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Citizenship: Canadian

EDUCATION

- 1994 Ph.D. in Geology, University of Alberta, Edmonton, AB, 1994
1989 B.Sc., in Earth Sciences (Honours), Co-op, University of Waterloo, Waterloo, ON, 1989

PROFESSIONAL AFFILIATIONS

- Professional Geologist registered with Engineers and Geoscientists British Columbia (P.Geo.)
- Fellow of Geoscientists Canada (FGC)

AWARDS

- 2013 Gold Pan Award from the Association for Mineral Exploration for exceptional meritorious service to the mineral exploration community.
2011 C.J. Westerman Memorial Award from Engineers and Geoscientists British Columbia for significant contribution to professional geoscience.

More than a dozen scholarships and awards during university studies including the prestigious NSERC Postdoctoral Fellowship and NSERC Postgraduate Scholarship.

BOARD POSITIONS AND COMMITTEES

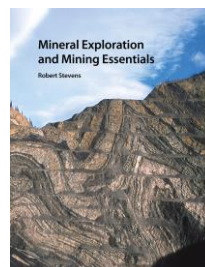
- 2020 Finance and Taxation Committee member – Prospectors and Developers Association of Canada
2019-2020 British Columbia Mining Code Review Committee member (appointed by the BC Minister of Energy and Mines)
2019 British Columbia Environmental Assessment Implementation Steering Committee member
2002-2018 Association for Mineral Exploration BC Board of Directors (Chair 2008-2010)
2014-2018 Genome BC Mining Advisory Group member
2010-2015 BC Aboriginal Mentoring and Training Association Board member
2010-2012 BCIT Board of Governors
2008-2012 BCIT Education Council member (Chair 2010-2012)

2005-2009 Geoscience BC Technical Advisory Committee member (Chair 2005-2007)

Past Member of the AME Education and Awards Committees, UBC Mining Industry Advisory Committee; Forest Product Association of Canada Labour Market Advisory Council; BCIT Graduate Studies Committee; and BCIT Credentials Definition Committee.

PUBLICATIONS

Author and publisher of '*Mineral Exploration and Mining Essentials*'. This best-selling book has sold over 6500 copies world-wide. It provides a comprehensive overview of the mining industry covering geology, mineral deposits, mineral exploration, feasibility studies, mining and processing and environmental applications. It has been adopted by several colleges and universities for courses in mineral deposits, economic geology and mineral exploration and mining.



PROJECT EXAMPLES (2014-2020)

Date	Project	Role
2019-2020	Reclamation Guide for Mineral Exploration	Project Director and Contributing Author
2019-2020	Early Engagement with Indigenous People Planning Tool for Mineral Exploration	Project Director and Contributor
2020	Guide to Canadian Exploration Expenses for Mineral Explorers	Project Director and Author
2020	Obtaining and Maintaining a Social License to Operate: Session at Mineral Exploration Roundup 2020	Organizer, Session Chair, Moderator
2019-2020	Government-Industry Forum at Mineral Exploration Roundup	Organizer, Chair
2017-2018	Mine Closure Policy and Guideline Development – Government of Argentina	Project Director, Facilitator, Lead Trainer
2017-2018	Mine Closure and Tailings Management – Capacity Development – Government of Tanzania	Project Director, Lead Trainer and Facilitator
2018	Mine Closure guidance development – Government of Papua New Guinea	Project Facilitator and Trainer
2018	Managing Mining Conflicts – Session at the PDAC annual meeting	Organizer, Facilitator, Chair
2017	Technical Capacity Development and Training on the Environmental Management of Mines delivered to governments in Tanzania, Ghana, Ethiopia, and Suriname	Project Director and Lead Trainer

