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EDUCATION

- 2006-2009 **Master of Science in Mineral Economics.** Curtin University of Technology. Perth, Australia.
- 2003-2005 **Master in Business Administration,** (Fundación del Tucumán-University of Norte Santo Tomás de Aquino-University Católica of Valparaíso, Chile), San Miguel de Tucumán, Tucumán, Argentina. Resolution N°538-CONEAU-04.
- 2004 **Diploma in Applied Geostatistics,** intensive training, 160 hours. Universidad de Chile. Mining Engineering Department. Professors: Dr. Xavier, Emery and Ph. D. Julián Ortiz.
- 1990-1996 **Bachelor of Science (Licentiate) in Geology,** Universidad Nacional de La Pampa, Argentina. **Thesis:** Stratigraphic in Carbonic-Permian. Universidad Nacional de La Pampa. Regional Geology in the Province of Mendoza, Argentina.

PROFESSIONAL

AusIMM Member # 227922.

CIM Membership # 151726.

WORK EXPERIENCE

- Aug 2012 **President Politax S.A. Uruguay.** Patagoniageosciences. Geological Consulting service and estimation of mineral resources.
- Apr 2012 **Compañía Minera Antamina S.A.-Presente. Perú.** . Review and optimization of grade control system.
- Dec 2011 **Cuprum Resources Corp, Puquios- Presente. Chile.** Partial Review of database, EDA and geological model.
- Feb 2011 **Compañía Minera Doña Inés de Collahuasi (CMZ)-Present. Chile.**
Partial review and audit of Geotechnical old database. Review and updated “geotechnical Data Entry”, administered by AcQuire software.
Geotechnical (PLT, O.K.) model, Rosario Oeste. Pyrite model RW, R y Ujina (O.K.) . Review and optimization of grade control system, Rosario.
- Aug 2010 **Cobre del Mayo, S.A. de C.V., Piedras Verdes-Present. México.**
Development of a grade control system using Ordinary Kriging and MineSight software; MultiRun packages and IP cut designs. Produced and updated a 43-101-compliant Cu resource model.
- Jul 2010 **Compañía Minera Teck Quebrada Blanca S.A., Chile.**
Review of an AcQuire-administered database software and grade control system.
- Jun 2010 **TVI PACIFIC INC. Balabag Gold Project-Present. Philippines.** Updated resources model and technical report according to NI 43-101 and CIMM guidelines.
- Mar 2010 **Western Lithium Corporation. King’s Valley Project, Reno, USA.** Review of geologic modeling, and QA/QC. Also, development of resource estimates for Li, K, Na and F, according to NI 43-101 and CIMM guidelines.
- Dec 2009 **University National of San Luis. Assistant lecturer (present)** in the subject Exploration and Resource Evaluations. School of Mines Engineering. Argentina.
- Jul 2009 **Minera Alumbrera L.T.D. (Xstrata Copper)-present. BED Project (Bajo El Durazno), Catamarca, Argentina.** Audit and review of drilling practices, geologic modeling, and QA/QC. Also, resource model estimate of CuT (total copper) and Au (gold), resource

classification according to the JORC code and Technical Report.

Jan 2009	Boddington Gold Mine (Newmont Asia and Anglogold Ashanti, W. Australia, January 2009). Audit of a gold DBSim conditional simulation model. Review of the discrepancies between the conditional simulation model and the UC resource model. Review of the application of the DBSim to mine scheduling.
Dec 2009	Jinshan Gold Mines, CSH Gold Mine, Inner Mongolia, China (November 2008). Update of the gold resource model; Au grade estimation, resource classification and validations.
Nov 2008-Mar 2009	Filo del Sol Project (Suramina and Lundin Mining, Vancouver and San Juan, Argentina, November 2008-Marzo 2009). Review of exploration campaign and development of a 43-101 compliant resource model for Au & Cu and Report.
Nov 2008-Dec 2008	Jinshan Gold Mines, Dadiangou Project, China (November 2008-present). Initial review of drilling practices, geologic modeling, QA/QC. Produced and updated a 43-101-compliant Au resource model.
Feb 2008-Nov 2008	Minera Alumbrera L.T.D. (Xstrata Copper), Catamarca Province, Argentine. Copper-Gold Porphyry system. Project Geologist. (Geological and block modeling).
June 2007-Jan 2008	Ernest Henry Mining Pty Ltd (Xstrata Copper), Cloncurry, Queensland, Australia. Copper-Gold-Iron Oxide Hydrothermal breccia system. Support in Geological and block modeling for underground phase prefeasibility. Annual resources and reserves signed, by code JORC. Mine Technical Services Department.
2002-June 2007	Minera Alumbrera L.T.D. (Xstrata Copper), Catamarca Province, Argentine. Copper-Gold Porphyry system. Project Geologist. (Geological and block modeling, supported by Gary Raymond and Luis Rivera): grade control, probe and reserves-resource definition drilling; provision of daily ore mining and grade control functions, including void definition; maintenance of the Acquire (manager) grade control, exploration, geotechnical , database; optimizing the open pit reserve through the accurate delineation of ore and waste; provision of periodic production and reconciliation reports; continuing to develop, implement and refine the grade control . Mine Geologist, bench mapping (Structural, lithology and alteration). Technical Support in Peru, Project Las Bambas, Database (acquire software) and block modeling.
2001-April 2002	Minera El Desquite, Leleque Exploración S.A., Chubut Province, Argentine. Contract geologist in exploration of Projects (Esquel deposit Project and Joya del Sol Project, epithermal low sulphidation quartz-adulary-bitumen rich) and regional (Sierra Lonco Trapial, Sierra del Cerro Negro, Lag. Salada, Epuyén). RC logging, DD and RC control.. Detection of target anomaly by rock chip, float, stream sediment, bleg sampling , pan concentrate and aerial reconnaissance (airplane-helicopter). Software Application (ArcView Gis 3.2).
1999- 2001	Normandy Mining Argentine S.A.. Staff geologist. Trench and channel sampling, BLEG and soil sampling, core logging, regional prospect scale mapping (Lipetren zone, Rio Negro, Argentina). Data base construction control and statistic evaluation, solids construction and reserves evaluation, supported by NCL Ingenieria y Construcción S. A., Santiago de Chile. Advanced Application of associated softwares (GEMCOM for Windows, Mappinfo Professional Version 6.0, Datadesk 6.0, Surfer 7.02, Autocad 14, Excel, Word and others softwares associated to Microsoft office 2000).
1998- 1999	La Source Developement Argentina-Normandy Mining Argentina S.A. Contract geologist in regional exploration geology. Rio Negro (Calcatreu Project, epithermal low sulphidation quartz-adulary-calcite Veins). Detection of target anomaly by rock chip and stream sediment sampling. BLEG sampling, channel and trench sampling and regional-detailed mapping, core logging, RC and DD control.
1997-1998	La Source Developement Argentine. Contract geologist in regional exploration geology. Chubut Province (Cordon de Taquetren, Esquel y Leleque, Sierra Colorada, El Maiten, Los Camarones, Chenque, Hondo valley). The work included stream and rock sampling, BLEG sampling and regional mapping).
April-June 1997	Geoservices S.A., Neuquén, Argentina. Training Geologist in oil exploration.

