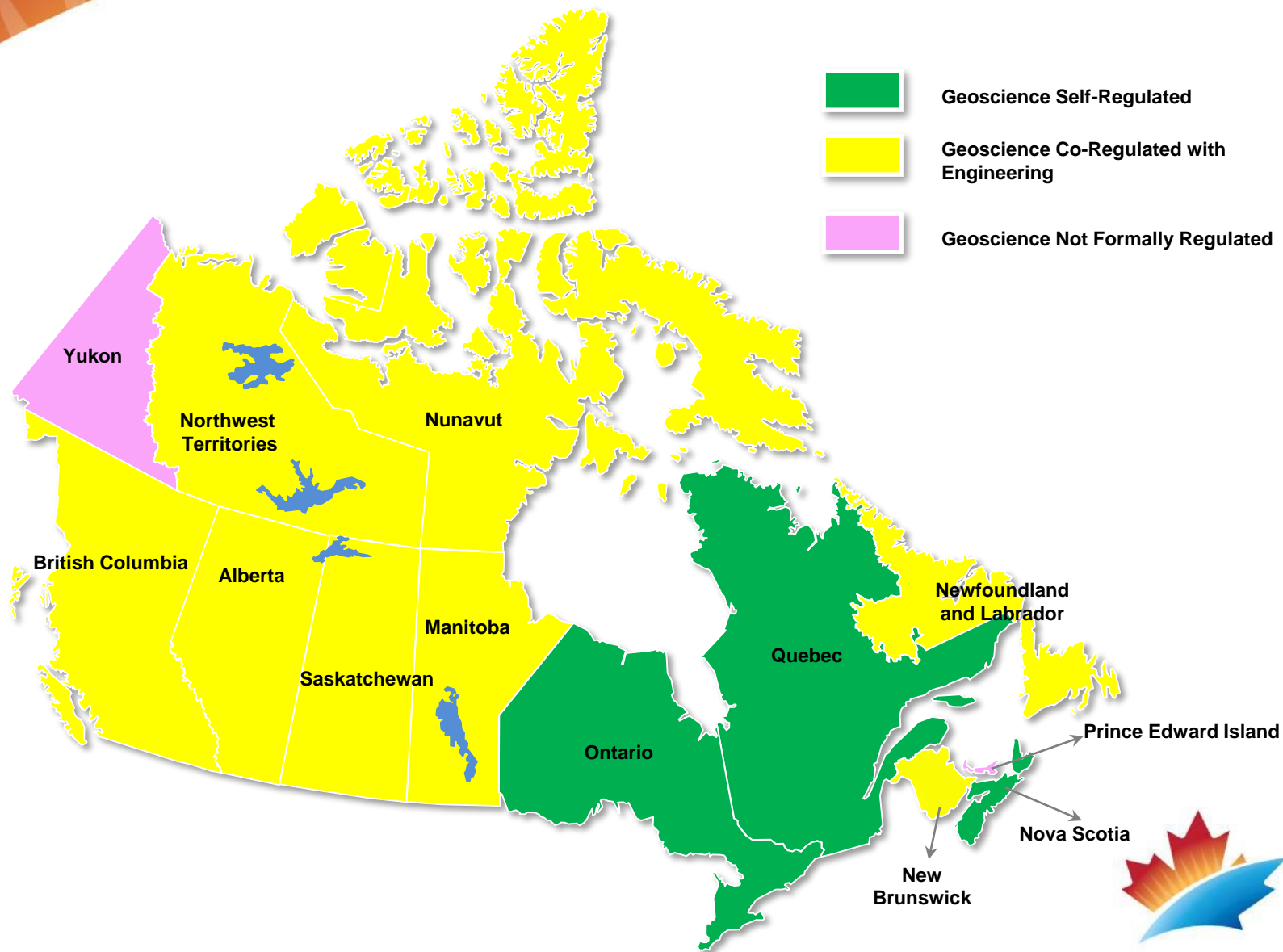


Geoscientists Canada

Geoscientists Canada Update

**CCCESD Ottawa
October 12, 2017
Mark Priddle, P.Geo.
President-Elect**







Professional Engineers
and Geoscientists of BC



The Association of Professional
Engineers and Geoscientists of Alberta



A P E G S

*Association of Professional Engineers
& Geoscientists of Saskatchewan*



**ENGINEERS
GEOSCIENTISTS
MANITOBA**



ASSOCIATION OF PROFESSIONAL GEOSCIENTISTS OF ONTARIO



NAPEG

Northwest Territories and Nunavut
Association of Professional Engineers and Geoscientists



