

# Canadian Prairies Group of Chartered Engineers

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2015 Annual Report



[www.cpgce.org](http://www.cpgce.org)

*CM Bellod*

CPGCE Chairperson

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CPGCE Treasurer

**ice**  
Institution of Civil Engineers

**IET** The Institution of  
Engineering and Technology

Institution of  
**MECHANICAL  
ENGINEERS**  
Improving the world through engineering

The Institution  
of **Structural  
Engineers**

# Canadian Prairies Group of Chartered Engineers

## 2015 Annual Report

### Scope

The intent of the Canadian Prairies Group of Chartered Engineers (CPGCE) Annual Report is to inform its Members of the purpose, current organization, objectives and achievements of the Group in 2015.

### Introduction

The CPGCE is a multi-disciplinary group of members of The Institution of Civil Engineers (ICE), The Institution of Engineering and Technology (IET), The Institution of Mechanical Engineers (IMechE) and The Institution of Structural Engineers (IStructE), located in Alberta, Saskatchewan and the Northwest Territory. The CPGCE is a learned organization with objectives to promote engineering professionalism, institution membership, networking and understanding of engineering topics of interdisciplinary engineering interest.

The CPGCE fulfills its objectives through a program of regular technical presentations, other events and the CPGCE annual scholarship competition, open to students studying an engineering discipline covered by our institution sponsors, at a University or Technical College within the Canadian Prairies region.

The CPGCE represents the sponsor Institutions' to members locally and assists local professional engineers, technologists and technicians with aspirations to register professionally with one of the sponsoring Chartered Institutions in the United Kingdom.

### 2015 CPGCE Committee

As defined by rules of the CPGCE constitution a Committee of directors is established for each annual operating session of the CPGCE. Committee members are nominated and confirmed through the CPGCE AGM in accordance with the constitution. Additional Committee members may be proposed and confirmed by the CPGCE Committee as required to fill vacancies to meet objectives of the Group.

	Position	Name	Institution
1	Chairperson	Mohamed Jaffer	IET
2	Vice Chairperson	Peter Gibby	ICE
3	Past Chairperson	Nigel Shrive	ICE
4	Treasurer	Robert Enever	IET
5	Deputy Treasurer	Mario Micallef	ICE
6	Secretary	Rick Marshall	IMechE
7	Technical Member	David Dean	IET
8	Technical Member	Mia Jovic	IET
9	Technical Member	Emily Hicks	IET
10	Technical Member	Robert Salt	IMechE

11	Technical Member	Colin Pollard	IStructE
12	Technical Member	Richard Coldbeck	IET
13	Technical Member	Niamh Ni Chroinin	ICE

### CPGCE Board Resignations during the 2015 Session

	Position	Name	Institution
1	Vice Chairperson	Peter Gibby	ICE
2		Gobind Khiani	

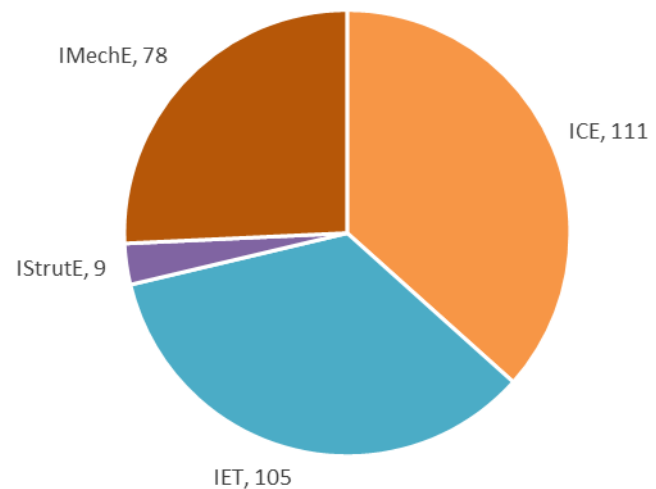
The CPGCE Committee would like to acknowledge the long service and valuable contributions of Bob Enever, who after serving in excess of 20 years on the CPGCE Committee retired at the end of his Committee term in December 2015.

