PROGRAMME

16 – 18 May 2002
İstanbul Technical University
Süleyman Demirel Cultural Centre
Maslak – 80626, İstanbul - TURKEY

http://www.earth.itu.edu.tr
The Organising and Executive Committee gratefully acknowledges the generous support of the following organizations:

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educational facilities while retaining traditional values, as well as using its strong international contacts to mould young, talented individuals who can compete in the global arena.

The aim of ITU is to rank among leading universities globally. Consequently, ITU’s mission is to educate individuals to be competitive not only in Turkey, but all over the world. Within an intensely competitive environment, the university has adopted a dynamic, global, high-quality, creative and communicative approach in education, as well as research and development. Keeping abreast with modern developments, ITU is constantly restructuring itself and renovating its physical infrastructure as well as its research and education facilities. Within this framework, many projects are under way to facilitate various endeavours, such as providing our students with modern accommodation, a continually improving educational environment, creating for them opportunities for scholarships, ensuring a sound future for the university through support given to young and promising faculty members, developing information systems, renovating the laboratory infrastructure and putting research potential to use as well as developing it.

The Faculty of Mines along similar trend to that of ITU, has taken initiatives in developing international co-operations for which geographical position and geological features of Turkey provide unmatched versatility. The Faculty of Mines having all the major branches of the Earth sciences and the related engineering subjects has strong worldwide international links with its counterparts. We would like to increase our international cooperation and therefore wish to encourage the Earth scientists throughout the world to participate to the symposium and enjoy the benefits of this international gathering. We sincerely believe that friendly atmosphere of the symposium will eventually help to initiate future joint studies for the mutual benefits.

Venue

Istanbul Technical University (ITU) is a state university established in 1773, during the time of the Ottoman Sultan Mustafa III. With its original name “Mühendishane-i Bahr-i Hümayun”, The Royal School of Naval Engineering, its responsibility was to educate chart masters and ship builders. In 1795, the "Mühendishane-i Berr-i Hümayun", The Royal School of Military Engineering, was established to educate the technical staff in the army. In 1847, education in the field of architecture was also introduced. Established in 1883, the School of Civil Engineering assumed the name ‘Engineering Academy’, with the aim of teaching essential skills needed in planning and implementing the country's new infrastructure projects. Gaining university status in 1928, the Engineering Academy continued to provide education in the fields of engineering and architecture until it was incorporated into ITU in 1944. Finally, in 1946, ITU became an autonomous university that included the Faculties of Architecture, Civil Engineering, Mechanical Engineering, and Electrical and Electronic Engineering.

With a history stretching back 229 years, providing technical education within a modern educational environment and strong academic staff, ITU is strongly identified with architectural and engineering education in Turkey. Since its inception and foundation under Ottoman rule, ITU has constantly lead the way in reform movements, and in the latter era of the Republic of Turkey, ITU has assumed pivotal roles in the reconstruction, modernisation, and administration of the country. The efforts and expertise of ITU graduates have been major contributors in the planning and construction of Turkey’s roads, bridges, dams, factories, buildings, energy plants, communication networks, villages and cities. ITU is a state university that defines and continues to update methods of engineering and architecture in Turkey. It provides its students with modern educational facilities while retaining traditional values, as well as using its strong international contacts to mould young, talented individuals who can compete in the global arena.

WELCOME

Objectives

Istanbul Technical University (ITU) has recently adopted a new strategy to compete favourably with the leading universities of the world. Along this direction the Faculty of Mines has launched a number of international multi-disciplinary research activities. This international Earth Sciences Symposium is an expression of this scope. Our specific goals are to bring together professionals (leading engineers, manager, and scientists) who are interested in diversified fields of earth sciences and engineering; geology, geophysics, mining engineering and petroleum and natural gas engineering, and to provide an environment where such professionals can discuss and exchange new developments in their associated fields.

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SCIENTIFIC COMMITTEE

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Istanbul Technical University (ITU) - Turkey

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KEY NOTE SPEECHES

SYMPOSIUM OPENING LECTURE
İhsan Ketin Hall - 16 May 2002 @ 10:00
Geology and Seismotectonics of the Antique City of Troia and its Surroundings
Yücel Yılmaz

SS-B
Aykut Baraka Hall - 16 May 2002 @ 11:00
Origin of Eastern Mediterranean Basin
Zvi Garfunkel
Postseismic Deformation from 20th Century Earthquakes and the Eastern Mediterranean
GPS Velocity Field
Elizabeth Hearn, Robert Reilingar, Simon McClusky, and Brad Hager
Linking Seismogenic Structures and Tectonic Evolution Along Continental Zones of
Convergence
Wang-Ping Chen
The Mechanics of Strike-Slip Faulting: New Insights From Geophysical Imaging
Martyn Unsworth and Paul Bedrosian

SS-C
Sum Ering Hall - 16 May 2002 @ 11:00
Microcontinent–Promontory Interactions: Affinities and Possible Emplacement
Mechanisms for Proterozoic Basement in Northern Turkey
John A. Winchester
A Plate Tectonic Model for the Paleozioc and Mesozoic of the Tethyan Domain
Constrained by Dynamic Plate Boundaries and Restored Synthetic Oceanic Isochrones
Gerard M. Stampfli and G. D. Borel

SS-D
Okan Tekeli Hall - 16 May 2002 @ 11:00
High-Pressure Rocks From the Lycian Nappe Complex and the Southern Menderes Massif:
Implications for Tectonic Evolution of Southwest Turkey
Rijnveld B., Oberhänsli R., Jolivet L., Goffé B., Candan O. and Çetinkaplan M.

