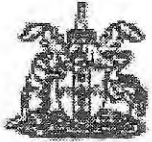


Canadian Prairies Group NEWSLETTER of Chartered Engineers

Spring 2000



Institution of
Civil Engineers

Liaison
Derrick
Harrison



IMECH E

Liaison
David Elson



IEE

Liaison
Paul Camwell

IChemE

Institution of
Chemical Engineers

Liaison
Alan Rhodes



Institution of
Structural Engineers

Liaison
Pai Lin Li

A Message from our new Chairman

On behalf of the 2000 executive, I wish all members and readers a very happy and prosperous New Year. We hope that our activities over the coming months will be of sufficient interest to you that you will attend some meetings and functions.

At the moment a varying 10% of the Calgary-area membership attends the eight monthly technical meetings held in Calgary. The numbers increase for special events like the visit this year of the Director General and the President of the IMechE. At our monthly meetings, the topics vary across the engineering disciplines we represent, and are presented at a technical level for all to understand. We try to avoid talks that go into detail that only the initiated few can understand. Please take the time to join us one evening and find out something about your own or an entirely new (for you) engineering development or project. You will find the atmosphere relaxed, the company pleasant, the discussion informative and your time even counts for CPD hours!

Your executive would like to be responsive to the needs of the membership. Please let any one of us know if you would like to have a presentation on a particular subject, or if there is something you would like to see CPGCE doing. One item of discussion at the moment, for example, is the well worn phrase "the new millennium".



Nigel Shrive

Should CPGCE be doing something special to mark this singular passage of time, and if so, what? Suggestions have ranged tremendously in the time and effort required. What would you think suitable - building something in a City park, something on the Trans-Canada Trail? Would you be willing to help in any such project? Call us if you have an idea you would like to share, or services to offer.

You will have gathered from this message that Dave Elson has stepped down after five years of hard work as Chairman of the executive. We are all deeply grateful for

his efforts and his willingness to stay in the chair when others like myself thought the job of chairman was too demanding for us to be able to give it the time it deserved. Dave continues to volunteer his time as past-chair and is spear-heading the organization of the visit from IMechE officials in the summer. Many thanks, Dave. We hope that all members will join us in welcoming our visitors to Alberta.

The executive looks forward to receiving input from members and to establishing a programme for the year that will increase member participation. I am pleased to serve as chair of such an energetic group of volunteers.

Nigel Shrive

I.Mech.E. Presidential Visit in July

The following tentative programme is being arranged to enable our members to meet the President and Director General of the Institution of Mechanical Engineers informally at a BBQ and formally at a dinner meeting.

Sunday July 9 th BBQ at the Elsons' - Meet the I.Mech.E Visitors Contact: Dave & Liz Elson

Tuesday July 11 th Joint Social/Technical Dinner Meeting, Palliser Hotel.

Contact: Jamil Mattar or Dave Elson

It is also hoped to hold a **breakfast meeting** to allow I.Mech.E members to meet the officers of their Institution. **Particulars of this meeting will be promulgated later to I.Mech.E members.**

ANNUAL GENERAL MEETING

A combined Dinner, AGM and Dance was held at the Palliser Hotel in downtown Calgary on Saturday, 15th January, 2000.

This combined format has been used for several years and was once again successful. The evening was full of surprises, especially for our retiring Chairman David Elson, who has served as Chairman for the past five years. Under his Chairmanship, the Group's activities have expanded tremendously, particularly in increased attendance at the technical meetings, which may have cost our sponsoring institutions a little more in support costs, but the success and recognition within the engineering profession is well worth it.

At the AGM, Nigel Shrive was elected Chairman, Paul Camwell, Vice Chairman, Bill Meadowcroft, Hon. Secretary and Bob Enever, Hon. Treasurer. David Walker retired, Bob Frost was welcomed back to the Executive after an absence of two years and David Phillips was elected as a new member of the Executive committee. The full listing for the 2000 Executive committee can be found on the last page of this Newsletter.

After the dinner and AGM formalities had been concluded, the assembly was addressed by Sue Evison, guest of honour and representative from APEGGA.



David then thanked all who had assisted him during his tenure as Chairman, including the spouses of members. He was presented with a tankard by Nigel Shrive in recognition of that service. We understand that David believes his present tankard leaks because the liquid level seems to go down very quickly. Possibly the fluid disappears more from the top than the bottom!

