



Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

Humboldt Kolleg – 2016

Istanbul Technical University, Turkey

THE FACULTY OF MINES – İHSAN KETİN CONFERENCE HALL

10 – 12 MARCH 2016

Advances in Earthquake Seismology and Geodynamic Modeling





JOACHIM
HERZ
STIFTUNG



Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

Humboldt Kolleg – 2016

Istanbul Technical University, Turkey

THE FACULTY OF MINES – İHSAN KETİN CONFERENCE HALL

10 – 12 MARCH 2016

Advances in Earthquake Seismology and Geodynamic Modeling

HONORARY COMMITTEE

Prof. Dr. Helmut Schwarz (Alexander von Humboldt Foundation, *President*)

Dr Jörg Maxton-Küchenmeister (Joachim Herz Foundation, *Science Director*)

Dr. Georg Birgelen (Generalkonsulat der Bundesrepublik Deutschland, İstanbul, *Generalkonsul*)

Prof. Dr. Tuncay Taymaz (Istanbul Technical University, *Chairman*)

ORGANIZING AND EXECUTIVE COMMITTEE (Istanbul Technical University, Istanbul, Turkey)

Tuncay Taymaz (*Chairman*)

Tuna Eken and Seda Yolsal-Çevikbilen (*Executive Secretaries*)

Yeşim Çubuk (*Assistant Secretary*)

SCIENTIFIC COMMITTEE

Thorsten Becker, *University of Southern California, U.S.A*

Tuna Eken, *Istanbul Technical University, Turkey*

Andreas Fichtner, *Swiss Federal Institute of Technology, Zurich, Switzerland*

Rainer Kind, *GeoForschungsZentrum, Potsdam, Germany*

Jean-Paul Montagner, *Institut de Physique du Globe de Paris, France*

Barbara Romanowicz, *Institut de Physique du Globe de Paris, France / University of California, Berkeley, USA*

Erdinc Saygin, *Australian National University, Canberra, Australia*

Seth Stein, *Northwestern University, U.S.A*

Tuncay Taymaz, *Istanbul Technical University, Turkey*

Hans Thybo, *University of Copenhagen, Denmark*

Frederik Tilmann, *GeoForschungsZentrum, Potsdam, Germany*

Seda Yolsal-Çevikbilen, *Istanbul Technical University, Turkey*

Humboldt Kolleg – 2016
Istanbul Technical University, Turkey
THE FACULTY OF MINES – İHSAN KETİN CONFERENCE HALL
10 – 12 MARCH 2016

Advances in Earthquake Seismology and Geodynamic Modeling

PRELIMINARY PROGRAM — as of JANUARY 25, 2016

ARRIVALS and CHECK-IN on WEDNESDAY 9 MARCH 2016

THURSDAY – 10 MARCH 2016

09:30 – 10:00	WELCOME REFRESHMENTS
10:00 – 10:15	OPENING REMARKS
10:15 – 10:30	Testimonial – The Sponsorship Portfolio of <i>the Alexander von Humboldt Foundation</i>
10:30 – 11:30	Seth Stein, <i>Northwestern University, U.S.A</i> Playing Against Nature: Integrating Science and Economics to Mitigate Natural Hazards in An Uncertain World
11:30 – 12:15	Aral Okay, <i>Istanbul Technical University, Turkey</i> Tectonics of the Eastern Mediterranean and Black Sea Region
12:15 – 13:00	Jean-Paul Montagner, <i>Institut de Physique du Globe de Paris, France</i> Anisotropic Seismology
13:00 – 14:00	LUNCH BREAK
14:00 – 14:45	Thorsten Becker, <i>University of Southern California, U.S.A</i> Seismic Anisotropy Constraints on Mantle and Lithospheric Dynamics
14:45 – 15:15	Claudio Faccenna, <i>Universita' Degli Studi Roma Tre, Italy</i> Mantle Dynamics in the Mediterranean
15:15 – 15:45	Andreas Fichtner, <i>Swiss Federal Institute of Technology, Zurich, Switzerland</i> Imaging the Earth from Sedimentary Basins to the Deep Mantle
15:45 – 16:15	TEA-COFFEE-REFRESHMENTS
16:15 – 16:45	Rainer Kind, <i>GeoForschungsZentrum, Potsdam, Germany</i> The Structure of the Mantle Lithosphere in Central Europe from S-Receiver Functions
16:45 – 17:15	Haydar Karaoğlu, <i>Institut de Physique du Globe de Paris, France</i> Towards the Next Generation Global Upper-Mantle Anelastic Model
17:15 – 17:45	Xiaohui Yuan, <i>GeoForschungsZentrum, Potsdam, Germany</i> Lithospheric Structure of NW Namibia
17:45 – 18:15	Jaroslava Plomerova, <i>Academy of Sciences of the Czech Republic, Prague</i> Advances in Seismic Anisotropy Studies and Teleseismic Velocity Tomography Images of the Upper Mantle