SS-E
Okan Tekeli Hall - 16 May 2002 @ 14:00
Granitoids from Western and Northwestern Anatolia
Geochemistry and Geochronology
Michel Delaloye, Ergüzer Bingöl and Denis Fontignie

SS-F
İhsan Ketin Hall - 17 May 2002 @ 09:00
Settings of Ophiolite Genesis in the Eastern Mediterranean Region
Alastair Robertson
A Precambrian Metaphiophilitie in the Basement of Northwestern Anatolia–Turkey and
its Exhumation History
Erdinç Yiğitbaış, Robert Kerrich, Yücel Yılmaz, Ali Elmas and Qianli Xie
SS-H  Okan Tekeli Hall - 17 May 2002 @ 09:00
Miocene Paleoeocology and Fossil Apes From Central Anatolia
John Kappelman

SS-I  Sm Ernç Hall - 17 May 2002 @ 14:00
Aegean Extension: Tectonics, Volcanism and Basin Development
Yógul Yılmaz

SS-K  Ekrem Goksu Hall - 17 May 2002 @ 09:00/11:00
A Brief Discussion on Integrated Reservoir Management Process
Ömér Göpınar
Neuro-Simulation–A Panacea or A Hype For Long-Standing Reservoir Engineering Issues?
Turgay Ertekın

SS-L  Kemal Erguvanlı Hall - 17 May 2002 @ 09:00
An Approach for the Estimation of Near-Fault Ground Motions
Eser Durukal and Mustafa Erdik
Estimating Strong Ground Motion in İstanbul Based on an Earthquake Scenario:
Preliminary Results
Nelson Pulido, Aníbal Ojeda and Kuvvet Atakan

SS-M  Ekrem Goksu Hall - 16 May 2002 @ 11:00
Trends and Discontinuities in Holocene and Recent Environmental Records in Anatolia:
A Presentation of Some Human Societies Responses to Climate Changes and “Crises”
Catherine Kuwucağlu
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Opening Ceremony @ İlhan Keten Hall

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Field Trip 1: A Section Through Precambrian Basement and Surface Ruptures of 1999 Earthquakes will take place and departures will be promptly at 09:00 o’clock on May 18, 2003. Further information will be announced during the Symposium at the Registration Desk accordingly.

16 - 18 May 2003, ITU-Suleyman Demirel Cultural Centre, Maslak-İstanbul-Turkey
Special Session

SEISMIC HAZARD AND ACTIVE FAULTS IN THE SEA OF MARMARA REGION

Naci Görür  TÜBİTAK Marine Geology and Geophysics Projects National Coordinator,
TÜBİTAK-MAM, Gebze, İzmit, Turkey
ITU-Faculty of Mines, Department of Geology,
Maslak, İstanbul-Turkey
Rolando Armijo. CNRS-France Marine Sciences Project Coordinator, IPG-Paris, France

May 16, 2002 Thursday
1st Day of Symposium
İhsan Ketin Hall* Main Lecture Theatre

INTRODUCTION
11:00 - 11:10
The Marmara Sea Fault Problem
Naci Görür

REGULAR SESSION
11:10 - 11:30
The Active Fault System in the Sea of Marmara Pull-Apart: Submarine Morphology, Past Earthquakes Scars and Tectonic Evolution
Rolando Armijo, B. Mayer, S. Navarro, G. King and A. Barka

11:30 - 11:50
Slip Partitioning in the Sea of Marmara Pull-Apart from GPS Velocity Vectors
F. Flerit, R. Armijo, G.C.P. King, B. Mayer, and A. Barka

11:50 – 12:10
Bends and Basin Formation Along the North Anatolian Transform in the Marmara Sea Area
12:10 – 12:30
Bends of the North Anatolian Fault in İzmit Gulf, Eastern Marmara Sea: Possible Control on the Structural Evolution of the Fault and the Propagation of Earthquake Ruptures

12:30 – 12:50
Results of a Deep-Towed Seismic (PASISAR) and Multi-Beam Bathymetric Survey in the Sea of Marmara, Turkey
Demirbağ, E., Rangin, C., Le Pichon, X. and Şengör, A.M.C.

12:50 – 13:10
Basin Inversion in the Marmara Sea and the Propagation of the North Anatolian Fault Within A Pull Apart Basin System
Rangin, C., Le Pichon, X., Demirbağ, E., İmren, C. and Şengör, A.M.C.

**LUNCH BREAK**
13:10 – 14:00

14:00 – 14:15
SEISMARMARA 2001: A Marine Seismic Survey and Offshore–Onshore Artificial Source and Natural Earthquakes in the Seismogenic Regions of the Sea of Marmara
Alfred Hirn, and the Scientific Parties of SEISMARMARA 2001

14:15 – 14:30
Reflection-Seismic Images and Evolution at the Scale of the Crust and Active Faults of the Sea of Marmara Trough (SEISMARMARA 2001)
Alfred Hirn, and the Scientific Parties of SEISMARMARA 2001

14:30 – 14:45
3D Geometry of the North Anatolian Fault System in the Çınarcık Basin: Preliminary Results (SEISMARMARA 2001)
Satish Singh, and the Scientific Parties of SEISMARMARA 2001

14:45 – 15:00
Holocene Slip Rate of the North Anatolian Fault in the Gulf of İzmit

15:00 – 15:15
Rupture Progression Along Discontinuous Oblique Fault Sets: Implications for the Karadere Rupture Segment of the 1999 İzmit Earthquake, and a Future Rupture in the Marmara Sea
Jordan Muller, Atilla Aydin, and Frantz Maerten
17:45 – 18:00
Surface Deformation of the 1999 Gölçük– İzmit Earthquake Determined with SAR interferometry and
Ziyadin Çakır, J.B. de Chabalier, R. Armijo, B. Meyer, A. Barka and G. Petzer

18:00 – 18:15
The Style of Deformation in an Oblique Rift, Northern Gulf of California, From High-Resolution Seismic Images
M.S. Steckler, P. Persaud, J. Stock, A. Martin-Barajas, J. Diebold, A. Gonzalez-Fernandez, G.S. Mountain

18:15 – 18:30
Concluding Remarks
Naci Görür and Rolando Armijo

19:00 —
Welcome Reception
16th May 2002, Thursday
Istanbul Technical University
Süleyman Demirel Cultural Centre

POSTER SESSION

POSTER - SSA-1
Active Faults and Geological Record of Earthquakes in the Gulf of İzmit (Sea of Marmara, NW Turkey)

POSTER - SSA-2
Foraminiferal Distribution in Cores From Marmara Sea: Environmental and Paleoenvironmental Reconstructions.
Capotondi L., Çağatay N., McHugh C., Polonia A., Amorosi A. Seeber L., Cormier M.H., Görür N., Emre Ö. and the Scientific Parties

POSTER - SSA-3
Time Dependent Earthquake Probability Calculations for Faults in the Sea of Marmara, NW Turkey
G. Hillers, F. Roth, H. P. Hajzes and J. Zschau

POSTER - SSA-4
Different Crustal Rheology and Seismicity at the Strike-Slip Boundary of the North Anatolian Fault: Earthquake Series and Earthquake Pairs
Osman Bektaş, Yener Eyyıldız and Nafiž Maden

19:45 — 21:00

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Osman Bektaş, Yener Eyyıldız and Nafiž Maden

