BHP Billiton is proud to support ‘Whistler 2013: Geoscience for Discovery’ (SEG 2013), hosted by the Society of Economic Geologists and the SEG Canada Foundation.

BHP Billiton is the world’s leading diversified resources company. With a world-class portfolio of large, long-life, low-cost, expandable, upstream assets, excellence in geoscience is critical to our exploration and resource development activities.

People are the foundation of our business and underpin our success. With a global team of over 100,000 employees and contractors located at more than 100 locations across the world, we offer unparalleled opportunities to work across disciplines, geographies and cultures. We strive for excellence and are committed to working in ways that are true to Our BHP Billiton Charter values of Sustainability, Integrity, Respect, Simplicity, Accountability and Performance. This ensures our people start each day with a sense of purpose and end the day with a sense of accomplishment.

www.bhpbilliton.com
**REGISTRATION**
Grand Foyer, Upper Level
Tuesday: 14:00 – 19:00
Wednesday: 07:00 – 16:30
Thursday: 07:30 – 16:30
Friday: 07:30 – 17:30

**EXHIBITION**
Ballrooms B/C & Grand Foyer, Upper Level (Exhibit Hall)
Tuesday: 17:30 – 19:00
Wednesday: 09:00 – 18:00
Thursday: 09:00 – 18:00
Friday: 09:00 – 16:10

*Visit BHP Billiton’s Exhibit for a specialty coffee.

**POSTER VIEWING**
Exhibit Hall, Upper Level
Wednesday: 12:45 – 13:30
16:30 – 18:00
Thursday: 12:45 – 13:30
16:30 – 18:00
Friday: 12:45 – 13:30
14:50 – 16:10

**SPEAKER READY ROOM**
Tantalus, Lower Level
Tuesday: 16:00 – 19:00
Wednesday: 07:00 – 17:30
Thursday: 07:30 – 17:30
Friday: 07:30 – 14:00

**PHONE APP**
Phone App: SEG2013

**INTERNET CAFE**
Valley Foyer, Lower Level
Wednesday–Friday: 07:15 – 18:00

**WIFI**
Network: SEG Network
Password: whistlerccc

All sessions are held at the Whistler Conference Centre unless noted otherwise.

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**Tuesday**

**Welcome Reception**
17:30 – 19:00
Exhibit Hall, Upper Level

**Wednesday**

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<th>Refreshments</th>
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**Welcome and Sessions O1**
Tectonics, Terranes and Metallogeny – The Geoscience Building Blocks
Session Chairs: Maurice Colpron & John Chapman
07:45 – 11:50 | Ballroom A, Upper Level
See page 11 for session titles and speakers

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**Thursday**

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**Sessions O4**
Metallogenic Provinces and Belts – Regional and Deposit Controls
Session Chairs: Ross Sherlock & Paul Dobak
08:10 – 11:50 | Ballroom A, Upper Level
See page 16 for session titles and speakers

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**Sessions O7**
Exploration, Discovery and Deposits
Session Chairs: Dean McDonald & Diane Nicholson
08:10 – 11:50 | Ballroom A, Upper Level
See page 22 for session titles and speakers

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**Sessions O4**
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Session Chairs: Ross Sherlock & Paul Dobak
08:10 – 11:50 | Ballroom A, Upper Level
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**Sessions O5**
Western North America
Session Chairs: Ron Britten & Ian Graham
13:30 – 16:30 | Ballroom A, Upper Level
See page 18 for session titles and speakers

**Sessions O6**
Continental Margins: Zn-Pb-Ag, U
Session Chairs: Sarah Gleson & Andrew Davies
13:30 – 16:30 | Rainbow Theatre, Lower Level
See page 19 for session titles and speakers

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**Sessions O8**
Metallogenic Provinces and Belts – Regional and Deposit Controls
Session Chairs: Sarah Gleson & Andrew Davies
13:30 – 16:30 | Rainbow Theatre, Lower Level
See page 23 for session titles and speakers

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See page 18 for session titles and speakers

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See page 19 for session titles and speakers

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**Sessions O7**
Exploration, Discovery and Deposits
Session Chairs: Tim Beale & John Barr
13:30 – 17:35 | Ballroom A, Upper Level
See page 23 for session titles and speakers

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**Sessions O8**
Metallogenic Provinces and Belts – Regional and Deposit Controls
Session Chairs: Sarah Gleson & Andrew Davies
13:30 – 16:30 | Rainbow Theatre, Lower Level
See page 19 for session titles and speakers

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**SEG Awards Reception & Dinner**
19:00 – 22:00 | Ballroom A, Upper Level

**SEG Special Event**
18:30 – 22:00 | Brewhouse (See map on pg 1)

**Farewell Social Event & SEG Student Awards**
17:35 – 20:00 | Garibaldi Lift Company
(See map on pg 1)
1. Whistler Conference Centre  
4010 Whistler Way  
604 932 3928

2. Delta Whistler Village Suites  
4308 Main Street  
604 905 3987

3. Hilton Whistler Resort & Spa  
4050 Whistler Way  
604 932 1982

4. Westin Whistler Resort & Spa  
4090 Whistler Way  
866 412 2864

5. Tantalus Resort Lodge  
4200 Whistler Way  
604 932 4146

6. Brewhouse  
4355 Blackcomb Way  
604 905 2739

7. Garibaldi Lift Co. Bar & Grill  
4165 Springs Lane  
604 905 2220

8. Police/Fire Station  
4315 Blackcomb Way  
604 932 3044

9. Medical Clinic  
4380 Lorimer Rd  
604 932 3977

10. Whistler Visitor Centre  
4230 Gateway Drive  
604 935 3357
Welcome!

We enthusiastically welcome you to the SEG / SEG Canada Foundation 2013 Conference in Whistler!

The concept for this Conference has deep roots dating back to the 1998 “Pathways to Discovery” Conference in Vancouver. This was the first and only time that the SEG and AMEBC (formerly the BC and Yukon Chamber of Mines) collaborated, the result being an exceptional mix of research approaches for an industry-savvy and international audience, thus stimulating a new dialogue on mineral exploration strategies and techniques.

Whistler 2013 continues this tradition with its “Geoscience for Discovery” theme which emphasizes the importance of tectonic, regional and district scale geological approaches to mineral exploration. Cordilleran regions in particular have benefited from an explosion of research and understanding of terrane concepts and orogenic processes which are the underpinnings of regional metallogeny and the first layer of knowledge required for exploration decision making.

This Conference brings together industry, university and geological survey researchers and professionals in the minerals sector to explore their passion for Cordilleran tectonics and metallogeny, with an emphasis on the northern Pacific Rim.

Our sincerest thanks go to our sponsors, who have been incredibly generous in ensuring the success of Whistler 2013. Because of their contributions, a large contingent of top international students in economic geology will participate in the Conference and many other students will benefit from ongoing programs run by the SEG and SEG Canada Foundation.

On behalf of the Organizing Committee and numerous volunteers, we welcome you to Whistler 2013 in the magnificent Canadian Cordillera.

—Gerry Carlson, Conference Co Chair, President, SEG Canada Foundation; Vice President Exploration, Pacific Ridge Exploration Ltd.

—Craig Hart, Conference Co Chair, Director, Mineral Deposit Research Unit, University of British Columbia

—Brian Hoal, Executive Director, Society of Economic Geologists
Thank You
Thank you to the Conference Executive Committee and the Conference Organizing Committee for planning Whistler 2013.

Conference Executive Committee
- Gerry Carlson, Conference Co Chair, President, SEG Canada Foundation; Vice President Exploration, Pacific Ridge Exploration Ltd.
- Craig Hart, Conference Co Chair, Director, Mineral Deposit Research Unit, University of British Columbia
- Brian Hoal, SEG Representative, Executive Director, Society of Economic Geologists
- John Thompson, Technical Program Chair, PetraScience Consultants Inc.
- Murray Hitzman, Technical Program Associate Chair, Charles F. Fogarty Professor of Economic Geology, Colorado School of Mines
- Ian Walton, Treasurer, Executive VP & CFO, Aurizon Mines Ltd.