Next came the presentation of a mini decanter and tots by Robert Frost on behalf of the Institution of Mechanical Engineers, our co-ordinating body. (See Photo, centre)

Liz Elson was not forgotten, she was presented with a dish from Port Meirion in Wales by Margaret Camwell in recognition of her hospitality at many social functions and her support for David.

But there was more to come. Paul Camwell gave a humorous tribute (sort of a 'roast') during which David was presented with several items including a large pair of spectacles complete with neck cord and a 'locator beacon' - it seems he is forever losing his glasses.

The evening concluded with dancing to "Top Hat tunes."

We look forward to continuing success under the new chairmanship of Nigel Shrive.

TECHNICAL PROGRAMME FOR 2000

All technical meetings are held at the Danish Canadian Club, 727, 11th Ave SW, Calgary on Wednesday evenings at 6.30 p.m. for 7 p.m. start unless otherwise noted.
Spouses and guests are always welcome.

February 23	Alliance Pipeline	June 21	Calgary Transportation Infra-structure Projects R.Keith (City of Calgary)
Speaker:	N.Horner	Speaker:	
March 15	Information Technology in Project Management D.Phillips	September 20	Enhancing Business Opportunities, Alberta-U.K. C. Grue (British Trade Office)
Speaker:		Speaker:	
April 19	The Calgary Convention Centre	October 18	The Millennium Project - Suncor R.Sparrow (Bantrel Inc.)
Speaker:	B. Graham (Partner, Graham Edwards)	Speaker:	
May 17	Fuel Cells R.Boesma (Global Thermal Electric)	November 15	Heavy Mining Equipment W.Mateychuk
Speaker:		Speaker:	

SOCIAL PROGRAMME

A fairly extensive programme has been planned for members (and guests) this year. You are encouraged to attend.
For up-to-date information, please refer to the web page "What's New" or e mail notice.

PLEASE NOTE: all members are invited to participate.

Thursday March 30 **Wine Tasting Evening at Willow Park Liquor Store** Meet for 7 p.m. start.
Cost \$5 per person
Wines of Argentina will be featured.
Booking Date March 20th at the latest

Contact: Alan & Anne Rhodes

Saturday April 29 **IMAX Theatre, Eau Claire, followed by Dinner at the Sheraton Red Devil**
Show **Fantasia 2000** meet for 7 p.m. start. The back two rows are booked for us, so no neck craning!
Cost **(IMAX only) \$9 per person**
Booking Date As soon as possible
Dinner 8.30 p.m. for a meal of your choice at the Eau Claire Sheraton Red Devil.
An area has been reserved for our group

Contact: Paul & Margaret Camwell

Saturday May 13 **Hunter Jumper & Cutting Horse Show at Spruce Meadows, followed by Potluck Supper at the Camwells'**
Meet Spruce Meadows around 2 p.m. and attend the horse show.
Then, back to Midnapore to the Camwells' for a potluck supper.

Contact: Paul & Margaret Camwell

Saturday June 24 **Summer Hike to Barrier Lake Fire Lookout, Kananaskis**
Meet at 9.30 a.m. Parking area West of Hwy 40 at Barrier Dam which is located at the North end of Barrier Lake, about 1 Km. South of Hwy 69 Junction (approx 1.5 to 2 hrs. from Calgary)
Directions From Calgary travel West on Hwy 1 to Kananaskis turnoff at Hwy 40, South on Hwy 40 to Barrier Lake Info Centre on Right. Go past the Centre for 2 Km. and take turn-off on right.
The Hike It is about 4.7 Km. to the Old Pigeon Lookout site, where there is an impressive view of the valley. If we are still fit, another 0.5 Km will bring us to the large microwave tower - a good place for lunch. From this point it is 1 Km. to the Barrier Lake Fire Lookout, where the view is spectacular including Exshaw and the Calgary skyline.

As this event is well into the future, please note and make contact to confirm the final details

Contact: Bob & Ann Frost

JULY VISIT BY THE PRESIDENT AND DIRECTOR GENERAL OF I.Mech.E.

See item on Page 1

The following events will be covered in more detail in the Summer Newsletter.