May 16, 2002 Thursday
1st Day of Symposium
Aykut Barka Hall* 3rd Floor

OBITUARY TO AYKUT BARKA
11:00 – 11:10
A Photo Synopsis of Aykut Barka

KEY NOTES
11:10 – 11:50
Origin of Eastern Mediterranean Basin
Zvi Garfunkel

11:50 – 12:30
Postseismic Deformation from 20th Century Earthquakes and the Eastern Mediterranean GPS Velocity Field
Elizabeth Hear, Robert Reilinger, Simon McClusky, and Brad Hager

12:30 – 13:10
Linking Seismogenic Structures and Tectonic Evolution Along Continental Zones of Convergence
Wang-Ping Chen
LUNCH BREAK 13:10 - 14:00

KEY NOTE 14:00 - 14:20
The Mechanics of Strike-Slip Faulting: New Insights From Geophysical Imaging
Martyn Unsworth and Paul Bedrosian

Regular Session on Eastern Mediterranean and Aegean Dynamics 14:20 - 15:00
Neotectonic Evolution of the Anaximander Mountains at the Junction of the Hellenic and Cyprus Arcs
Johan H. ten Veen and John M. Woodside

New Insights into the Kinematics of the Dead Sea Fault Zone from Field Observations in Syria: Implications for Mechanisms Governing Changes to the Sense of Crustal Deformation in Southern Turkey During the Late Cenozoic
Rob Westaway

TEA / COFFEE BREAK 15:40 - 16:00

16:00 - 16:20
Inversion for Aegean Dynamics and a new Back-Propagation Technique of Teleseismic Records to Find Crustal Structure
M. Sinan Özeren and A. John Haines

16:20 - 16:40
The Quaternary Evolution of the Gulf of Corinth, Central Greece: Coupling Between Surface Processes and Flow in the Lower Continental Crust
Rob Westaway

16:40 - 17:00
Seismic Imaging Under the Gulf of Corinth: Tectonic and Seismogenic Implications
Alfred Hirn, M. Sachpazi, M. Laigle, C. Clément and N. Roussos

17:00 - 17:20
Seismic Coupling and Structure of the Hellenic Subduction in the Ionian Islands Region
Mireille Laigle, A. Him, M. Sachpazi, and C. Clément

17:20 - 17:40
Micro-earthquake Activity and Seismotectonic Regime in the Saronikos Gulf (Greece)
Jannis Makris, Drakatos, G., Papoulia, I. and G. Stavrakakis

17:40 - 18:00
Active Tectonic Deformation and Migration – Distribution of Seismic Activity in the Wider Area of Anatolia and the Middle East
Eythymios L. Lekkas and H.D. Kranis

18:00 - 18:20
Monitoring the Dynamics of Small Seismic Activity as an Important Tool for Hidden Active Fault Revelation
Betim Muço

18:20 - 18:40
Active Faulting in SW Bulgaria: Possible Surface Rupture of the 1904 Struma Earthquakes
Bertrand Meyer, Rolando Armijo and Dimitar Dimitrov

19:00 -
Welcome Reception
16 May 2002, Thursday
Istanbul Technical University
Süleyman Demirel Cultural Centre

May 17, 2002
2nd Day of Symposium
Aykut Barka Hall * 3rd Floor

Caucasian Seismotectonics and Geodynamics

09:05 - 09:25
Expulsion Tectonics in the Black Sea–Caucasus Area
Vladimir G. Kazmin
9:25 – 09:45
Fault Kinematics and Seismotectonics of Georgia
Simon Kuloshvili and I. Bashaleishvili

9:45 – 10:05
Fault Tectonics in the Lower Kura Depression
Aliev Chingiz

10:05 – 10:25
Source Parameters of Caucasian, Caspian and Talesh Earthquakes
Obtained From Inversion of Teleseismic P- and SH- Body-Waveforms
Onur Tan and Tuncay Taymaz

TEA / COFFEE BREAK 10:25 - 11:00

Seismotectonic Studies in Marmara Province

11:00 – 11:25
Source Rupture Process of the Gölcük–Kocaeli, Turkey, Earthquake of
August 17, 1999 Obtained by Joint Inversion of Near–Field and
Teleseismic Data
Yuji Yagi and Masayuki Kikuchi

11:25 – 11:50
Space and Time Evolution of Rupture and Faulting During the 1999
Gölcük, İzmit (Turkey) Earthquake

11:50 – 12:15
Fault Zone Heterogeneity and Variations of Seismicity Parameters
Across 1999 İzmit-Düzce Earthquake Sequence
Mustafa Aktar, S. Özalaybey, M. Ergin, H. Karabulut, C. Tapırdamaz, A. Yörük, and F. Biçmen

12:15 – 12:40
Seismogenic Zones of the Sea of Marmara Province: Aftermath of the
1999 Gölcük–İzmit Earthquakes, NW Turkey
Serdar Özalaybey, H. Karabulut, M. Ergin, C. Tapırdamaz, A. Yörük, F. Biçmen, M. Aktar, and M.
Bouchon

12:40 – 13:05
Investigations of Micro–Earthquake Activity Within the Sea of Marmara
and Surrounding Regions by Using Ocean Bottom Seismometers (OBS)
and Land Seismographs
Tuncay Taymaz, Toshihiro Sato, Junzo Kasahara, Alfred Him, M. Ito, Aya Kamimura, Tadashi Hayakawa
and Onur Tan

LUNCH BREAK 13:05 - 14:05

14:10 – 14:35
Crustal Velocity Structure of the Marmara Sea Region from Wide Angle
Seismic Reflection Data Acquired During SEISMARMARA 2001
Experiment
Hayrudah Karabulut, Serdar Özalaybey, Tuncay Taymaz et al.

14:35 – 15:00
Interseismic Strain Accumulation in the Marmara Sea Region
Mehmet E. Ayhan, Coşkun Demir, Onur Lenk, et al.

