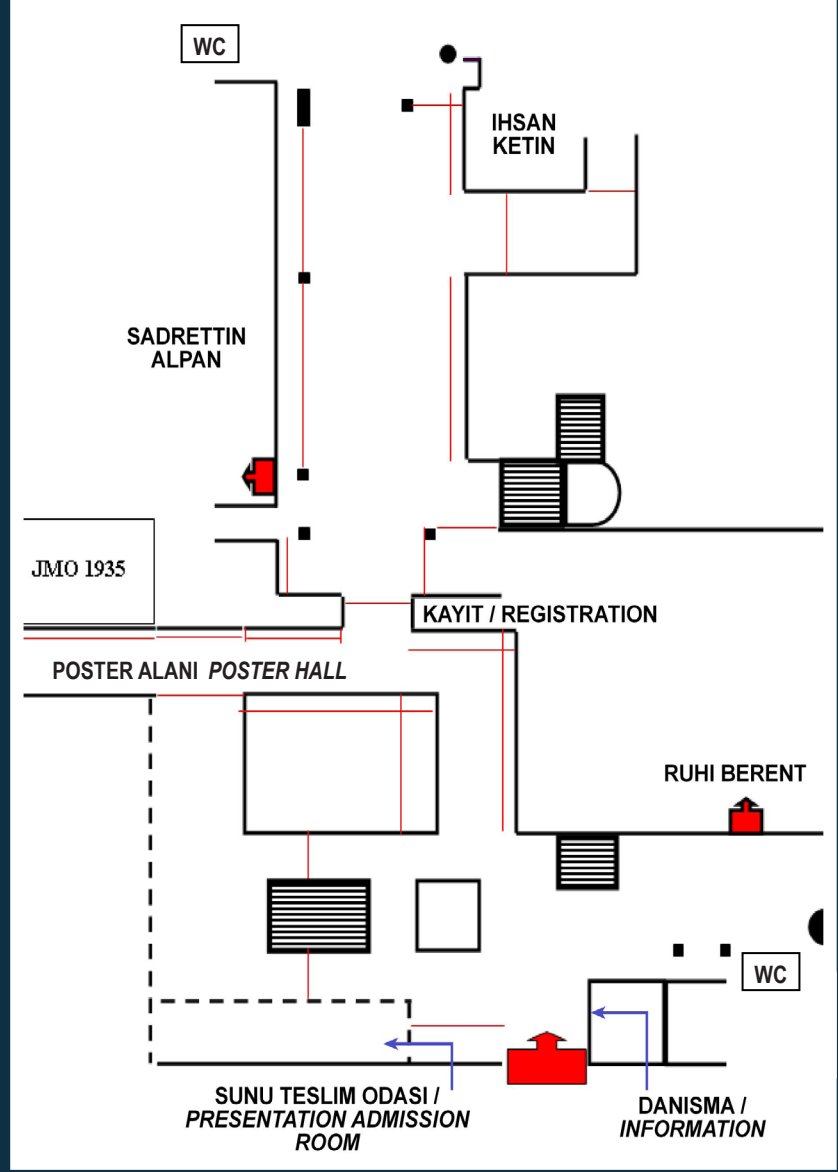
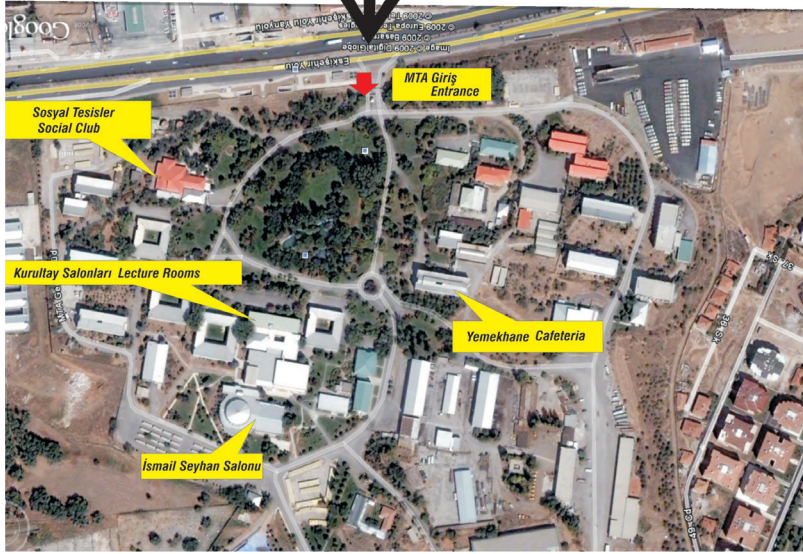
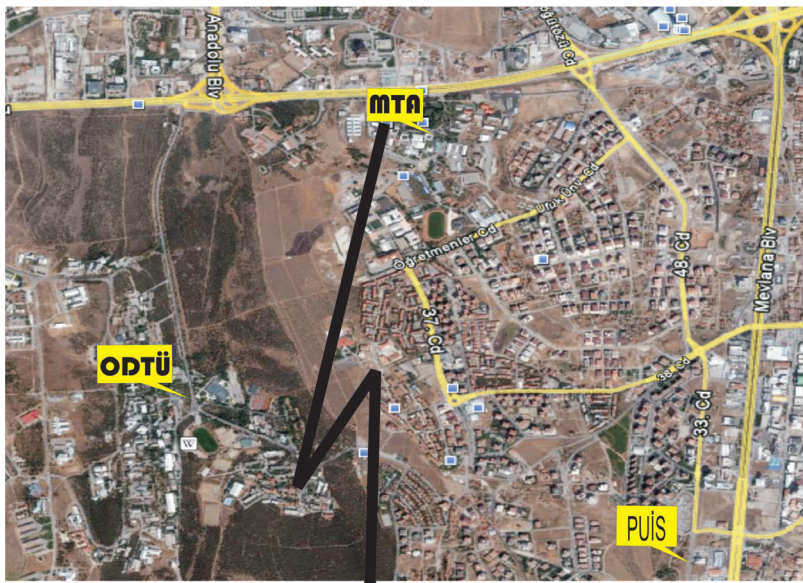
In Speaker Ready Room, there will be assistants to help you; desktops will also be available to preview your presentation.

#### POSTERS:


The poster hall is situated at the same level as the lecture halls. The poster presentations of the day should be put up before 10.00 a.m. and taken down at after the last oral presentation. The authors of the posters are expected to be at around their posters during tea time and between 13.30-14.00 each day.

#### LUNCH:

The restaurant of the MTA serves basic food for lunches. Lunch coupons can be obtained from the registration desk for 5 TL per day. There are also a number of restaurants within walking distance of MTA, please ask at the registration desk.



