BHP Billiton is a leading global resources company.

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Headquartered in Melbourne, BHP Billiton has a global presence through the ownership and operation of assets diversified by commodity, geography and market. Our unique portfolio provides unrivalled technical and technological opportunities for our geoscientists to add shareholder value from exploration to extraction. This ensures that we continue to meet the changing needs of our customers and the resources demand of emerging economies at every stage of their growth.

We are proud to supply the resources needed to support global economic growth and development. We are committed to making a broader contribution through our social investments which aim to deliver lasting economic and social benefits for the communities where we operate.
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<th>Sunday</th>
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<tr>
<td><strong>Student Mentoring Activities</strong>&lt;br&gt;3:00pm – 5:00pm</td>
<td><strong>8:30am – 10:00am</strong>&lt;br&gt;&lt;b&gt;Plenary Session&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
<td><strong>8:30am – 10:00am</strong>&lt;br&gt;&lt;b&gt;Technical Sessions&lt;/b&gt;&lt;br&gt;Main Meeting Hall&lt;br&gt;Parallel Meeting Hall</td>
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<td><strong>Presidential Address; Opening Remarks</strong>&lt;br&gt;5:00pm – 6:00pm Main Meeting Hall</td>
<td><strong>10:00am – 10:30am</strong>&lt;br&gt;&lt;b&gt;Coffee Break and Posters&lt;/b&gt;&lt;br&gt;Lower Level</td>
<td><strong>10:00am – 10:30am</strong>&lt;br&gt;&lt;b&gt;Coffee Break and Posters&lt;/b&gt;&lt;br&gt;Lower Level</td>
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<td><strong>Welcome Reception</strong>&lt;br&gt;6:00pm – 9:00pm Outdoors, Sheraton Çeşme Hotel</td>
<td><strong>10:30am – 12:00pm</strong>&lt;br&gt;&lt;b&gt;Plenary Session&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
<td><strong>10:30am – 12:00pm</strong>&lt;br&gt;&lt;b&gt;Technical Sessions&lt;/b&gt;&lt;br&gt;Main Meeting Hall&lt;br&gt;Parallel Meeting Hall</td>
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<td><strong>REGISTRATION</strong>&lt;br&gt;Saturday: 1:00pm – 8:00pm&lt;br&gt;Sunday: 12:00pm – 8:00pm&lt;br&gt;Monday: 7:30am – 5:00pm&lt;br&gt;Tuesday: 8:00am – 5:00pm&lt;br&gt;Wednesday: 8:00am – 3:30pm</td>
<td><strong>12:00pm – 1:30pm</strong>&lt;br&gt;&lt;b&gt;Lunch and Posters&lt;/b&gt;&lt;br&gt;Lower Level</td>
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<td><strong>EXHIBITS and POSTERS</strong>&lt;br&gt;Sunday: 6:00pm – 8:00pm&lt;br&gt;Monday: 9:30am – 6:30pm&lt;br&gt;Tuesday: 9:30am – 6:30pm&lt;br&gt;Wednesday: 9:30am – 3:30pm</td>
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<td><strong>1:30pm – 3:00pm</strong>&lt;br&gt;&lt;b&gt;Plenary and Technical Sessions&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
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<td><strong>SPEAKER PREPARATION</strong>&lt;br&gt;Speaker Ready Room&lt;br&gt;Off the Main Meeting Hall</td>
<td><strong>3:00pm – 3:30pm</strong>&lt;br&gt;&lt;b&gt;Coffee Break and Posters&lt;/b&gt;&lt;br&gt;Lower Level</td>
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<td><strong>WIFI ACCESS</strong>&lt;br&gt;Password Available at Registration</td>
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<td><strong>3:30pm – 5:00pm</strong>&lt;br&gt;&lt;b&gt;Poster Session&lt;/b&gt;&lt;br&gt;Lower Level</td>
<td><strong>3:30pm – 4:30pm</strong>&lt;br&gt;&lt;b&gt;Technical Session and Invited Commentary&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
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<td><strong>CONFERENCE PROCEEDINGS</strong>&lt;br&gt;Attendees will have received an e-mailed link to a Dropbox containing pdf files of Conference Abstracts, slide presentations, and posters. If you are registered for the Conference and have not received that e-mail, please contact <a href="mailto:JeffDoyle@segweb.org">JeffDoyle@segweb.org</a>.</td>
<td><strong>4:00pm – 5:00pm</strong>&lt;br&gt;&lt;b&gt;SEG Awards Student Presentation Prizes&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
<td><strong>4:00pm – 5:00pm</strong>&lt;br&gt;&lt;b&gt;SEG Awards&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
<td><strong>4:35pm – 5:00pm</strong>&lt;br&gt;&lt;b&gt;Panel and Open Discussion&lt;/b&gt;&lt;br&gt;Main Meeting Hall</td>
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<td><strong>5:00pm – 6:00pm</strong>&lt;br&gt;&lt;b&gt;Reception&lt;/b&gt;&lt;br&gt;Lower Level</td>
<td><strong>5:00pm – 6:00pm</strong>&lt;br&gt;&lt;b&gt;Reception&lt;/b&gt;&lt;br&gt;Lower Level</td>
<td>Followed by&lt;br&gt;&lt;b&gt;Closing Remarks&lt;/b&gt;</td>
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All sessions and social events are held at the Sheraton Çeşme Hotel, Resort, and Spa, unless otherwise noted. Technical Sessions are in the meeting rooms in the Arkhe Convention Hall. Posters, Exhibitors, and Lunch/Coffee/Reception breaks are on the lower level. See the floor plan on the inside back cover of this program.