15:00 – 15:25
Comparative Geologic Investigations of ERS and LANDSAT TM Data
From NW Turkey for the Detection of Structural Influence and of Ground
Conditions on Earthquake Damage Intensity and on Secondary Effects
Barbara Thellen-Willige

TEA / COFFEE BREAK 15:25 - 16:00

Paleoseismology

16:00 – 16:25
Large Earthquake Sequences Along Main Continental Faults:
Paleoseismic and Historical Constrains of the Faulting Behaviour
Mustapha Meghraoui

16:25 – 16:50
Paleoseismology of the Western North Anatolian Fault Near the
Marmara Sea: the Past 400 Years of Surface Ruptures East and West
of Istanbul
Rockwell, Tom K., G. Setz, R. Langridge, E. Aksoc, A. Banka, M. Ferry, Y. Klinger, M. Meheusroui, A.
Melitner, D. Ragina, and G. Uçarkuş

16:50 – 17:15
Paleoseismicity of Düzce Fault in the Last Millennium, North Anatolian
Fault Zone, Turkey
Ömer Emre, Tamer Yiğit Duman, Shinji Toda, Mitsuru Okuno, Ahmet Dogan, Selim Özlü Hıroyuki
Tsutsumi, Fatma Tokay, Tsuyoshi Haraguchi, Hisao Kondo, Nobihiko Sugito, Toshio Nakamura
Seismotectonics Case Studies

17:15 – 17:40
Source Characteristics of Mw=6.5 the February 3, 2002 Çay–Sultandağı Earthquake Sequence (Afyon, SW Turkey) Obtained From Inversion of Teleseismic P- and SH- Body-Waveforms, Strong Motion, and Aftershock Seismicity Survey Data
Tuncay Taymaz, Onur Tan, Sendar Ozalaybey and Hayrullah Karabulut

17:40 – 18:05
The Sultandağı Earthquake of February 3, 2002 (Mw=6.5) and Its Tectonic Significance in the Western Anatolian Extension Regime in Turkey
Omer Emre, Tamer Y. Duman, Selim Özalp, Ahmet Doğan, Ismail Kuşçu and Fatma Tokay

18:05 – 18:30
DEM Generation From ASTER Images for Tectonic and Geomorphological Analysis
Hülay Yüce and Cihanbër Aydöner

18:30 – 18:55
Source Characteristics of Mw=6.0 June 6, 2000 Orta–Çankırı (Central Turkey) Earthquake: A Synthesis of Seismological, Geological and Geodetic (InSAR) Observations, and Internal Deformation of Anatolian Plate
Tuncay Taymaz, Tim Wright, Onur Tan, Eric Felding and Günel Seyitoğlu

19:30 – Istanbul- Bosphorous Tour and Cocktail Prolounge
17th May 2002, Friday
(Departure from Istanbul Technical University Süleyman Demirel Cultural Centre @ 19:00)
POSTER - SSB-12
South Eastern Bulgaria and Seismic Strikes From Turkey
Rumiana Glavcheva, Irena Tzoncheva and Blagovesta Babachkova

POSTER - SSB-13
Parallel Seismicity and Recent Geodynamics for the Struma, Mesta and Vardar Riverbeds–Balkan Peninsula
Boyko Kirtlov Rangelov, Sonia Dimitrova, Snejzha Rizhikova, George Alexiev

POSTER - SSB-14
The Evolution of Regional Seismicity Between Large Earthquakes
Geoffrey C. P. King and David D. Bowman

POSTER - SSB-15
Ground penetrating Radar prospecting across the 1999 Gölçük–Düzce surface ruptures of the North Anatolian Fault
Matthieu Ferry and Mustapha Meghraoui

Special Session

Regional Geology and Geophysics:
The Evolution of Orogenic Belts of Anatolia and Surroundings

Aral Okay, Istanbul Technical University, Department of Geology, Maslak 80626, Istanbul, Turkey
A. H. F. Robertson, Edinburgh University, Department of Geology, Edinburgh, Scotland, U.K
Erdinç Yigitbas, Istanbul Technical University, Department of Geology, Maslak 80626, Istanbul Turkey
Tuncay Taymaz, Istanbul Technical University, Department of Geophysics, Maslak 80626, Istanbul-Turkey

May 16, 2002 Thursday
1st Day of Symposium
Sırrı Erinç Hall* 2nd Floor

KEY NOTES

11:00 – 11:30
Microcontinent-Promontory Interactions: Affinities and Possible Emplacement Mechanisms for Proterozoic Basement in Northern Turkey
John A. Winchester

11:30 – 12:00
A Plate Tectonic Model for the Palaeozoic and Mesozoic of the Tethyan Domain Constrained by Dynamic Plate Boundaries and Restored Synthetic Oceanic Isochrones
Gerard. M. Stampfli and G. D. Borel
REGULAR SESSION
12:00 - 12:20
Alternative Tectonic Models for the Late Palaeozoic-Early Tertiary
Tectonic Evolution of Anatolia
Alastair Robertson, Timur Ustaömer and Theo Andrew

12:20 - 12:40
Timing of Alpide Obduction, Subduction and Collision From
Stratigraphic Record in Western Anatolia
Aral İ. Okay, İzver Tansel and Okan Tuyüz

12:40 - 13:00
Dextral Arc-Parallel Tectonic Transport Along the Southern Margin of
Eurasian in the Late Palaeozoic-Early Mesozoic
Boris A. Natal' in, Gürsel Sunal and Erkan Toraman

LUNCH BREAK 13:00 - 14:00

14:00 - 14:20
Tectonometamorphic Evolution of the Sivrihisar Massif, Northern Turkey
Donna L. Whitney and Yıldırım Dilek

14:20 - 14:40
Ordovician Glaciation In Southern Turkey

14:40 - 15:00
Origin of the Çetmi Melange (NW Turkey)
Beccaletto L. and Stampfli G. M.

15:00 - 15:20
Middle Carnian Radiolarians From the Intra-Pillow Limestones of the
Turuńç Unit Within The Gülbaşar Nappe (Lycian Nappes, Marmaris, Southern Turkey): Geodynamic Implications
U. Kağan Tekin and M. Cemal Göncüoğlu

15:20 - 15:40
Collision-Related Eocene Fold and Thrust Belt North of the İzmir-Ankara
Suture
Burak M. Yikilmaz, Kenan Akbayram and Aral İ. Okay

TEA / COFFEE BREAK 15:40 - 16:00

16:00 - 16:15
Tectonic Setting and Provenance of Mesozoic Basin Clastic Rocks:
Geochemical Evidence of Lower Jurassic and Upper Cretaceous
Sandstones From Yusufeli (Artvin), NE Turkey
Abdurnahman Dokuş

16:15 - 16:30
The Stratigraphy and Tectonic Evolution of the Late Cretaceous
Foreland Basin in the İçel Region (Central Taurides, Turkey)
Erol Özer, Kemal Taşkö and Hayati Koç