2017	Environmental Assessment and Management for Artisanal and Small-Scale Mining: Policy Guidance Document	Author
2017	Environmental Impact Assessment (EIA) for ASM-LSM – Session at the IGF annual meeting.	Organizer and Facilitator
2017	Understanding the Essential Building Blocks of Integrated Resource Management – Session at the PDAC annual meeting	Organizer, Chair
2016	Gender in Mining – Session at the IGF annual meeting	Organizer and Facilitator
2014-2016	New B.Eng. Degree in Mining and Mineral Resource Engineering at the BC Institute of Technology (BCIT)	Project Director, Associate Dean
2014-2016	New M.Sc. Degree in Ecological Restoration at BCIT in partnership with Simon Fraser University	Project Director, Associate Dean

WORK EXPERIENCE

1998-Present **Trainer, Facilitator, Mining Policy Advisor, Project Director, Geologist, Author
Pakawau GeoManagement Inc.**

Consulting services to the mineral exploration and mining industry, governments, the financial sector, associations and communities to maximize opportunities and benefits from this dynamic sector. Combining technical expertise with training, team facilitation and project direction and management to enable teams and ensure projects succeed.

Over 20 years of diverse experience, I have developed expertise in training, facilitation, mining policy analysis, geology, project development, direction and management and as an author and publisher. All the experience and accomplishments outlined on this cv are brought to the consulting services I offer through Pakawau GeoManagement Inc.

2018-2020 **Vice President, Regulatory and Technical Policy
Association for Mineral Exploration (AME)**

As the Vice President, Regulatory and Technical Policy at AME, I advocated for a regulatory and fiscal environment that supports successful and responsible mineral exploration in British Columbia. This included review, analysis and executive-level oversight of environmental management and reclamation, permitting, land-use, health and safety, social responsibility, geoscience, economic incentives and taxation, investment confidence and public and government affairs. I also worked with Indigenous nations, communities and regional exploration groups to support reconciliation and a responsible mineral exploration sector that benefits all British Columbians.

I directed and lead the development of several guidance documents to support and advance the practices of the exploration sector including a Reclamation Guide for Mineral Exploration, an Early Engagement with Indigenous Peoples Planning Tool, and a Guide to Canadian Exploration Expenses for Mineral Explorers. I also organized, facilitated and chaired several sessions at the Mineral Exploration Roundup Conference including an annual

Government-Industry Forum, an environmental assessment workshop and a session on obtaining and maintaining a social license to operate.

2016-2018

**Director, Partnerships and Learning
Canadian International Resources and Development Institute
(CIRDI) University of British Columbia**

As Director of Partnerships and Learning, I led CIRDI's international training and educational initiatives, advised governments on policy development, manage partnerships and outreach and provide executive level oversight of technical programs, communications, and publications. CIRDI supports the sustainable development of natural resources in developing countries through capacity building in governance, policy advice, applied research and training.

Key initiatives

- Led the development and delivery of technical training related to mine closure, environmental impact assessment, tailings and community engagement for national governments in Africa (Tanzania, Ghana and Ethiopia), South America (Argentina and Suriname) and Asia (Papua New Guinea).
- Advised government on leading global policy standards related to the sustainable development of mining and supported the development of policies and regulatory guidelines.
- Managed the development of training and policy advice for the artisanal and small-scale mining (ASM) sector in areas of gender equity, environmental impact assessment and technical skills
- Pursued and assessed business development and funding opportunities to support the long-term sustainability of CIRDI
- Executive management of international development programs and teams of international experts.
- Executive oversight on the renewal of CIRDI's image and branding including a new website and communications tools and integration of CIRDI's work with the United Nations' Sustainable Development Goals

2010-2016

**Associate Dean, Natural Resources and Engineering
British Columbia Institute of Technology**

As Associate Dean, I provided academic, technical and administrative leadership and management to the faculty, staff and departments within the Natural Resources and Engineering portfolio. This included the departments of Mining and Mineral Exploration, Civil Engineering, Forests and Natural Areas Management, GIS, Geomatics, Ecological Restoration, and Fish, Wildlife and Recreation. Over 90 faculty and staff reported directly me as Associate Dean.