Conference Organizing Committee
- Tim Beale, President, Iron Creek Capital Corporation
- Ron Britten, Vice President, First Point Minerals Corporation
- Maurice Colpron, Yukon Geological Survey
- Paul Dobak, Chief Geologist - North America, Barrick Gold Exploration Inc.
- Peter Lewis, Vice President, Exploration, Eldorado Gold Corporation
- Dan Marshall, Professor, Simon Fraser University
- Dean McDonald, Vice President, Exploration, Hecla Mining Company
- Steve Robertson, Vice President, Corporate Affairs, Imperial Metals Corporation
- Stephen Rowins, Chief Geologist & Executive Director, British Columbia Geological Survey
- Ross Sherlock, Explorations Manager, Gold Fields
- Kirstie Simpson, VP, Minerals Research, Geoscience BC

Whistler 2013 expresses its sincere appreciation to the many volunteers who have dedicated their time and support in helping host the Conference.

Contact SEG
7811 Shaffer Parkway, Littleton, CO, USA  80127-3732
T: +1 720 981 7882
E: seg@segweb.org
W: segweb.org

Contact SEG Canada Foundation
P.O. Box 48113, Bentall Centre, 595 Burrard Street
Vancouver, B.C., Canada  V7X 1N8
E: segcanadafoundation@gmail.com

Contact the Conference Organizer
Sea to Sky Meeting Management Inc.
Suite 206, 201 Bewicke Avenue
North Vancouver, B.C., Canada  V7M 3M7
T: +1 604 984 6448
E: seg2013@seatoskymeetings.com
W: seatoskymeetings.com
Conference Information

Internet Cafe
The Internet Cafe is located in the Valley Foyer, Lower Level. Six workstations are available for your use. Please limit your time on these computers if others are waiting. The Internet Cafe is open during the following hours:

- Wednesday: 07:15 – 18:00
- Thursday: 07:15 – 18:00
- Friday: 07:15 – 18:00

Networking Lounge
Garibaldi B on the Lower Level is available for informal meetings and networking. This is a quiet space where you can meet with other Conference participants throughout the Conference. The Networking Lounge is open during the following hours:

- Wednesday: 08:00 – 16:30
- Thursday: 08:10 – 15:30
- Friday: 08:10 – 17:30

Registration
The Registration Desk is located in the Grand Foyer, Upper Level and is open during the following hours:

- Tuesday: 14:00 – 19:00
- Wednesday: 07:00 – 16:30
- Thursday: 07:30 – 16:30
- Friday: 07:30 – 17:30

Speaker Ready Room
The Speaker Ready Room is located in the Tantalus Room, Lower Level and is open during the following hours:

- Tuesday: 16:00 – 19:00
- Wednesday: 07:00 – 17:30
- Thursday: 07:30 – 17:30
- Friday: 07:30 – 14:00

Speakers need to submit their presentation on a memory stick to the Speaker Ready Room the day prior to their presentation. Memory sticks should be clearly labelled with the name of the speaker and a contact number in Whistler.

Conference Evaluation Survey
We rely on your feedback to improve future SEG conferences. You will receive a link to an online evaluation survey via email following the Conference. Please take a few minutes to complete it.

Liability
The liability of Whistler 2013 organizers, for whatever legal reason, shall be limited to intent and gross negligence. The liability of commissioned service providers shall remain unaffected by this. Conference Participants take part in Whistler 2013 at their own risk. Oral agreements shall not be binding if they have not been confirmed in writing by SEG or its agents.

Name Badge
Your name badge is required for admission to all sessions and events.

Phone App
The Phone App will allow you to plan and build a personalized schedule for the Conference. Simply search for SEG2013 in your App store of choice.

Student Awards
Student Awards will be presented during the Farewell Social Event on Friday evening. Presentations and Posters presented by students will be eligible for an award.

Sponsored by:

WiFi Internet
Free WiFi internet is offered in the Exhibit Hall and Grand Foyer, Upper Level.

- Network: SEG Network
- Password: whistlercc
Pre-Conference Program
Friday, September 20 to Tuesday, September 24

Pre-Conference Field Trips

Alaska: Tour of advanced and historic gold deposits in eastern Alaska
September 20 – 24
Guides: Curt Freeman, Tom Bundtzen

Vancouver Island – Myra Falls:
Mine tour of Myra Falls with field stops to visit local outcrops of interest in Sicker Group volcanics
September 21 – 24
Guides: Rick Sawyer, Tyler Ruks

Pre-Conference Short Courses

Gold Deposits:
Their Structure and Setting
September 23 – 24
David Rhys, Panterra Geoservices Inc.

Sponsored by:

Understanding Alteration:
Use in Exploration and Development
September 23 – 24
Course Leaders:
Anne Thompson, PetraScience Consultants Inc.
John Thompson, PetraScience Consultants Inc.

Course Presenters:
Bruce Gemmell, Centre of Excellence in Ore Deposits (CODES), University of Tasmania
James Lang, Hunter Dickinson Inc.
Melissa Gregory, Mineral Deposit Research Unit, University of British Columbia
Andrew Davies, Teck Resources Limited

Sponsored by:

Exploration Geochemistry
September 23 – 24
Dave Heberlein, Heberlein Geoconsulting
Fred Blaine, ioGlobal
Pim VanGeffen, ioGlobal
Lynda Bloom, Analytical Solutions Ltd.
Barry Smee, Smee and Associates Consulting Ltd.
Chris Benn, Goldfields Canada
Colin Dunn, Colin Dunn Consulting Inc.
Peter Bradshaw, First Point Minerals Corp.

Exploration Geophysics
September 23 – 24
Peter Kowalczyk, Mira Geoscience
Nigel Phillips, Mira Geoscience
Tuesday

Welcome Reception  Exhibit Hall, Upper Level | 17:30 – 19:00

Conference Participants and their guests who have pre-registered are welcome to attend.

Sponsored by:

bhpbilliton

Wednesday

Notes: The Session # (e.g. O1.1) refers to the Abstract # online at seg2013.org.
Student presentations are indicated with an asterisk (*) next to the session number.

Refreshments  Exhibit Hall, Upper Level | 07:15 – 07:45

Introduction  Ballroom A, Upper Level | 07:45 – 08:10
& Welcome

Gerry Carlson, Conference Co Chair, President, SEG Canada Foundation;
Vice President Exploration, Pacific Ridge Exploration Ltd.

Craig Hart, Conference Co Chair, Director, Mineral Deposit Research Unit, University of British Columbia

Alex Christopher, Vice President, Exploration, Teck Resources Limited

John Thompson, Technical Program Chair, PetraScience Consultants Inc.