16:30 - 16:45
Tectonic Evolution of Central Taurides: Mersin-Bozyazı Perspective
Hayati Koç, Erol Özer and Ulvi Can Ünlügenç

16:45 - 17:00
Carbonate Turbidite Sequences Deposits: Upper Cretaceous
Sediments Records of the Pontian Volcanic Arc (Trabzon, NE Turkey)
Cemil Yılmaz, Faruk Aydın, Burhan Sadıklar and Raif Kandemir

17:00 - 17:15
Geological and Petrological Characteristics of İkizce (Ordu) Area
Volcanic Rocks: Evidences on the Evolution of Eastern Pontides
Tertiary Volcanism, NE Turkey
İrfan Temizel and Mehmet Aslan

17:15 - 17:30
Geodynamics of Central Part of the Lesser Caucasus During Cenozoic
F.M. Shirinov

17:30 - 17:45
Role of Overthrust Sheets Tectonics in Formation of Modern Structure
of Azerbaijan, Greater Caucasus
Talat Kangarlı

17:45 - 18:00
Comparative Analysis of Palaeomagnetic Section of the Caucasian
Segment in the Mediterranean Belt
Khalafly A.A

18:00 - 18:15
Correlation of the Pamir, Kunlun and Tibet Structural Zones and
Tectonic Evolution of High Asia
V.S. Burtman

18:15 - 18:30
Concluding Remarks
Aral İ. Okay and Alastair H.F. Robertson

19:00 -
Welcome Reception / 16th May 2002, Thursday
İstanbul Technical University
Süleyman Demirel Cultural Centre
POSTER SESSION

POSTER - SSC-1
Preliminary Result From the CELEBRATION 2000 Experiment in Central Europe

POSTER - SSC-2
Collisional-Backtrust Basin Model for the Thrace–Göynük–Safranbolu Basin (NW Turkey)
Şamil Şen

POSTER - SSC-3
Retroarc Foreland Basin Model for Western Black Sea Basin (NW Turkey)
Şamil Şen

POSTER - SSC-4
Stratigraphy, Facies and Depositional Settings of the Miocene Reefs in the Late-Orogenic Fill of the Antalya Basin, Western Taurids, Turkey
Sevim Tuzcu, Mustafa Karabıyıkolu, Atilla Çiner and Sefer Orçen

POSTER - SSC-5
Facies Architecture and Depositional Evolution of the Miocene Coastal Alluvial Fan - Fan Delta Complexes in the Tectonically Active Köprüçay Basin, the Isparta Angle, Turkey
Atilla Çiner, Mustafa Karabıyıkolu, Max Deynoux, Olivier monod, Gianretto Manatchal, Sevim Tuzcu

POSTER - SSC-6
Tectono-Stratigraphical Investigation of Northern Akdam (Kozan, Adana, Turkey)
Alican Kop, Mustafa Şenel, Cavit Demirkol, Ulvi Can Ünlüçeng"ç

POSTER - SSC-7
Seismicity and Geodynamic Situation at South Slope of Great Caucasus
Gurban J. Etirmishli

POSTER - SSC-8
Evolution and Exhumation of Metamorphic Terrains in the Tethyan Realm
Erdin Bozkurt
Department of Geological Engineering, Middle East Technical University, Ankara, Turkey
Roland Oberhänsli
Institute of Geosciences, University of Potsdam, PF 601553, D-14415 Potsdam, Germany

May 16, 2002 Thursday
1st Day of Symposium
Okan Tekeli Hall* 3rd Floor

KEY NOTE
11:00 – 11:30
High-Pressure Rocks From the Lycian Nappe Complex and the Southern Menderes Massif: Implications for Tectonic Evolution of Southwest Turkey
Rimmelé G., Oberhänsli R., Jolivet L., Goffé B., Candan O. and Çetinkaplan M.

REGULAR SESSION
11:30 – 11:45
Mode of Exhumation of Blueschists in the Western Taşanlı Zone, Turkey
Aral I. Okay

11:45 – 12:00
Dating of Eclogite and Granulite Facies Relics in the Menderes Massif
Oberhänsli, R., Warkus F. and Candan, D.
12:00 – 12:15
Single Zircon Pb-Pb Ages for Para- and Orthogneisses in the Menderes Massif, Western Turkey: An Approach to the Original Deposition Age of the Paragneisses
O. Ersin Koralay, Osman Candan, O. Özcan Dora, Fukun Chen, Muharrem Sátır and Orhan Kaya

12:15 – 12:30
Origin of Augen Gneisses in the Southern Menderes Massif: Field and Geochemical Evidence
Erdin Boztuğ and John A. Winchester

12:30 – 12:45
Fe-Mg Carpholite – Pyrophyllite – Chloritoid - Bearing Triassic Metapelites From Afyon Zone; Turkey: First Evidence for Alpine Low-Grade, High-P / Low-T Metamorphism
Osman Candan, Mete Çetinkaplan, Roland Oberhansli and Gaëtan Rimmelé

12:45 – 13:00
Petrology of Manganese Rich Eclogite From the Selçuk Olistostrome
Oberhansli, R., Hamann, E., Partzsch, J., Warkus, F., Çetinkaplan, M. and Candan, O

13:00 – 13:15
Transport Direction of Lycian Nappes Studied by Kinematic Indicators In Milas Region
Arzu Arslan, Burhan Erdoğan and Talip Güngör

13:15 – 13:30
Retrograde P-T Path of Anatectic Migmatites From the Pulur Massif, Eastern Pontides, NE Turkey: Petrological and Microtextural Constraints
Gültekin Topuz

LUNCH BREAK 13:30 - 14:00
May 17, 2002 Friday
2nd Day of Symposium
İhsan Ketin Hall* Main Lecture Theatre

INTRODUCTION
09:00 – 09:15
Outstanding Questions on the Eastern Mediterranean Ophiolites and the Tethyan Geodynamics
Yıldırım Dilek

KEY NOTES
09:15 – 10:00
Settings of Ophiolite Genesis in the Eastern Mediterranean Region
Alastair Robertson

A Precambrian Metaophiolite in the Basement of Northwestern Anatolia-Turkey and its Exhumation History
Erdine Yılmaz, Robert Kerrich, Yücel Yılmaz, Ali Elmas and Qianli Xie