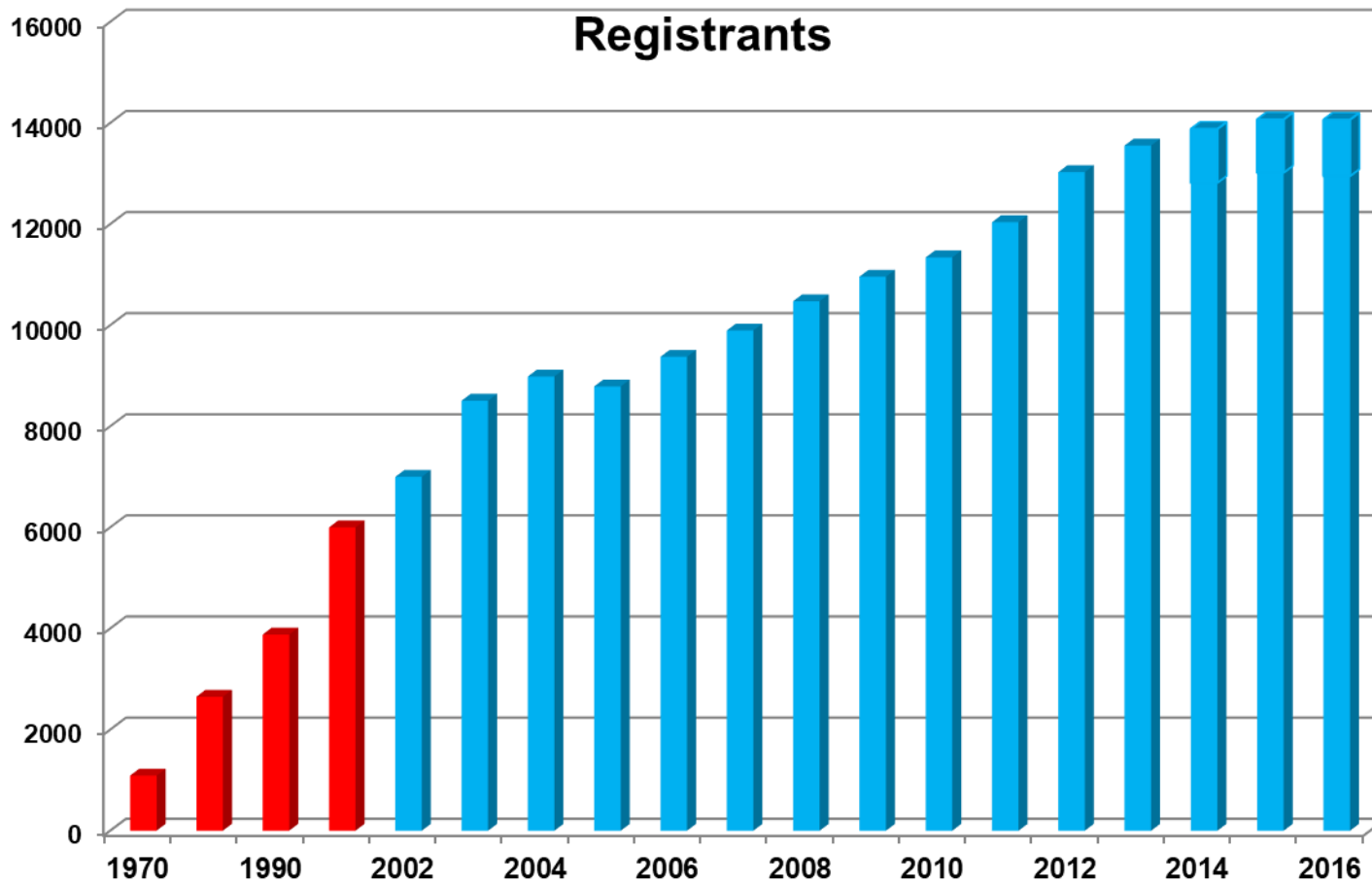
ENGINEERS
GEOSCIENTISTS
New Brunswick

INGÉNIEURS
GÉOSCIENTIFIQUES
Nouveau-Brunswick

GEOSCIENTISTS
NOVA SCOTIA

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Newfoundland
and Labrador
PROFESSIONAL ENGINEERS AND GEOSCIENTISTS