### 2015 CPGCE Sponsoring Institution Liaison Members

	Name	Institution	Period
1	Peter Gibby	ICE	Until October
2	Niamh Ni Chroinin	ICE	October onward
3	David Dean	IET	Acting representative
4	Bob Salt	IMechE	
5	Colin Pollard	IStructE	

### Membership

Members of CPGCE are all classes of the Sponsoring Institutions, provided that they reside or practise their profession within the operating area of the CPGCE. Engineers, Technologists or Technicians who are not members of the Sponsoring Institutions but who are members of other chartered Institutions or local professional engineering organizations, whose professional attainments entitle them, in the opinion of the Committee, to election, may be recommended by the Committee to the Sponsoring Institutions for admission to membership of the Group.



The CPGCE region membership on record at the end of 2015 was 316. This number represents institution membership advised by institutions and those other individuals registered with CPGCE.

The number of members from the IET cannot be confirmed.

## Activities Completed in 2015

### Annual General Meeting

The 2015 CPGCE Annual General Meeting and dinner was held on January 12<sup>th</sup>, 2015 at Fort Calgary. The Keynote Speaker was Dr. Thomas P. Keenan of the University of Calgary and his topic was “Technocreep – The Surrender of Privacy and the Capitalization of Intimacy”. AGM minutes are available to sponsoring institution members from the CPGCE website.

### Committee Meetings

Ten CPGCE Committee meetings were held during the year. Meeting minutes are available to sponsoring institution members from the CPGCE website.

### Technical Presentations

Eight technical presentations were planned for 2015. The table below identifies the date, topic, presenter and number of attenders for the events held.

Date	Topic	Presenter	Attendees
11 February	Improving Efficiency & Capacity whilst Reducing Emissions	Roger Newnham, CEng FIMechE	37
11 March	PATW – To the Ends of the Earth – Ocean Science of the Antarctic	Connor Scheu	34
8 April	Engineering Innovations in Brain Imaging”	Dr. Bruce Pike	52
13 May	Cracking the Enigma”	Derrick Harrison	58
10 June	AlbertaSat Project”	Charles Nokes	33
9 September	British Army Training Unit Suffield (BATUS) Spectrum of Operations”	Lt Col Nick Sealy-Thompson and Gareth Davis MBE	54
14 October	Development & Optimization of thermal EOR methods for unconventional – from concepts to field applications”	Dr. S. A. Mehta & Dr. Robert Moore	31
25 November	Biomimicry: The Next Engineering Revolution?”	Marjan Eggermont	41

## CPGCE Scholarship Competition

For 2015 the CPGCE scholarship competition 11 submissions from students enrolled in engineering studies at educational establishments within the CPGCE region were received and evaluated by the Scholarship Committee; Nigel Shrive, Mario Micallef and Emily Hicks. The 2015 scholarship winners were Aliya Lakhani of the University of Alberta and Jonathan Schoepp of the University of Alberta

## IET Present Around the World (PATW) Calgary Event

Mia Jovic and Emily Hicks of CPGCE acted as judges for the 2015 PATW event at the request of the PATW organizers.

## Financial Status

The CPGCE acts in a not-for-profit role and receives its annual operating funding from the IMechE on behalf of four sponsoring institutions. The Institution of Mechanical Engineers has been delegated the lead role by our sponsoring Institutions ICE, IStructE, IET and IMechE, until otherwise decided by these sponsors.