TEA / COFFEE BREAK 10:30 - 11:00

REGULAR SESSION
11:00 – 11:30
Geochemical Evolution of the Jurassic Mirdita Ophiolite, Albania
H. Furnes, Y. Dilek and M. Shallo
17:00 – 17:30
Bioalteration in Fossil Oceanic Crust: A Case Study of Two Tethyan Ophiolites (Troodos, Cyprus And Mirdita, Albania)
H. Fumes, K. Muehlenbachs, T. Torsvik, Y. Dilek, M. Shallo and C. Xenophontos

17:30 – 18:00
Structural and Palaeo-Stress Analysis of the Melange Associated With the Neyriz Suture Zone
Khalil Sarkarinegad

18:00 – 18:30
Flow and Shear Structures Along the Moho in Northern Oman Mountains
Huda Mohamed Allawati and Yujiro Ogawa

18:30 – 18:40
Concluding Remarks
Yıldırım Dilek and Yücel Yılmaz

19:30 –
Istanbul - Bosphorous Tour and Cocktail Prolounge

17 May 2002, Friday
(Departure from Istanbul Technical University Süleyman Demirel Cultural Centre @ 19:00)

POSTER SESSION

POSTER - SSF-1
Suprasubduction Zone Origin of the Antalya Ophiolite (Southern Turkey) Deduced From the Mineral Chemistry of the Ultramafic-Mafic Cumulate Rocks
Utku Bağcı, Osman Parlak, Volker Höck and Michel Delaloye

POSTER - SSF-2
Geodynamic Conditions of Ophiolite Troughs Formation of Lesser Caucasus
A.T. Hagverdiyev and R. A. Samedova

POSTER - SSF-3
Geochemical Peculiarites of Subalkalinous Ultrabasic Magmatism Talysh Zone, Azerbaijan
G.J. Babayeva and M.Y. Hasangulyeva
May 17, 2002 Friday
2nd Day of Symposium
Sirri Erinç Hall* 2nd Floor

OBITUARY
09:00 - 09:10
Obituary to Prof. Dr. Okan Tekeli
Aral İ. Okay and M. Cemal Göncüoğlu

REGULAR SESSION
09:10 - 09:30
Karakaya Complex - Definition, Extent and Significance
Aral İ. Okay

09:30 - 09:50
The Karakaya Basin Versus Triassic Basins in Anatolia
Yücel Yılmaz and Erdinç Yiğitbaş

09:50 - 10:10
Rock-units of the Sakarya Composite Terrane in the Armutlu and the Central Sakarya Areas, NW Turkey
M. Cemal Göncüoğlu and Okan Tekeli

Special Session
Accretionary Complex or Rift Deposits? Paleo-Tethyan Ocean or a Small Back-Arc Basin? The Problem of the Karakaya Complex

Aral İ. Okay, Istanbul Technical University, Department of Geology, Istanbul 80626, Turkey
Cemal Göncüoğlu, Middle East Technical University, Department of Geology, Ankara Turkey

Poster Session

 Poster - SSF-4
Isotope-Geochronologic Studies of Magmatic Formations in the East of the Lesser Caucasus Ophiolite Zone
Bagirbekova Ofelia Jafarkisi and Abdullayev Ibadulla Abdullaogly

 Poster - SSF-5
Structural Evidences of the Neyriz Paleo Ridge, Iran
Ali Reza Nadimi

 Poster - SSF-6
Detailed Mapping of a Mantle Diapir below a Paleo Spreading Center in the Neyriz Ophiolite, Iran
Ali Reza Nadimi

 Poster - SSF-7
Petrographical and Geochemical Characteristics of the Subophiolitic Metamorphic Rocks Beneath Şarkıkkaraç Ophiolite, SW Turkey
Omer Eltık

 Poster - SSF-8
Vertical Variation of Magnetic Susceptibility in Layered Gabbro in Oman Ophiolite: Younging Direction Determination at Sadam Area
Kichire Kawamura, Takashi Hoso, Huda Allawati, Hidetsugu Taniguchi, and Yujiro Ogawa

 Poster - SSF-9
The Lesser Caucasus Ophiolite Gases– Indicators of Deep Conditions of Formation
Ismail-Zadeh A.J and Latifova Y.N.

 Poster - SSF-10
Preliminary Studies on the Geology and Petrography of Mineralization Bearing Ophiolites Around Sivrihisar
Hayrettin Özen, Ender Sanfakagözü, O. Faruk Gültaslı, Hüseyin Savak, Aydın Çolakoğlu, Fevzi Minareci and Hatice Erdal
May 17, 2002 Friday
2nd Day of Symposium
Okan Tekeli Hall* 3rd Floor

10:10 – 10:30
Characteristics of the Karakaya Formation in the Western and Central Anatolia
Behçet Akyürek

11:00 – 11:20
The Karakaya Complex as a Palaeotethyan Subduction / Accretion Complex and the Role of the Triassic Volcanogenic Nilüfer Unit as Fragments of Emplaced Triassic Oceanic Seamounts
E.A. Pickett and A.H.F. Robertson

11:30 – 12:00
Geochemistry and Petrology of “Nilüfer-type” Metabasic Rocks of Eastern Kozak Massif, NW Turkey
M. Kenan Yalınız and M. Cemal Gönçüoğlu

12:00 – 12:20
Data on the Subduction-Accretion Origin of the Karakaya Complex: Triassic Blueschists and Eclogites From Northwest Turkey
Aral I. Okay, Olivier Monod and Patrick Monié

12:20 – 12:30
The Karaburun Units: A Remnant of the Palaeotethyan Fore-Arc Basin
François Rosselet

12:30 – 14:00
LUNCH BREAK

19:00 – 17th May 2002, Friday, 19:30
Istanbul - Bosphorous Tour and Cocktail Prolounge
(Departure from Istanbul Technical University Süleyman Demirel Cultural Centre @ 19:00)
11:20 – 11:40
Neogene Tectonics and Stratigraphy of the Western Part of Tuzgölü, Central Anatolia-Turkey
Kadir Dirik and Cemal Gönçoğlu

11:40 – 12:00
The Youngest Compressional Palaeotectonic Structures Comprising the Ankara Section of the İzmir-Ankara-Erzincan Suture Zone (IAESZ): Age and Kinematic Analysis of the Edişe Imbricate Thrust Fault Zone, Ankara, Turkey
Ali Koçyiğit and Gerçek Saraç

12:00 – 12:20
Ecomorphological Investigation of Equid Metapodials from Akkaşdağ, Kaman, Turkey
Murat Maş and Robert Scott

12:20 – 12:40
Surface and Subsurface Characteristics of the Çankırı Basin (Central Anatolia, Turkey): An Integrated Study
Nurettin Kaymakçı