For updates, go online to www.seg2016.org
Welcome to SEG-MJD 2016 and to Çeşme, Turkey!

This year, the SEG Conference, *Tethyan Tectonics and Metallogeny*, is jointly hosted by the Society of Economic Geologists and Maden Jeologları Derneği (MJD). On behalf of the Organizing Committee, it is our pleasure and privilege to extend to you a warm welcome to Çeşme. This conference promises to be one of the most exciting and rewarding that the Society has organized, given its location and focus on the Tethyan metallogenic belt, and the extension of this theme and its underpinning of geology and tectonics to many terranes worldwide.

The technical sessions will provide a very full program of topics covering all aspects of metallogenesis, mineral exploration, and mining, with international keynote speakers for each theme. Technical talks will be supplemented by posters that cover a variety of topics in economic geology that are the focus of current research. Pre- and post-conference field trips are complemented by guest activities that will allow participants the opportunity to explore this beautiful and culturally diverse country.

We take this opportunity to warmly express our gratitude to all our sponsors, listed in this program, who have contributed to making this an unforgettable experience by ensuring the attendance of first-rate speakers and a diverse group of students from all corners of the globe. The participation of students has been an important focus of the conference and students will make up a significant proportion of the conference attendees as a direct result of strong support from sponsors. Many of these sponsors are also exhibitors, creating a setting for professional networking and the renewal of old acquaintances.

We trust that you will enjoy this major technical and social event as well as the culture, cuisine, and hospitality for which Turkey is famous.

*Mesut Soylu, Chairman, SEG 2016 Organizing Committee*

*Brian G. Hoal, Executive Director, Society of Economic Geologists*
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30 Thank you, Sponsors

Inside Back cover Conference Center floor plan

Conference Information*

Organizing Committee Members
• Conference Chairman: Mesut Soylu, Mineral Consultancy
• Brian Hoal, Executive Director, Society of Economic Geologists
• Conference Vice-Chair and Sponsorship: Steve Enders, Eurasian Minerals
• Technical Program: İlkay Kuşcu, Muğla Sitki Koçman University
• Field Trips: Bayram Artun, Teck Resources Ltd.
• Conference Publication Editor: Jeremy Richards, University of Alberta
• Student Programs: Cengiz Demirci, Asia Minor Mining
• Short Courses: Richard Tosdal, Consultant
• Administration/Logistics: Arda Arcasoy, Consultant
• Social Events: Mehmet Deveci, Consultant
• Secretary/Students: Alison Cronk, Society of Economic Geologists

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E-mail: seg@segweb.org
Website: www.segweb.org

Conference Manager/Exhibits/Registration
ZED Event Management and Consultancy
seg2016@zed.com.tr
Tel. +90.312.219 57 00 /ext. 393

*For registration, exhibit, and speaker ready room hours, as well as an overview of schedules, please see the front inside cover of this program. An Exhibit Booth floor plan is located inside the back cover. All events, except where noted, will be held at the Sheraton Çeşme Hotel. For updates, please go to www.seg2016.org.
SEG Awardees

Please join us for the SEG Awards Ceremony on Tuesday, September 27, 2016, from 4:00 to 5:00 p.m. in the Arkhe Convention Hall, Sheraton Çeşme Hotel.

SEG R.A.F. Penrose Gold Medal for 2015
Richard H. Sillitoe
Consultant, United Kingdom

SEG Silver Medal for 2015
Jeremy P. Richards
University of Alberta, Canada

SEG Ralph W. Marsden Award for 2015
Stephen E. Kesler
University of Michigan, USA

SEG Waldemar Lindgren Award for 2015
Zoltan Zajacz
University of Toronto, Canada

Brian J. Skinner Award for 2015
Celestine Mercer
University of Oregon, USA

SEG Distinguished Lecturer for 2016
John F.H. Thompson
Consultant, Canada, and Cornell University, USA

SEG International Exchange Lecturer for 2016
Murray W. Hitzman
Colorado School of Mines, USA

SEG Thayer Lindsley Visiting Lecturer for 2016
Jeremy P. Richards
University of Alberta, Canada

SEG Regional Vice President Lecturer for 2016
César E. Aguirre
Consultant, Peru

Pre-Conference Program

Sunday, September 25, 2016
Sheraton Çeşme Hotel

Student Reception
3:00 p.m.
Student Mentoring Forum
3:30 p.m.–5:00 p.m.

Student Mentoring Forum
Hosted by

SEG Presidential Address: Bob Foster; Opening Remarks
5:00 p.m.–6:00 p.m.