### 2015 Financial Report

Revenue	CAN\$	Expenditure	CAN\$	Notes
<b>Funds in Bank-1 Jan 2015</b>	<b>19,513.04</b>	<b>Expenses</b>		
Chequing -Opening balance	12,918.00	▪ 2014 AGM <sup>5</sup> & Presentation	3,693.72	
Savings -Opening balance	6,595.04	▪ Scholarship/Outreach	5,290.13	
<b>Revenues</b>		▪ Technical Presentations & committee meetings	7,145.80	1 committee meeting canceled due to inclement weather
▪ Institution Advance 2014 <sup>1</sup>	nil	▪ Communications	1,153.43	
▪ Institution Contributions	13,132.49	▪ Other operating expenses	1,100.00	
▪ Cash Contributions <sup>2</sup>	1,083.50	▪ Bank Charges Chequing	147.23	
▪ Bank Interest (31 Dec 2014)	2.01 <sup>3</sup>	▪ Bank Charges Savings	2.00	
▪ Other revenue	33.40			
<b>Total 2015 Revenue</b>	<b>14,227.90</b>	<b>Total 2015 Expenses</b>	<b>18,532.31</b>	
Chequing Closing Balance Dec 31, 2015	8,613.59			
Savings Closing Balance Dec 31, 2015	6,595.05	2014 AGM plus Awards	8,983.85	
<b>Funds in bank<sup>4</sup> Dec 31, 2015</b>	<b>15,208.64</b>	Total 2015 Operating Funds Jan 1,2015 to Dec 31, 2015	33,740.94	

Note:

- 1 \*\*On Jan 1<sup>st</sup>, 2015 funds promised from IMechE in three tranches totaling \$ 13,132.49
- 2 Door cash receipts at AGM. (plus exceptional \$23.50)
- 3 Savings interest and charges balance at \$2.00
- 4 CPGCE has two accounts at the Chinook branch of the TD Canada Trust bank
- 5 The 2015 AGM is held in January 2015 and paid for in February 2015.

## 2016 CPGCE Committee

The CPGCE Committee was confirmed at the February 2016 AGM and is identified in the table below.

	Position	Name	Institution	Role
1	Chairperson	Colin Pollard	IStrutE	IStrutE Liaison
2	Vice Chairperson			
3	Past Chairperson	Mohamed Jaffer	IET	
4	Treasurer	Mario Micallef	ICE	
5	Deputy Treasurer	Emily Hicks	IET	
6	Secretary	Rick Marshall	IMechE	Webmaster
7	Communications	Niamh Ni Chroinin	ICE	ICE Liaison
8	Technical Member	Mia Jovic	IET	Newsletter
9	Technical Member	David Dean	IET	
10	Technical Member	Robert Salt	IMechE	IMechE Liaison
11	Technical Member	Richard Coldbeck	IET	IET Liaison
12	Technical Member	Nigel Shrive	ICE	
13	Technical Member	Arun Kumar	IMarEST	
14	Technical Member	Derrick Stableford	IET	

## 2016 CPGCE Objectives

- a. Hold the CPGCE Annual General Meeting and 9 regular Committee meetings
- b. Hold 8 Technical Presentation Events
- c. Hold the 2016 CPGCE scholarship competition – to be identified in March 2016
- d. Support sponsoring institution and membership development in the Prairies Region
- e. Implement a Communications and Outreach program to build engagement with CPGCE. Inter alia this will include:
  - Maintaining the CPGCE website
  - Publishing of 2 CPGCE Newsletters
  - Maintaining the CPGCE Social media sites e.g. MyCommunity, LinkedIn
  - Provision of judging support for local IET PATW events

## 2016 CPGCE Technical Presentation Schedule

The proposed CPGCE technical presentation schedule for 2016 is identified in the table below.

<b>Date</b>	<b>Topic</b>	<b>Presenter</b>
10 <sup>th</sup> February	The Changing Requirements in Engineering Education	Dr. Bob Brennan
9 <sup>th</sup> March	Canadian Light Source (synchrotron)	Dr. Tom Regier
13 <sup>th</sup> April	Canadian DND – DRDC Suffield Biological & Chemical Research Centre	Dr. Scott Duncan
11 <sup>th</sup> May	New International Terminal at YYC	Rob Adamson, Architect, AAA, OAA, NSAA. Principal, Dialog Design
8 <sup>th</sup> June	D-Day Engineering Challenges & Solutions	E. (Eppo) van Weelderden
14 <sup>th</sup> September	Ending the Guessing Game for Infectious Patients	Robert Mayall - PATW Winner
12 <sup>th</sup> October	Airside Operations at YYC	Doug Francoeur YYC Director, Airfield Compliance. Supported by: Roy McLeod, YYC Director Airside Services. Introduction by: Bernie Humphries, YYC VP Operations
9 <sup>th</sup> November	Not Confirmed	