

Canadian Prairies Group of Chartered Engineers

2014 Annual Report



www.cpgce.org

CPGCE Chairperson

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

2014 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 2014.

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, Northwest Territory and Nunavut. 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 its 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.

2014 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	Tom Martin	ICE
6	Secretary	Rick Marshall	IMechE
7	Technical Member	David Dean	IET
8	Technical Member	Mia Jovic	IET
9	Technical Member	Mario Micallef	ICE
10	Technical Member	Robert Salt	IMechE
11	Newsletter	Ray Marsh	IET

CPGCE Board Resignations During The 2014 Session

	Position	Name	Institution
1	Scholarship	Adrian Dumbrava	IChemE*
2	Scholarship	Bob Sparrow	IChemE*
3	Membership dB	Dilruk Gunsekera	IET
4	Webmaster	Arun Kumar	IMarineE
5	Newsletter	Teddy Arevalo	IStructE
6	IMechE Liaison	Alastair Milne	IMechE
7	Membership dB	Maina Waiguru	ICE

The CPGCE Committee would like to acknowledge the long service and valuable contributions of Tom Martin, who after serving 20 years on the CPGCE Committee retired at the end of his Committee term in December 2014.

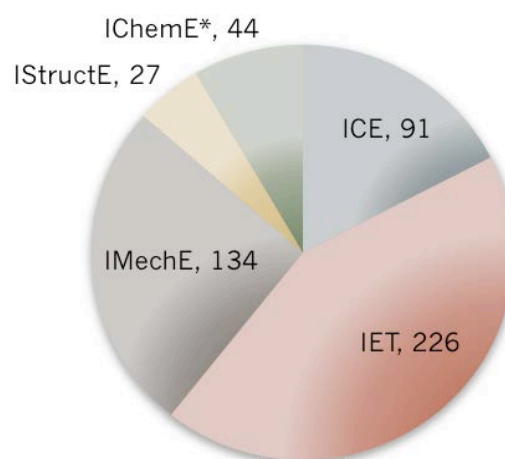
2014 CPGCE Sponsoring Institution Liaison Members

	Name	Institution	Period
1	Nigel Shrive	ICE	Until October
2	Peter Gibby	ICE	October onward
3	Alan Rhodes	IChemE*	
4	Ray Marsh	IET	
5	Alastair Milne	IMechE	Until September
6	Bob Salt	IMechE	September onward
7	John Charrett	IStructE	

*Note: In 2014, IChemE confirmed it was no longer willing to be a sponsoring institution.

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 2014 was 522. This number represents institution membership advised by institutions and those other individuals registered with CPGCE.

Activities Completed in 2014

Annual General Meeting

The CPGCE Annual General Meeting and dinner was held on February 1st, 2014 at Fort Calgary. The Keynote Speaker was Dr. Tom 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 2014. The table below identifies the date, topic, presenter and number of attendees for the events held. Due to a severe storm and associated power outages in Calgary, the presentation scheduled for September 2014 was postponed to April 2015.

Date	Topic	Presenter	Attendees
24 January	AGM Planetary Robotic Explorers	Dan Hladuik	50
12 February	The Flood of 2013, Effects on structural and electrical Infrastructure	Andre van Dijk, P.Eng., VP Operations ENMAX Power Corp. and Nigel Shrive, P.Eng., D.Phil, Professor, Civil Engineering, University of Calgary	43
12 March	Benefits of Direct Pipe	Wayne King, P.Eng., President & CEO, Innovative Pipeline Crossings Inc.	26
9 April	Ensuring Safe Railway Shipments	Dr. Chris Bunce, GM of Environment, CP Rail	28
14 May	HVDC Engineering	Steve Height, P.Eng.	27
11 June	Continuous Emissions Monitoring Systems (CEMS)	Kurt Hanson, P.Eng., President Green Inc.	24
10 September	Engineering Innovations in Brian Imaging (Postponed to April 2015)	Dr. Bruce Pike, Professor of Radiology & Clinical Neurosciences, University of Calgary	Cancelled due to bad weather
8 October	Gas Hydrates and the Influence of Climate Change	Dr. Jocelyn Grozic, Associate Professor University of Calgary & Dr. Jeffrey Priest, Canadian Research Chair, Geomechanics of Gas Hydrates, University of Calgary	16
12 November	Design and Construction of the Glacier Skywalk	Dr. Simon Brown, P.Eng., Principal, Read-Jones-Christofferson Ltd.	33

CPGCE Scholarship Competition

For 2014 the CPGCE scholarship competition was expanded to include 2 scholarships. 25 submissions from students enrolled in engineering studies at educational establishments within the CPGCE region were received and evaluated by the Scholarship Committee; Nigel Shrive, Tom Martin and Mario Micallef. The 2014 scholarship winners were Nichole Barber of the University of Regina and Waheed Zaman of the University of Calgary.