Forum Panel

David Bickford, V.P. and General Manager, Eldorado Gold Corp., Turkey
Francisco Crignola, Superintendent for Copper Exploration, BHP Billiton, Chile
Stephen Enders, Director and COO, Eurasian Minerals, Inc.
Bob Foster, SEG President 2016, Consultant
Brian Hoal, Executive Director, Society of Economic Geologists
Jason Odette, Principal Exploration Geologist, BHP Billiton, USA

Welcome Reception
Outdoors, Sheraton Çeşme Hotel
6:00 p.m.–9:00 p.m.

Pre-Conference Field Trip

Biga Peninsula: September 20–24
Au-Cu-Mo-Pb-Zn Deposits
Field Trip Organizer: Nuri Ceyhan
Technical Program

Talks for which the presenting author is a student can be identified by an asterisk (*) that follows the title. Names of invited speakers are highlighted. If the presenter is not the first author or if two speakers will present, speaker names are underlined. Posters can be viewed during all breaks.

Day 1: Monday, September 26, 2016

Main Meeting Hall

Introductory Plenary Talks:
Tethyan Tectonics and Metallogeny
  Chairs: Mesut Soylu and Bob Foster
  Tethyan Orogens in Eurasia: Where Do They Fit in the Structure of the Continent and in the World of Metallic Ores? 8:30 am A.M. Celal Şengör

Tethyan Tectonomagmatic Processes and Metallogeny 9:15 am Jeremy P. Richards, SEG Thayer Lindsley Lecturer

Break 10:00 AM

Plenary Session

Overview of Exploration in the Tethyan 10:30 am Richard Schodde

Changing World—Changing Exploration 11:15 am John F.H. Thompson, SEG Distinguished Lecturer

Lunch 12:00 PM

Two Concurrent Sessions:
Main and Parallel Meeting Halls

Session 1a: Tethyan Tectonics and Metallogeny
  Chairs: István Márton and Cam McCuaig
  KEYNOTE: Western Tethyan Metallogeny in the Mediterranean Realm 1:30 pm Ferenc Molnár

Session 2a: Tools for Research and Exploration
  Chairs: Lawrence Meinert and Stephen Kesler
  KEYNOTE: Zircon Chemistry as a Pathfinder for Porphyry Cu ± Mo ± Au Systems 1:30 pm Yongjun Lu, Robert R. Loucks, Marco Fiorentini, T. Campbell McCuaig, Noreen J. Evans, Zhiming Yang, Zengqian Hou, Chris L. Kirkland, Luis A. Parra-Avila, and Alan Kobussen
Tracking Magmatic Input into Fe Skarn and Ore Formation: Elba Island, Tuscan Metallogenic Province, Italy .................................................. 2:00 pm
Kalin Kouzmanov, Andrea Dini, Carlos Arbiol, Natalia Karadima, Nuria Bach, Luca Caricchi, and Markus Wällé

Geochemical and Quartz Mineralogical Vectors to Epithermal Ore in Lithocaps in the TV Tower District, Biga Peninsula, Turkey, and Kassiteres-Sapes District, Greece .................................................. 2:20 pm
Thomas Bissig, Thomas Monecke, Elizabeth Ann Holley, Graham Leroux, Panagiotis Voudouris, and Aleksandar Mišković

Spectral Analyzes for Hydrothermal Alteration Mapping of Porphyry Type Deposits in Southern Jabal-e-Barez Region, Southern Part of Kerman Copper Belt, Iran .................................................. 2:40 pm
Seyyed Jabber Yousefi, Hojatollah Ranjbar, David Lentz, Saeed Alirezaei, and Sara Dargahi

BREAK 3:00 PM

Two Concurrent Sessions: Main and Parallel Meeting Halls

Session 1b: Tethyan Tectonics and Metallogeny
Chairs: Kalin Kouzmanov and Nurullah Hanilçi

Reconstructing the Tethys* .................................................................. 3:30 pm
Nurbike G. Sağdıç, Nalan Lom, Semih Can Ülgen, and A.M.C. Şengör

Space and Time Evolution of Ore Deposits in the Eastern Mediterranean Region During the Last 100 Myrs:
A Matter of Subduction Dynamics .................................................................. 4:00 pm
Armel Menant, Laurent Jolivet, Laurent Guillou Frottier, Johann Tuduri, Christelle Loiselet, Guillaume Bertrand, Pietro Sternai, and Taras Gerya

Fertile Magmatism from the Northern Part of the Central Srednogorie Segment of the Late Cretaceous Apuseni-Banat-Timok-Srednogorie Magmatic/Metallogenic Belt .................................................................. 4:20 pm
Stoyan Todorov Georgiev, Raya Raicheva, Peter Marchev, Irena Peytcheva, Elitsa Stefanova, Albrecht Von Quadt, and Ianko Gerdjikov