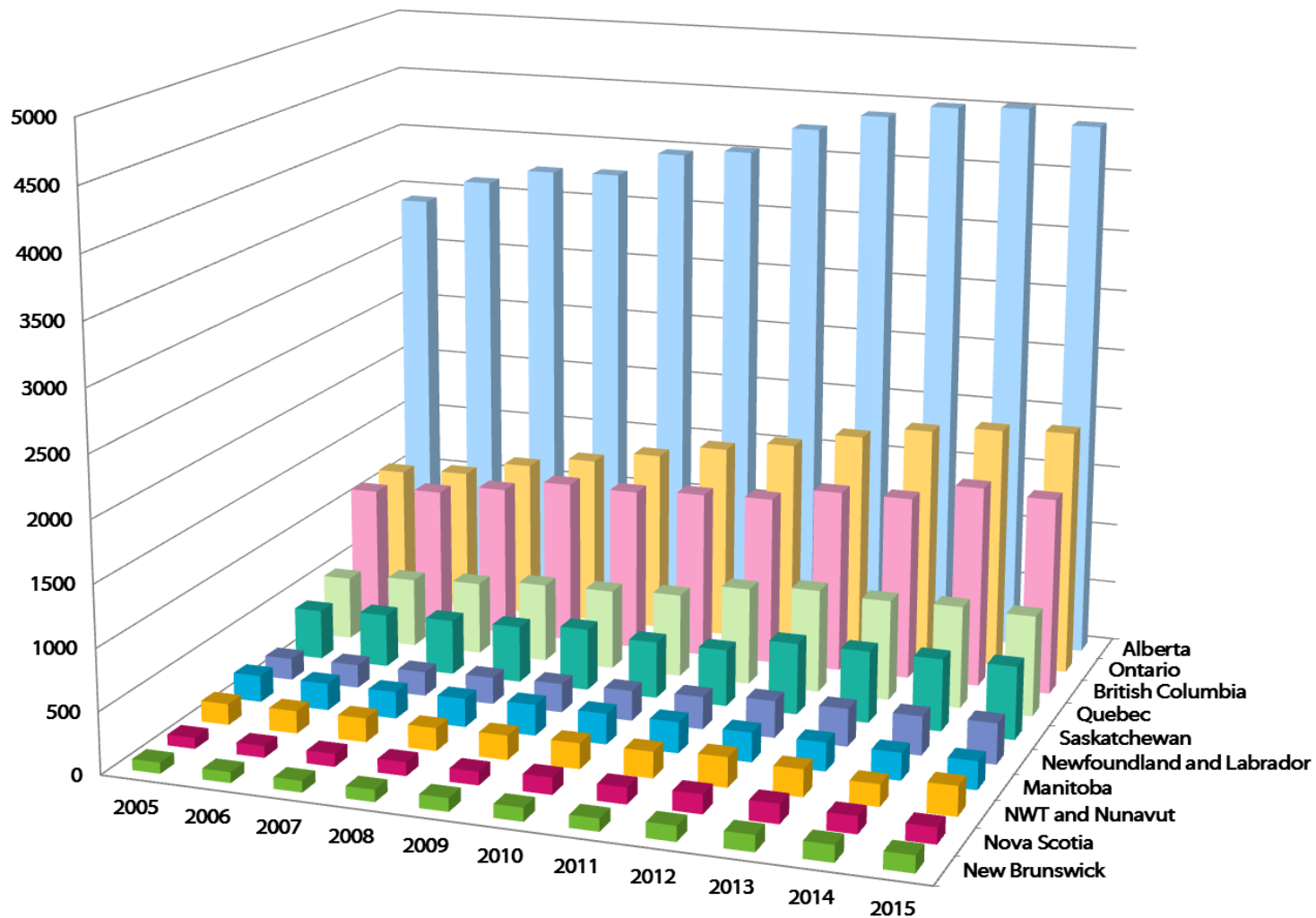
Geoscientist Licensure in Canada



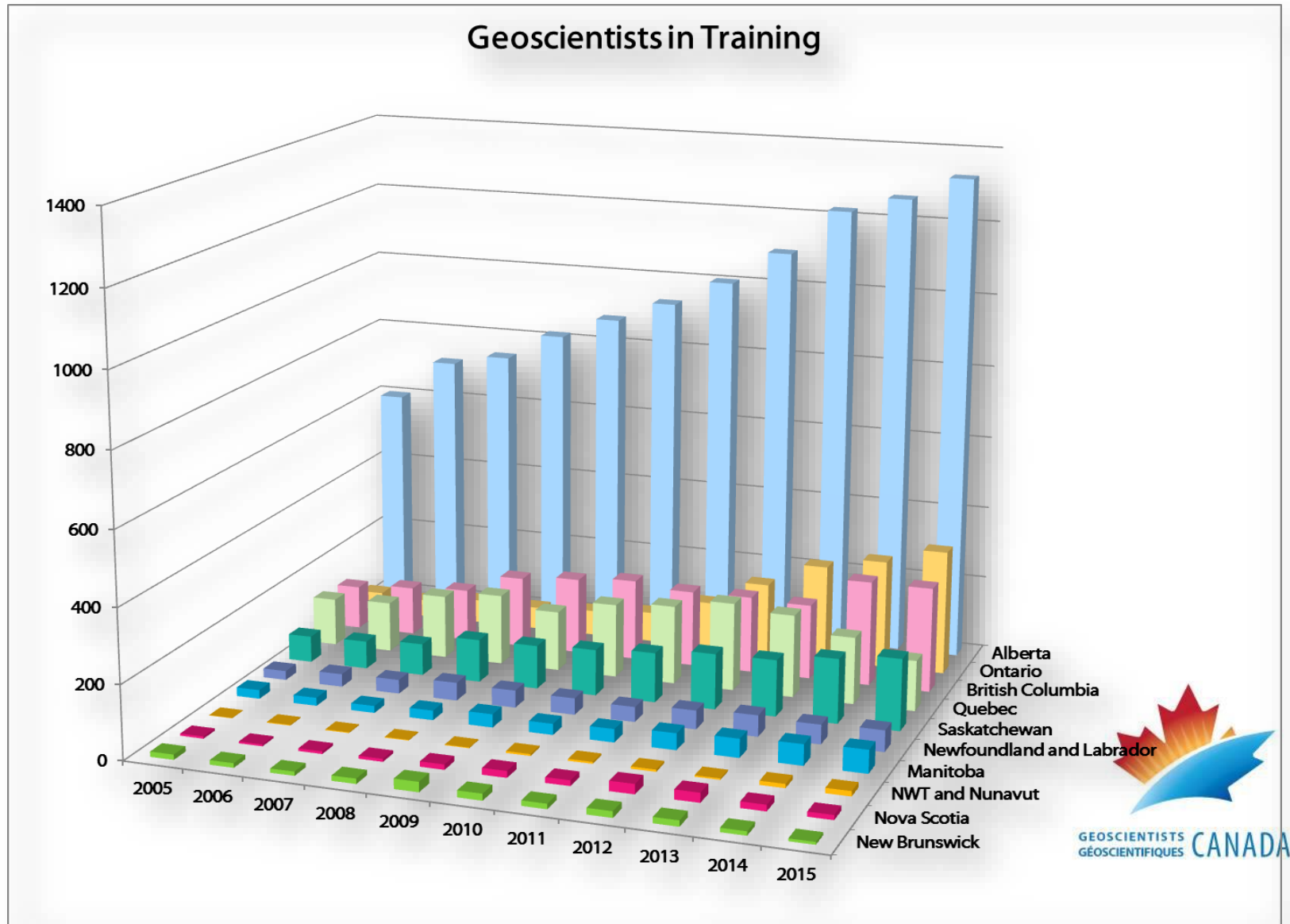
GEOSCIENTISTS
GÉOSCIENTIFIQUES CANADA

P.Geo's

P.Geo: Full Practicing



Geoscientists in Training ("GITs")



P.Geo : GIT ratios

2016	P.Geo's	GITs	Ratio
New Brunswick	129	11	11.73
Nova Scotia	140	14	10.00
NWT and Nunavut	264	14	18.86
Manitoba	225	66	3.41
Newfoundland and Labrador	324	74	4.38
Saskatchewan	592	207	2.86
Quebec	877	146	6.01
British Columbia	1638	321	5.10
Ontario	2041	369	5.53
Alberta	4218	1159	3.64
Total	10448	2381	4.39

Diversity – Gender Balance

2016 P.Geo's	P.Geo's	Female	%
New Brunswick	129	21	16%
Nova Scotia	140	24	17%
NWT and Nunavut	264	49	19%
Manitoba	225	46	20%
Newfoundland and Labrador	324	58	18%
Saskatchewan	592	110	19%
Quebec			
British Columbia	1638	323	20%
Ontario	2041	427	21%
Alberta	4218	882	21%
Total	9571	1940	20%

2016 GITs	GITs	Female	%
New Brunswick	11	6	55%
Nova Scotia	14	3	21%
NWT and Nunavut	14	7	50%
Manitoba	66	24	36%
Newfoundland and Labrador	74	31	42%
Saskatchewan	207	59	29%
Quebec			
British Columbia	321	131	41%
Ontario	369	140	38%
Alberta	1159	417	36%
Total	2235	818	37%

Fig 4. Percentage of females in each of undergraduate, masters, doctoral, and faculty levels