## SADRETTİN ALPAN CONFERENCE HALL

- 9.00 - 10.00 Registration
- 10.00 - 10.30 Opening ceremony and welcome speeches
- 10.30 - 11.00 Black Sea: A high-energy geopolitical basin of Eurasia  
**Volkan EDİGER**
-  11.00 - 11.20 TEA BREAK

### BLACK SEA

**Chairs: Erdin Bozkurt & Antoneta Seghedi**

- 11.20 - 11.40 The Black Sea back-Arc basin: insights on its origin from geodynamic models of modern analogues  
**R. STEPHENSON & W. P. SCHELLART**
- 11.40 - 12.20 Main Features of the Black Sea lithosphere from geo-physical studies  
**T. YEGOROVA, V. GOBARENKO & E. BARANOVA**
- 12.20 - 14.00 LUNCH

**Chairs: Randell Stephenson & Emin Candansayar**

- 14.00 - 14.20 Does the West Mediterranean structural evolution produce clues to understand tectonic peculiarities of the circum-Black Sea region?  
**A. A. KITCHKA**
- 14.20 - 14.40 The structural framework of the Andrusov Ridge  
**H. GÜNEY, A. DEMİNER, N. Ö. SİPAHİOĞLU & V. AYDEMİR**
- 14.40 - 15.00 Converted PS-wave velocity structure of post-rift sediments in the eastern Black Sea  
**G. N. MOUKOS, T. A. MINSHULL & R. A. EDWARDS**
- 15.00 - 15.20 Tertiary sedimentary fill of the western Black Sea basin  
**B. APAYDIN, C. T. MENLİKLİ, Ö. SİPAHİOĞLU & V. AYDEMİR**

## İHSAN RUHİ BERENT CONFERENCE HALL

### ENGINEERING GEOLOGY, HYDROGEOLOGY, NATURAL HAZARDS

**Chairs: Reşat Ulusay & Candan Gökçeoğlu**

- 14.00 - 14.20 Investigation of the quality & performance of volcanic armourstones used in the main breakwaters of Samsun, Giresun and Trabzon ports  
**Ö. ACIR & R. KILIÇ**
- 14.20 - 14.40 Sea bed coastal geology at Black Sea  
**C. AKIN, K. KOYUNLU & T. ÖNGÜR**
- 14.40 - 15.00 The importance of the geotechnical studies needed to be done before excavation in tunnels: the example of Konakönü tunnel, Trabzon  
**A. KAYA, F. BULUT & S. ALEMDAĞ**
- 15.00 - 15.30 A general view of flood and landslides along stream beds in the last 80 Years in Trabzon and surrounding area  
**L. ALTINKAYNAK**
- 15.30 - 16.00 Historical landslide inventory of northern Anatolia belt  
**T. ÇAN & T. Y. DUMAN**
-  16.00 - 16.20 TEA BREAK

## SADRETTİN ALPAN CONFERENCE HALL

**15.20 - 15.40** Seismic stratigraphic analysis of Upper Miocene-Recent submarine fan and channel-levee Complexes, and their evolution in a tectonically active setting, eastern Black Sea

**N. Ö. SİPAHIOĞLU & C. MENLİKLİ**

**15.40 - 16.00** Gravity modeling of the Black Sea  
**C. SARI & M. ERGÜN**

 **16.00 - 16.20 TEA BREAK**

**Chairs: Corneliu Dinu & Ergün Gökten**

**16.20 - 16.50** Timing and mechanism of the opening of the Western Black Sea Basin  
**O. TÜYSÜZ**

**16.50 - 17.10** Main features in tectonic structure and evolution of western Black Sea  
**G. GEORGIEV**

**17.10 - 17.20** The geologic evolution of the Romanian Black Sea area during the Oligocene-Pliocene time  
**C. DINU, D. TAMBREA & I. MUNTEANU**

**17.20 - 17.40** Seismic stratigraphic analysis of Oligocene-Recent turbidite systems, Boğaziçi 3D seismic survey area, western Black Sea  
**N. Ö. SİPAHIOĞLU, N. KARAHANOĞLU & D. ALTINER**

**17.40 - 18.00** Miocene paleo-depositional environment of northern Strandja area, western Black Sea Basin  
**S. YILDIZ ÇİFTÇİ, D. ALAYGUT, Ö. KORUCU & Z. BATI**

**POSTER** Tectonic evolution of the Black Sea on the received new seismic materials  
**M. OLSHANETSKIY**

**POSTER** Some question of crustal structure of west Part Black Sea basin and surrounding land  
**S. ADAMIA, P. MINDELI, G. JASHI & V. CHICHINADZE**

## İHSAN RUHİ BERENT CONFERENCE HALL

**Chairs: Reşat Ulusay & Candan Gökçeoğlu**

**16.20 - 16.40** The Characteristics of the landslides in the Artvin dam reservoir and a susceptibility map of the region  
**S. DURMAZ, A. B. YENER & B. M. DEMİR**

**16.40 - 17.00** Assessment of the tsunami-type hazard potential along the Romanian Black Sea coast  
**G. OAIE, M. DIACONESCU & A. SEGHEDI**

**17.00 - 17.20** The classification of the landslide susceptibility zones on both sides of the Bosphorus within the Black Sea watershed  
**D. EKİNCİ, B. SOL & E. AKKÖPRÜ**

**POSTER** Forecast of changes in the engineering-geology conditions of the Black Sea coastal zone in view of protection of geological medium (on the example of Batumi)  
**G. IASHVILI, T. IASHVILI & Z. CHANTLADZE**

**POSTER** Dynamic of the Samsari recent volcanic ridge and Caspian pipelines safety  
**A. OKROSTSVARIDZE, F. PASCUARE, B. TUTBERIDZE & E. KILASONIA**

**POSTER** Assessment of permeability with experimental and numerical analyses at the Atasu Dam Site (Trabzon)  
**S. ALEMDAĞ, Z. GÜROCAK & A. KAYA**

**POSTER** Grain size distribution in beach sediments of the Kızılırmak delta and influencing hydrodynamic factors  
**Ş. KESKİN, M. ERGİN & H. BAYRAKTAR**

### THRACE BASIN

**Chairs: Demir Altiner & Muzaffer Siyako**

**17.20 - 17.40** Sediment paleodispersal pattern and stratigraphic architecture in the Eocene-Oligocene Thrace Basin  
**D'ATRI, G.G. ZUFFA, W. CAVAZZA, A. I. OKAY & G. DI VINCENZO**

## SADRETTİN ALPAN CONFERENCE HALL

**POSTER** The anomalous magnetic and gravitational fields of the Black Sea

**B. UGLOV**

**POSTER** Model of structure and evolution of the Sea of Azov-Black Sea region of Ukraine

**M. PAVLYUK & O. SAVCHAK**

**19.15-21.00** **OPENING COCTAIL**

## İHSAN RUHİ BERENT CONFERENCE HALL

**17.40 - 18.10** Shallow-marine Eocene in Thrace Basin: the appraisal of new paleontologic and biostratigraphic data

**E. ÖZCAN, G. LESS, A. I. OKAY, M. BÁLDI-BEKE, K. KOLLÁNYI, İ. Ö. YILMAZ, S. N. PÁLFALVI & L. FODOR**

**18.10 - 18.30** The analysis of paleoenvironment indications of the Oligocene Osmancik deltaic system on 2D and 3D seismic reflection data, Thrace Basin, Turkey