Geologic Setting and Tectonic Evolution of Porphyry Cu-Au, Polymetallic Replacement, and Sedimentary Rock-Hosted Au Deposits in the Northwest Timok Magmatic Complex, Serbia ........................................ 4:40 pm
Richard Tosdal, Matias Knaak, Istvan Márton, Van Der Toorn Justin, Hasson Sean, Dragana Davidovic, Ivan Strmbanovic, Mladen Zdravkovic, and Jelena Ivanovic

Session 2b: Exploration and Ore Deposits of Iran
Chairs: Saeed Saadat and Peter Leaman

Geophysical Signature of the Bafq Iron-Oxide-Apatite Deposits in Central Iran: Implications for Exploration .................................................................. 3:40 pm
Adam Wooldridge, Reza Ravasan, Jon Andrew, Jude King, Gavin Doyle, Ian Basso, Farzad Mahdavi, and Hartwig Frimmel

Structural Interpretation of New High-Resolution Aeromagnetic and Radiometric Data in Central Iran .................................................................. 4:00 pm
Ian James Basson, Reza Ravasan, Farzad Mahdavi, Yeganeh Hemmati, Mohammad Sabzehparvar, Mehdi Masoodi, Adam Wooldridge, Jon Andrew, Gavin Doyle, and Jude King

Combining Airborne Geophysical Data with Available Geology and Geochemistry to Identify Prospective Areas for Pb-Zn Mineralisation in Central Iran .................................................................. 4:20 pm
Reza Ravasan, Adam Wooldridge, Jon Andrew, Hartwig Frimmel, Gavin Doyle, Ian Basso, and Farzad Mahdavi

Regional Integrated Structural and Alteration Analysis of Magnetic and Infrared Remote Sensing Data from the Kerman Belt, Iran .................................................................. 4:40 pm
Anna Fonseca, Aleksandar Mišković, James Siddorn, Sarah Monoury, and Mana Rahimi

RECEPTION 5:00 PM
Day 2: Tuesday, September 27, 2016

Two Concurrent Sessions:
Main and Parallel Meeting Halls

Session 3a: Tethyan Tectonics and Metallogeny
Chairs: Vasilios Melfos and Vertrees Canby

Constraining Contrasting Styles of Magmatism and Metal Endowment along the Maronia
Magmatic Corridor, NE Greece* .................................. 8:30 am
Rebecca J. Perkins, Frances J. Cooper, Jonathan Naden, and Daniel J. Condon

Magmatic and Metallogenic Framework of Au-Cu Porphyry and Polymetallic Carbonate-Hosted Replacement Deposits of the Kassandra Mining District, Northern Greece* .................................. 8:50 am
Chris R. Siron, John F.H. Thompson, Tim Baker, Richard Friedman, Pavlos Tsitsanas, Sally Russell, Scott Randall, and Jim Mortensen

Post-Subduction Porphyry and Epithermal Gold Systems and Associated Magmatism of the Miocene Anatolian Metallogenic Belt, Turkey* ... 9:10 am
Fabien Rabayrol, Aleksandar Mišković, and Craig J.R. Hart

KEYNOTE: Metallogeny of the Lesser Caucasus: From Arc Construction to Post-Collision Evolution ........................................ 9:30 am
Robert Moritz

Session 4a: Tethyan Ore Deposits and Exploration
Chairs: Huseyin Yilmaz and Stephen Enders

Discovery of the Öksüt Million-Ounce High-Sulfidation Gold Deposit, Turkey .................. 8:30 am
Bahri Yildiz, Richard Sillitoe, Robert Foster, David Hall, and Malcolm Stallman

Öksüt Gold Project; from Grassroots Discovery to Reserve and Forward to Mine Developments
Mustafa Cihan, Deniz Can Serçe, and Semih Bekarslan

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A New Geological Model for the Chelopech Au-Cu Deposit in Bulgaria: Exploring a Maar-Diatreme System within an Intrusive Environment ................. 8:50 am
Istvan Marton, Yaroslav Dintchev, Mariana Trifonova, Neli Hadzhieva, Miglena Grigorova, Aneta Aleksieva, Georgi Ivanov, Slaviša Milinkovic, Alexandru Szakács, Mathias Knaak, Kuncho Kunchev, and Richard Gosse

Crustal Extension and Its Relationship to Porphyry Cu-Au and Epithermal Au Mineralization in the Biga Peninsula, NW Turkey.......................... 9:10 am
Matías G. Sánchez, Ken R. McClay, and Adrian King

The Source and Transport of PGEs in Tethyan Porphyry Deposits—Bi-Te-Se Melts as a Collector Mechanism for PGEs in the Skouries Cu-Au Deposit, Greece* ........................................ 9:30 am
Katie McFall, Stephen Roberts, John Naden, Paul Lusty, Adrian Boyce, and Damon Teagle

Hydrothermal Evolution of the Çöpler Porphyry-Epithermal Au Deposit, Erzincan Province, Central Eastern Turkey ........................................ 9:45 am
Ali Imer, Jeremy P. Richards, and Karlis Muehlenbach

BREAK 10:00 AM

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General manager exploration
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RioTinto
Two Concurrent Sessions: Main and Parallel Meeting Halls