Sessions O1  Ballroom A, Upper Level | 08:10 – 10:00

Tectonics, Terranes and Metallogeny – The Geoscience Building Blocks

Session Chairs: Maurice Colpron, Yukon Geological Survey and John Chapman, Geological Survey of Canada (GSC)

Sponsored by:

Freeport-McMoRan Copper & Gold

08:10 – 08:40  O1.1
KEYNOTE: Large Igneous Provinces (LIPs) and Metallogeny
Richard Ernst, Carleton University, Canada

08:40 – 09:05  O1.2
Tectoids: From Columbia through Pangea to the Present
Alexander Yakubchuk, Orsu Metals Corporation, United Kingdom

Sessions O1 cont’d
**WEDNESDAY**  
09:05 – 12:00

09:05 – 09:30  
01.3  
**Tectonic and Metallogenic Styles of Late Mesozoic Orogenic Belts Along the North Asia Craton Margin (Eastern Russia and Mongolia)**  
Nikolay Goryachev, North East Interdisciplinary Scientific Research Institute FEB RAS, Russia

09:30 – 10:00  
01.4  
**Keynote: Tectonics and Metallogeny: The Cordillera of British Columbia, Yukon and Alaska**  
JoAnne Nelson, BC Geological Survey, Canada

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**Refreshment Break**  
Exhibit Hall, Upper Level | 10:00 – 10:30

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**Sponsored by:**  
RioTinto

**Sessions 01 (cont’d)**  
Ballroom A, Upper Level | 10:30 – 11:50

10:30 – 10:55  
01.5  
**Cretaceous to Tertiary Tectonic and Metallogenic Evolution of the Coast Belt in the Northern Cordillera**  
Steve Israel, Yukon Geological Survey, Canada

10:55 – 11:20  
01.6  
**Tectonic Evolution and Cretaceous Gold Metallogenesis in Southwestern Alaska – A Review**  
Garth Graham, US Geological Survey, USA

11:20 – 11:50  
01.7  
**KEYNOTE: Exploration – Evolving to Meet Changing Environments**  
Tom Albanese, Rio Tinto Exploration Pty Ltd, Australia

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**Poster Introduction**  
Ballroom A, Upper Level | 11:50 – 12:00

Chair: Dan Marshall, Simon Fraser University  
Co Chairs: Tim Baker, Eldorado Gold Corporation and Victoria Sterritt, Teck Resources Limited

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12:00 – 14:00  
**Lunch**  
Exhibit Hall, Upper Level | 12:00 – 12:45

**Sponsored by:**  
RioTinto

**Poster Viewing with Authors present**  
Exhibit Hall, Upper Level  
12:45 – 13:30

**Sponsored by:**  
Newcrest Mining Limited

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**Refreshment Break**

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**CONCURRENT SESSIONS: 02 or 03**  
13:30 – 16:30

**Sessions 02**  
Rainbow Theatre, Lower Level

**Russia – China – Mongolia**  
Session Chairs: Peter Lewis, Eldorado Gold Corporation and Nikolay Goryachev, North East Interdisciplinary Scientific Research Institute FEB RAS, Russia

**Sponsored by:**  
Eldorado Gold

13:30 – 14:00  
02.1  
**Construction of the Asian Continent and Evolution of Its Gold Provinces**  
Richard Goldfarb, US Geological Survey, USA

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Sessions 02 cont’d
WEDNESDAY 14:00 – 16:30

14:00 – 14:25
Tectonic and Metallogenic Development of Mongolia
Rodney Graham, Ogallal Exploration LLC, USA

14:25 – 14:50
The VMS Deposits of Rudny Altai
Konstantin Lobanov, Orsu Metals Corp., United Kingdom

15:10 – 15:40
KEYNOTE: Jurassic to Cretaceous Gold Metallogeny of Northeastern China
Gregory Collins, Eldorado Gold, China

15:40 – 16:05
Major Types and Time-space Distribution of Mesozoic Ore Deposits in South China and Their Geodynamic Setting
Jingwen Mao, Chinese Academy of Geological Sciences, China

16:05 – 16:30
The Jiaodong Gold District and the Importance of Magmatic Exploration Geochemistry in an Orogenic Setting
Stephanie Mills, Monash University, Australia

Sessions O3 Ballroom A, Upper Level

Arc Terranes: Cu-Mo-Au-Ag
Session Chairs: James Lang, Hunter Dickinson Inc. and Mike Roberts, Kiska Metals Corporation

13:30 – 14:00
KEYNOTE: Lithospheric Fertilization and Mineralization by Arc Magmas: Genetic Links and Secular Differences Between Porphyry Copper±Molybdenum±Gold and Iron Oxide-Copper-Gold Deposits
Jeremy Richards, University of Alberta, Canada

14:00 – 14:25
Volcano Tectonic Setting of World-class Alkaline Porphyry and Epithermal Au ± Cu Deposits of the SW Pacific
Anthony Harris, Newcrest Mining Ltd, Australia

14:25 – 14:50
Magmatic Evolution During Flattened Subduction and High-sulfidation Epithermal Ore Deposition: Quimsacocha Volcanic Center, Azuay Province, Ecuador
Peter MacDonald, Mineral Deposit Research Unit, University of British Columbia, Canada

15:10 – 22:00

15:10 – 15:40
KEYNOTE: Tectonomagmatic Controls on Porphyry Mineralization: Geochemical Evidence from the Black Mountain Porphyry System, Philippines
Pete Hollings, Lakehead University, Canada

15:40 – 16:05
Exploring for Porphyry and High Sulfdiation Epithermal Cu-Au Deposits beneath Lithocaps in the Philippines
Ingemar Arellano, Freeport McMoRan Exploration Corp., Philippines

16:05 – 16:30
Geology, Alteration, and Mineralisation of the Giant Wafi-Golpu Deposit, Morobe Province, Papua New Guinea
Marc Rinne, University of Tasmania, Australia

Poster Viewing with Authors present & Happy Hour Exhibit Hall, Upper Level 16:30 – 18:00

Happy Hour is complimentary for Conference Participants.

Sponsored by:

SEG Awards Reception & Dinner Ballroom A, Upper Level 19:00 – 22:00

The Awards Dinner is a ticketed event. Please bring your Awards Dinner ticket with you to the event for admission.

Sponsored by:
Thursday

Refreshments
Exhibit Hall, Upper Level | 07:15 – 08:10

Sessions 04
Ballroom A, Upper Level | 08:10 – 10:00

Metallogenic Provinces and Belts – Regional and Deposit Controls

Session Chairs: Ross Sherlock, Gold Fields and Paul Dobak, Barrick Gold Exploration Inc.

Sponsored by:

BARRICK
EXPLORATION

08:10 – 08:40

KEYNOTE: Cretaceous-Cenozoic Geological Setting of Carlin Deposits in Nevada: Constraints from Patterns of Regional Exhumation and Advective Heat Flow
Kenneth Hickey, Mineral Deposit Research Unit, University of British Columbia, Canada

08:40 – 09:05

From the Outside Looking In: Vectoring Fluid Flow in Carlin-type Gold Deposits Using Light Stable Isotopes
Jeremy Vaughan, Barrick Gold Corp., USA

09:05 – 09:30

Close Time-spatial Relationships among Diverse Quartz-adularia Au+Ag Veins, Quartz-alunite Au+Ag+Cu Deposits and Alteration Zones and Stratiform S° Deposits in Miocene Volcanic Fields, CA-NV, USA
Peter Vikre, US Geological Survey, USA

09:30 – 10:00

Claire Chamberlain, Teck Resources Limited, Chile

10:00 – 13:30

Refreshment Break
Exhibit Hall, Upper Level | 10:00 – 10:30

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Sessions 04 (cont’d)
Ballroom A, Upper Level | 10:30 – 11:50

10:30 – 10:55

Tectonic Preconditioning and the Formation of Giant Porphyry Deposits
Simon Richards, James Cook University, Australia

10:55 – 11:20

Metallogenic Provinces and Epochs of Mexico
Antoni Camprubi, Instituto de Geología, Universidad Nacional Autónoma de México, Mexico

11:20 – 11:50

The Silver Metallogeny of Mexico: Flotsam of the Perfect Tectonic Storm?
Peter Megaw, MAG Silver-IMDEC Inc., USA

Poster Introduction
Ballroom A, Upper Level | 11:50 – 12:00

Chair: Dan Marshall, Simon Fraser University
Co Chairs: Suzanne Paradis, Geological Survey Canada and Ben Whiting, Orko Silver

Lunch
Exhibit Hall, Upper Level | 12:00 – 12:45

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Poster Viewing with Authors present
Exhibit Hall, Upper Level 12:45 – 13:30
### Refreshment Break

The 05 and 06 Concurrent Sessions will have a refreshment break at 14:50, located in the Exhibit Hall, Upper Level.