**M. A. SÜNNETÇİOĞLU, Ö. KORUCU & R.Ö. TEMEL**

**18.30 - 18.50** Two samples for the paratethys facies: West Thrace and East Marmara regions

**G. TANER**

**18.50 - 19.10** Coal explorations studies and new reserves in the Thrace Basin

**İ. ŞENGÜLER**

**POSTER** The Late Miocene-Quaternary paleontology, stratigraphy and paratethys facies of the Dardanelles


**G. TANER**

## SADRETTİN ALPAN CONFERENCE HALL

### PETROLEUM GEOLOGY OF THE BLACK SEA

**Chairs: Mehmet Özkanlı & Ali Demirer**

- 09.00 - 09.20** Hydrocarbon exploration in the Turkish sector of the Black Sea  
**V. AYDEMİR**
- 09.20 - 09.40** Hydrocarbon exploration/exploitation wells drilled in the Turkish Black Sea  
**L. KÖRPE**
- 09.40 - 10.00** Western Black Sea basin petroleum systems and play concepts  
**C. T. MENLİKLİ, H. İSPİR, B. APAYDIN & E. BENGÜ**
- 10.20 - 10.40** Assessment of hydrocarbon systems and exploration opportunities in western Black Sea  
**G. GEORGIEV**

 **10.40 - 11.00 TEA BREAK**

**Chairs: George Georgiev & Vedat Aydemir**

- 11.00 - 11.20** Mid-Black Sea High and associated play concepts  
**A. DEMİRER, N. Ö. SİPAHİOĞLU, H. GÜNEY, B. BOZKAYA & V. AYDEMİR**
- 11.20 - 11.40** Rift sequences of the western Black Sea Basin as defined by offshore seismic data and their importance with respect to basin evolution  
**C. T. MENLİKLİ, L. KÖRPE & V. AYDEMİR**
- 11.40 - 12.00** Tectono-stratigraphic characteristics of the Eocene clastic section of Sinop area, middle Black Sea Region  
**S. YILDIZ ÇİFTÇİ, H. ŞEKER, D. ALAYGUT & R. ÖZKAN**
- 12.00 - 12.20** Middle Eocene aged source rock evidence from Black Sea, Turkey; BSP14-biozone  
**V. AYDEMİR, Y. İZTAN, S. SHIKHLINSKY, Z. BATI & A. GÜRGEY**
- 12.20 - 12.40** Eastern Black Sea Basin and associated play concepts  
**A. DEMİRER, H. GÜNEY, N. Ö. SİPAHİOĞLU, B. BOZKAYA & T. KAPLAN**
- 12.40 - 14.00 LUNCH**

## İHSAN RUHİ BERENT CONFERENCE HALL

### CARBONIFEROUS TO TERTIARY MAGMATISM: CAUCASUS - PONTIDES

**Chairs: Orhan Karslı & Mehmet Arslan**

- 09.00 - 09.20** Petrographic, geochemical and isotopic evidence of magma mixing in the Hercynian Köse Composite Pluton, NE Turkey  
**A. DOKUZ**
- 09.20 - 09.40** Petrography, petrology and tectonic implications of the Jurassic magmatic rocks from Amasya and Bolu provinces (Sakarya Zone, Turkey)  
**Ş. C. GENÇ & O. TÜYSÜZ**
- 09.40 - 10.20** Petrogenesis of the Late Cretaceous Demirköy igneous complex in the NW Turkey: implications for magma genesis in the Strandja Zone  
**Z. KARACIK & O. TÜYSÜZ**
- 10.20 - 10.50** Upper Cretaceous magmatic evolution and related Cu-Au mineralization in Bulgaria and Serbia: constraints from geochemistry and geochronology  
**A. VON QUADT, C. A. HEINRICH & I. PEYTCHEVA**
- 10.50 - 11.10** On- and offshore Pre-Cretaceous magmatism of the south-western Crimea: Geodynamical conditions of formation on the basis of petrogeochemical features of the rocks  
**K.P. SHNIUKOV**
-  **11.10 - 11.30 TEA BREAK**
- Chairs: A.Von Quadt & Zekiye Karacik**
- 11.30 - 12.00** Genesis of the Late Cretaceous volcanism in western Pontides  
**M. KESKİN, T. USTAÖMER & M. YENİYOL**



## SADRETTİN ALPAN CONFERENCE HALL

**Chairs: Alexander Kitchka & Cem Menlikli**

- 14.00 - 14.20** 3D magnetic modelling of the Earth's crust for hydrocarbon exploration in the Azov-Black Sea region  
**M. ORLIUK, I. PASHKEVICH & T. LEBED**
- 14.20 - 14.40** Understanding of the Crimean neotectonic complexes reveals hydrocarbon prospects offshore Ukraine  
**V. V. YUDIN & A. A. KITCHKA**
- 14.40 - 15.00** Pinch Outs-North Anatolian Fault relationships in northern Akcakoca area(offshore): implications on hydrocarbon exploration; Western Black Sea  
**B. COŞKUN**
- POSTER** Stratigraphical model of Cenozoic of the Black Sea gas and oil-bearing province of Ukraine  
**P. F GOZHİK., N.V. MASLUN, M.M. IVANİK O.M. IVANİK & G.V. KLIUSHYNA**
- POSTER** Petroleum geology of the Ukrainian part of the Black Sea  
**O. KHRIACHTCHEVSKAIA, S. STOVBA & I. POPADYUK**
- POSTER** Oil-gas potential of Black Sea region  
**H. REMPEL & G. GEORGIEV**
- POSTER** Geodynamic features of structure formation and development in connection with their oil and gas content  
**M. VAKHIN**
- POSTER** Geological thermo-atmogeochemical prospecting for oil and gas within the Western Black Sea continental slope  
**P.F GOZHİK., I.D. BAGRIY, T.O. ZNAMENSKA, N.V. MASLUN, V.P. KLOCHKO, S.D. AKSIOM & A.A. KITCHKA**
- POSTER** On the inexhaustibility of oil and gas resources of the Black Sea region  
**V. I. SOZANSKY**
- POSTER** Fault tectonics of the consolidated crust on the NW shelf of the Black Sea and its relevance to hydrocarbon potential  
**I. PASHKEVICH, I. MAKARENKO, O. RUSAKOV, R. KUTAS, V. STAROSTENKO & O. LEGOSTAeva**