Session 3b: Tethyan Tectonics and Metallogeny
Chairs: Irena Peytcheva and Adrian King

New Re-Os Molybdenite Ages for Porphyry-Type Prospects from the Eastern Pontides Paleo-Magmatic Arc, Turkey ..............................................10:30 am
Okan Delibas, Robert Moritz, and David Selby

Tracking Magmatic-Hydrothermal Cycles from Subduction-Related to Post-Subduction Settings over 30 m.y. in the Meghri-Ordubad Pluton, Southern Armenia, Lesser Caucasus*.........................10:50 am
Herve Rezeau, Robert Moritz, Jorn Frederik Wotzlaw, Samvel Hovakimyan, Rodrik Tayan, and Alexey Ulianov

Eocene Subduction to Oligo-Miocene Post-Collisional Tectonic and Metallogenic Evolution of the Southernmost Lesser Caucasus, Armenia: Palaeostress Field Reconstruction and Structural Controls of Major Porphyry and Epithermal Deposits*.............................................11:10 am
Samvel Hovakimyan, Robert Moritz, Rodrik Tayan, Rafael Melkonyan, Marianna Harutyunyan, and Arshavir Hovhannisyan

Tethyan Tectonic and Metallogenic History of Iran and Neighboring Areas ...........................................11:30 am
Ali Sholeh and Jeremy P. Richards

Session 4b: Tethyan Ore Deposits and Exploration
Chairs: Firuz Alizade and Miodrag Banjesevic

Reservoir Minerals: 12 Years of Exploration Targeting and Discovery in the Balkan Sector of the Tethyan Metallogenic Belt........................................10:30 am
Timothy Fletcher, Miodrag Banjesevic, Aleksandar Obrenovic, Vojislav Mrdja, Zeljko Sofronijevic, Dusan Bjelotomic, Daniela Bombol, Simon Ingram, and Duncan Large

Eric Jensen and Mesut Soylu

Rank Statistical Analysis of Gold Endowment in Terranes of Differing Exploration Maturity: Selected Examples from Turkey and Southern Africa ........................................11:10 am
John Paul Hunt and Ozcan Yigit

The Geology of the Kişladağ Porphyry Gold Deposit, Turkey .................................................................11:30 am
Timothy Baker, David Bickford, Stephen Juras, Peter Lewis, Yucel Oztas, Kika Ross, Ahmet Tukac, and Fabien Rabayrol

Exploration Overview of the Sayacık and Kişladağ Gold Porphyries, Western Anatolia Volcanic Province, Turkey
David Bickford, Ahmet Tukaç, Yücel Öztas, and Tim Baker

LUNCH 12:00 PM

Two Concurrent Sessions: Main and Parallel Meeting Halls

Session 5: Tethyan Tectonics and Metallogeny
Chairs: Douglas Kirwin and Peter Lewis

Fluid-Fluxed Melting and Mixed Magma Sources: The Origin of Post-Collisional Porphyry Cu Deposits in Eastern Gangdese Belt, Southern Tibet ............................................1:30 pm
Rui Wang, Roberto F. Weinberg, William J. Collins, and Jeremy P. Richards

Generation of Post-Collisional Porphyry Copper Deposits in Southern Tibet Triggered by Subduction of the Indian Continental Plate ........1:50 pm
Zhiming Yang, Richard Goldfarb, and Zhaoshan Chang

A Genetic Linkage Between Subduction- and Collision-Related Porphyry Cu Deposits in Continental Collision Zones ..................2:10 pm
Zengqian Hou, Zhiming Yang, Yongjun Lu, and Anthony Kemp
Day 3: Wednesday, September 28, 2016
Two Concurrent Sessions: Main and Parallel Meeting Halls

Session 7: Exploration, Discovery and Development in the Tethyan

**Chairs: David Hall and Richard Sillitoe**

**Relationship Between Porphyry Copper Systems, Crustal Preservation Levels, and Amount of Exploration in Magmatic Belts of the Central Tethys Region** ................................................................. 8:30 am
Lukas Zürcher, Jane M. Hammarstrom, John C. Mars, Stephen D. Ludington, and Michael L. Zientek

**Timok Cu-Au District, Serbia: A Brief Review of Recent Exploration and Discovery** .............................. 9:00 am
Dejan I. Koželj, Vertrees M. Canby, and Leon Z. Naftali

**Geology, Discovery and Development of the Ilovica Porphyry Copper-Gold Deposit, Macedonia** ........ 9:30 am
Dimitar L. Dimitrov and Patrick Forward

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Session 8: Tethyan Sedimentary Basins and Supergene Environments

**Chairs: Maria Boni and Richard Herrington**

**Lateritic Nickel-Cobalt and Bauxite Deposits of the (Western) Tethyan and Peri-Tethyan Belt** ........... 8:30 am
Richard Herrington, Nicola Mondillo, Maria Boni, Robert Thorne, and Metin Tavlan

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SEG Awards Ceremony and Student Poster Presentations ............................................. 4:00 pm