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### CONCURRENT SESSIONS: 05 or 06 13:30 – 16:30

### Sessions 05  Ballroom A, Upper Level

#### Western North America

**Session Chairs:** Ron Britten, First Point Minerals Corporation and Ian Graham, Discovery Harbour Resources Corporation

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30 – 14:00</td>
<td>KEYNOTE: Metallogenic Framework for the White Gold and Dawson Range Districts of West-central Yukon and Eastern Alaska</td>
<td>Murray Allan, Mineral Deposit Research Unit, University of British Columbia, Canada</td>
</tr>
<tr>
<td>14:00 – 14:25</td>
<td>The Flame Discovery, Keno Hill District, Yukon</td>
<td>Alan McOnie, Alexco Resource Group, Canada</td>
</tr>
<tr>
<td>14:25 – 14:50</td>
<td>Porphyry Cu-Mo Exploration of the Hualapai Mountains, Northwest Arizona, USA</td>
<td>Kevin Meazell, University of Nevada, USA</td>
</tr>
<tr>
<td>15:10 – 15:40</td>
<td>Geology, Geochemistry and Age of Intrusion-Related Mineralisation in Eastern Mexico</td>
<td>Morgan Poloquin, Almaden Minerals Ltd., Canada</td>
</tr>
</tbody>
</table>

### Sessions O6  Rainbow Theatre, Lower Level

#### Continental Margins: Zn-Pb-Ag-Au, U

**Session Chairs:** Sarah Gleeson, University of Alberta and Andrew Davies, Teck Resources Limited

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>13:30 – 14:00</td>
<td>KEYNOTE: SEDEX Deposits in the Northern Cordillera: Where Are We in the Basin, and What Role Does Water Column Euxinia Really Play?</td>
<td>Sarah Gleeson, University of Alberta, Canada</td>
</tr>
<tr>
<td>14:00 – 14:25</td>
<td>Genesis and Structural Architecture of the CSA Cu-Ag Mine, Cobar, NSW, Australia</td>
<td>Roisin Kyne, University of Tasmania, Australia</td>
</tr>
<tr>
<td>14:25 – 14:50</td>
<td>Revised Geologic and Metallogenic View of the Carbonate-hosted Nanisivik Zinc District, Nunavut, Canada</td>
<td>Elizabeth Turner, Laurentian University, Canada</td>
</tr>
<tr>
<td>15:10 – 15:40</td>
<td>An Overview of the Structure, Stratigraphy and Zn-Pb-Ag Deposits of the Red Dog District, Northwestern Alaska</td>
<td>Scott Blevings, Teck Resources Limited, Canada</td>
</tr>
<tr>
<td>15:40 – 16:05</td>
<td>Sedimentary Rock Hosted Stratiform Copper-silver Mineralization: Timing, Fluid-flow and Deposit Genesis in the Redstone Copperbelt, Northwest Territories, Canada</td>
<td>Jack Milton, University of British Columbia, Canada</td>
</tr>
<tr>
<td>16:05 – 16:30</td>
<td>Carbonatites in Western North America – Occurrences, Metallogeny and Exploration Strategies</td>
<td>Leo Millonig, University of British Columbia, Canada</td>
</tr>
</tbody>
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**Poster Viewing with Authors present & Happy Hour**

Exhibit Hall, Upper Level  16:30 – 18:00

Happy Hour is complimentary for Conference Participants.

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FREEPORT-MCMORAN COPPER & GOLD
THURSDAY 17:30 – 22:00

BHP Billiton Student Networking Event
Garibaldi, Lower Level 17:30 – 19:00

Registered Student Conference Participants are welcome to attend.

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SEG Special Event
Brewhouse, 4355 Blackcomb Way (map on pg.1) 18:30 – 22:00

The SEG Special Event is a ticketed event. Please bring your SEG Special Event ticket with you to the event for admission.

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**Friday**

**Refreshments**
Exhibit Hall, Upper Level | 07:15 – 08:10

**Sessions 07**
Ballroom A, Upper Level | 08:10 – 10:00

**Exploration, Discovery and Deposits**
Session Chairs: Dean McDonald, Hecla Mining Company and Diane Nicholson, Hunter Dickinson Inc.

*Sponsored by:*

**Rio Tinto**

08:10 – 08:40

**KEYNOTE: Anglo American Exploration – A Decade of Discovery**
Graham Brown, SEG, United Kingdom

08:40 – 09:05

**The Brucejack High-grade Gold Project**
Warwick Board, Pretium Resources Inc., Canada

09:05 – 09:30

**Mapping the Hydrothermal Plume of Porphyry Cu Deposits Using Lithogeochemistry and SWIR Mineralogy**
Richard Tosdal, PicachoEx LLC, USA

09:30 – 10:00

**KEYNOTE: Goldrush – Discovery Details and Some Lessons Learned from the Latest Giant Gold Deposit Discovered in Nevada**
Kevin Creel, Barrick Gold Corp., Chile

**Refreshment Break**
Exhibit Hall, Upper Level | 10:00 – 10:30

**Sessions 07 (cont’d)**
Ballroom A, Upper Level | 10:30 – 12:00

10:30 – 10:55

**Metallogeny of the Megashear Gold Belt, Sonora, Mexico: An Emerging World-Class Orogenic Gold Province**
John-Mark Staude, Riverside Resources, Canada

10:55 – 11:20

**O7.6**

**Discovery and Geology of the Resolution Porphyry Cu-Mo Deposit, Arizona**
Hamish Martin, Resolution Copper Co., USA

11:20 – 11:50

**O7.7**

**KEYNOTE: Exploration and Discovery of the White, Coffee and QV Gold Deposits: Opening New Gold Districts in West-central Yukon**
Shawn Ryan, Ryanwood Exploration, Canada

**Poster Introduction**
Ballroom A, Upper Level | 11:50 – 12:00

Chair: Dan Marshall, Simon Fraser University
Co Chairs: Christa Sluggett, Geoscience BC and Murray Allen, Mineral Deposit Research Unit, University of British Columbia

**Lunch**
Exhibit Hall, Upper Level | 12:00 – 12:45

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**Poster Viewing with Authors present**
Exhibit Hall, Upper Level | 12:45 – 13:30

**Sessions 08**
Ballroom A, Upper Level | 13:30 – 14:00

**Exploration, Discovery and Deposits**
Session Chairs: Tim Beale, Iron Creek Capital Corporation and John Barr, Anglo American Exploration (Canada) Ltd.

*Sponsored by:*

**bhp billiton**

13:30 – 14:00

**O8.1**

**KEYNOTE: A Comparison of Carlin-type Deposits in Nevada and Yukon**
Greg Arehart, University of Nevada, Reno, USA

Sessions 08 cont’d
FRIDAY  14:00 – 20:00

14:00 – 14:25  
Use of Stable Isotopes in Mineral Exploration: 
Teaching an Old Dog New Tricks
Shaun Barker, University of Waikato, New Zealand

14:25 – 14:50  
Mineralization and Alteration of the Late Triassic Glacier Creek 
Cu-Zn VMS Deposit, Palmer Project, Alexander Terrane, Alaska
Nathan Steeves, University of Ottawa, Canada

Refreshment Break & Poster  Exhibit Hall, Upper Level 
Viewing with Authors present  14:50 – 16:10

Sessions 08 (cont’d)  Ballroom A, Upper Level | 16:10 – 17:35

16:10 – 16:40  
Geology and Exploration of the Blackwater Gold-Silver Deposit
Mark Petersen, New Gold Inc., USA

16:40 – 17:05  
Regional Metallogeny and Genesis of a New 
Deposit Type – Disseminated Awaruite (Ni-Fe Alloy) 
Mineralization Hosted in the Cache Creek Terrane
Ron Britten, First Point Minerals Corp., Canada

17:05 – 17:35  
KEYNOTE: Metallogenic and Jurisdictional Inequalities Around 
the Northern Pacific Rim: Implications for Discovery 
Richard Sillitoe, Consultant, United Kingdom

Farewell  Garibaldi Lift Co., 4165 Springs Lane (map on pg.1) 
Social Event  17:35 – 20:00

The Farewell Social Event is a ticketed event. Please bring your Farewell Social 
Event ticket with you to the event for admission.