1992-1995 **University National of La Pampa** .Assistant lecturer in the subject vertebrate and invertebrate paleontology.

PUBLICATIONS

Aug 2009 XVI SIMPOSIUM DE INGENIERIA EN MINAS. 18-21 August, Santiago de Chile, Chile. The basis of the recoverable resources model. Authors: J. Bruna Novillo, J. Bassan, M. Rossi.

Aug 2008 III INTERNATIONAL CONFERENCE ON MINING INNOVATION 6-8 August, Santiago, Chile. Mineral Control System in Bajo de La Alumbrera Mine, Catamarca, Argentina. Authors: Rodolfo Zapata, José Antonio Bassan and Julio Bruna

May 2006 II INTERNATIONAL CONFERENCE ON MINING INNOVATION 23-26 May, Santiago, Chile. Presentation: “Geotechnical characterization and the Modeling of its Variables”, in Mina Bajo de La Alumbrera, Catamarca, Argentina”. Authors: Carlos Giraud, José Bassan and Julio Bruna.

September 2005 VIII CONGRESO ARGENTINO DE GEOLOGIA ECONOMICA 15&16&17. Presentation: “Ore Control System in Mina Bajo de La Alumbrera, Catamarca, Argentina”. Authors: I. Zapata, J. A. Bassan, J. Bruna Novillo

March 2005 ACQUIRE REGIONAL CONFERENCE 14&15. Presentation: “Uso de Acquire en los procesos de Minera Alumbrera”. Authors: José A. Bassan and Julio Bruna Novillo. Santiago de Chile, Chile

1993 First Meeting of Ichnology, Argentina. Association of fossil Plans of the Facies Pelitic Formation Agua Escondida (Up carboniferous ?), Sud-East of Mendoza, Argentina., Summary:15. Santa Rosa, La Pampa, Argentina. Authors: Melchor, R.N., Bassan, J.A. y Fernandez, M.A.

OTHER EXPERIENCE

September 2011 MAPTEK COMPUTACION CHILE Ltd. .Training in software VULCAN tools, version 8.1.2, Resources Estimation. September 26-27-28-29. Manuel Espinoza Instructor. Viña del Mar, Chile.

May 2011 LEAPFROG MINING SOFTWARE. Leapfrog Fundamentals Training, version Leapfrog 2.4, May 23-24-25. Dulce Madrid Instructor. Santiago de Chile, Chile.

March 2010 MINESIGHT GEOSTATISTICS ADVANCED TRAINING. March 24-25-26. Abdullah Arik Instructor. MINTEC, Santiago de Chile. Chile

March 2008 APPLIED MINING GEOSTATISTICS. March 26-28 2008. Universidad Nacional de San Luis, Department of Mining, Argentina. Professor: MSc Mario E. Rossi.

April 2005 MINESIGHT 22nd Annual Seminar and Training MSDA Geostatistics version 3-50, 24 hours. Tucson, Arizona, USA

March 2004 MINTEC, Santiago de Chile, Chile, Training MineSight for Modelers-Geostatistics, 45 hours.

May 2003 MINTEC, Santiago de Chile, Chile, Training Software “Acquire”, 24 hours.

March 2003 AEROTERRA S.A., Minera Alumbrera LTD., Catamarca, Argentina, Training Software “Erdas Imagine avanced”, 40 hours.

March 2003 INGEROC, Minera Alumbrera LTD, Catamarca, Argentina, Training in “Stability of benches”, 50 hours.

September 2002 MINTEC, Santiago de Chile, Chile, Training Software MineSight Operations 3d.

July 2000 PLI (Pacific Language Institute), Vancouver, Canada. English language Course.

1998-2000 Chubut and Rio Negro, Argentina. Dr. Nigel Radford, Normandy Group. Course and training BLEG sampling.

December 1999 GEMCOM, Santiago de Chile. Training, Software Gemcom for Windows.

August 1997

BRGM, Orleans, France. Training, Software GDM for Window.