## İHSAN RUHİ BERENT CONFERENCE HALL

- 12.00 - 12.30** Timing of magmatic episodes in the composite Kaçkar batholith, eastern Pontides, Turkey  
**D. BOZTUĞ**
- 12.30 - 14.00** LUNCH
- Chairs: Mehmet Keskin & Nizamettin Kazancı**
- 14.00 - 14.30** Petrochemistry, 40Ar-39Ar geochronology and Sr-Pb isotope geochemistry of the Tertiary volcanics in Eastern Pontide southern Zone, NE Turkey: Geodynamic evolution related to slab break-off and transtensional tectonics  
**M. ARSLAN, İ. TEMİZEL**
- 14.30 - 14.50** Genesis and geodynamic setting of the Middle Eocene volcanic units in North-Central Turkey  
**M. KESKİN, Ş. C. GENÇ & O. TÜYSÜZ**
- 14.50 - 15.10** Relative contributions of crust and mantle to generation of high-K calc-alkaline I-type granitoids in a subduction setting, Harşit Pluton, NE Turkey  
**O. KARSLI**
- 15.10 - 15.30** Geodynamics of late Cenozoic syn- and post-collisional magmatism of the Black Sea – Caspian Sea region.  
**N. SADRADZE & Sh. ADAMIA**
- 15.30 - 16.00** Generation of the early Cenozoic adakitic volcanism by partial melting of mafic lower crust, NE Turkey: implications for crustal thickening to delamination  
**O. KARSLI, A. DOKUZ, İ. UYSAL, F. AYDIN, R. KANDEMİR & J. WIJBRANS**
-  **16.00 - 16.20** TEA BREAK
- 16.20 - 16.40** Late Cenozoic volcanism of the central part of Caucasian segment: geology and geodynamics  
**B. TUTBERIDZE**

## SADRETTİN ALPAN CONFERENCE HALL

### PALEOMAGNETISM

**15.00 - 15.30** Paleomagnetism of conjugate margins of the Black Sea basin: Constrains for timing and kinematics of the basin formation and its subsequent evolution, Ukraine-Turkey.  
**N. ORBAY**, S. KRAVCHENKO, Z.M. HISARLI, T. USTAÖMER, M.O. RUSAKOV, M.C. ÇİNKU, N. SAYIN & O. ZAICHUK

**15.30 - 16.00** Jurassic-Cretaceous evolution of the Circum-Black Sea region: Paleomagnetic Studies in the Pontides (Turkey) and Crimea (Ukraine) combined with new radiometric ages from Crimea  
**M. J. M. MEIJERS**, N. KAYMAKÇI, D. J. J. VAN HINSBERGEN, A. SAINTOT, J. R. WIJBRANS, R. A. STEPHENSON & C. G. LANGEREIS

 **16.00 - 16.20** TEA BREAK

### DOBRUGEA - UKRAINE - CRIMEA - GREATER CAUCASUS: STRATIGRAPHY AND TECTONICS

*Chairs: Shota Adamia & Ahmet Sami Derman*

**16.20 - 16.50** Mesozoic to Cenozoic geological history and hydrocarbon potential of the Eastern Black Sea-Caucasus-Crimea region  
**A. NIKISHIN**

**16.50 - 17.20** On the tectonic history of the Late Palaeozoic Dniepr-Donets basin (Ukraine-Russia) and its implications for the formation of the Black Sea  
**R. STEPHENSON**

**17.20 - 17.50** Paleozoic terrane accretion and Mesozoic evolution of the NW margin of the Black Sea  
**A. SEGHEDI**

**17.50 - 18.10** Early-Middle Paleozoic ocean along the southern margin of the East European Platform: Ophiolite suture zones of the northern Balkanides and the Great Caucasus  
**G. S. ZAKARIADZE**, S. KARAMATA, A. A. ARISKIN, S. A. SERGEEV & N. V. SOLOV'eva

**18.10 - 18.30** Main Caucasian Fault nature  
**M. L. SOMIN**

## İHSAN RUHİ BERENT CONFERENCE HALL

**POSTER** Petrology and U/Pb geochronology of Gökseki meta-trondjhemite (Ağvanis metamorphics), E. Pontides: Early Lutetian magmatism and subsequent metamorphism and deformation  
**Y. ÖZGÜLÜK**, T. USTAÖMER, P. A. USTAÖMER & A. GERDES

**POSTER** Late Jurassic volcanism in Eastern Pontides (Gümüşhane, Turkey)  
**A. DOKUZ**, R. KANDEMİR, A. S. DERMAN, O. KARSLI & R. AKDOĞAN

**POSTER** Geochemical and Sr-Nd-Pb isotopic characteristics of the Late Cretaceous to Early Paleocene arc-related granitoids in the Eastern Pontides, NE Turkey  
**A. KAYGUSUZ**, N. İLBEYLİ, W. SIEBEL, M. ARSLAN, M. SATIR & C. ŞEN

**POSTER** Petrological-geodynamic development and evolution of Eocene volcanism of the Lesser Caucasus Shakhdag trough (Azerbaijan)  
**T.G. AKHMEDOBA**

**POSTER** Preliminary evaluations of the petrographic and geochemical features of Tertiary volcanic rocks from the Borçka area (Artvin, NE Turkey)  
**E. AYDINÇAKIR** & C. ŞEN


**POSTER** Mineralogical-petrographical and volcanic facies characteristics of Tertiary volcanics between Trabzon and Giresun, Eastern Pontide northern Zone, NE Turkey  
**C. YÜCEL**, M. ARSLAN, İ. TEMİZEL & E. ABDİOĞLU

## SADRETTİN ALPAN CONFERENCE HALL

### DOBRUGEA - UKRAINE - CRIMEA - GREATER CAUCASUS: STRATIGRAPHY AND TECTONICS CONT.

*Chairs: Alastair Robertson & Timur Ustaömer*

- 09.00 - 09.30** Geology of crystalline basement of the Greater Caucasus: new data  
**M. L. SOMIN**
- 09.30 - 10.00** New age data from the Dzirula Massif, Georgia: implications for Variscan evolution of the Caucasus  
**P. J. TRELOAR, F. MAYRINGER, F. FINGER, A. GERDES & D. SHENGALIA**
- 10.00 - 10.30** Triassic - Jurassic syn-kinematic evolution of the Crimean mountains: Mechanisms of basin opening and inversion in relationship with an early evolution of a restricted oceanic embayment  
**L. MATEMCO, R. STEPHENSON, J. van OTTERLOO, R. OLDENHUIS, B. VROUWE, I. POPADIUK, S. STOVBA & M. MEIJERS**
- 10.30 - 10.50** Late Jurassic reefs from the Russian western Caucasus and Crimea: analogues for the East Black Sea  
**L. GUO, S. J. VINCENT, S. P. RICE & V. LAVRISHCHEV**

 **10.50 - 11.10 TEA BREAK**

*Chairs: Peter Treloar & Ali Yilmaz*


- 11.10 - 11.40** The Caucasus: an example of Late Cenozoic continent-continent Collision  
**Sh. ADAMIA, G. ZAKARIADZE, N. SADRADZE & N. TSERETELI**
- 11.40 - 12.20** Evidence for the Oligocene uplift of the Western Greater Caucasus: Implications for reservoir-quality prediction in the Eastern Black Sea and the timing of initial Arabia-Eurasia collision  
**S. J. VINCENT, A. C. MORTON, A. CARTER, S. GIBBS, V. LAVRICHSEV & T. G. BARABADZE**