The SEG Student Awards will be presented at this event.

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Post-Conference Program
Friday, September 27 to Thursday, October 3

Post-Conference Field Trips

Porphyry Systems of Central and Southern BC: Tour of Central BC porphyry deposits from Prince George to Princeton
Guides: Jim Logan, Tom Schroeter

September 27 –
October 2

Bralorne: One day tour of BC’s most prolific and recently reactivated gold mine
Guide: Matt Ball

September 28

Nevada – Carlin Trend: Tour of Northern Nevada with a mix of classic Carlin deposits and recent discoveries
Guides: Moira Smith, Dave Rhys, Marcus Johnston

September 28 –
October 3

Post-Conference Short Courses

Mineral Exploration Applications of Stable Isotopes
September 28
Garibaldi A, Lower Level
Shaun Barker, University of Waikato and MDRU-UBC
Larry Cathles, Cornell University
David Cooke, University of Tasmania
Kurt Kyser, Queens University
Greg Dipple, MDRU-UBC

Exploration Targeting Best Practice Using Geofacets
September 28
Garibaldi B, Lower Level
Peter Kowalczyk, Mira Geoscience
Dianne Mitchinson, Mira Geoscience
Clinton Smyth, Georeference Online Ltd

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Posters

Network with Poster Presenters and Conference Participants in an informal setting while perusing the Posters on display. Posters are only on display for one day each at the Conference.

**Location:** Exhibit Hall, Upper Level

**Hours**
- Wednesday: 12:45 – 13:30, 16:30 – 18:00
- Thursday: 12:45 – 13:30, 16:30 – 18:00
- Friday: 12:45 – 13:30, 14:50 – 16:10

**Digital Posters**
Posters are also available in digital format via the Digital Poster stations. The Digital Posters provide an opportunity to search posters by author or title and see all posters throughout the Conference if you miss a poster on the day it was displayed. Three Digital Poster stations are located in the Exhibit Hall (labelled DP-1, 2 & 3 on the Floor Plan).

**Poster Authors**
Set up of Posters will take place on the morning your Poster is on display between 07:15 and 07:45. If your Poster is scheduled to be on display on Wednesday, you may set up your Poster on Tuesday between 14:00 and 17:00.

Posters must be removed at the end of each day. Posters on display on Friday should be removed no later than 16:15. Any Poster not removed will be discarded.
Listing of Posters by Day

NOTES: The Reference Number for the poster indicates the day it is on display, and its poster board location.
P1 – Wednesday Posters; P2 – Thursday Posters; P3 – Friday Posters
Example: P1.01 = A poster presented on Wednesday, on Poster Board #1.

WEDNESDAY: POSTER SESSION P1
Exhibit Hall, Upper Level
12:45–13:30, 16:30–18:00

Chair: Dan Marshall, Simon Fraser University
Co Chairs: Tim Baker, Eldorado Gold Corporation and Victoria Sterritt, Teck Resources Limited

P1.01* Modern Stratiform Volcanogenic Ore Formation in the Atlantis II Deep – The Red Sea
Tea E. Laurila, University of Ottawa, Canada

P1.02* The Archean Coté Gold Deposit, Ontario, Canada: A Large Tonnage, Low-Grade Deposit Centred on a 2740 Ma Magmatic-Hydrothermal Diorite Breccia Complex
Laura R. Katz, Laurentian University, Canada

P1.03* Variations in Whole Rock and Mineral Chemistry around the VHMS Deposits of the Que-Hellyer Volcanics, Tasmania, Australia
Selina W. Wu, University of Tasmania, Australia

P1.04 Quartz Paragenesis at the Veladero Deposit, Argentina: New Insights into Lithocap Alteration in the High-Sulfidation Epithermal Environment
Elizabeth A. Holley, Colorado School of Mines, USA

P1.05* Stable Te Isotope Variability in Ore-forming Systems: Causes and Magnitude
Andrew P. Fornadel, Iowa State University, USA

P1.06* Major Ore Types of the Lalor Gold-Rich Massive Sulfide Deposit, Snow Lake, Manitoba
Shamus Duff, University of Ottawa, Canada

P1.07 Geochimetry and Geodynamic Setting of the 2.7 Ga Yilgarn Heterogeneous Plume and its Interaction with Continental Lithosphere: Evidence from Komatiitic-Basalt and Basalt Geochemistry of the Kambalda Sequence, Eastern Yilgarn Craton
Nuru M. Said, University of Western Australia, Australia

P1.08* Magma Fertility and Mineralization Potential based on Ferromagnesian Phase Compositions in Devonian Granites from New Brunswick, Canada: EPMA and Laser Ablation ICP-MS Composition Systematics
Zeinab Azadbakht, University of New Brunswick, Canada

P1.09* The Cosmos Volcanic Arc Succession and its Relation to Mineralized Komatites
Alexandra de Jou, Edinburgh University, United Kingdom

P1.10* A Geophysically Constrained Litho-structural Analysis of the Trans-Tanami Fault, Granites-Tanami Orogen, Western Australia
David B. Stevenson, Centre for Exploration Targeting, Australia

P1.11 Carbonatite Host REE Deposit Model: Mianning-Dechang Reel Belt in West Sichuan Province, China
Yuling Xie, University of Science and Technology Beijing, China

P1.12 Physical Transport and Localization of Magmatic Fe-Ni-Cu Sulfide Melts
Michael Lesher, Laurentian University, Canada

P1.13* Evolution of the Hydrothermal Alteration and Mineralization at the Giant Reko Diq Porphyry Cu-Au Deposit, District Chagai, Balochistan-Pakistan
Abdul Razique, Mineral Deposit Research Unit, University of British Columbia, Canada

P1.14 Trace Element Partitioning Between Gahnite, Garnet, and Biotite in Gahnite-Bearing Rocks: Implications for Metamorphic Processes and Exploration for Pb-Zn-Ag Mineralization
Joshua J. O’Brien, Iowa State University, USA

P1.15 Revealing the Tectonic Setting of the Formation of the Guelb el Foulet Cr Occurrence, Mauritania, with Major Element Chemistry
Erin E. Marsh, U.S. Geological Survey, USA

P1.16* Neoproterozoic Mo-U Mineralization in Pan-African Granites in Southwestern Cameroon
Confidence K. Mosoh, Laboratory of Petrology and Structural Geology, Faculty of Science, Department of Earth Sciences University of Yaounde I, Yaounde, Cameroon

P1.17 Spatial and Temporal Distributions and Tectonic Setting of Mesozoic Granite-related Copper Systems in SE China
Xiaofeng Li, Chinese Academy of Sciences, China

P1.18* Formation and Exhumation of the Mid-Jurassic Porphyry Copper Systems in Dexing, SE China: Insights from Geo-/Thermo-Chronological Studies
Xuan Liu, Institute of Geology and Geophysics, Chinese Academy of Sciences, China
P1.19 New Insights on West African Tectonics and Iron Mineralization
Based on Zircon U-Pb SHRIMP Geochronology and Structural Mapping
Bert De Waele, SRK Consulting, Australia

P1.20* Resolving the Timing of Fluid Flow within Metamorphosed Terranes: U-Pb Age Depth-Profiles of Zircon from the North Caribou Greenstone Belt, Canada
Colter J. Kelly, University of Ottawa, Canada

P1.21 The Izok Volcanic-hosted Massive Sulphide Deposit, Nunavut, Canada: A New Interpretation of the Rhyolitic Stratigraphy and Implications for Exploration
Kimberley Bailey, MMG Limited, Canada