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RECEPTION 5:00 PM

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Wednesday 9:00–11:30 am

Tethyan Belt Trona and Borate Deposits: An Overview.................................9:00 am
Cengiz Demirci

The Sources of Cretaceous Karst Bauxites in Southern Italy: A Review ................9:30 am
Maria Boni, Giuseppina Balassone, and Nicola Mondillo

BREAK 10:00 AM

Two Concurrent Sessions: Main and Parallel Meeting Halls

Main Meeting Hall

The Amulsar “drive-by” Discovery, Armenia; We Had to Be There for a Reason? ........10:30 am
T. J. Coughlin, R. J. Holcombe, and N. H. S. Oliver

Anatomical Similarities and Differences Between Spatially Associated Porphyry Copper-Gold Deposits at Reko Diq, Pakistan ..................11:00 am
Abdul Razique, Richard Tosdal, and Farhad Bouzari

Discovery of the Jiama Skarn-Porphyry Cu-Mo Deposit, Tibet ......................11:30 am
Ying Lijuan, Tang Juxing, Greg Hall, and Zheng Wenbao

Parallel Meeting Hall

Sr and Nd Isotopic and Elemental Evidence for the Sources of B-As-Li Sediment-Hosted Deposits of West Turkey: Exploration Implications ........10:30 am
Duncan Anderson and Charles Moon

Chemical Evolution of Continental Basement Brines—the Relation of Evaporites with Metal-Bearing Hydrothermal Fluids in the Tethyan Belt* ......................................10:50 am
Benjamin Florian Walter, Mathias Burisch, and Gregor Markl

Strata-Bound, Zn-Pb Mineralization, Tethyan Metallogenic Province, Hakkari, Turkey ..........11:10 am
Nurullah Hanilçi, Hüseyin Öztürk, David A. Banks, and Hayrettin Koral

Wednesday 11:30 am–5:00 pm

Tethyan Salt Diapir-Related Mississippi Valley-Type Pb-Zn Deposits of Tunisia and Eastern Algeria Atlasic Province .......................11:30 am
Salah Bouhlel, David Leach, and Hechmi Garnit

LUNCH 12:00 PM

Plenary Session: Comparative Tectonics and Metallogeny

Chairs: Celal Şengör and Richard Sillitoe

Mineralization in a Neoproterozoic Accretionary Orogen: Insights from the Arabian-Nubian Shield .................................................. 1:30 pm
Peter R. Johnson

Tectonics and Metallogeny of the Central Asian Orogenic Supercollage: A Product of Interplay Between the Tethyan and Pacific Oceans ....2:00 pm
Alexander Yakubchuk

Tectonic Triggers for Porphyry Copper Mineralization: The Central Andean Case ..........2:30 pm
Constantino Mpodozis

BREAK 3:00 PM

Growth and Metallogeny of the North American Cordillera: A Contrast with the Tethysides 3:30 pm
Richard J. Goldfarb, Craig J. R. Hart, and Jeremy P. Richards

Tectonic and Metallogenic Differences within the Tethyan Belt .................................................. 4:00 pm
Jeremy P. Richards

INVITED COMMENTARY.................................................. 4:15 pm
A. M. Celal Şengör

INVITED COMMENTARY.................................................. 4:25 pm
Richard H. Sillitoe

Open Discussion with Panel of Speakers and Chairs........................................... 4:35 pm
Followed by Closing Remarks
**Post-Conference Field Trip**

Balkans: Tour of Greece  September 29–October 3
and Bulgaria with a Mix of Porphyry-Epithermal Deposits
and Recent Discoveries
Field Trip Leaders: Panagiotis Voudouris, Chris Siron, and István Márton

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**Posters**

Posters will be on display during regular conference hours on the lower level of the venue.

Titles and authors of posters are listed below. Posters for which the senior author is a student can be identified by an asterisk (*) following the poster number.

For schedule updates, please go to www.seg2016.org.

**P 001**  
Review of the Geology of Porphyry Ore Deposits in the Tethyan Orogenic Belt—a Case Study of the Bangpu Mo-Cu Porphyry Ore Deposits, Tibet, China  
Hafizullah Abba Ahmed, Hafizullah Abba Ahmed, Lianxun Wang, Mukhtar Habib, and Mohammed M. Abdallsamed Ishag

**P 002**  
Mineralogy and Geochemistry of Hydrothermal Alteration Zones in the Sungun Porphyry Cu-Mo Deposit, Northwestern Iran, Tethyan Metallogenic Belt: Footprints for Porphyry Copper Exploration  
Farhang Aliyari, Ali Abedini, Maryam Pirgharebaghi, and Hou Zengqian

**P 003**  
Geology and Geochemistry of Subvolcanic Rocks and Faulting in the Roshtkhar Prospecting Area, Northwest of Sangan Mine, Lut Block, NE Iran: Analysis of Controls on Mineralization  
Elahe Alizadeh, Gholamreza Ghadami, Dariush Esmaeily, and David Lentz