13:00 – 13:20
Sedimentary Evolution of the Çankırı-Çorum Basin Between Çorum and Osmancık in the Eocene
Faruk Ocakoğlu

13:20 – 13:30
The Geology of the Southern Part of the Bolkar Mountains
Taşfun Bilgiç and Ergun Gökten

13:30 – 13:50
Concluding Remarks
Ali Koçyiğit

28
29
16:00 – 16:20
Geology of the Volcanosedimentary Succession in Lacustrine Environment: An example From the Area Between Soma and Bigadiç, Western Turkey
Fuat Erkü, Cahit Helvacı and Hasan Sozbilir

16:20 – 16:40
Extension Crack as a Structural Tool for the Study of Deformation From Ancient to Active Tectonic Settings
Hayrettin Koral

16:40 – 17:00
Consistency Between the Initiation of Magmatism (11.5 Ma) in the Bodrum Peninsula (SW-Turkey) and the Initiation of Both the North Anatolian Fault and the Roll-Back Process of the Hellenic Trench System
Ursula Robert and Raymond Montigny

17:00 – 17:20
Stratigraphic and Volcanic Features of the Northern Part of the Bodrum Magmatic Complex in the Bodrum Peninsula, SW Anatolia
Zekiye Karacık and Yücel Yılmaz

17:20 – 17:40
The Progressive Neogene Volcanism in the Alağa-Foça Region (İzmir, West Turkey)
Erhan Akay and Burhan Erdoğan

17:40 – 18:00
Petrographical and Volcanological Features of Volcanic Associations of the Foça Area, West Central Turkey
Şafak Altunkaynak and Yücel Yılmaz

18:00 – 18:20
K-Richterite-Olivine-Phlogopite-Diopside-Sanidine Lamproites From Southern Part of the Afyon Volcanic Province, Western Turkey
Cüneyt Akal and Cahit Helvacı

18:20 – 18:40
Oxygene Isotope Variations in Kula Lavas (Western Anatolia)
Pınar Alıcıl, Abidin Temel, Marie-Christine Gerbe, and Alain Gourgaud

18:40 – 18:50
Concluding Remarks
Gürol Seyitoğlu and Nilgün Güleç

19:00 – 17th May 2002, Friday, 19:00
Istanbul Bosphorous Tour and Cocktail Prolounge
(Departure from Istanbul Technical University Süleyman Demirel Cultural Centre @ 19:00)
**Special Session**

**Rock Engineering and Tunneling**

**Erkin Nasuf**, Istanbul Technical University, Department of Mining Engineering, Maslak 80626, Istanbul, Turkey

May 16, 2002 Thursday

1st Day of Symposium

Kemal Erguvanlı Hall * 3rd Floor

**REGULAR SESSION**

11:00 – 11:20

A Contribution to the Importance of the Bearing Capacity and the Unit Rock Element Displacement of the Rock Mases at the Design and Dimension of the Slope Tunnels

Mahir Vardar, Halil Karaoğlan, and Cenk Koçak

11:20 – 11:40

Determinative Number “Nd”: A New Methodology for Geotechnical Assessment for Underground Rock Structures

Mehmet Dinçer Köksal

11:40 – 12:00

Investigation of the Planned Route of the Southern Highway Between Danca (Akçaabat)-Yali Mahallesi (Trabzon) in Terms of Engineering Geology

Serhat Dağ and Fikri Bulut

12:00 – 12:20

Investigation of Construction Stages and Production Parameters of Uluburun Tunnel Between Giresun and Espiye, NE Turkey

Bayram Ercioğlu, Ayhan Kesimal, Ali Osman Yılmaz, Kerim Aydiner and Heybet Çağlayan

12:20 – 12:40

The Useability of Coarseness Index in the Prediction of Penetration Rate of Percussive Blasthole Drills in A Limestone Opencast Quarry

Rafet Altındağ

12:40 – 13:00

Assessment of the Correlation Between Mechanical and Textural Properties of Rocks

C. Atilla Öztürk and Erkin Nasuf

13:00 - 14:00

**LUNCH BREAK**

14:00 – 14:20

Surface Displacements and Tilts in Anisotropic Medium Due To Shallow Tunnels

Bahattin Kimençe and M. Ertaç Ergüven

14:20 – 14:40

A Mathematical Simulation for Fluid Flow in Rock Mass Environment

Mohammad Faroug Hossain, Morteza Kolahdoozan, Abolfazle Mehinrad and Babak Karimi Dehkordi

**POSTER SESSION**

POSTER - SSJ-1

Liquefaction Potential of Quaternary Deposits in Istanbul Metropolitan Area

Feyzi Polat and Yılmaz Mahmutoğlu

POSTER - SSJ-2

Problems of Squeezing and Soft Ground Tunneling in Ayaş, Central Turkey

Yılmaz Mahmutoğlu, Tolga Yalçın and Mahir Vardar
Special Session

RESERVOIR ENGINEERING, CHARACTERIZATION AND FORMATION EVALUATION

Mustafa Onur, Istanbul Technical University, Department of Petroleum and Natural Gas Engineering, Maslak 80626, Istanbul, Turkey

May 17, 2002 Friday
2nd Day of Symposium
Ekrem Göksu Hall* 3rd Floor

KEY NOTE
09:00 - 09:30
A Brief Discussion on Integrated Reservoir Management Process
Ömer Gurpinar

REGULAR SESSION
09:30 - 09:50
Description of Heterogeneous Reservoir Using Integrated Pressure and Tracer Data Analysis
Serhat Akın

09:50 - 10:10
Potential Applications of Smart Wells in A Giant Saudi Oil Field
Burak Yeten, Mustafa Şengül, Louis J. Durlofsky, Emad H. BuHulaigah and Khalid Aziz

10:10 - 10:30
A Laboratory Study on Determination of Physical Properties of Carbonate Rocks
Melih Gökmen, Hasan O. Yıldız and Argun Gürkan

LUNCH BREAK 13:00 - 14:00

TEA / COFFEE BREAK 10:30 - 11:00

KEY NOTE
11:00 - 11:30
Neuro-Simulation—A Panacea or A Hype For Long-Standing Reservoir Engineering Issues?
Turgay Ertekin

REGULAR SESSION
11:30 - 11:50
Upscaling Permeability and Relative Permeability to Incorporate Reservoir Heterogeneities Into Numerical Models
Ekrem Kasap