P1.22* Tracing S and Fe Isotope Variations at the Hart Komatiite-hosted Ni-Deposit, Abitibi Greenstone Belt, Ontario, Canada
Russel S. Hiebert, University of Manitoba, Canada

P1.23 Kupol LSE Vein District, Russian Federation: Integration of Exploration Datasets to Understand Post-Mineral Disruption of the Vein-Alteration System
Peter S. Fischl, Kinross Gold Corp., Canada

P1.24 Ag-Pb-Bi Minerals of the Pingüino In-bearing Polymetallic Epithermal Deposit, Deseado Massif, Patagonia, Argentina
Sebastian M. Jovic, Instituto de Recursos Minerales - Universidad Nacional de La Plata – CONICET, Argentina

P1.25* Zonation and Paragenesis of Alteration and Mineralization in the Gecko Corridor, Tennant Creek Mineral Field, Northern Territory, Australia
Lauren Burley, EGRU, School of Earth and Environmental Sciences, James Cook University, Australia

P1.26* Lithogeochemistry and Sulfur Isotopic Composition of Hydrothermal Exhalites Associated with the Lemarchant Volcanogenic Massive Sulfide (VMS) Deposit, Tally Pond Belt, Central Newfoundland
Stefanie Lode, Memorial University Newfoundland, Canada

P1.27 Pre-Metamorphic Re-Os Isochron Ages from Low Concentration Au Rich Sulfides and Native Au From Obuasi, Navachab, and Geita, Africa
Ryan Mathur, Juniata College, USA

P1.28 The Porphyry Cu-Au Deposit at Kiseljak, Tulare District, Serbia
Dragan Dragic, Dunav Minerals, Serbia

P1.29* Mineralogical, Stable Isotope, and Fluid Inclusion Studies of the Oganchinskoe Au-Ag Epithermal Deposit, Kamchatka Peninsula, Far East of Russia
Daria Bukhanova, Kamchatka State University, Russia

P1.32* Integrated Studies on Collision-related Sharang Porphyry Mo Deposit in Tibet, China: Geology, Geochronology and Geochemistry
Junxing Zhao, Institute of Geology and Geophysics, Chinese Academy of Sciences, China

P1.34 Evaluation of Soil Gas Hydrocarbon (SGH Analysis of Lake Sediments for Mineral Exploration: A Case Study Over the “Ring of Fire” Deposit Area, Ontario, Canada
Richard Dyer, Ontario Geological Survey, Canada

P1.35 Late Variscan Magmatic Activity in Southern Daxinganling, China: Use of the Daitongshan Copper Deposit and Lamahanshan Polymetallic—Silver Deposit as Example
Zhenhua Zhou, Institute of Mineral Resources, Chinese Academy of Geological Sciences, China

P1.36* In situ LA-ICP-MS of Sulfide Minerals in VMS Deposits throughout the Bathurst Mining Camp, New Brunswick, Canada: Volatile Trace Element Concentrations and Distribution with Implications for their Syngenetic to Polyphase Metamorphic History
Azam Soltani Dehnavi, University of New Brunswick, Canada

P1.37* Exploring Organic Content as a Potential Vector for Gold Mineralization in the Ankerite Horizon at the Dome Mine, Timmins, Ontario, Canada
Neil R. Banerjee, Western University, Canada

P1.38 Copper Isotopic Vectors to Supergene Enrichment: Leached-cap Iron Oxides From the Quellaveco Porphyry Copper Deposit, Peru
Ryan Mathur, Anglo American, Chile

P1.40* Hydrothermal Fluid Evolution at the Lagunas Norte High-Sulfidation Au Deposit, Peru
Harry Hanneman, Colorado School of Mines, USA

P1.41* Structural Controls on the Formation of the El Limon Au Vein Associated to the Major Otu Shear Zone Fault System, Zaragoza - Antioquia, Colombia
Fabio A. Mendoza Villero, Universidad Nacional de Colombia, Colombia

P1.42 Isotope Systematics of the Hugo Dummett Cu-Au Porphyry Deposit (Oyu Tolgoi, Mongolia)
Reimar Seltmann, CERCAMS, Natural History Museum, United Kingdom

P1.43* The Yanque-Dolores Polymetallic District: A Key for Exploration in the Andahuaylas-Yauri Region (Cuzco, Peru)
Nicola Mondillo, Dipartimento Scienze della Terra, dell’Ambiente e delle Risorse, Italy
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**POSTERS**

**THURSDAY: POSTER SESSION P2**

Exhibit Hall, Upper Level  
12:45–13:30, 16:30–18:00

**Chair:** Dan Marshall, Simon Fraser University  
**Co Chairs:** Suzanne Paradis, Geological Survey Canada and Ben Whiting, Orko Silver

- **P2.01** Copper and REE-Th Metallogeny in Lemhi County, Idaho: Magmatism and Repeated Hydrothermal Activity along a Paleozoic Continental Margin  
  Virginia S. Gillerman, Idaho Geological Survey (University of Idaho), USA

- **P2.02** A New Sedimentary Rock-Hosted Gold Belt, Western Timok, Eastern Serbia  
  Richard Tosdal, PicachoEx LLC, USA

- **P2.03** The Juruena Gold Deposit, Northwestern Sector of the Alta Floresta Gold Province, (MT), Brazil: An Example of Paleoproterozoic Gold-Rich Porphyry System?  
  Andersson Acevedo Serrato, Universidade Estadual de Campinas, Brazil

- **P2.04** SEDEX Targeted Geoscience Initiative-4 – Developing New Exploration Concepts and Methodologies  
  Suzanne Paradis, NRCAN-Geological Survey of Canada, Canada

- **P2.05** A Mother Lode in the Silver State: Designation of the Argentoro Mineral Belt in Central and Western Nevada, USA  
  Marcus K. Johnston, Renaissance Gold Inc., USA

- **P2.06** Trace Fossils in the Red Dog Zn-Pb-Ag Deposits: A New Tool for Understanding the Timing Between Sedimentary Deposition, Diagenesis, and Mineralization  
  Merilie A. Reynolds, Department of Earth and Atmospheric Sciences, University of Alberta, Canada

- **P2.07** Carbonate-hosted Nonsulphide Zn-Pb Mineralization in Glaciated Regions of British Columbia, Canada  
  Suzanne Paradis, NRCAN-Geological Survey of Canada, Canada

- **P2.08** A Stratigraphic Framework for Late Cretaceous and Eocene Au-Ag Mineralization in Central British Columbia  
  Esther-Jeanne Bordet, University of British Columbia Mineral Deposit Research Unit, Canada

- **P2.09** Middle to Late Jurassic Metamorphic Fluid Source for Orogenic Gold in the Klondike-White Gold District, West-central Yukon, Canada  
  Reid Staples, Simon Fraser University, Canada

- **P2.10** Regional Metamorphism and Deformation of the North Caribou Belt (W. Superior Province) and the Relationship with the Lode Gold Mineralization at Musselwhite Mine  
  Émilie Gagnon, University of Ottawa, Canada

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P2.11  Geological, Geochemical, and Geophysical Characterization of the Pebble Porphyry Cu-Au-Mo Deposit, Southwestern Alaska, USA: Implications for Regional Exploration
Karen D. Kelley, U.S. Geological Survey, USA

P2.12* Characterization of Carbon in Archean Graphitic Argillites of the Abitibi Greenstone Belt, Timmins – Kirkland Lake, ON
Julia Pickering, University of Ottawa, Canada

P2.13  Geology and Age Relationships of Contrasting Styles of Cu-Mo-Au Porphyry Mineralization at the Woodjam Project, Horsefly, British Columbia
Amelia Rainbow, Gold Fields Canada, Canada

P2.14  Alkaline Ultramafic Rocks of Southeastern Illinois and Western Kentucky and their relation to REE Mineralization at Hicks Dome (IL) and Related Diatremes
Richard H. Fifarek, Southern Illinois University, USA