IET Present Around the World (PATW) Calgary Event

Nigel Shrive, David Dean, and Bob Enever of CPGCE acted as judges for the 2014 PATW event at the request of the PATW organizers.

IET Americas Communities Conference

The CPGCE Vice Chair Peter Gibby and the IET Liaison Representative Ray Marsh attended the IET Communities Conference America's held in San Francisco in November 2014. At this IET funded event, information on CPGCE, the organizations objectives and activities was shared with other attendees. The report on the conference was addressed in the Winter 2014.15 CPGCE Newsletter.

Financial Status

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

2014 Financial Report

Sources of Funds	\$	Use of Funds	\$	Notes
<ul style="list-style-type: none"> ▪ Cash in Account (Jan 1st 2014) ▪ Institution Advance 2014 ▪ Contributions Received ▪ Bank Interest (Dec 31st 2014) 	10,969.91 13,232.00 1,558.70 0.00	<ul style="list-style-type: none"> ▪ AGM & Presentation ▪ Technical Presentations ▪ Scholarship/Outreach ▪ Communications ▪ Other operating expenses ▪ Other liabilities 	4,600.52 3,921.73 3,505.93 3,096.36 1,874.09 843.68	One presentation cancelled due to weather Incl. New website
Total 2014 Operating Funds	25,760.61	Total 2014 Expenses	17,842.31	
Cash Balance (Dec 31 st 2014)	7,918.30	Outgoings in Jan 2015		
		AGM plus Awards	~7,000.00	

Canadian Prairies Group of Chartered Engineers | 2015-02-01

2015 CPGCE Committee

The CPGCE Committee was confirmed at the January 2015 AGM and is identified in the table below.

	Position	Name	Institution	Role
1	Chairperson	Mohamed Jaffer	IET	
2	Vice Chairperson	Peter Gibby	ICE	ICE Liaison
3	Past Chairperson	Nigel Shrive	ICE	Membership dB
4	Treasurer	Robert Enever	IET	
5	Deputy Treasurer	Mario Micallef	ICE	
6	Secretary	Rick Marshall	IMechE	Webmaster
7	Technical Member	David Dean	IET	
8	Technical Member	Mia Jovic	IET	Newsletter
9	Technical Member	Emily Hicks	IET	
10	Technical Member	Robert Salt	IMechE	IMechE Liaison
11	Technical Member	Ray Marsh	IET	
12	Technical Member	Colin Pollard	IStructE	IStructE Liaison – March >
13	Technical Member	Richard Coldback	IMechE	
14	Technical Member	Niamh Chroinin	ICE	

The 2015 CPGCE IET liaison member has yet to be confirmed with the IET.

2015 CPGCE Objectives

- a. Hold the CPGCE Annual General Meeting and 9 regular Committee meetings
- b. Hold 8 Technical Presentation Events
- c. Hold the 2015 CPGCE scholarship competition
- 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:
 - The launch of a new CPGCE website
 - Publishing of 2 CPGCE Newsletters
 - Maintaining the CPGCE Social media sites e.g. IET's MyCommunity, LinkedIn
 - Provision of judging support for local IET PATW events

2015 CPGCE Technical Presentation Schedule

The proposed CPGCE technical presentation schedule for 2015 is identified in the table below.

Date	Topic	Presenter
11 February	Improving Efficiency and Capacity while Reducing Emissions	Roger Newnham
11 March	<ul style="list-style-type: none"> ▪ Introduction to the IET PATW competition ▪ To The Ends of The Earth - Ocean Science of the Antarctic 	Emily Hicks Connor Scheu (Winner of 2014 Southern Alberta PATW)
8 April	Engineering Innovations in Brian Imaging	Dr. Bruce Pike, Professor of Radiology & Clinical Neurosciences, University of Calgary
14 May	Overcoming Battlefield Communications Challenges - Innovative Communication System Upgrades for the Canadian Army	Sandra Seidle P. Tech (Eng.), General Dynamics Canada
10 June	AlbertaSat Project	Charles Nokes, Project Manager, Alberta Sat
9 September	Canadian Department of Defence (DND) - Subject to be confirmed	To be confirmed
14 October	Down Hole Assisted Combustion	To be confirmed
11 November	British Army Training Ground Suffield (BATUS) - Subject to be confirmed	To be confirmed