11:50 - 12:10
Efficient Cuttings Transport in Horizontal and Deviated Well-Bores in Coil Tubing Drilling: A Flow Pattern Approach
V. C. Kelessidis, G. Mpandelis, A. Koultrouls and T. Mihalakis

12:10 - 12:30
Small-Element in Rocks of Oil-Bearing Horizons and Oils
Hasanov F.D

12:30 - 12:50
Effect of Scaling Factors on Spontaneous Imbibition Experiments
Melih Gökmen, Erdem Çatak and Hasan O. Yıldız

12:50 - 13:00
Concluding Remarks
Mustafa Onur

LUNCH BREAK 13:00 - 14:00

19:30 -
17th May 2002, Friday
Istanbul - Bosphorous Tour and Cocktail Polounge
(Departure from Istanbul Technical University Süleyman Demirel Cultural Centre @ 19:00)
May 17, 2002 Friday
2nd Day of Symposium
Kemal Erguvanlı Hall* 3rd Floor

KEY NOTES
09:00 – 09:30
An Approach for the Estimation of Near-Fault Ground Motions
Eser Durukal and Mustafa Erdik

09:30 – 10:00
Estimating Strong-Ground Motion in Istanbul Based on an Earthquake Scenario: Preliminary Results
Nelson Pulido, Anibal Ojeda and Kuvvet Atakan

REGULAR SESSION
10:00 – 10:20
Microzonation in Highly Seismic Regions of Marmara Province
Atilla Ansal

TEA / COFFEE BREAK 10:20 - 11:00
11:00 – 11:20
“Merm Project” Microzonation For Earthquake Risk Mitigation: A Project Sponsored by the Swiss Agency for Development and Cooperation (SDC)
Mehmet Dinçer Köksal

11:20 – 11:40
Site Effect Problem of Avcilar Province, Istanbul, Turkey
Mehmet Ergin, S. Ozalaybey, H. Karabulut, M. Aktar and C. Tapırdamaz

POSTER SESSION
POSTER - SSL-1
Strong Ground Motions During the September 13, 1999 Earthquake, the Largest Aftershock of the 17 August 1999 Gölcük – Kocaeli, Turkey Earthquake (Mw=7.4)
Nurcan Meral Özel

POSTER - SSL-2
Spectral Acceleration Simulation for Bursa City, Northwestern Turkey
Nihal Akyol, Aybige Akınç and Haluk Eyidoğan
Special Session

ENVIRONMENTAL GEOSCIENCES

Catherine Kuzucuoğlu, French Institute of Anatolian Studies (IFEA), Istanbul, Turkey

May 16, 2002 Thursday
1st Day of Symposium
Ekrem Göksu Hall* 3rd Floor

Key Note
11:00 – 11:25
Trends and Discontinuities in Holocene and Recent Environmental Records in Anatolia: A Presentation of Some Human Societies Responses to Climate Changes and “Crises”
Catherine Kuzucuoğlu

Regular Session
11:25 – 11:45
Monitoring the Behaviour of Landslides by GPS Measurements
Mualla (Ünver) Yalçınkaya and Temel Bayrak

11:45 – 12:05
Properties and Evolution of Thermal Springs in Eastern Black Sea Region
Arzu Fırat Ensöy and Fatma Gültekin

12:05 – 12:25
Monitoring Environmental Changes by Remote Sensing: Land-Cover/Land-Use Change Over 15 Years at Gebze-Kocaeli, NW Turkey
Hülya Yıldırım, Mehmet Emin Özel and Alparslan Akça

12:25 – 12:45
The Social-Economic Aspects of Seismic Hazard: A Case Study of the November 25, 2000 Baku (Azerbaijan) Earthquake
Akhundova Svetlana

12:45 – 13:05
Some Geological Objects of Azerbaijan as the Protected Monuments of Nature
R.G. Babayev and S.G. Aliyeva

Lunch Break 13:05 - 14:00

14:00 – 14:20
Simulation of Coal Preparation Processes—Static and Dynamic Models
Stanislaw Cierpisz

14:20 – 14:40
Procedure of Complex Geophysical Studies For a Search of Local Areas of Concentration of Geothermal Energy Resources
Ahmet Ercan, Y. Konovalov and I. Lipovetsky

14:40 – 15:00
Natural and Anthropogenic Factors of the Contamination of Soils by Heavy Metals in Azerbaijan
Talat Kangarli, S. Gadjiyeva and I. Kangarli

15:00 – 15:20
Organic Carbon and Nitrogen in the Deposits of the Middle Caspian Shelf
S.H. Aliyeva and R.G. Babayev

Tea / Coffee Break 15:20 - 16:00

Poster Session

POSTER - SSM-1
Remote Sensing Applications for Mineral Exploration in Eastern Turkey
Kazuo Hirose, Yuichi Maruyama, Tomoji Sanga, Susumu Takeda, A. Ural Akman and Temel Topçu

POSTER - SSM-2
The Map of Natural Radioactivity of Absheron Peninsula
Aliyeva Sabina

POSTER - SSM-3
Natural Glass Raw Materials: Cost and Quality Aspects
Eflref Aydınlı

POSTER - SSM-4
Fluid Inclusions Study and REE Geochemistry at Kamar-Mehdi Mine, Tabas Region, Iran
Mahnood Sadeghi and Farid Moore
POSTER - SSN-1

POSTER - SSN-2
Earthquake Forecast by Monopolar Electric Field Measurement
Berk Üstündağ, Mehmet Siraç Özerdem and Haluk Eyidoğan

POSTER - SSN-3
The Influence of the Catastrophic Earthquakes of Turkey on Geochemical Fields of Shemakha Seismoactive Zone in Azerbaijan During 1999-2002
A.G. Gasanov, R.A. Keramova and G.O. Allakhverdiyeva

POSTER - SSN-4
Additional Criterions of Efficient Earthquake Forecast
A.G. Gasanov and R.A. Keramova

POSTER - SSN-5
The Identification of the Seismic Epicenter’s Vector by Intensity of the Hydrogeochemical Field of Sheky Seismoactive Zone in Azerbaijan
R.A. Keramova

POSTER - SSN-6
The Use of Complex Thermal Mineral Waters in Azerbaijan: An Evaluation of Economical Feasibility
Irada Sh. Ibrahimova
Field Trip 1

A Section Through Precambrian Basement and Surface Ruptures of 1999 Earthquakes

This field trip will take place and departure will be promptly at 09:00 o'clock on May 18th, 2002. Further information will be announced during the symposium at the registration desk accordingly.