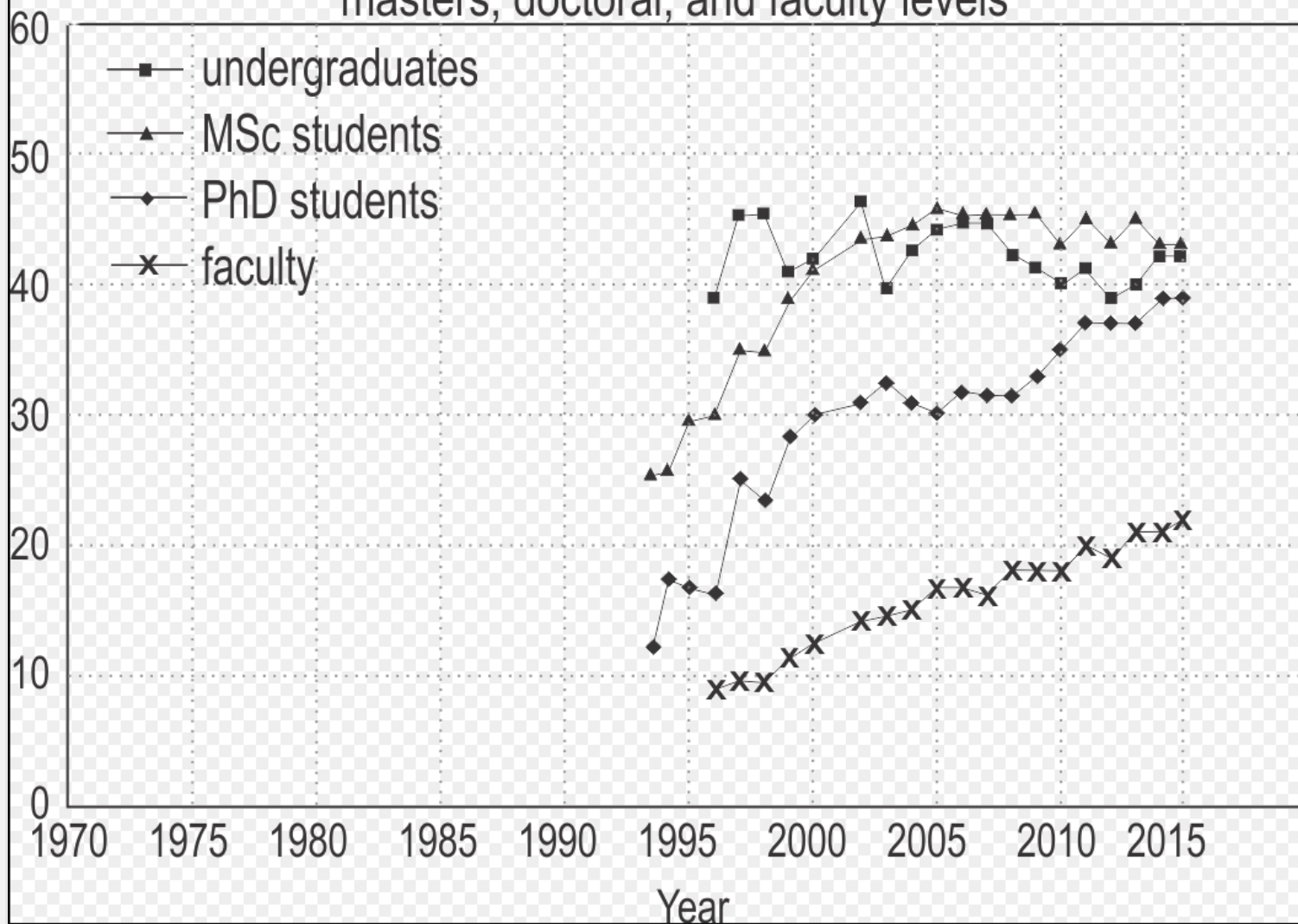
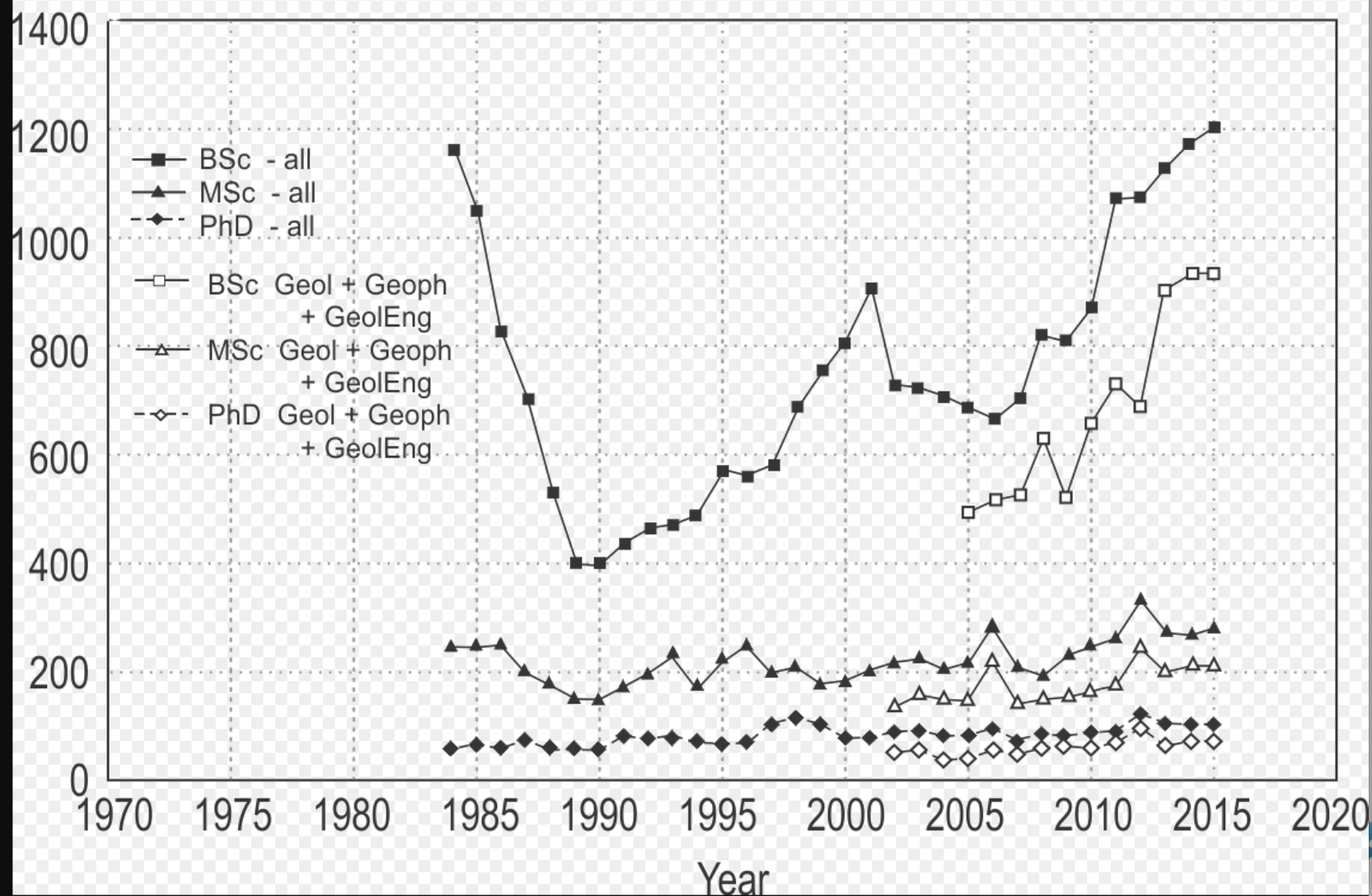


Fig. 3. Numbers of graduated students



Admissions - viewed nationally

1060

- Admissions Applications

559

- In Province degree applicants (52.7%)