While Associate Dean, I led and managed the growth of programs in key industry area such as mining, forestry, environmental engineering and ecological restoration. This included leading the development of a new Mining and Mineral Resource Engineering Program, and a new Masters Degree in Ecological Restoration in partnership with Simon Fraser University.

Responsibilities:

- Led the operation and development of academic programming from certificates through Masters Degrees,

- Managed large complex budgets (>\$5,000,000 annually),
- Led and directly managed, motivated and inspired more than 90 faculty and staff,
- Developed strategic relationships with industry and key stakeholders including working closely with industry Program Advisory Committees
- Identified and implemented business opportunities with industry, government or post-secondary partners
- Provided strategic advice and recommendations to senior leadership,
- Advised and supported marketing and recruitment initiatives,
- Counseled students, directed the hiring of faculty and staff, and supported the implementation of BCIT's strategic plan.

2005

**Interim Executive Director
Geoscience BC**

Managed the successful start-up of Geoscience BC in its inaugural year. Geoscience BC is an industry-led not-for-profit applied geoscience organization that has received significant funding, primarily from government, to acquire and disseminate geoscience information in order to stimulate exploration for minerals and oil and gas in British Columbia.

In this role I developed requests for proposals; chaired the review of proposals by the Technical Advisory Committee, managed budgets, organized the funding of successful proposals, established funding contracts, oversaw the hiring of a permanent President and CEO, participated in strategic planning, liaised with industry and government and managed administrative functions.

2000-2010

**Program Head and Faculty
Department of Mining and Mineral Exploration
British Columbia Institute of Technology**

Faculty and Head of the Mining and Mineral Exploration Department at BCIT. During ten years with the department, I built it from a program consisting solely of a two-year diploma with very few students and 2 faculty to one with a full slate of diploma students, an active continuing education program, an Aboriginal Minerals Training Program, an Associate Certificate, a research program and a developing engineering degree program.

Accomplishments:

- Designed, prepared and delivered courses in the Mining and Mineral Exploration Technology Diploma Program, the Civil Engineering Program, the Sustainable Resource Management Program and for part-time studies. Courses include: physical geology, mineralogy and petrology, structural geology, mineral deposits, mineral exploration, environmental applications, field school and student success and professionalism.
- Managed the mining department as Program Head which included: administering a wide range of student affairs, department budgets and teaching assignments; liaising with BCIT management, industry and employers of students and graduates; and working with faculty and Program Heads from departments across institute.
- Initiated and championed an Aboriginal Minerals Training Program in partnership with the Association for Mineral Exploration BC. Secured over \$600,000 in funding for the program from government and industry.

- Established BCIT as a partner in the BC Minerals Aboriginal Skills and Employment Program that was successful in obtaining several million dollars in funding from the federal government.
 - Led the department in obtaining national accreditation with the Canadian Technology Accreditation Board in 2004.
 - Conceived, developed and coordinated a part-time studies curriculum for the department that includes online courses, a field course and courses for the business and investment community.
 - Led the development of a new certificate program called "Minerals Discovery".
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1998-2000

**Project Consulting Geologist
Pakawau Geomanagement Inc. and various companies**

Mineral exploration and geological evaluation of mineral properties. Some of the key responsibilities include: management of drill programs; preparation of 43-101 technical reports and assessment reports; field mapping and prospecting; property visits and reviews; and evaluation of property option agreements and proposed acquisition deals.

1996-1997

**Project Manager
Barramundi Gold Ltd.**

Designed, organized and managed a regional-scale gold exploration program in the Klondike region of the central Yukon Territory. This program required me to plan, budget and conduct exploration programs, tender, appoint and manage employees, consultants, and contractors, and complete technical reports with recommendations further exploration.

1994-1996

**Postdoctoral Research Fellow
Queen's University**

Initiated and designed a field-based structural and tectonic research project to resolve the geological evolution of the enigmatic Dorsey Terrane in the northern Canadian Cordillera. This was a self-directed project, supported by a number of grants including a NSERC Postdoctoral Fellowship, that involved designing, organizing and carrying out a field and laboratory research project in collaboration with other researchers.