

Guillaume Lesage

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Education

Ph.D. Economic geology, University of British Columbia, Vancouver, Canada, ongoing

M.Sc. Economic geology, University of Alberta, Edmonton, Canada, 2011

B.Sc. Geology, Laval University, Quebec, Canada, 2008

Working background

Consultant Geologist, Alamos Gold Inc., Mulatos mine, Sonora, Mexico

October 2016 – December 2016

High sulfidation epithermal Au brownfields exploration

Responsibilities included doing a complete review and redesign of the project core logging legend. Detailed core logging done to identify lithological units and alteration assemblages present in the district, improve understanding of the geological environment and quality of the data collected by the Alamos Gold geologists, with the end goal to produce a viable 3D geological model.

Consultant Geologist, UBC – MDRU, SeArch Project, British Columbia, Canada

September 2016

Lithological and structural mapping

Responsibilities included structural and lithological mapping in the SeArch Project area of the Bowser Basin near Smithers, and collecting samples for geochemical and geochronological analyses.

Project Geologist, Far Southeast Gold Resources Inc., Far Southeast Project, Benguet, Philippines

March 2012 – June 2013

Porphyry Cu-Au (\pm Mo) exploration

Responsibilities included detailed core logging of oriented core, geological interpretation, technical report writing, 3D geological modeling, and resource estimation domain definition.

Geologist, Gold Fields Exploration Canada, Woodjam Project, British Columbia, Canada

June 2010 – September 2010 and June 2011 – January 2012

Porphyry Cu \pm (Mo-Au) exploration

Responsibilities included detailed core logging, mapping, soil sampling and ground magnetometer survey supervision, and technical report writing.

Teaching Assistant, University of Alberta, Edmonton, Canada

2009 – 2010

EAS-368: Ore Deposits Geology, Winter 2010

EAS-100: Planet Earth, Fall 2009

EAS-333: Advanced Field School, May 2009

EAS-433: Ore Deposits Geology, Winter 2009

Responsibilities included preparing and teaching the laboratory section of the course, and preparing and marking weekly assignments as well as mid-semester and final laboratory exams.

Geologist, Gestion Aline Leclerc, Timmins, Canada

Summer 2008

Orthomagmatic Ni exploration.

Responsibilities included mapping and core logging.

Research Assistant, Dr. Réjean Hébert, Laval University, Quebec, Canada

June 2007 – April 2008

Responsibilities included mapping of ophiolite complexes in the Yarlung Zangbo Suture Zone in southern Tibet, thin section preparation, and geochemical and petrological analyses of collected samples.

Research Assistant, Dr. Marc Constantin, Laval University, Quebec, Canada

Fall 2006

Responsibilities included preparation and analysis of INAA samples.

Languages

Perfect French and English. Fluent in Spanish (spoken and written).

Computer skills

Proficient with various software packages

ArcGIS, ioGAS, Geosoft, Leapfrog, Adobe Suite (Illustrator, Photoshop, InDesign), ImageJ, R Statistics, Microsoft Office (Word, Excel, Access, PowerPoint).

Short courses and field trips attended

UBC SEG-GAC Student Chapter Field Trip, May 2015

Mine visits in Spain and Portugal.

Yerington Mapping Course, October 2015

An 8-day field mapping course around Yerington, Nevada. This course provides an opportunity to enhance skills such as recording structural data, age and igneous information, as well as hydrothermal alteration, mineralization and veining mapping at the bench, trench and outcrop scales. Exercises are conducted along a 6-km vertical transect from the deep porphyry environment to the shallow advanced argillic environment in volcanic cover rocks, and also include a 2 day mapping exercise in a skarn environment.

Copper Mountain Mapping Course, May 2014

A 9-day field mapping course that includes various skarn, alkalic and calc-alkalic porphyry deposit visits, as well as core logging and bench and outcrop scale mapping of lithology, alteration, mineralization and veining mapping.

Earth Modeling 2013, October 2013

Meeting held in Vancouver included a 2-day long preconference short course, which was an introduction to the GOCAD® Mining Suite software, a 2-day long conference with talks

divided into 2 thematic sessions ("Geomodelling: Concepts, applications and technologies", and "Quantitative data integration"), as well as a 1-day long post-conference workshop focusing on mineral exploration targeting.

SEGF Student-Dedicated Field Trip Course, May 2009

Visit of gold systems of northern Nevada.

Joint Modular Course in Hydrothermal Ore Deposits, February 2009

Organized by the University of Ottawa and Laurentian University

GAC-MAC-SEG-SGA Field Trip, May 2008

Archean stratigraphy and volcanology related to base metal and gold mineralization in the Abitibi Greenstone Belt.

