

**AN INTERNATIONAL WORKSHOP ON
STRUCTURAL GEOLOGY AND GLOBAL TECTONICS:
LINKS TO LITHOSPHERE EVOLUTION AND MANTLE GEODYNAMICS**

24-26 April 2019, Karadeniz Technical University, Trabzon, Turkey



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SCIENTIFIC PROGRAM

24 APRIL 2019, WEDNESDAY

Karadeniz Technical University, Prof. Dr. Osman Turan Culture and Congress Center

08:00 - 09:00 Registration			
09:00 - 09:30 OPENING CEREMONY			
Chair person: Prof. Dr. Necati TÜYSÜZ			
09:30 - 10:10	<i>The onset of plate tectonics</i>	Prof. Dr. Chris HAWKESWORTH	
10:10 - 10:50	<i>When did plate tectonics begin?</i>	Prof. Dr. T. Mark HARRISON	
10:50 - 11:20	<i>Does the Earth have a pulse? Constraints from the geological record and implications for tectonic processes</i>	Prof. Dr. Peter A. CAWOOD	
11:20 - 12:00	<i>Quantification of geological evidence for the operation of plate tectonics throughout the Archean; Records from Archean Paleo-Plate Boundaries</i>	Prof. Dr. Timothy KUSKY	
12:00 - 13:30 Lunch			
Chair person: Prof. Dr. Orhan TATAR			
13:30 - 14:00	<i>Subduction initiation, ophiolites, and the birth of island arcs</i>	Prof. Dr. Julian PEARCE	
14:00 - 14:30	<i>Metamorphism, supercontinents and global geodynamics</i>	Prof. Dr. Michael BROWN	
14:30 - 15:00	<i>Paleomagnetism and continental tectonics: A celebration of contributions mixed with challenges and limitations</i>	Prof. Dr. John GEISSMAN	
15:00 - 15:30 Coffee / tea break			
Chair person: Prof. Dr. Cüneyt ŞEN			
15:30 - 16:10	<i>Structure of the cratonic lithosphere and plate tectonics</i>	Prof. Dr. Irina ARTEMIEVA	
16:10 - 16:50	<i>Orogeny and mantle geodynamics</i>	Prof. Dr. Claudio FACCENNA	
16:50 - 17:20	<i>Pacific type orogeny and orogenic belts</i>	Prof. Dr. Inna SAFONOVA	
17:20 - 17:50	<i>Operation of plate tectonics throughout the Archean: Evidence from Greenland</i>	Prof. Dr. Ali POLAT	
19:00 Cocktail			

25 APRIL 2019, THURSDAY

Karadeniz Technical University, Prof. Dr. Osman Turan Culture and Congress Center

Chair person: Prof. Dr. Osman PARLAK

09:00 - 09:30	<i>Blueschists, eclogites and the evolution of plate tectonics</i>	Prof. Dr. Michael BROWN	
09:30 - 10:00	<i>From continental subduction to orogenic collapse: Tracing the evolution of orogenic belts using igneous geochemistry</i>	Prof. Dr. Julian PEARCE	
10:00 - 10:30 Coffee / tea break			
10:30 - 11:10	<i>The SW Indian Ridge, the Marion rise, and remelting Gondwana</i>	Prof. Dr. Henry J.B. DICK	
11:10 - 11:50	<i>Isotopic and trace element data from the granites and estimate of paleo-crustal thickness</i>	Prof. Dr. Donald J. DePAOLO	
12:00 - 13:30 Lunch			
Chair person: Prof. Dr. Nilgün GÜLEÇ			
13:30 - 14:10	<i>Heat producing elements in the continental lithosphere and testing models of second continents</i>	Prof. Dr. William McDONOUGH	
14:10 - 14:50	<i>Fission track thermochronology, continental extension and the breakup of continents in global tectonics</i>	Prof. Dr. Andrew J.W. GLEADOW	
14:50 - 15:30	<i>The Late Cenozoic exhumation history of the Himalaya: Insights from (U-Th)/He thermochronometry</i>	Prof. Dr. Kip HODGES	
15:30 - 16:00 Coffee / tea break			
Chair person: Dr. Mustafa SARIBUDAK			
16:00 - 16:30	<i>Structural inheritance in orogenic belts</i>	Prof. Dr. Robert W.H. BUTLER	
16:30 - 17:00	<i>Basin formation and mantle processes</i>	Prof. Dr. Hans THYBO	
17:00 - 17:40	<i>Sedimentary basins of the Baikal rift zone and Cenozoic intracontinental tectonics</i>	Prof. Dr. Sergey KRIVAGONOV	
17:40 - 18:10	<i>Forecasting the propagation paths of rock fractures</i>	Prof. Dr. Agust GUDMUNDSSON	
19:00 Dinner			

26 APRIL 2019, FRIDAY

Karadeniz Technical University, Prof. Dr. Osman Turan Culture and Congress Center

Chair person: Prof. Dr. Irina ARTEMIEVA

09:00 - 09:40	<i>Continental crust formed in continental collision zones</i>	Prof. Dr. Di-Cheng ZHU	
09:40 - 10:10	<i>Continental crustal volume, thickness and area, and their geodynamic implications</i>	Prof. Dr. Peter A. CAWOOD	
10:10 - 10:40 Coffee / tea break			
10:40 - 11:10	<i>Tectonic erosion of Pacific type convergent margins</i>	Prof. Dr. Inna SAFONOVA	
11:10 - 11:40	<i>Construction of subcontinental lithospheric mantle at convergent plate margins since the Paleoproterozoic: Geochemical evidence from British Columbia, Canada</i>	Prof. Dr. Ali POLAT	
11:40 - 12:10	<i>Rifting as part of the Wilson cycle</i>	Prof. Dr. Hans THYBO	
12:10 - 13:30 Lunch			
Chair person: Prof. Dr. Erdin BOZKURT			
13:30 - 14:00	<i>Magnetic fabrics of geologic materials and applications in continental tectonics</i>	Prof. Dr. John W. GEISSMAN	
14:00 - 14:40	<i>The use of foliations in structural geology: Problems and promises</i>	Prof. Dr. Cees W. PASSCHIER	
14:40 - 15:10	<i>Statistical physics of fracture networks and fault zones</i>	Prof. Dr. Agust GUDMUNDSSON	
15:10 - 15:40 Coffee / tea break			
Chair person: Prof. Dr. Ali POLAT			
15:40 - 16:10	<i>How surface processes can modulate deformation in thrust belts</i>	Prof. Dr. Robert W.H. BUTLER	
16:10 - 16:50	<i>Fault-controlled fluid flow and the formation of sediment-hosted mineral deposits</i>	Prof. Dr. John WALSH	
16:50 - 17:20	<i>Reliability of detrital zircon in provenance studies: A case from the Menderes Massif, Western Turkey</i>	Prof. Dr. Erdin BOZKURT	
17:20 - 17:50	<i>A parochial view of continental arc construction: What we think we know about the Eastern Pontides arc</i>	Dr. Francis O. DUDAS	
17:50 CLOSING CEREMONY			