P2.15* Metallogeny and Gold Distribution of the Potato Hills Trend, Dublin Gulch, YT
Fraser A. Kirk, Memorial University, Canada

P2.16  Slab Breaks and Early Mesozoic Paired Alkaline Porphyry Deposit Belts (Cu-Au ± Ag-Pt-Pd-Mo) in the Canadian Cordillera
James M. Logan, BC Geological Survey, Canada

P2.17  Regional Metallogeny Patterns as Revealed by the Distribution of Heavy Mineral Concentrates and Silt Chemistry in Stream Sediments from the Mackenzie Mountains, NWT
Hendrik Falck, NWT Geoscience Office, Canada

P2.18* Post-Mineralization Exhumation, Weathering, Denudation, and Burial of Carlin-Type Au-Mineralization in the Cortez Hills District, Nevada: Implications for Depth of Formation
Trenton T. Newkirk, University of British Columbia, Canada

P2.19* The Chromite-Bearing Ultramafic-Mafic Complexes of the Vizcaíno Peninsula (Baja California Sur, Mexico): Re-Visited for Platinum-Group Minerals
Luis A. Jiménez Galindo, Facultad de Ingeniería, Universidad Nacional Autónoma de México, Mexico

P2.20* MacMillan Pass SEDEX Mineralization: The Geochemical Characterization of a Vent Complex
Joseph Magnall, University of Alberta, Canada

P2.21* The Potential for Ni-PGE Sulphide Mineralization in Palaeogene Lavas and Magma Conduits of Western Scotland, UK: A Noril’sk Analogue?
Hannah S. Hughes, Cardiff University, United Kingdom

P2.22* Orebody Characterization and the Structural Features that Govern Copper and Cobalt Mineralization in the Eastern Limb of the Lufilian Arc, Democratic Republic of Congo
Russell D. Johnson, University of the Witwatersrand, South Africa

P2.23  Geology of the Epithermal and Porphyry Mineralization in Taviche Mining District, Central Oaxaca, Mexico: Geochemical, Geochronological and Isotopic Contribution
Jesús Castro, Geoconsulting Ingenieros, SC, Mexico

P2.24  Chemical and Physical Variations in the Late Triassic Nicola Group, Quesnel Terrane, British Columbia and Implications for Porphyry Cu-Au Exploration
Thomas Bissig, Mineral Deposit Research Unit, Canada

P2.25  Deep Magnetic Imaging near the Pebble Porphyry Cu-Au-Mo Deposit in Southwestern Alaska: Implications for Exploration
Eric D. Anderson, US Geological Survey, USA

P2.26  Structural Control of Mineralization Recognized by Magnetite-Destructive Faults of the Western Yukon and Eastern Alaska Cordilleran Hinterland
Matias G. Sanchez, Mineral Deposit Research Unit, Canada

P2.27  Characterization of the Nonsulfide Zinc Prospects in the Reef Ridge-Type (Alaska): A Possible New Genetic Model?
Licia Santoro, Dipartimento Scienze della Terra, dell’Ambiente e delle Risorse, Università di Napoli Federico II, Italy

P2.28* The Source of Metals in Sedimentary Rock Hosted Stratiform Copper-Silver Deposits
Jack E. Milton, University of British Columbia, Canada

P2.29  Geology and Mineralogical Features of the Archean Au-Sb engenho D’água Mineralization, Rio Das Velhas Greenstone Belt, Quadrilátero Ferrífero, Brazil
Andreia C. Beleque, Universidade de São Paulo, Brazil

P2.30* Widespread Cretaceous Tectonism and Mineralization of the Northern Canadian Cordillera: Results From Zircon (U-Th)/He Thermochronology
David Schneider, University of Ottawa, Canada

P2.31  Mesozoic Tectonics and Geochronology of Orogenic Gold Metallogeny in California
Ryan D. Taylor, US Geological Survey, USA
**P2.33** Petrogenesis and Metal Budget of Eocene Igneous Rocks from Magmatic Systems Concurrent with Carlin-Type Gold Deposition in Nevada, USA: A Melt Inclusion Study
Celestine N. Mercer, U.S. Geological Survey, USA

**P2.34** Trace Element Characteristics and Pb Isotopic Compositions of Pyrite in the Howard’s Pass Zn-Pb District, Selwyn Basin, Yukon
Michael Gadd, Queen’s University, Canada

**P2.35** Geological Setting of Carlin-Type Gold Mineralization in the Rackla Belt of East-Central Yukon
David Moynihan, Yukon Geological Survey, Canada

**P2.36** Regional Exploration Using the Jurassic - Triassic Unconformity
Jeff W. Kyba, Regional Geologist, Canada

**P2.37** Polymetallic Veins at Port Radium, Great Bear Continental Arc, Northwest Canadian Shield: Genetic Implications of Age Constraints from the Diabase Swarms Emplaced at 1740 and 1590 Ma
Sunil Gandhi, Sunil Gandhi Consulting, Canada

**P2.38** Trends in Metal Enrichment in Framboids from a Metal-Rich and a Metal-Poor Estuary
Daniel D. Gregory, University of Tasmania, Australia

**P2.39** Effects of Oxidation and Weathering on Pyrite Chemistry, and Implications for Evaluating Regional Gold Fertility of the Selwyn Basin, Yukon
Patrick J. Sack, Yukon Geological Survey, Canada

**P2.40** Lateritization Neglected as a Gold Metallotect for the Past Fifteen Years: Bridging a Generational Knowledge Gap in Tropical Gold Geochemistry
Danae A. Voormeij, Mynah Exploration Inc., Canada

**P2.41** REE-Be-U-Enriched Fluorite Mineralization of the Round Top Laccolith, Sierra Blanca Peaks, Trans-Pecos Texas
L. Christine O’Neill, The University of Texas at Austin, USA

**P2.42** Magmatic-Hydrothermal Origin of the Carlin-Type Gold Deposits in Nadaleen Trend, Yukon
Morgan G. Li, Kinkarso Tech Ltd, Canada

**P2.43** Regional Mineral Exploration in Porphyry Systems Using ASTER: An Inexpensive and Reliable Methodology for Targeting Alunite
Doug L. Standart, University of Texas at El Paso, USA

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**FRIDAY:**
**POSTER SESSION P3**

Exhibit Hall, Upper Level
12:45–13:30, 14:50–16:10

Chair: Dan Marshall, Simon Fraser University
Co Chairs: Christa Slaggert, Geoscience BC and Murray Allen, Mineral Deposit Research Unit, University of British Columbia

**P3.01** The KSM Project – A Cluster of Porphyry Related, Deformed and Dismembered Au-Cu Deposits Displaying a Transition from Deep Porphyry to Shallow Vein Environments
William Threlkeld, Seabridge Gold Inc., Canada

**P3.02** Porphyry Indicator Minerals (PIMS) for Exploration of Concealed Deposits
Farhad Bouzari, Mineral Deposit Research Unit, Canada

**P3.03** Trace Element Analysis in Minerals via LA-ICP-MS: Insights Into Ore Genesis and Exploration
Brian G. Rusk, Western Washington University, USA

**P3.04** Columbite-Tantalite Series and Pyrochlore Supergroup Minerals – Potential Indicators in Exploration for Specialty Metal Deposits
Duncan A. Mackay, School of Earth and Ocean Sciences, University of Victoria, Canada

**P3.05** Geology of the Blackwater Au-Ag Epithermal Deposit, Central British Columbia
Erin Looby, MDRU, Canada

**P3.06** Pervasive Intermediate Argillic Alteration of the Red Chris Cu-Au Porphyry Deposit East Zone, British Columbia, Canada
Richard Tosdal, MDRU - University of British Columbia, Canada

**P3.07** Golden Meadows Project, Stibnite-Yellow Pine District, Idaho – An Emerging Giant
Christopher Dail, SEG Member, USA