Geo-engineering Field Trip to Guadeloupe, February 2008

Organized by Université Laval and led by Dr. Réjean Hébert and Dr. Jacques Locat, Volcanology and natural risks associated to uplift and volcanism.

Université Laval-INRS SEG Student Chapter Field Trip, May 2007

Mine visits in Morocco.

Université Laval-INRS SEG Student Chapter Field Trip, May 2006

Mine visits in Peru.

Awards

SRK Canada Graduate Scholarship, 2015

SRK Consulting

Shell Graduate Mapping Prize, 2015

University of British Columbia

SEGF Canada Foundation Award, 2010

Society of Economic Geologists (SEG)

Bruce Nesbitt Memorial Graduate Award, 2009

University of Alberta

MAC Foundation Scholarship, 2009

Mineralogical Association of Canada (MAC)

SEG Foundation Graduate Student Fellowship, 2009

Society of Economic Geologists (SEG)

Queen Elizabeth II Graduate Student Scholarship, 2009

Government of Alberta

Roch-Bélanger Foundation Scholarship, 2008

Canadian Institute of Mining, Metallurgy and Petroleum (CIM)

Undergraduate Student Research Award (USRA), 2007

Natural Sciences and Engineering Research Council of Canada (NSERC)

Étienne-Martin Scholarship, 2006

Ordre des Géologues du Québec (OGQ)

Fordia-Flex-It Scholarship, 2005

Association de l'Exploration Minière du Québec (AEMQ)

Admission Scholarship, 2005
Laval University

Publications

- Bouzari, F., Hart, C.J.R., Bissig, T., Lesage, G., 2016, Mineralogical and geochemical characteristics of porphyry-fertile plutons: Guichon Creek, Takomkane and Granite Mountain batholiths, South Central British Columbia: Geoscience BC Summary of Activities 2015, Geoscience BC, Report 2016-1, p. 17–22.
- Hébert, R., Guilmette, C., Dostal, J., Bezard, R., Lesage, G., Bédard, É., and Wang, C.S., 2014, Miocene post-collisional shoshonites and their crustal xenoliths, Yarlung Zangbo Suture Zone, southern Tibet: Geodynamic implications: Gondwana Research, v. 25, p. 1263–1271.
- Lesage, G., Richards, J.P., Muehlenbachs, K., and Spell, T.L., 2013, Geochronology, geochemistry, and fluid characterization of the late Miocene Buriticá gold deposit, Antioquia Department, Colombia: Economic Geology, v. 108, p. 1067–1097.
- Bédard, É., Hébert, R., Guilmette, C., Lesage, G., Wang, C.S., and Dostal, J., 2009, Petrology and geochemistry of the Saga and Sangsang ophiolitic massifs, Yarlung Zangbo Suture Zone, southern Tibet: Evidence for an arc – back-arc origin: Lithos, p. 48–67.

Conference Presentations and Posters

- Lesage, G., Byrne, K., Lypaczewski, P., Lee, R.G, and Hart, C.J.R., 2016, Characterizing the district-scale alteration surrounding a large porphyry Cu system : The footprint of Highland Valley Copper, British Columbia: GAC-MAC annual meeting, Whitehorse, Canada.
- Byrne, K., Lesage, G., Gleeson, S.A., Lypaczewski, P., and Lee, R.G, 2016, Characteristics of sodic-calcic alteration footprints around porphyry Cu deposits : An example from the Highland Valley Copper district, South Central British Columbia: PDAC annual convention, Toronto, Canada.
- Lesage, G., Byrne, K., Lee, R.G, and Hart, C.J.R., 2016, Characterizing the district-scale alteration surrounding a large porphyry Cu system : The footprint of Highland Valley Copper, British Columbia: PDAC annual convention, Toronto, Canada.
- Gaibor, A., Lesage, G., Dunkley, P., Wehrle, A., Den Boer, D., and Conde, F., 2013, The discovery and understanding of the Far Southeast copper-gold porphyry, Luzon, Philippines: NewGenGold conference, Perth, Australia.
- Lesage, G., Richards, J.P., and Spell, T.L., 2011, Geochronology, petrography, geochemical constraints, and fluid characterization of the Buriticá gold deposit, Antioquia Department, Colombia: GAC-MAC-SEG-SGA annual meeting, Ottawa, Canada.