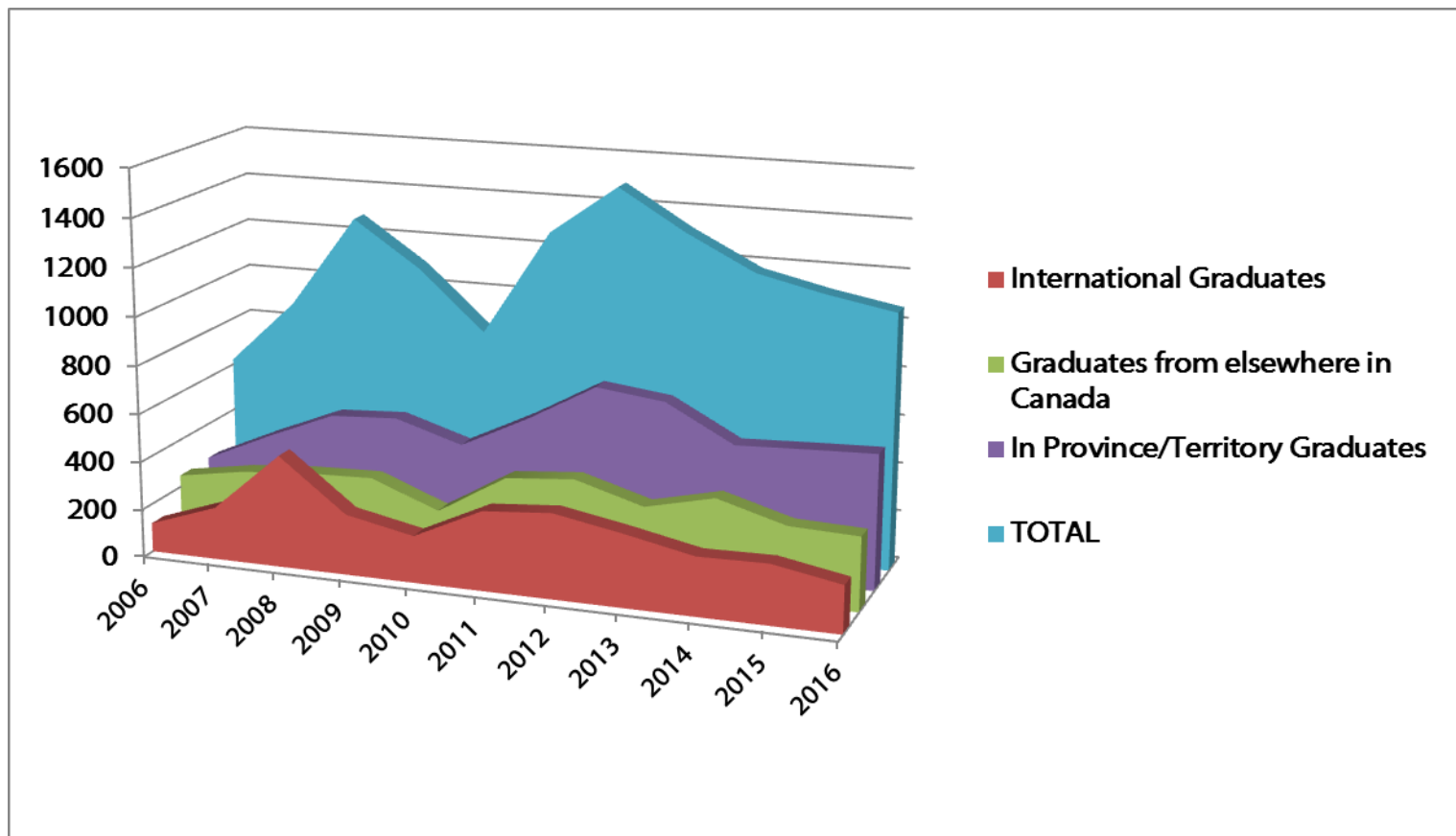
306

- Out of Province degree applicants (28.8%)

196

- Internationally educated applicants (18.5%)

Admissions - Over time



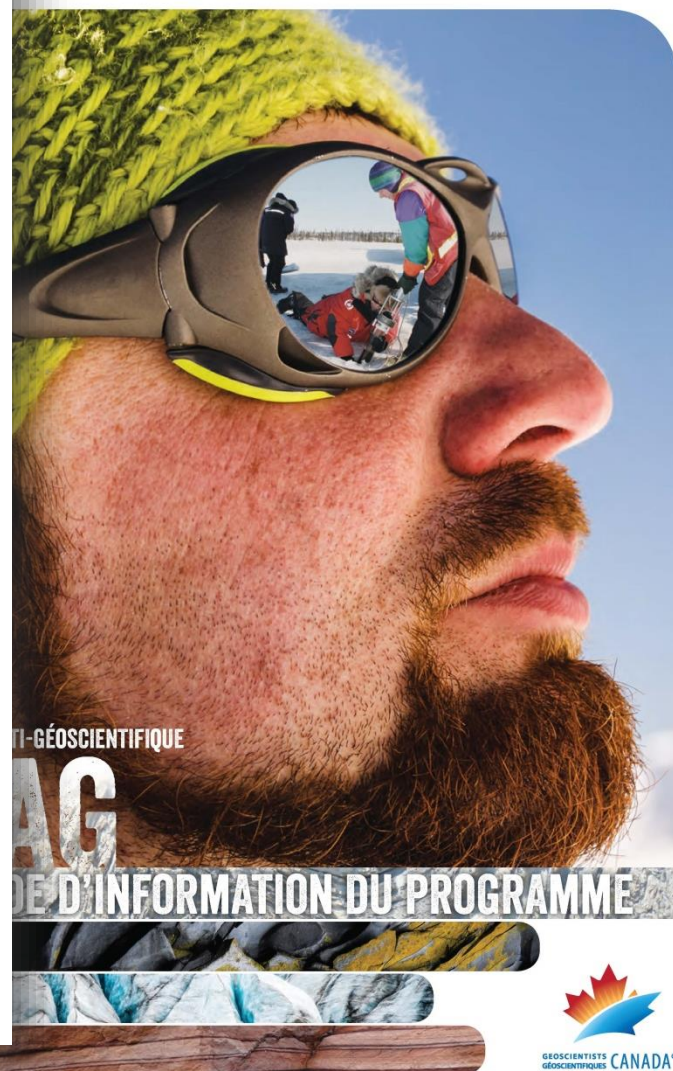
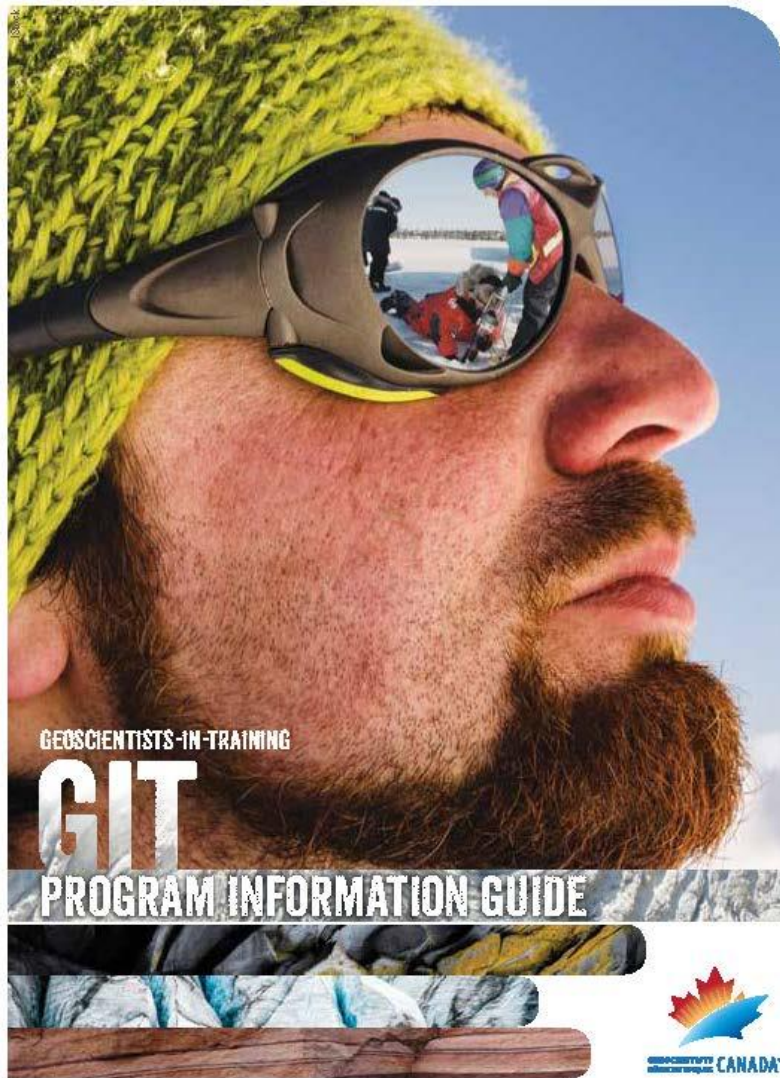