## İHSAN RUHİ BERENT CONFERENCE HALL

### NEOTECTONICS

*Chairs: Ömer Emre & Ş.Can Genç*

- 09.00 - 09.30** Uplift of Pontide orogenic belt since the Late Miocene  
**Ö. EMRE, O. TÜYSÜZ & C. YILDIRIM**
- 09.30 - 09.50** Thermochronological evidence for a precursor of the North Anatolian Fault in the Marmara Sea region  
**M. ZATTIN, W. CAVAZZA, A. I. OKAY, I. FEDERICI, M. G. FELLIN, A. PIGNALOSA & P. REINERS**
- 09.50 - 10.10** Mass movement offshore Amasra (SW Black Sea) associated with repeated slip on Bartın Fault: A multi-channel seismic reflection study  
**İ. KUŞÇU, J. R. PARKE, R. S. WHITE, D. MCKENZIE, G. A. ANDERSON, T. A. MINSHULL, B. ECEVİTOĞLU & K. SARIKAVAK**
- 10.10 - 10.30** Total offset, slip-rate, and age of the North Anatolian fault system between Bayramören-Akyazı  
**E. HERECE & E. GÖKTEN**
- 10.30 - 10.50** Active tectonics of Georgia (SW Caucasus).  
**N. TSERETELI, Sh. ADAMIA, A. BARTH, O. VARAZANASHVILI & A. GVENTSADZE**

 **10.50 - 11.10 TEA BREAK**

### MINERAL DEPOSITS AND GEOCHEMISTRY

*Chairs: Cahit Helvacı & İsmet Cengiz*

- 11.00 - 11.20** Ore facies of volcanic massive sulfide deposits in Pontids.  
**V. V. MASLENNIKOV, V. V. ZAYKOV, T. MONECKE, R.R. LARGE, L. DANYUSHEVSKIY, S.P. MASLENNIKOVA, R. ALLEN, N. ÇAĞATAY & M. K. REVAN**
- 11.20 - 11.40** Stratigraphy of the northern part of the Eastern Pontides  
**İ. KURT**

## SADRETTİN ALPAN CONFERENCE HALL

12.20 - 12.40 Relics of Prototethyan and Paleotethyan oceanic lithosphere in the Caucasus  
**G. ZAKARIADZE**, T. CHKHOTUA, Sh. ADAMIA, I. SHAVISHVILI & Z. KUTELIA

12.40 - 14.00 LUNCH

### LESSER CAUCASUS - SAKARYA (INC. EASTERN PONTIDES): STRATIGRAPHY AND TECTONICS


*Chairs: Okan Tüysüz & Guram Zakariadze*

14.00 - 14.30 Stratigraphic and tectonic correlation of the Eastern Pontides and Lesser Caucasus  
**A. YILMAZ**, S. ADAMIA & H. YILMAZ

14.30 - 15.00 New insights on the tectonic and geodynamic evolutions of the Lesser Caucasus (Armenia, Azerbaijan, Georgia)  
**M. SOSSON**, Y. ROLLAND, C. MILLER, T. DANELIAN, R. MELKONYAN, Sh. ADAMIA, T. KANGARLI, A. AVAGYAN, G. GALOYAN & J. MOSAR

15.00 - 15.30 Pontides: three terranes gathered together in Cretaceous  
**A. I. OKAY**

15.30 - 16.00 Geology of the easternmost part of Pontides  
**N. KONAK** & H. Y. HAKYEMEZ

 16.00 - 16.20 TEA BREAK

*Chairs: Boris Natalin & Bora Rojaj*

16.20 - 16.40 Hercynian high-T low-P metamorphism and magmatism in the Eastern Pontides, NE Turkey  
**G. TOPUZ** & A.I. OKAY

## İHSAN RUHİ BERENT CONFERENCE HALL

11.40 - 12.10 Geochemical and mineralogical characteristics of the wall rocks of the Midi Zn–Pb deposit, SE Pontides, Gümüşhane, Turkey  
**A. LERMİ** & N. TÜYSÜZ

12.10 - 12.30 A first example of Mississippi Valley type (VMT) lead-zinc deposits in the southern part of the Eastern Pontides: Ulubağ Mineralization (Uzundere - Erzurum, NE Turkey)  
**S. ÖZKÜMÜŞ**, Y. GENÇ, İ. CENGİZ & M. ASLAN

12.30 - 14.00 LUNCH

*Chairs: Valeriy Maslennikov & Yurdal Genç*

14.00 - 14.20 Geology and Mineralisation of the Murgul Cu Mine, Northeastern Turkey  
**B. YILDIZ**, O. KURTULUŞ, B. ÇİFTÇİ & S. MURATLI

14.20 - 14.40 Ore Mineralogy, Cu-S-Pb Isotope- and Base-Precious Metal Geochemistry of the Eastern Pontides Volcanogenic Massive Sulfide Deposits (VMS)  
**E. ÇİFTÇİ**, B. YALÇINALP & T. B. HOUSH

14.40 - 15.00 Ore mineralogy and Cu-, S-, and Pb isotope compositions of cuprous Pb-Zn type vein mineralizations occurring in the Eastern Pontides: preliminary findings  
**E. ÇİFTÇİ**, B. YALÇINALP, N. HANILCI & T.B. HOUSH

15.00 - 15.20 An example for resedimented ore mineralization from NE Turkey: Yaylabaşı Tepe Occurrence (Oltu - Erzurum)  
**İ. CENGİZ**, M. ASLAN, S. ÖZKÜMÜŞ, Z. ŞAHİN, Y. GENÇ & N. KONAK

15.20 - 15.40 Natural Potential Sources for Mercury Pollutions in Bulgaria  
**O. VITOV** & **I. MARINOVA**

15.40 - 16.00 Metallogenic importance of the Oltu Tectonic Zone (southern part of the NE Pontides)  
**İ. CENGİZ**, M. ASLAN, S. ÖZKÜMÜŞ, Z. ŞAHİN, Y. GENÇ, Y. HAKYEMEZ & N. KONAK

 16.00 - 16.20 TEA BREAK

## SADRETTİN ALPAN CONFERENCE HALL

- 16.40 - 17.10** Late Palaeozoic-Early Cenozoic tectonic development of the Eastern Pontides, (Artvin area): stages of closure of Tethys along the southern margin of Eurasia  
**T. USTAÖMER & A. H.F. ROBERTSON**
- 17.10 - 17.30** Geology of the western part of the Tokat Massif around Amasya and Çorum  
**O. TÜYSÜZ**
- 17.30 - 17.50** Tectonostratigraphic evolution of the central sector of the Eastern Pontides, Northern Turkey.  
**B. ROJAY & E. ÖZSAYIN**
- 17.50 - 18.10** Thermochronological evolution of the Karakaya Complex from the Biga Peninsula to the Tokat Massif  
**I. FEDERICI, W. CAVAZZA, A.I. OKAY & M. ZATTIN**
- 18.10 - 18.30** Tectono-stratigraphic units of the eastern Black Sea region  
**M. F. UĞUZ, H. DEMİRBAĞ, Ö. EVCİMEN, V. TUNÇDEMİR, L. DUYGU, Y. ERDEM & G. ATICI**
- 18.30 - 18.50** Stratigraphy of the northern part of the Eastern Pontides  
**İ. KURT, Ş. KARSLI, M. ÖZKAN & T. ÇOLAK**