**P 004**  
Evaluation of Surface Soil Geochemical Data and Statistical Modeling of Akarca Fula Tepe Low Sulfdation Epithermal Au-Ag Mineralization (Bursa), Turkey  
Derya Bal and Mesut Soylu

**P 005**  
Hydrothermal and Tectonic Processes Key to the Origin of the Efemçukuru Au Deposit, Western Turkey  
David Banks, Nurullah Hanilci, Gulcan Bozkaya, Fatih Ozbas, and Nadir Arslan

**P 006**  
A Case Study of Alteration Mapping and Targeting on a Regional Scale from Satellite Spectral Data: An Example from the Iran-Pakistan Sectors of the Tethyan Belt  
Robert Beeson and David Gamble
P 007* Mineralogical Similarities Between Modern Sea-
floor Chimneys from Brothers Volcano, Kermadec
Arc, and Eastern Pontide (NE Turkey) Paleo-
chimney Fragments
Heidi Berkenbosch, Cornel De Ronde,
J. Bruce Gemmell, Andrew McNeill, Chris Ryan,
and Daryl Howard

P 008* Geochemical and Geochronological Character-
ization of the Early-Middle Eocene Magmatism
and Related Epithermal Systems of the Eastern
Pontides, Turkey
Mustafa Erde Bilir and Ilkay Kuşçu

P 009 The Bongarà Zn-Nonsulfides District in
Northern Peru: Mineralogical and Geochemical
Characteristics
Giuseppe Arfè, Maria Bonì, Nicola Mondillo,
Giuseppina Balassone, and Tommaso Di Palma

P 010 High Sulfidation Epithermal Au and Porphyry
Cu-Au Mineralization at the Karaayı Target,
Biga Peninsula, Northwestern Turkey
Hakan Boran, Ender Özyaydın, Tolga Incekaraoğlu,
Ali Sevimli, Alper Büyüksolak, Moira Tracey Smith,
William Adamas Lepore, April Barrios, Ken Raabe,
Graham Leroux, and Katherina Ross

P 011* Zonation and Macroscopic Mineralogy of
Pampano Skarn, Peru
Ivan Eliud Brañes, Carlos Joel Rodriguez,
Roger Feliciano Pino, and Juan Carlos Salva

P 012* Tracing Fluid Migration Pathways in the Root
Zone Below Unconformity-Related Hydrothermal
Veins: Insights from Trace Element Systematics of
Individual Fluid Inclusions
Mathias Burisch, Benjamin F. Walter,
Markus Wölle, and Gregor Markl

P 013* Hydrothermal Fluid Provenance and Evolution
in the Epithermal Polymetallic Deposit of
Colquijirca: Insights from In Situ Oxygen Isotope
Analyses and Fluid Inclusions in Quartz
Vincent Casanova, Kalin Kouzmanov, Anne Sophie
Bouvier, Lukas Baumgartner, and Lluís Fontboté

P 014* Metallogeny of Gold Deposits in the Republic of
Guinea (Conakry), West Africa
Mamady Cissé, Xinhiao Lu, and Mariama
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P 015 Climate Change, Groundwater Flow, and Super-
genesis Enrichment in the Central Andes: Insights
from (U-Th)/He Hematite Geochronology
Frances Cooper, Byron Adams, Jon Blundy,
Ken Farley, Ryan McKeon, and Alberto Ruggiero

P 016 IODP Drilling of Brothers Volcano, Kermadec Arc,
New Zealand: Volatile Flux, Metal Transport, and
Conditions for the Formation of Life
Cornel E.J. De Ronde

P 017* Assessing Geological Controls for Iron Oxide
Copper-Gold Mineralization in the Punta del
Cobre District, Chile
Irene Del Real, John Francis Hugh Thompson,
and Jorge Carriedo

P 018 The Geology and Mineralogy of Akarca Gold-
Silver Deposit, Bursa, Turkey
Cengiz Demirci

P 019* The Origins of Miocene Ore-Bearing and Ore-
Barren Porphyry Rocks in Jiama, South Tibet:
Implications for Porphyry Cu Mineralization in
Continental Collisional Zone
Jilin Duan, Yiming Gao, and Juxing Tang

P 020* Strata-Bound Cu-(Ag) Deposits in the Jurassic La
Quinta Formation, Northern Colombia
Andrés Felipe González Duran, Juan Carlos Molano
Mendoza, and Janeth Sepúlveda

P 021* Geochemical and Petrographic Analysis of a
Copper Sediment-Hosted Mineralization at
Chiquinquirá Village, Boyacá Department,
Colombia
Luis Felipe Mahecha Escobar and
Carlos Augusto Zuluaga Castrillón

P 022 Genesis of Subduction-Related Late Cretaceous
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Rhodopes): Constraints from Isotopic (Sr, Nd,
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Petyo Filipov, Peter Marchev, Irena Peytcheva,
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P 023* Mineral Occurrences of the Eastern Greater
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Nona Gagnidze and Avtandil Okrostsvardze
P 024* Magmatic Sulfides in Quaternary Ecuadorian Arc Magmas
Ariadni Afroditi Georgatou and Massimo Chiaradia