Geoscience Knowledge and Experience Requirements for Professional Registration in Canada



Connaissance et expérience des géosciences requises pour l'inscription à titre professionnel au Canada





Canadian
Geological
Foundation



Fondatio
Géologique
du Canada

Sunday, Jun

Oliver Bonham,
Chief Executive Officer
Geoscientists Canada/Géoscientifiques Canada
Burnaby, B.C. Canada.
obonham@geoscientistscanada.ca

Dear Mr. Bonham;

Following the deliberations of the Members and Directors of the Canadian Geological Foundation at its 52nd Annual Meeting, held in Whitehorse on May 31st, 2016, I am pleased to inform you that the Foundation has awarded a \$10,000 grant (#16-23) in support of your proposal 'Geoscience in Canadian Society/ Géosciences pour la Société canadienne'. It was a great proposal. This grant was made from the **Thayer Lindsley Endowment Trust Fund**.

It was the unanimous opinion of the grant selection committee that the booklet not be written by a geoscientist, but by a professional science writer.

Foundation grants must be claimed within two years of the meeting at which they are awarded. Your term for your grant extends to the Foundation's Annual Meeting in May 2018. An extension eligibility period will be considered if you submit a written request and explanation of the extension in time for consideration at the 2018 Annual Meeting.

Funds will be provided to you once the project is completed, upon receipt of a request for which must include:

- a short report describing: how the grant funds were used, how CGF support was acknowledged, and the impact your project has had to date (some measure of its success)
- digital copies of paid receipts
- to whom the cheque should be made payable, and
- an address to which the cheque is to be sent

Your request should be addressed to the Secretary of the CGF. Please note that standard practice is to issue one cheque, upon completion of the project.

By accepting these funds, the recipient acknowledges and agrees that CGF is not responsible in any manner for direct, indirect, special or consequential damages, however caused, arising out of the use of these funds. The recipient explicitly waives and releases forever any and all rights for

First content page Geoscience in Canadian society

- ▶ What is geology/geoscience?
 - ▶ Short definition
- ▶ Geoscience and society
 - ▶ Needs of society: water, energy, materials, hazards
 - ▶ High profile examples of where geoscience touches everyday lives
 - ▶ e.g. metals in cars and phones, rocks used for buildings, fuel for lights
 - ▶ Lesser-known examples of where geoscience touches everyday lives
 - ▶ e.g. food grown in soil, hazard prevention, energy!
- ▶ Geoscience-related industries, economics
- ▶ Understanding natural systems
 - ▶ Surface systems
 - ▶ Below the surface
 - ▶ Ancient systems
- ▶ Fragmented information/data are 'clues' to how these systems work
- ▶ Images:
 - ▶ Infographic showing several ways we interact with geoscience
 - ▶ Perhaps a simplified version of this MABC infographic - with more people: <https://s-media-cache-ak0.pinimg.com/originals/7/3/5/4/735441c1083a90675ed70f142416v2355107>



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MCMILLAN LLP
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VANCOUVER
BRITISH COLUMBIA V6E 4N7

Attention: Don Mainland

Propriétaire - Owner

GEOSCIENTISTS CANADA/GEOSCIENTIFIQUES CANADA

Marque de commerce - Trade-mark

PROFESSIONAL GEOSCIENTIST

Monsieur/Madame,

Nous accusons réception de votre lettre du 16 mars 2017 dans laquelle vous demandez une prolongation de délai additionnelle pour répondre à une lettre du Bureau datée du 13 octobre 2016.

Conformément à votre demande, une prolongation de délai vous est accordée jusqu'au **13 octobre 2017**.

Afin d'être accordée une prolongation de délai additionnelle, le requérant devra démontrer l'existence des circonstances exceptionnelles expliquant les raisons pour lesquelles il n'est pas encore en mesure de donner une réponse en bonne et due forme au rapport d'examen.

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Contact: Anne Tremblay
Section de l'examen/
Examination Section
819-635-5221

Canada

www.opic.ic.gc.ca
www.cipo.ic.gc.ca

OPIC



CIPO

Date	28 mars/Mar 2017
Votre référence - Your reference	60185V-0002
Numéro de dossier - File number	1768496



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BRITISH COLUMBIA V6E 4N7

Attention: Don Mainland

Propriétaire - Owner

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P.GEO

Monsieur/Madame,

Nous accusons réception de votre lettre du 16 mars 2017 dans laquelle vous demandez une prolongation de délai additionnelle pour répondre à une lettre du Bureau datée du 26 octobre 2016.

Conformément à votre demande, une prolongation de délai vous est accordée jusqu'au **26 octobre 2017**.

Afin d'être accordée une prolongation de délai additionnelle, le requérant devra démontrer l'existence des circonstances exceptionnelles expliquant les raisons pour lesquelles il n'est pas encore en mesure de donner une réponse en bonne et due forme au rapport d'examen.

Contact: Anne Tremblay
Section de l'examen/
Examination Section
819-635-5221

Canada

www.opic.ic.gc.ca
www.cipo.ic.gc.ca

OPIC



CIPO

Date	28 mars/Mar 2017
Votre référence - Your reference	60185V-0002
Numéro de dossier - File number	1768505

Dear Sir/Madam:

Receipt is acknowledged of your letter dated March 16, 2017 requesting an additional extension of time to reply to the office action of October 26, 2016.

In accordance with your request you are hereby granted an extension of time until **October 26, 2017**.

To be granted a further extension of time, the applicant will have to demonstrate exceptional circumstances justifying why it is not yet possible to file a proper response to the examiner's report.