## İHSAN RUHİ BERENT CONFERENCE HALL

**Chairs: Taner Ünlü & Necati Tüysüz**

- 16.20 - 16.40** Influence of the gravity sliding to the VMS deposits in the Eastern Pontides  
**B. YILDIZ & N. TÜYSÜZ**
- 16.40 - 17.00** About mineralogical-geochemical peculiarities of copper-porphyrific ores in the Garadagh-Kharkhar ore field (Lesser Caucasus, Azerbaijan)  
**J. A. AZADALIYEV & E. B. GUSEYNOVA**
- 17.00 - 17.20** The geology of the volcanic-associated polymetallic (Zn, Cu, Ag and Au) Selbaie deposits, Abitibi, Quebec, Canada  
**M. F. TANER**
- POSTER** The Sakeni ore field (Greater Caucasus) - geological evidence and fluid regime of formation  
**A. OKROSTSVARIDZE, D. BLUASHVILI & E. KILASONIA**
- POSTER** Metallogeny and sources of non-ferrous and rare metals in the various geodynamic settings exemplified by the Caucasus and Pontides Phanerozoic evolution  
**V. GUGUSHVILI, T. BERIDZE, T. CHKHOTUA, N. KHUTSISHVILI, N. POPKHADZE & G. TSIMAKURIDZE**
- POSTER** About history of the discovery of copper-porphyrific ores in the Gedabei ore region (Lesser Caucasus, Azerbaijan)  
**E. B. GUSEYNOVA**
- POSTER** About tectonic-magmatic factors, determining the formation of the Garadagh-Kharkhar ore field of copper-porphyrific ores (The Gedabei ore region of the lesser Caucasus, Azerbaijan)  
**E. B. GUSEYNOVA**

## SADRETTİN ALPAN CONFERENCE HALL

### LESSER CAUCASUS - SAKARYA (INC. EASTERN PONTIDES): STRATIGRAPHY AND TECTONICS - CONT.

**Chairs: Anatoly Nikishin & Osman Parlak**

09.00 - 09.20

Middle Devonian blueschist-facies metamorphism in the Eastern Pontides, NE Turkey: Vesitiges of the Rheic ocean?

**G. TOPUZ, R. ALTHERR, W. SCHWARZ, T. ZACK & G. SUNAL**

09.20 - 09.50

Tectonic development of the southern margin of the Black Sea in the Eastern and Central Pontides, Turkey: Framework for opening of the eastern Black Sea Basin

**A. H.F. ROBERTSON & T. USTAÖMER**

09.50 - 10.10

Outcrop observations from the Pontides: Their importance for predicting reservoir facies in the Black Sea in a sequence stratigraphic context.

**A. MESSER, A. I. OKAY, M. SIMMONS & J. WYTON**

10.10 - 10.40

Ophiolites and metamorphic rocks along the Lesser Caucasus transect (Georgia, Armenia, Turkey): insi

**Y. ROLLAND, M. SOSSON, C. MULLER, G. GALOYAN, A. AVAGYAN, R. MELKONYAN, S. ADAMIA, D. PERİNÇEK, N. KAYMAKÇI & E. BARRIER**

10.40 - 11.00

Geochemistry and tectonic significance of ophiolites along the Ankara-Erzincan suture zone in northeastern Anatolia

**O. PARLAK, A. ÇOLAKOĞLU, C. DÖNMEZ, A. TÜRKEL, N. YILDIRIM, İ. ODABAŞI & N. KONAK**



11.00 - 11.20 TEA BREAK

**Chairs: Mark Sosson & Gültekin Topuz**

11.20 - 11.40

Petrology and geochemistry of Early Jurassic sandstones, Eastern Pontides

**R. KANDEMİR, A. DOKUZ, O. KARSLI & C. YILMAZ**

## İHSAN RUHİ BERENT CONFERENCE HALL

POSTER

The staging of chromite-formation in ophiolites of the Lesser Caucasus

**Y. N. LATIFOVA**

POSTER

Patterns of formation and localization of kaolonic – fire clays of Azerbaijan

**I. J. ALIYEV, V. R. ZOKHRABOVA & E. N. EFENDIYEVA**

## SADRETTİN ALPAN CONFERENCE HALL

**11.40 - 12.00** Cretaceous red beds and black shales: Collaboration of tectonic and paleoceanographic changes, NW Turkey  
**İ.O. YILMAZ, D. ALTINER, O. TÜYSÜZ, U.K. TEKİN, F. OCAKOĞLU & S. AÇIKALIN4.**

**12.00 - 12.20** Campanian-Maastrichtian carbonate platform (southern zone of the Pontides): Model of depositional environments, palaeogeography and palaeotectonic significance

**S. ÖZER, B. SARI, R. KANDEMİR, M. GÖRMÜŞ & C. YILMAZ**

**12.20 - 12.40** Upper Campanian limestone turbidite sequences from Hacımehmet village (south of Trabzon, Eastern Pontides, Turkey): Biostratigraphy, age revision, microfacies analysis

**B. SARI, R. KANDEMİR, S. ÖZER, M. GÖRMÜŞ, G. LÓPEZ, R. ARTÍNEZ, C. YILMAZ & H. DEMİRCAN**

**12.40 - 14.00 LUNCH**

**Chairs: M.Cemal Göncüoğlu & Cemil Yılmaz**

**14.00 - 14.20** Structural and stratigraphic properties of Ovacık-Olur zone in Aşkale-İspir region  
**N. AKDENİZ & E. TİMUR**

**14.20 - 14.40** Different evolutionary histories of two basins during the last stage of closure of Tethys ocean along the southern margin of Pontides between Erzurum and Artvin, Turkey

**H. Y. HAKYEMEZ & N. KONAK**

**14.40 - 15.00** Formation of Oltu imbricated zone and geologic records of closure of Tethys ocean, Erzurum

**N. KONAK & H. Y. HAKYEMEZ**

### STRANDJA MASSIF - BALKANS

**15.00 - 15.30** Mesozoic Euxinian Tethys: Evidence from the Western Black Sea coast

**I. S. ZAGORCHEV & P. V. TCHOUMATCHENCO**

## İHSAN RUHİ BERENT CONFERENCE HALL

### QUATERNARY GEOLOGY, PALEOCLIMATOLOGY

**Chairs: Naki Akçar & Halim Mutlu**

**09.00 - 09.30** Chronology of the Quaternary glaciations of the southern Black Sea coast and paleoclimatic interpretations

**N. AKÇAR, V. YAVUZ, S. IVY-OCHS, C. ZAHNO, M. CHRISTL, P. KUBIK & C. SCHLÜCHTER**

**09.30 - 10.00** History of the Black Sea recorded in speleothems from Western Turkey

**D. FLEITMANN, S. BADERTSCHER, H. CHENG, R.L. EDWARDS, M. MUDELSEE, O.M. GÖKTÜRK, A. FANKHAUSER, R. PICKERING, C.C. RAIBLE, A. MATTER, J. KRAMERS & O. TÜYSÜZ**

**10.00 - 10.20** The last 200-Year variations in carbon and oxygen isotope ratios in Black pine tree-rings around the Bolu area