August-Date TBA	<u>BBQ - The Shrives' Garden</u>	Contact: Nigel & Sue Shrive
November- Date TBA	<u>Stage West Brunch</u>	Contact: Alan & Anne Rhodes
December 31st.	<u>New Years Eve Party at the Camwells'</u>	Contact: Paul & Margaret Camwell
Saturday January 13th	<u>AGM/Annual Dinner Palliser Hotel</u>	Contact: Jamil Mattar

The CPGCE web site is currently under reconstruction by our new webmaster, Bob Enever, and has been relocated to:
<http://www.CPGCE.org>
please refer to it for up-to-date news on our activities

General Description

Value management, through application of the value methodology, is a powerful, group thinking process. It is used at various stages of program and project development for building consensus on situations and available options. Some related terms include value analysis, value engineering, value control, value improvement and value planning. Sometimes the terms are used interchangeably and at other times each may have a different focus. The scope and stage of application can vary with the interpretation of the user and location within the world. The common thread is the 5-step workshop process that is central to any formal value study. This process is used for opportunities and problems requiring "soft" value management to derive the optimum strategic choice, through to situations of project improvement requiring "hard" (tactical) value engineering to refine existing proposals.

The structured, formal workshop requires that a broad mix of the appropriate persons meet in the same place, at the same time and focus on shared opportunities. Outcomes are based on a common understanding of constraints, key risks, life-cycle impacts and shared/negotiated team values. The value methodology is applicable to various forms of business process refocusing, construction, environment, facilities & infrastructure management, government, health care, industry, manufacturing, transportation and utilities. It encourages a holistic approach and team synergy. While it is often applied as a one-off event for project improvement, the value methodology is most successful when used as a long-term, continuous strategy for business success.

The value methodology is unique in the way it analyzes by function and integrates all aspects of products, processes and services. While appearing to be a linear process, the value methodology in practice requires an iterative process, working from "gut feel" through to more precise analysis, as appropriate to the situation. Also, it is critical that judgement of ideas is suspended until the right time. Value management is complementary to the process of project management and aids in cutting across bureaucratic boundaries. As well as providing a "better bang for the buck", it reduces project development time considerably. The value methodology is being used more and more by "learning organizations" throughout the world.

Origins of the Value Methodology

The value methodology evolved from the work of Lawrence D. Miles of the United States in the 1940's. Its origins lie in the manufacturing sector where it was known as value analysis. In 1954, the value methodology was introduced into the US Department of Defense Bureau of Ships, in which the term value analysis was changed to value engineering. The Society of American Value Engineers was formed in 1959. Value engineering spread to many US federal and local government agencies following the cost reduction program of Secretary McNamara in 1964.

An example application is in New York City, where the Office of Management and Budget has for many years organized and assessed value engineering studies for projects within the various City agencies' massive annual budget.

In February 1996, President Clinton authorized Public Law 104-106, which contains the following:

Sec. 36 VALUE ENGINEERING

(a) IN GENERAL. – Each executive agency shall establish and maintain cost-effective engineering procedures and processes.

(b) DEFINITION. – As used in this section, the term value engineering means an analysis of the functions of a program, project, product, item of equipment, building, facility, service, or supply of an executive agency or contractor personnel, directed at improving performance, reliability, quality, safety and life cycle costs.

Who Else Uses The Value Methodology?

The value methodology is now used formally in several other countries throughout the world. These include Australia, Canada, Great Britain, France, Germany, China/Hong Kong, Hungary, India, Korea, Japan, New Zealand, Saudi Arabia, Taiwan and the United Arab Emirates. In Australia, Europe and Hong Kong particularly, the application of the value methodology is known as value management. Certification programs have been established worldwide for managers, practitioners and teachers of the value methodology. The oldest such program is that administered by SAVE International (formerly the Society of American Value Engineers). The program has three designations: Certified Value Specialist (CVS), Value Management Practitioner (VMP) and Associate Value Specialist (AVS). Europe has recently established the classes of Trainer in Value Management (TVM) and Professional in Value Management (PVM). Great Britain, through the Institute of Value Management, administers a similar certification to the European program but has a more senior designation of Certified Value Manager (CVM) and an initial level of Certificated Value Analyst (CVA). The Canadian Society of Value Analysis does not offer a certification program, but is trying to establish interest and links nation-wide in the value methodology.

Relevant websites: SAVE International (Chicago),
<http://www.value-eng.com>

Canadian Society of Value Analysis (Montreal),
<http://www.scav-csva.org>

Application of the Value Methodology

A major difference in the way that the value methodology is applied is through the use of:

a) an integrated project team, comprising mainly existing project team members, plus a constructive challenger and the study facilitator(s);

b) an independent team of experts who examine the project in the absence of existing team members.