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Your Career and Public Reporting

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University of XXXXX

DD/MM/YYYY

City, Province

C. A. Geoscientist(s), P.Geo.



Terms of Reference

Purpose

To provide an international forum under the auspices of IUGS for discussion of matters of common concern and interest among geoscientists and geoscientific organizations involved in professionalism, at the local, national and international level.

Functions and Responsibilities

- To act as a resource to IUGS on professionalism in the geosciences as they may influence and impact "Earth Science for the Global Community" in general – both now and in the future;
- To engage and seek participation from geoscience communities in all countries globally;
- To offer and provide leadership and knowledge transfer services to countries and geoscientist communities around the world seeking to introduce systems of professional governance and self-regulation in the Earth sciences;
- To facilitate a more 'joined up' geoscience community fostering better appreciation by academics and teachers of the professional skills that geoscientists need in the workplace, and facilitate better communication between academic and applied communities leading to more effective application of research findings and technology to applied practitioners and development of research programmes that truly address urgent issues;
- To provide geoscientists in all areas of professional practice and at all stages of their careers with practical guidance and support on professional matters.

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The Partnership Group for
Science and Engineering

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Symposia

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Supporting Organizations

Parliamentary Briefs

PAGSE Studies

PAGSE- Industry Canada

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The Partnership Group for Science and Engineering (PAGSE) ... a brief introduction

PAGSE, in partnership with the Natural Sciences and Engineering Research Council (NSERC), sponsors a monthly breakfast meeting known as "Bacon and Eggheads", to inform parliamentarians about recent advances in science and engineering.

PAGSE is a cooperative association of more than 25 national organizations in Science and Engineering, representing approximately 50,000 individual members from the industry, academia, and government sectors. It was formed in June 1995 at the invitation of the Academy of Science of the Royal Society of Canada to represent the Canadian science and engineering community to the Government of Canada.

The member organizations of PAGSE provide core support for its meetings and activities. These include defining the economic benefits of research in Canada and the effects of research budgets, analyzing intellectual property issues and other potential impediments to improving academic-industry symbiosis, showcasing the international dimensions of research projects and associations, and informing decision makers about science and engineering and their importance to Canada.

PAGSE represents an extensive resource that, through contracts and agreements, can hold events and undertake studies and assessments of benefit to government departments and agencies, to non-government organizations, and to the general public. In addition to "Bacon and Eggheads", PAGSE organizes an annual event focused on science and engineering issues. PAGSE also submits annually a brief to the House of Commons Standing Committee on Finance to provide consensus views from the science and engineering research community on policy issues and initiatives.



pagse



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INTRAW project (@intraw) · X

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intraw
International Raw Materials Observatory

TWEETS 202 FOLLOWING 95 FOLLOWERS 193 LIKES 161 LISTS 3

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INTRAW project
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Fostering international cooperation on raw materials
Brussels, Belgium
intraw.eu
Joined March 2015
57 Photos and videos

Tweets Tweets & replies Media

Pinned Tweet
INTRAW project @intrawproject · 12h
This is it, our #DiscoverINTRAW campaign is officially over... Read our post wrapping up the campaign! See you soon! bit.ly/DiscoverINTRAW...

DID YOU KNOW...
intraw
International Raw Materials Observatory

...what is the INTRAW project?

- A project that aims to foster international cooperation with Australia, Canada, Japan, South Africa and the US.
- A project that aims to enhance best practice in Europe, on raw materials research, education, trade, recycling and substitution.
- A project that will be materialised by the creation of the European Observatory on Raw Materials, that will stay active after the end of the funding period.

...and who is behind INTRAW project?

- It all started with a call from the H2020 program:
- The European Federation of Geologists decided to set up the project, and together with 13 other partners, from Europe and from the mentioned countries, they work on building up the European Observatory on Raw Materials.

INTRAW project @intrawproject · May 24
#DiscoverINTRAW has come to an end. But we are moving forward! Soon,

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Sign up now to get your own personalized timeline!
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- FORAM Project** @FORAM_project
- UNEXMIN** @UNEXMIN
- Mica project** @micaproject2015
- jVAMOS!** @ProjectVamos

Worldwide Trends

- روز رمضان** 407K Tweets
- #MemorialDayWeekend** 33.3K Tweets
- #Ramazan** 84.4K Tweets
- Bernardo Silva** 109K Tweets
- #FridayFeeling** 124K Tweets
- #WeWillNotLetHateWin** 124K Tweets

An IUGS Event



RFG2018

RESOURCES FOR FUTURE GENERATIONS | VANCOUVER, CANADA

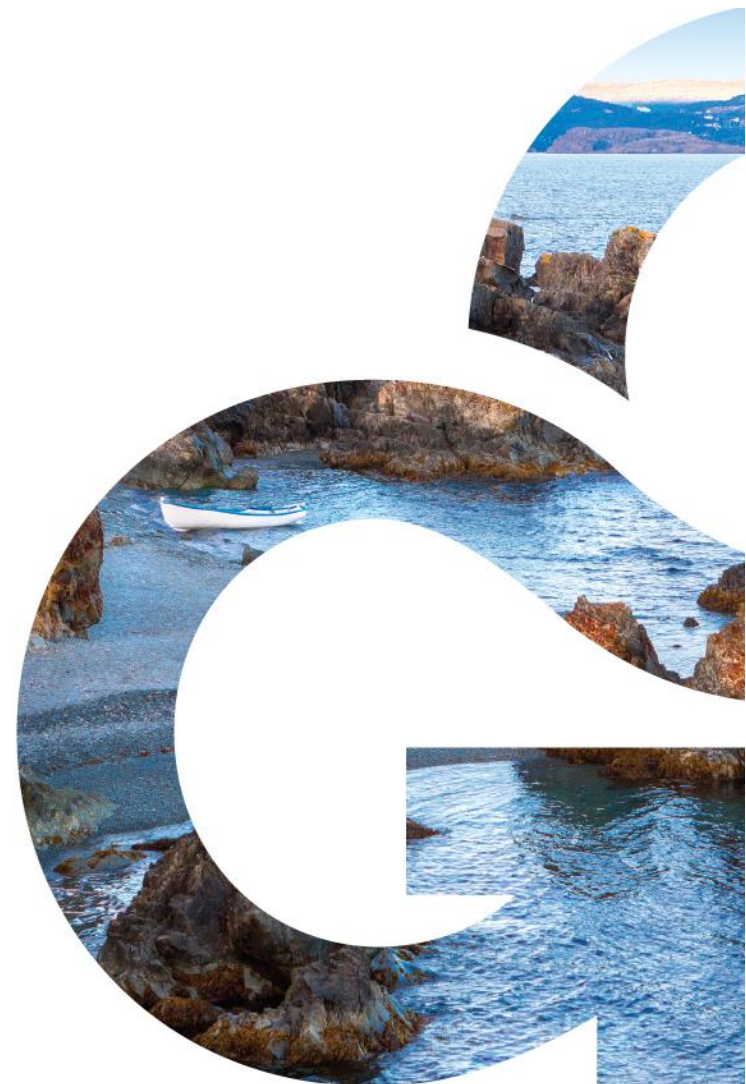
PREMIER INTERNATIONAL CONFERENCE ON
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June 16-21, 2018

Vancouver, British Columbia, Canada

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Vancouver Convention Centre, BC, Canada



CALL FOR ABSTRACTS

Abstracts will be accepted until January 15, 2018.