**H. MUTLU, Ü. AKKEMİK, N. KÖSE, D. ARAL, A. KAYA, N. DALFES, S. W. MANNING & C. L. PEARSON**

**10.20 - 10.40** The role of air-sea interaction in the precipitation variability of the southern Black Sea coast

**O. M. GÖKTÜRK & N. AKÇAR**



**11.00 - 11.20 TEA BREAK**

### MARINE GEOLOGY AND GEOPHYSICS

**Chairs: Namık Çağatay & Yanko-Hombach**

**11.20 - 11.50** A Review of the Black Sea paleoceanography from last Glacial to the Modern Era

**W. B. F. RYAN**

## SADRETTİN ALPAN CONFERENCE HALL

**15.30 - 16.00** Tectonics of the Strandja Massif: Example of the collision after long-lived arc-parallel tectonic transport  
**B. A. NATAL'IN, G. SUNAL & E. TORAMAN**

 **16.00 - 16.20 TEA BREAK**

## ISTANBUL ZONE & OTHER AVALONIA-TYPE TERRANES IN THE BALKANS

**Chairs: U. Kağan Tekin & Ercan Özcan**

**16.20 - 16.40** Investigation of crustal structure along Zonguldak-Akşehir transect with magnetotellurics method  
**M. E. CANDANSAYAR, C. KAYA, N. KONAK, A.R. KILIÇ, Ü. DİKMEN, İ. DEMİRCİ, E. ERDOĞAN, Ö. ÖZYILDIRIM, Ö. HACISALİHOĞLU, A. ADIGÜZEL, S. BOSTAN, U. AKIN, S. ARSLAN, A. GÜRER, A. ÜÇER, Y.K. KADIOĞLU, H. YILMAZ, A.T. BAŞOKUR & H. OKAY**

**16.40 - 17.10** Palaeozoic to Lower Tertiary stratigraphy of the Istanbul region  
**N. ÖZGÜL**

**17.10 - 17.40** Paleozoic of the Istanbul and Zonguldak terranes  
**M. C. GÖNCÜOĞLU**

**17.40 - 18.00** Correlation of Upper Paleozoic sequences of NE Bulgaria and the Istanbul Zone, Turkey  
**J. JORDANOV, A. I. OKAY, G. DIMOV & D. MERACHEV**

**18.00 - 18.20** Correlation of Early Silurian graptolitic Shales in NW Anatolia and the E European terranes  
**V. SACHANSKI & M. C. GÖNCÜOĞLU**

**POSTER** An unforgettable model study: The Turkish-Georgian international multidisciplinary geological project  
**A. YILMAZ, Sh. ADAMIA, T. ENGİN, T. LAZARASHVILI, İ. KURT, M. ÖZKAN, E. TSERETELİ, V. GUGUSHVILI & H. YILMAZ**

## İHSAN RUHİ BERENT CONFERENCE HALL

**11.50 - 12.10** IGCP 521-INQUA 0501 project "Caspian-Black Sea-Mediterranean Corridor during the last 30 ky: Sea-level change and human adaptation": An Overview  
**V. YANKO - HOMBACH & Y. YILMAZ**

**12.10 - 12.30** The strait of Bosphorus during the past 20.000 Years  
**A. PREISINGER, S. ASLANIAN, R. BEIGELBECK, W. D. HEINITZ & J. WERNISCH**

**12.30 - 14.00 LUNCH BREAK**

**Chairs: William Ryan & İsmail Kuşçu**

**14.00 - 14.20** Was the Black Sea really flooded?  
**DOLUKHANOV**

**14.20 - 14.40** Ancient coastlines of the Black Sea and conditions for human presence  
**D. DIMITROV, K. SLAVOVA & P. DIMITROV**

**14.40 - 15.00** Seismic stratigraphy of Quaternary Sediments on the western Black Sea Shelf  
**L. DIMITROV & V. DONCHEVA**

**15.00 - 15.20** Response of biota to methane emissions in the Black Sea  
**V. YANKO - HOMBACH, A. KRAVCHUK, I. KULAKOVA, O.G. LIKHODEDOVA & S. P. KOVALISHINA**

**15.20 - 15.40** Gas-saturated shallow sediments in the Black Sea and geohazard effects  
**M. ERGÜN, G. ÇİFÇİ & D. DONDURUR**

**15.40 - 16.00** Scientific observations and the work reports from R/V METEOR (IFM-GEOMAR) expedition in the Black Sea Cruise M72/4-2007  
**J. BIALAS, I. KLAUKE, M. TOKER and Scientific crew of R/V METEOR cruise**

 **16.00 - 16.20 TEA BREAK**



## SADRETTİN ALPAN CONFERENCE HALL

- POSTER** Position of the territory of Georgia during Late Paleozoic-Mesozoic  
**Z. LEBANIDZE**, K. KOIAYA, TS. SVANIDZE, SH. ADAMIA & B. ASANIDZE
- POSTER** Borjomi-Kazbegi strike-slip fault: does it exist?  
**Sh. ADAMIA**, E. BOMBOLAKIS, R. MARTIN, T. O'CONNOR, E. SZYMANSKY, N. TSERETELI & N. LURSMANASHVILI
- POSTER** The kinematic evolution of Kura foreland fold and thrust belt, Eastern Georgia (Georgia)  
**V. ALANIA**, M. BUKHSIANIDZE, A. CHABUKIANI, R. CHAGELISHVILI, O. ENUKIDZE, V. B. GLONTI & S. TSERTSVADZE
- POSTER** The Step of development of plankton foraminifers and zonal distribution of Paleogene deposits in Gobustan - western part of Absheron (Azerbaijan)  
**Kh. A. ALLAKHVERDIYEVA**
- POSTER** Paleontologic characteristics of the Productive Series in the Gyrmaki Valley (Absheron Peninsula)  
**E. ATAYEVA** & B. GULIYEVA
- POSTER** Terms of the formation of opokas and diatomites in Eocene-Miocene deposits in the Absheron and Gobustan regions of Azerbaijan  
**V. R. ZOKHRABOVA**, E. N. EFENDIYEVA & I. J. ALIYEV
- POSTER** The role of morphotype groups of planktonic foraminifera in palaeobathymetry of the Gurpi Formation in Lar area (Kuh - e - kurdeh section), IRAN  
**A. MANDANIZADEH** & **S. A. MEYSAM**
- POSTER** Combination of acoustic waves and fossil records in identification of lithological variation of Sarvak Formation in Hendijan field located in Persian Gulf  
**S. A. MEYSAM** & M. EMAN
- POSTER** Biostratigraphy of the Ruteh Formation (Permian) at Harijan section using foraminifera  
**H. BAHADIN**<sup>1</sup>, K. EBRAHIM, S. ABAS & **S. A. MEYSAM**