**P3.08** Geology, Alteration and Mineralization of the Carlin-type Conrad Zone, Yukon
Michael J. Tucker, Mineral Deposits Research Unit - University of British Columbia, Canada

**P3.09** Geologic Framework and Metallogeny of the Whistler Porphyry Corridor, Alaskan Range, USA
Benjamin P. Hames, Mineral Deposit Research Unit, Canada

**P3.10** Sulfide Mineral, Fluid Inclusion, and Vein Characterization of the Estelle Property in the South-Central Alaska Range
Ember M. Flagg, University of Nevada, Las Vegas, USA
P3.11 Application of Visible-Near Infrared and Short Wave Infrared Spectroscopy to SEDEX Deposit Exploration in the Selwyn Basin, Yukon
Jan M. Peter, Geological Survey of Canada, Canada

P3.12 Au Mineralization at 3Ace, Southeast Yukon
Shaunaugh C. Whelan, University of Alberta, Canada

Shaun L. Barker, University of Waikato, New Zealand

P3.14 Structural Evolution of the Sisson W-Mo Deposit, New Brunswick, Canada
Robert J. Duncan, Mineral Deposit Research Unit, Canada

P3.15 Copper Isotope Systematics of the Red Chris and Casino Porphyry Deposits: Contrasting Response to Secondary Modification Processes in Two Cordilleran Mineral Systems
John B. Chapman, Geological Survey of Canada – Natural Resources Canada, Canada

P3.16 Platinum Group Element Mineralization in the DJ/DB Zone of the Turnagain Alaskan-type Ultramafic Intrusion, North-central British Columbia
Sarah Jackson-Brown, University of British Columbia, Canada

P3.17 New Technology for Imaging Key Vectoring Parameters Between Boreholes
Robert L. Gordon, Caracle Creek Consulting, Canada

P3.18 Rapid Mineralogical Analysis in Support of Mineral Exploration
Brian Curtiss, ASD – a PANalytical Company, USA

P3.19 The Kiyuk Lake Deposit — A New Style of Gold Mineralization in the Western Churchill Province of Southern Nunavut, Canada
Dennis Arne, CSA Global, Canada

P3.20 Application of Mass-Dependent and Mass-Independent S Isotopes in the Exploration for Magmatic Ni-Cu-PGE Deposits
Michael Lesher, Laurentian University, Canada

P3.21 A Practical Method to Enhance Discovery in Geochemical Data Using Statistically Derived Relative Values (R), and Geologically Conceived Discrimination Factors (D)
Colin L. Godwin, Dept Earth, Ocean & Atmospheric Sciences, University of British Columbia, Canada

P3.22 Geology of the Kwanika Porphyry Deposits in British Columbia with Emphasis on the Alteration, Sulfide and Geochemical Zonation Patterns
Myron Osatenko, Micron Geological, Canada

P3.23 Geology and Genesis of the Newton Bulk-Tonnage Au-Ag Deposit, Central British Columbia
Lindsay McClennaghan, Mineral Deposit Research Unit, University of British Columbia, Canada

P3.24 Geology and Discovery History of the Large “La Preciosa” Epithermal Silver-Gold Deposit in Durango, Mexico
Ben Whiting, Belcarra Group, Canada

P3.25 Maalinao-Caigutan-Biyog (MCB), a Very Young Porphyry-High Sulfidation Epithermal Cu-Au Deposit in the Northern Luzon Central Cordillera, Philippines
Leonardo L. Subang, Freeport-McMoRan, Philippines

P3.26 Late Jurassic Fault-Hosted Gold Mineralization of the Golden Saddle Deposit, White Gold District, Yukon Territory
Leif Bailey, University of British Columbia, Canada

P3.27 Relationships Between Calc-Alkalic and Alkalic Mineralization at the Southeast Zone (Cu-Mo) and Deerhorn (Cu-Au) Porphyry Deposits: Woodjam Property, Central British Columbia
Irene del Real Contreras, University of British Columbia, Canada

P3.28 Allanite and Apatite Compositional Variations and Implications for the Magmatic-Hydrothermal Evolution of the Mineralized Veins in the Hoidas Lake REE Deposit, Saskatchewan
Krisztina Pandur, University of Saskatchewan, Canada

P3.29 Magmatic Controls on the Formation of the Nechalacho Rare Metal Deposit (Thor Lake, NWT, Canada)
Volker Möller, McGill University, Canada

P3.30 Sulfide Paragenesis and LA-ICP-MS Arsenopyrite Geochemistry at the Meliadine Gold District, Nunavut: Implications for Re-Os Arsenopyrite Geochronology and Ore Deposit Genesis
Christopher Lawley, Natural Resources Canada, Canada

P3.31 Portable X-Ray Fluorescence — an Integral Part of Specialty Metals Exploration Strategies
George J. Simandl, British Columbia Geological Survey, Canada

P3.32 Platinum Group Element Geochemistry and Platinum Group Minerals within Ultramafic Arc Magmas: The Giant Mascot Ni-Cu (-PGE) Deposit, Hope, B.C.
Matthew J. Manor, University of British Columbia, Canada

P3.33 Early Halo Type Porphyry and Breccia Cu-Mo Mineralization at Copper Creek, Pinal County, Arizona
K. Brock Riedell, Consulting Geologist, Canada

P3.34 The High Lake East Volcanogenic Massive Sulphide Deposit, Nunavut, Canada: Timeline to a New Discovery
Trish Toole, MMG Limited, Canada
P3.36 Technology Platforms Supporting Future Mineral Exploration
James S. Cleverley, CSIRO Minerals Down Under, Australia

P3.37* Gravity Model of a Cu-Mo Porphyry Deposit at Copper Flat, Hillsboro New Mexico
Adrian E. Gutierrez, University of Texas at El Paso, USA

P3.38 SEM-Based Quantitative Mineralogy in Economic Geology – The Black Butte Cu-Co Deposit as an Example
Garth E. Graham, U.S. Geological Survey, USA

P3.39* Rapid Oxidation and Secondary Mineral Growth on Drill Core from the Goldrush Complex Carlin-type Gold Deposit, Eureka County, Nevada
Devon L. Smith, University of Nevada, Las Vegas, USA

P3.40 Fire Assay or Aqua Regia Digestion: Choosing the Optimal Method for Au Analyses in Geological Materials
Matthew I. Leybourne, ALS Geochemistry, Canada

P3.41 Promontorio Ag, Pb, Zn, Au Diatreme Breccias
Tom Richards, Society of Economic Geologists, Canada

Exhibition
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Location: Exhibit Hall, Upper Level
Hours: Tuesday: 17:30 – 19:00
       Wednesday: 09:00 – 18:00
       Thursday: 09:00 – 18:00
       Friday: 09:00 – 16:10

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SEG Student Chapters will be displaying their programs during the Conference. Visit booths and poster displays in the Grand Foyer, Upper Level.

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Posters

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As the global exploration industry confronts the twin megatrends of increasing raw material demand and depletion of near-surface deposits, we need to build a capability to meet these challenges. Doing so will require the best new science and tools, and new ways of applying them. Also needed are new concepts and technologies from fields that we currently do not even consider.

The goal of SEG 2014 is to provide a forum to bring together the key work that is contributing to this new capability. This is a meeting where the broadest spectrum of economic geology stakeholders can interact, covering topics that range from advanced academic studies to practical applications.

Key sub-themes of SEG 2014

- **Fundamental Advances in Economic Geology** – including relevant science not necessarily considered traditional economic geology
- **Mineral Systems Science** – focusing on how the various process components that make orebodies fit together across different scales
- **Deposit Footprints** – emphasizing how these can be expanded and discriminated from false positives
- **Innovations in Exploration Technology** – finding new tools and smarter ways of applying old tools
- **Exploration Management, Targeting Science and Mineral Economics** – optimizing the business of mineral exploration and its interface with science
- **Case Studies of 21st Century Exploration Success** – learning from actual examples of success
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