P 025* Geological Framework and Evolution of the Saindak Porphyry Cu-Au Deposit, Chagai District, Balochistan, SW Pakistan
Abdul Ghafrar, Xue Chuan Dong, Xiang Kun, Xie Zhi Peng, and Inayat Ullah

P 026* Structural Controls on Kestanelik Epithermal Vein System, Lapseki, NW Turkey: Implications for Permeability Enhancement Processes During Epithermal Gold Mineralization
Nilay Gülyüz, Zoe Shipton, Ilkay Kuşçu, Richard Lord, Nureddin Kaymakcı, and David Gladwell

P 027* Four Exploration Stages at the Dalli Porphyry Cu-Au Deposit, Central Iran
Hooshang Asadi Haroni, Yongjun Lu, William Xavier Chávez, Jr., and Maral Malekian

P 028* The Characteristics of Fenitization of the Syenites at Bengge Gold Deposit, Northwestern Yunnan, China
Lili Jiang, Zengqian Hou, Chuandong Xue, Xuanxue Mo, and Kun Xiang

P 029 Geology of Iran and Discussion on Exploration and Investment Potential
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P 030* Trace Elements Vectors in Pyrite and Molybdenite from Elatsite PCD, Bulgaria
Ivan Dimitrov Krumov, Kamen Bogdanov Bogdanov, and Dimitrina Angelova Dimitrova

P 031 Preliminary Findings on Formation of the Gökçedogan Region Cu-Zn-Pb Base Metal Mineralization, Kargi-Çorum, Turkey
Mustafa Kumral, Nurullah Hanilçi, Cihan Yalçın, and Mustafa Selman Aydoğan

P 032* Compositional Characteristics, Petrogenesis, and Metallogenic Significance of Biotite from Grano-diorite in the Laba Porphyry Mo-Polymetallic Deposit, Northwestern Yunnan, SW China
Xiang Kun, Xue Chuan Dong, Jiang Li Li, Li Shi Lei, Abdul Ghafrar, and Sher Sultan Baig

P 033* Preliminary Findings on Epithermal Au Mineralization of Bayındır, Kaman, Kırşehir, Turkey
Gülay Sezerer Kuru, Mahmut Özdoğan, and Zühal Arslan

P 034* Characteristics of Ore-Forming Fluid of Nuri Cu-W-Mo Multi-Metal Deposit in Southeast Gangdese, Tibet, China
Xiaowen Liu, Keqiang Hua, and Congjun Huang

P 035* Geochemical Characteristics of Magnetites from the Lala IOCG Deposit of Huili Sichuan, China, and Their Genetic Research
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Daniel Marinov, Fernando Barra, and Firuz Alizade

P 037 Quantitative Ore Mineralogy and Variations in Vein Textures in the World-Class Waihi Epithermal Au-Ag District, New Zealand
Jeffrey L. Mauk, Sarah J. Fyfe, Erin G. Skinner, Andrew H. Menzies, Heather Lowers, and Alan Koenig

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P 040* Biotite Geochemical Characteristics as Vectors to Barren and Mineralized Intrusions at the Sungun Porphyry Copper Deposit, Northwestern Iran
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P 045 Gold Metallogenesis and Detecting Areas of High Potential Gold Mineralization Using Large Spatio-Temporal Datasets, Northwest Iran, Western Sector of Tethyan Metallogenic Belt
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P 046* Controls on Polymetallic Vein Deposits and Porphyry Deposits in the Phum Syarung-Dok Yong Fault Corridor, Ratanakiri Province, Cambodia
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P 069* The Geology, Geochemistry, and Comparison of Two Distinct Gold Deposits in West Junggar, Xinjiang, China: Implication for Mechanism of Gold Precipitation
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Themes:
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- Giant Deposits of Asia
- New Discoveries in Asia
- Magmatic Ni-Cu-PGE
- Orogenic Au—Tectonic Setting and Genesis
- REE Deposits—Geology, Mineralogy, and Genesis
- Porphyry Provinces of the Western Pacific
- Skarn Deposits—Metal Content and Zonation
- Sediment-hosted Base and Precious Metal Deposits—Genetic Controls on Mineralization
- New Analytical Techniques and Equipment Applied to Ore Deposits
- Ore Deposits of Tibet

Field Trips in China and Beyond:
- Jiaodong Gold Deposits
- Guizhou Carlin-like Deposits
- Yangtze River Fe-Cu-Au Porphyries/Skarns
- Yunnan Metallogeny—Base Metals, Au, and IOCG
- Sn-W of Southeast China
- Jinchuan Ni-Cu-PGE Ores
- Xinjiang Metallogeny
- Porphyry/Epithermal Deposits of NE China
- Other excursions in Japan, Mongolia, Russia, Indonesia, & Kazakhstan

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- Exploration and Ore Genesis: Base Metals, Carlin, Orogenic Au, Porphyry, Epithermal, Magmatic Ni-Cu, & VMS Deposits
- Techniques: Fluid Inclusions, LA-ICP-MS, Modern Geochronology, & Mineral Spectroscopy