## İHSAN RUHİ BERENT CONFERENCE HALL

### Chairs: Anton Preisinger & Mustafa Ergün

- 16.20 - 16.40** Non-traditional resources from Black sea bottom and their possibilities to use as complex raw material  
**D. DIMITROV**, Y. SHNUKOV & P. DIMITROV
- 16.40 - 17.00** A comparison between recent sea sediments and their source rocks of Tertiary volcanic rocks in Trabzon-Akçaabat area  
**T. BAK**, G. REİSOĞLU & **C. ŞEN**
- POSTER** Holocene paleoenvironmental changes in the NW Black Sea  
**M.C. MELINTE** & G. OAIE
- POSTER** Recent environmental changes recorded in sediments from the western part of the Black Sea  
**A. TUDRYN**, C. STRECHIE-SLIWINSKI, P. TUCHOLKA, F. GUICHARD, M. FONTUGNE, G. LERICOLAIS, N. PANIN & C. COLIN
- POSTER** The formation of the sublacustrine river valley in the shelf zone of the Black Sea parallel to the Bulgarian coast  
**A. PREISINGER**, S. ASLANIAN, R. BEIGELBECK & W.-D. HEINITZ
- POSTER** Ağva beach's (Şile) coastal evolution standpoint  
**Ç. COŞKUN**
- POSTER** Coastal evolution of Ağva beach (Şile)  
**Ç. COŞKUN**
- POSTER** Gas seepage and mud volcanism of the northern Black Sea  
**E. F. SHNYKOV**, V. I. STAROSTENKO & **V. P. KOBOLEV**

## SADRETTİN ALPAN CONFERENCE HALL

- POSTER** Geological paleoceanography of forming of the Cretaceous sedimentary cover of the Black Sea segment of Tethyan Basin  
*M. PAVLYUK, Y. SENKOVSKY, K. GRIGORCHUK, V. GNIDETS & Y. KOLTUN*
- POSTER** Benthic foraminiferal assemblages and microfacies of K/T transition in the shallow marine carbonate successions in the Eastern Pontides  
*N. İNAN*
- POSTER** Evolution of reefs in the Kireçhane formation and in the Çalköy member, Eastern Black Sea Region (SW Trabzon)  
*M. BAYKAL, Y. ERDEM & M. F. UĞUZ*
- POSTER** First record of a Trilobita in the Permo-Carboniferous rocks of Eastern Pontides  
*R. KANDEMİR, R. LEROSEY-AUBRIL, Ş. ÇAPKINOĞLU & G. GÖKKAYA*
- POSTER** The Microfacies properties and depositional conditions of Alibaba Formation (Middle Eocene) (NW Bayburt)  
*N. KILIÇ, C. YILMAZ & R. KANDEMİR*
- POSTER** The Mid-Cretaceous sedimentary prism in the Gümüşhane (NE Türkiye)  
*N. KILIÇ, R. KANDEMİR, G. GÖKKAYA, S. GÜNER & C. YILMAZ*
- POSTER** Lithostratigraphic subdivision of the Paleozoic sedimentary and metasedimentary rocks in the Kraishite region: a review  
*V. SACHANSKI*

## İHSAN RUHİ BERENT CONFERENCE HALL

- POSTER** Geomorphologic evidence for tectonic activity in the Black Sea  
*D. EKİNCİ, B. SOL & E. AKKÖPRÜ*
- POSTER** Genesis of the columnar joints in volcanites in the Lesser Caucasus  
*H. T. HAGVERDIYEV*
- POSTER** A new geodynamic model for formation and evolution of the Earth crust deep faults  
*H. T. HAGVERDIYEV*
- POSTER** New geodynamic model of the Earth crust evolution  
*H. T. HAGVERDIYEV*

## SADRETTİN ALPAN CONFERENCE HALL

### ISTANBUL ZONE & OTHER AVALONIA-TYPE TERRANES IN THE BALKANS - CONT.

*Chairs: William Cavazza & H.Yavuz Hakyemez*

**09.00 - 09.20** Detrital zircon ages from Lower Ordovician quartzites of the İstanbul exotic terrane (NW Turkey): Evidence for Amazonian affinity

**P. A. USTAÖMER, T. USTAÖMER, A. GERDES & G. ZULAUF**

**09.20 - 09.40** Provenance of the Carboniferous flysch of the İstanbul Zone: detrital zircon ages and sandstone petrography

**N. OKAY, T. ZACK & A. I. OKAY**

**09.40 - 10.00** Early Carboniferous K-Bentonite formation around Bartın: Geological implications

**A. G. TÜRKMEÑOĞLU, M.C. GÖNCÜOĞLU & Ş. BAYRAKTAROĞLU**

**10.00 - 10.20** A study of Velibey quartz sandstone field (Kumtarla Village-Zonguldak) at cliffs of Visean Yılanlı Formation

**O. PULAT, M. PEHLEVAN, İ. BUZKAN, H. AĞRILI & M. ÇİÇEK**

**10.20 - 10.40** New U-Pb, Pb-Pb and Rb-Sr ages from northwest Turkey: Early Cretaceous continental collision in the Western Pontides

**K. AKBAYRAM, A. I. OKAY, M. SATIR & G. TOPUZ**

 **10.40 - 11.00 TEA BREAK**

*Chairs: P.Ayda Ustaömer & Mehmet Duru*

**11.00 - 11.30** Triassic to Cretaceous evolution of the Western Pontides

**A. S. DERMAN**

**11.30 - 11.50** On the anomalies of Middle Triassic conodonts and the stratigraphic features of the Triassic sequence of Kocaeli Peninsula (Turkey)

**A. M. KILIÇ**

## SADRETTİN ALPAN CONFERENCE HALL

**11.50 - 12.10** Late Jurassic paleogeography of the Black Sea and its importance

**A. S. DERMAN**

**12.10 - 12.30** Late Jurassic-Early Cretaceous sea level changes in the Black Sea Region

**A. S. DERMAN, R. KANDEMİR, A. DOKUZ & H. Ö. GÜRAN**

**12.30 - 14.00 LUNCH**

*Chairs: Asuman G. Türkmenoğlu & Erdal Herece*

**14.00 - 14.30** Cretaceous tectonic evolution of the Western and Central Black Sea region

**O. TÜYSÜZ**

**14.30 - 14.50** Late Cretaceous - Eocene evolution of the western margins of the İstanbul and Sakarya zones: Data relating to the closing age of the Intra-Pontide suture

**Z. ÖZGÖRÜŞ, A. I. OKAY, E. ÖZCAN, A. HAKYEMEZ & S. ÖZKAN-ALTINER**

# PROGRAM

## 2<sup>nd</sup> International Symposium on the Geology of the Black Sea Region

### SOSYAL ETKİNLİKLER SOCIAL PROGRAMME

#### Açılış Kokteyli

5 Ekim 2009 Pazartesi, Saat: 19:30, Yer: MTA Lokali

#### Opening Reception

October 5, 2009, Monday, Time: 19:30, Place: MTA Social Club

#### Devlet Amatör Gençlik Halk Dansları Topluluğu Gösterisi

7 Ekim 2009 Çarşamba, Saat: 20:30, Yer: Devlet Resim Heykel Müzesi  
Servis hizmeti bulunmaktadır.

#### State Folk Dance Ensemble Show

October 7, 2009, Wednesday, Time: 20:30 Place: Art & Sculpture Museum  
Bus service will be available

5-9 October 2009

Congress Center of MTA  
Ankara, TURKEY



MADEN TETKİK ve ARAMA  
GENEL MÜDÜRLÜĞÜ



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