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Now is the time for Resources for Future Generations 2018—a unique international conference dedicated to the availability of energy, minerals, and water needed to sustain future generations. RFG2018 will showcase advances in earth science, societal and technical innovation, and education that can change the course of history. Be part of the sustainable future. **Submit an abstract.**

Energy	Minerals	Water	The Earth	Education & Knowledge	Resources & Society
Clean Energy-Geothermal	Applied Mineralogy	Management/Treatment	Applied Earth Sciences	Career	Ethics
Future & Frontiers	Critical Minerals	Sustainability	Earth Systems	Future	Geological Data-Surveys
Geological Setting	Environment-Performance	Water & Resources	Geophysics	Indigenous	Indigenous
Nuclear	Exploration Technology		Marine Geosciences	Public	Social
	Geochemistry & Exploration		Planetary Geology	Teaching	Sustainability
	Geometallurgy		Quaternary Systems		
	Major Minerals		Sedimentary Geology		
	New Sources		Structure/Tectonics		
			Volcanology & Petrology		



The cost to submit an abstract is **\$50 CAD** payable by credit card during the abstract submission process. This standard practice ensures that abstracts submitted are from committed authors/presenters and provide rich content for the technical program. Payment will be part of the submission process and will generate the appropriate confirmation and receipt.

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Submit your abstract at **RFG2018.org**



GEOSCIENTISTS
GÉOSCIENTIFIQUES CANADA

Geoscientists Canada in 2016

- 1 full time professional staff person
- ½ time support staff
- Consultants and outside service providers
- Office in Vancouver (Burnaby)
- Hosted by APEGBC
- 2016 Base Budget \$430,000
- Assessments funded
- Additional project funding (usually federally sourced)



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GÉOSCIENTIFIQUES

Focus Areas – Strategic Alliances





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Natural Resources Canada/Ressources naturelles Canada

Ensuring Canada is served by a skilled, versatile, reputable and accountable geoscience profession

Geoscientists Canada is the national organization of the 10 provincial and territorial regulatory bodies that govern Canada's professional geoscientists and geoscientists-in-training. Geoscientists Canada co-ordinates development of high national standards of admissions, competency, practice and mobility to ensure that Canada is served by a skilled, versatile, reputable and accountable geoscience profession. [Learn more here](#)

Our Members

Alberta

British Columbia

Manitoba

New Brunswick

Newfoundland and Labrador



GEOSCIENTISTS
GÉOSCIENTIFIQUES CANADA



FLMM – FQR - ACTION PLAN – GEOSCIENCE as of 25 June 2015

Potential Priorities for Action	Relevant Players	Timelines	Potential Objectives
FQR PATHWAY: Assessment & Recognition			
<u>Map competency profile to the Geoscience</u>	Lead: Geoscientists	by Sept 2017	The main outcome will be a revised validated competency-based



Funding Proposal Concept 5 October 2015

Admissions Support Tools (AST) Project Phase II

Geoscientists Canada/Géoscientifiques Canada is the organization of the regulatory bodies that govern geoscience practice in the provinces and territories; its mandate is to conduct collective collaborative work on behalf of its nine member regulatory bodies – its constituent associations (CAs).

Geoscientists Canada intends to submit a proposal to Economic and Social Development Canada (ESDC) for funding - under ESDC's Foreign Credential Recognition Program (FCRP). In July 2014, it was announced by the Forum of Labour Market Ministers (FLMM) that geoscientists had been added to the list of targeted professions that are part of the Pan-Canadian Framework for the Assessment & Recognition of Foreign Qualifications (FQR)

The planned work will further assist the CAs with admissions consideration of both internationally-trained and Canadian-trained geoscientists applying for licensure to practice their profession across Canada. The amount of funding anticipated is on the order of \$660,000 - for work on 3 distinct, yet interrelated, components.

- Component 1 To map the *Competency Profile for Professional Geoscientists at Entry to Practice*¹ to the *Geoscience Knowledge and Experience Requirements for Professional Registration in Canada*² (GKE)
- Component 2 To identify competency-based assessment tools that might be developed
- Component 3 To develop an on-line self-assessment tool for all prospective applicants

The project will take 24 months to complete. In-kind support will be provided by Geoscientists Canada and its

rd.

pping is complete it will be possible to determine
ols that may be needed to assess the readiness-to-
pplicants.

to get there will be an outcome in itself, as it will engage
olved in geoscience admissions across Canada in
new benchmark that the CAs will have helped build
agree upon.

ysical deliverable will be a new and revised GKE colour
rencing the competency profile, which will be both a
int item and an interactive electronic document.

oklet has many uses. As the professional primary
tional source of information on admissions
i, the GKE is equally important to those trained abroad,
ose trained (or training) in Canada.





Photos used with permission www.archbould.com

Questions?

“Moving Forward”

Why? *Improving regulated practice*

Vision? *Excellence in geoscience professionalism in Canada*

Mission? *In support of the CAs, to improve effectiveness of regulation in Canada to achieve excellence in the geoscience profession*

Values? *Professionalism, Collaboration, Commitment, Service*



GEOSCIENTISTS CANADA
GÉOSCIENTIFIQUES

Statement of the Purpose of the Organization

Geoscientists Canada/Géoscientifiques Canada (Geoscientists Canada) exists to serve its Members—the provincial and territorial constituent associations/ordre—whose individual legislative mandates are to regulate the practice of geoscience.

Geoscientists Canada's purpose is to engage with and facilitate cooperation among its Members, undertake work on their behalf, represent them nationally and internationally, and support its Members. In fulfilling its purpose, Geoscientists Canada will carry out various activities, including:

1. **Championing effective regulation of the geoscience profession in Canada in the public interest;**
2. **Aligning regulation of the profession of geoscience Canada-wide;**
3. **Enhancing public confidence in the competency and integrity of geoscientists in the practice of their profession;**
4. **Providing a voice for the provincial and territorial constituent associations/ordre nationally and internationally;**
5. Facilitating assemblies, conferences, and educational forums;
6. Cooperating with other associations or bodies having objectives similar or comparable to Geoscientists Canada; and
7. Protecting, maintaining, or dealing with trademarks or other intellectual property pertaining to the geoscience profession or its objects.