Humboldt Kolleg – 2016

Istanbul Technical University, Turkey, 10–12 March 2016

Advances in Earthquake Seismology and Geodynamic Modeling

FRIDAY – 11 MARCH 2016

- 10:00 – 10:45** **Greg Houseman, *University of Leeds, U.K***
The Faultlab Project: The Localization of Deformation Across The North Anatolian Fault Based on Geodetic and Seismic Measurements
- 10:45 – 11:15** **Fatih Bulut, *GeoForschungsZentrum, Potsdam, Germany***
Investigating the Earthquake Cycle Using Long Term Seismicity in NW Turkey
- 11:15 – 11:45** **Stathis Stiros, *University of Patras, Greece***
Finite Fault Modeling from Inversion of Geodetic Data: Approaches, Limitations, and Uncertainties
- 11:45 – 12:15** **Dimitrios Papanikolaou, *National and Kapodistrian University of Athens, Greece***
Active Tectonics and Seismic Hazard in the Oblique Opening Skyros Basin, Greece
- 12:15 – 13:30** **LUNCH BREAK**
- 13:30 – 14:15** **Frederik Tilmann, *GeoForschungsZentrum, Potsdam, Germany***
The 2015 Illapel Earthquake, central Chile –
A Type Case for a Characteristic Earthquake?
- 14:15 – 14:45** **Andrea Morelli, *Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna***
Crustal Structure and Seismic Shaking in Northern Italy
- 14:45 – 15:15** **Derek Schutt, *Colorado State University, U.S.A***
Moho Temperature and Mobile Lower Crust in the Western United States
- 15:15 – 15:45** **TEA-COFFEE-REFRESHMENTS**
- 15:45 – 16:15** **Russell Pysklywec, *University of Toronto, Canada***
Plate Tectonics Beyond Plate Boundaries:
The Role of Ancient Structures in Intraplate Orogenesis
- 16:15 – 16:45** **Oğuz Göğüş, *Istanbul Technical University, Turkey***
The Role of Lithospheric Removal in Geodynamic Evolution of the Mediterranean
- 16:45 – 17:15** **Sofia-Katerina Kufner, *GeoForschungsZentrum, Potsdam, Germany***
Deep India Meets Deep Asia: Lithospheric Indentation, Delamination and Break-Off Under Pamir and Hindu Kush (Central Asia)
- 17:15 – 17:45** **Miriam Christina Reiss, *Goethe Universitaet Frankfurt, Germany***
Seismic Anisotropy in the Lithosphere/Asthenosphere System Beneath S. Madagascar
- 17:45 – 18:15** **Mohammad Youssof, *University of Copenhagen, Denmark***
Seismic Imaging of Southern African Cratons
- 18:15 – 18:30** **CLOSING REMARKS**
-



JOACHIM
HERZ
STIFTUNG



Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

Humboldt Kolleg – 2016

Istanbul Technical University, Turkey

THE FACULTY OF MINES – İHSAN KETİN CONFERENCE HALL

10 – 12 MARCH 2016

Advances in Earthquake Seismology and Geodynamic Modeling

SATURDAY – 12 MARCH 2016 - Excursions

Scientific excursions to old City Centre of Istanbul to observe structural damages caused by earthquakes at the Topkapı Palace, the Grand Bazaar, and the Hagia Sophia Museum and surroundings provided that minimum number of researchers interested to take part.



Humboldt Kolleg – 2016

Istanbul Technical University, Turkey

THE FACULTY OF MINES – İHSAN KETİN CONFERENCE HALL

10 – 12 MARCH 2016

Advances in Earthquake Seismology and Geodynamic Modeling

POSTER SESSION

Judith Confal (Berlin Technical University, Germany)

Investigation of Mantle Kinematics beneath Hellenic-Subduction Zone by using Teleseismic Direct Shear Waves

Özcan Çakır (Çanakkale Onsekiz Mart University, Turkey)

A New Approach for Anisotropic Teleseismic Receiver Function Inversion

Yeşim Çubuk (Istanbul Technical University, Turkey)

Multi-Scale Full Waveform Inversion (FWI) in the Sea of Marmara Region (NW Turkey)

Tuna Eken (Istanbul Technical University, Turkey)

Significant Seismic Anisotropy Beneath Southern Tibet Inferred from Splitting of Direct S-Waves

Murat Erduran (Çanakkale Onsekiz Mart University, Turkey)

Seismic Anisotropy Beneath Anatolian Plate from SK(K)S Splitting

Oğuz H. Göğüş (Istanbul Technical University, Turkey)

Neotectonic Evolution of Anatolia: Comparison of Geodynamical Models and Observations

Laura Gregory (University of Leeds, U.K)

Millennial Strain Partitioning and Fault Interaction Revealed by ^{36}Cl Cosmogenic Nuclide Datasets from Abruzzo, Central Italy

T. Serkan Irmak (Kocaeli University, Kocaeli, Turkey)

Seismological and Structural Features of November 9th, 2011 ($M_w=5.6$) Edremit-Van Earthquake

Neslihan Ocakoğlu (Istanbul Technical University, Turkey)

Morphologic and Seismic Features in the Gulfs of Gökova, Marmaris and Fethiye (SW Anatolia)

Gültekin Topuz (Istanbul Technical University, Turkey)

East Anatolian Plateau Underlain Largely by a Continental Crust Rather than Oceanic Accretionary Complex

Ebru Şengül-Uluocak (Çanakkale Onsekiz Mart University, Turkey)

Present-Day Dynamic Topography in Eastern Anatolia

Ergin Ulutaş (Kocaeli University, Kocaeli, Turkey)

Observations and Numerical Simulation of 28 October 2012 Earthquake, M_w 7.8, and the Tsunami in Queen Charlotte Islands, British Columbia

Cengiz Yıldırım (Istanbul Technical University, Turkey)

Seismic History of the Cnidus Fault Zone:
Inferences from Cosmogenic ^{36}Cl Surface Exposure Dating of the Fault Scarp

Seda Yolsal-Çevikbilen (Istanbul Technical University, Turkey)

Finite-Fault Slip Distribution Model and Tsunami Simulation of the 16 September 2015 Earthquake, M_w 8.3, in Illapel (central Chile)