At the Annual General Meeting

Right: Nigel presenting the "leakproof" tankard to Dave Elson

Below: Sue Evison, APEGGA, addressing the meeting



Left- A Port Meirion dish for Liz Elson
Right Dave with the "unlosable" sunglasses



Proposed changes to the Newsletter

Our function is to bring to you the benefits of interaction with your fellow Institution Members, even though we are all located far from the Headquarters. In addition, we offer the benefits of the greater collegiate of all the Institutions that make up our Group. One of the ways that we do this is through this Newsletter and as such we are striving to make it as effective as possible in promoting interaction amongst all members in the Canadian Prairies. To this end we are proposing gradually to turn the Newsletter into a fully interactive medium between our Members.

The first step would be to transmit it by E-mail wherever possible so that it is easy for you to respond with your comments or other input by simply clicking the reply button on your browser.

The second step would be to attach it as a PDF file (Acrobat Reader) to the E-mail in order to transmit a more professional looking document with graphics and photographs in colour. This would also enable us to publish more technical content with links for further reading suggested by our interdisciplinary membership. A further thought here is that our members could draw each others' attention to articles published by their Institution, or elsewhere, that are of particular relevance to the Canadian Prairies.

The third step would be to publish in html format on the Internet to produce a document from which members could select only those parts that interested them and follow links back to the sources through the Institutions. A private web discussion group amongst our members across the Prairies would be the crowning achievement.

Please let us know how you feel about this initiative and whether we can transmit the next Newsletter to you by E-mail rather than in hard copy.

Executive Committee Directory

<u>Name</u>	<u>Inst.</u>	<u>Main Responsibility</u>	<u>HOME</u>	<u>OFFICE</u>	<u>FAX</u>	<u>e mail</u>
Nigel Shrive	Civ	Chairman	239-9104	220-6630	282-7026	shrive@ucalgary.ca
Paul Camwell	Elect	Vice Chairman	256-4198	203-5433	236-2158	pcamwell@ryan-tech.com
Bob Enever	Elect	Hon Treasurer	271-1953	290-5204	271-1953	eneverr@home.com
Bill Meadowcroft	Mech	Hon Secretary	251-7158			wmeadow@cadvision.com
Charles Dempsey	Mech	Scholarships & Awards	287-2992	287-2992	287-1877	dempsey@calna.ab.ca
David Elson	M & Ch	Past Chairman	247-8114	247-8114	247-8114	elsond@telusplanet.net
Tom Williams	Elect	Membership	271-8520	268-3792	268-4882	tdwilliams@home.com
Mac Stenson		Newsletter Production	283-6293	283-6293	283-6293	mcsten@home.com
Bob Frost	Mech	Soc & Newsletter Editor	276-2222	276-2222	276-2222	
Ray Marsh	Elect	Technical Convenor	281-1529	213-2109	213-2192	marshr@bantrel.com rmarsh@cadvision.com
John Sharpe	Mech	Technical Committee	281-9394	298-4911	303-7212	jsharpe@mrosp.com
David Phillips	Civ	Technical Committee	261-2972	262-6909	263-7503	dpal@dpalcompany.com
Jamil Mattar	Mech	Social Convenor	547-6599	948-0411	912-4448	mattarn@cadvision.com
Alan Rhodes	Chem	Social Committee	271-5309	225-2293	225-3026	landan@cadvision.com
Ted Maciag	Struct.	Social Committee	249-2995	229-4237	240-4902	bei@cadvision.com
Derrick Harrison	Civ	Communications	286-6850	286-6850	286-6897	derrick.harrison@home.com

New Web Page URL

<http://www.CPGCE.org>

New Webmaster is Bob Enever

MEMBERSHIP SURVEY

If you have provided this information within the last 12 months , please accept our thanks and ignore this request.

If not, or if any amendment is required, please take the time to complete this questionnaire and advise:

Tom Williams

Phone Bus(403) 268-3792 Home (403) 271-8520

Fax Bus(403) 268-4882 e-mail tdwilliams@home.com

Postal address C.P.G.C.E., BP / P.O.Box 61361, Calgary, Alberta, Canada, T2L 2K6

Last Name _____ First Name _____ Middle Initial (s) _____

Spouse Name _____ Address _____

Post Code _____

Phone Home _____ Business _____

Fax Home _____ Business _____ e-mail _____

Institution Affiliation (Chemical/Civil/Electrical/Mechanical/Structural) _____ APEGGA Member? _____

Membership number in Institution (if known) _____

Would you like reminders of group events? Technical _____ Social _____

Would you be willing to assist with group activities? _____

How can CPGCE help you?

What activities would you like to see sponsored?

Remarks?

Thank you for your response to this survey