- Lesage, G., and Richards, J.P., 2010, Stable isotope, fluid inclusion, and geochemical constraints on mineralization at the Buriticá gold deposit, Antioquia Department, Colombia: GeoCanada 2010 conference, Calgary, Canada.
- Lesage, G., 2009, Geodynamic and metallogenic history of the Northern Andes of Colombia: Earth and Atmospheric Sciences Graduate Student Society (ATLAS) weekly presentation, University of Alberta, Edmonton, Canada.
- Bezard, R., Hébert, R., Wang, C.S., Raoult, G., Lesage, G., Guilmette, C., Bédard, É., 2009, Crustal xenoliths in Miocene shoshonites in the Yarlung Zangbo suture zone, Tibet: 24th Himalaya-Karakoram-Tibet Workshop, Beijing, China.
- Lesage, G., Hébert, R., Guilmette, C., Bédard, É., Wang, C.S., Dostal, J., and Ullrich, T.D., 2008, Petrology and geochemistry of the shoshonitic trachyandesites and trachydacites within the Yarlung Zangbo Suture Zone, southern Tibet: GAC-MAC-SEG-SGA annual meeting, Quebec, Canada.
- Hébert, R., Guilmette, C., Bédard, É., Lesage, G., Bezard, R., Dostal, J., Ullrich, T.D., 2008, Geodynamic significance of the Yarlung Zangbo Suture Zone: A review: GAC-MAC-SEG-SGA annual meeting, Quebec, Canada.
- Bédard, É., Hébert, R., Guilmette, C., Lesage, G., Wang, C.S., Dostal, J., Ullrich, T.D., 2008, Petrology and geochemistry of the Saga and Sangsang ophiolites, Yarlung Zangbo Suture Zone, southern Tibet: Additional evidence of an arc – barc-arc origin: GAC-MAC-SEG-SGA annual meeting, Quebec, Canada.
- Bezard, R., Hébert, R., Lesage, G., Guilmette, C., Bédard, É., Wang, C.S., Ullrich, T.D., 2008, Les xénolites des trachhyandésites et trachydacites du Miocène de la zone de suture du Yarlung Zangbo du Tibet: GAC-MAC-SEG-SGA annual meeting, Quebec, Canada.
- Hébert, R., Lesage, G., Guilmette, C., Bédard, É., Wang, C.S., Dostal, J., Ullrich, T.D., 2008, Ophiolites of the Yarlung Zangbo Suture Zone, southern Tibet: 33rd International Geological Congress, Oslo, Norway.
- Hébert, R., Lesage, G., Bezard, R., Guilmette, C., Bédard, É., Wang, C.S., Ullrich, T.D., and Dostal, J., 2008, Discovery of crustal xenolith-bearing Miocene post-collisional igneous rocks within the Yarlung Zangbo Suture Zone, southern Tibet: Himalayan Journal of Sciences, v. 5 Special Issue, p. 63.
- Hébert, R., Guilmette, C., Bédard, É., Lesage, G., Wang, C.S., Dostal, J., and Ullrich, T.D., 2007, Shoshonitic magmatism within the Yarlung Zangbo Suture Zone, Tibet: A window through the deep underlying crust: Geological Society of America annual meeting, Denver, U.S.A.

Other achievements

UBC SEG-GAC Social Coordinator, 2014 – 2015

ATLAS (Earth and Atmospheric Sciences Graduate Student Society) seminar coordinator, 2009 – 2010

Weekly, one hour seminars given by visiting researchers, as well as researchers from the Earth and Atmospheric Sciences (EAS) department.

ATLAS research symposium organizer, 2009 – 2010

Annual, 2-day long symposium featuring 25 talks given by graduate students and postdoctoral fellows from the EAS department, as well as two seminars given by a keynote speaker, Dr. Joseph Kirschvink, from the California Institute of Technology.

U of A SEG student chapter webmaster, and seminar and meeting coordinator, 2009 – 2010

Part of a small group of students from the Departments of Geology and Geological Engineering, and of Mining, Metallurgy and Materials Engineering at the Université Laval who designed, produced, and sold a special metal coin for the 400th anniversary of Quebec City and gave the benefits (1000\$) to the Maison Revivre, an organization helping the homeless people of Quebec City, 2008

President of the Université Laval-INRS SEG student chapter, 2006 – 2007

Vice-President “Festival de Sciences et Génie” for the Association des Étudiants en Géologie et Génie Géologique de l’Université Laval (AEGGGUL), 2007 – 2008

Social Coordinator for the AEGGGUL, 2006 – 2008

Head of the Université Laval delegation for the Jeux de la Géologie, 2006 – 2007

Vice-President of External Affairs for the AEGGGUL, 2005 – 2006

Vice-President of the Université Laval-INRS SEG student chapter, 2005 – 2006