THE MANITOBA
Professional Engineer
October, 1994
APEM

Outstanding Service Awards

The Outstanding Service Award recognizes outstanding service rendered to, or on behalf of, the Association of Professional Engineers of the Province of Manitoba by a member of the Association.

Council is pleased to announce that Dr. G. E. (Garland) Laliberte and Wm. M. A. (Bill) McDonald have been selected to receive the Outstanding Service Award at the 1994 Annual Meeting. Their Awards will be presented at the Annual General Meeting Dinner on the evening of October 29th, 1994. In addition to having served on many committees, both are also former Presidents of the Association. Dr. Laliberte is also currently the President of the Canadian Council of Professional Engineers. □



Dr. G. E. (Garland) Laliberte



Wm. M. A. (Bill) McDonald

The Aqueduct Becomes A Historic Engineering Site

By: W.G. McKay, P.Eng.

On the afternoon of Saturday, June 4, 1994, a number of engineers and other interested persons gathered at the obelisk at the foot of James Avenue in Stephen Juba Park. As is now the well established practice of the Historic Section of the Canadian Society of Civil Engineering (CSCE), a plaque commemorating the engineers who had designed and built the Aqueduct 75 years ago was unveiled. The plaque has been installed on the obelisk, which had previously been erected in 1985 when the aqueduct was designated as a waterworks landmark under the joint auspices of the American Waterworks Association and Western Canada Water & Waste Water Association.

Sandy Penman, retired former Director, Waterworks, Waste & Disposal Dept., City of Winnipeg, gave an outline of the design and construction of the aqueduct. Tom Pearson, Waterworks Engineer, brought greetings from the City of Winnipeg and concluded the presentation. Together with Dan Burns, President of the CSCE, they unveiled the plaque.

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APEM

ASSOCIATION OF PROFESSIONAL ENGINEERS OF MANITOBA

75TH ANNUAL GENERAL MEETING

SATURDAY, OCTOBER 29, 1994
HOLIDAY INN CROWNE PLAZA

AGENDA

8:30 a.m. Breakfast Meeting
Speaker: Jack Lemley,
Former CEO TransmancheLink
Tunnel Contractor
Topic: Building the Eurotunnel

8:30 a.m. - 10:00 a.m. Registration

10:00 a.m. - 12:30 p.m. Official Opening – President Doug G. Chapman, Ph.D., P.Eng.
Notice of Meeting
Introduction of Councillors and Guests
Minutes of the Annual General Meeting of October 23, 1993
Declaration of Councillors Elected
Auditor's Report
Appointment of Auditors
1994-95 Budget
Nominating Committee Appointments
Presentation: Changes to Admissions Requirements
Reports from Committee Chairpersons
Greetings from CCPE and other Associations
Induction of the 1994-95 President

6:30 p.m. Dinner and Entertainment
Carleton Club – 280 Fort Street
Presentation of APEM Awards
Comedy Entertainment

(Please bring this Agenda to the Meeting)

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Opinions expressed are not necessarily those held by the APEM or the Council of the APEM

WE HAVE LOST CONTACT. MAY WE HAVE AN ADDRESS?



D.A.J. Gaboury
K.F. Leong
A.W. Lindsay
A. Pele
J.M. Stacey

Engineers in the News

By: S.M. Matile, P.Eng.

Ray Hoemsen, P.Eng., Director of the Institute of Technological Development at the University of Manitoba, received the "Young Agricultural Engineer of the Year" award from the Canadian Society of Agricultural Engineering, in July, in recognition of his contributions to technology transfer within the profession. Mr. Hoemsen, a former APEM Councillor and a current member of the Association's Investigation Committee, has been the "driving force" behind numerous programs which have brought the University of Manitoba into close synergy with government and industry.

◆ ◆ ◆ ◆

Arkady Tsisserev, P.Eng., former Chief Electrical Plan Examiner with the City of Winnipeg, now Vancouver's Chief Electrical Inspector and City Electrician, and still a member of APEM's marathon relay team (yes, he came back this year just for the marathon!), recently received an Award of Merit from the Canadian Standards Association (CSA). Mr. Tsisserev received the award for his outstanding contribution to the CSA. Not only has he participated on more than 50 committees dealing with electrical equipment and installation standards; he has also served as a Chair or member of each of seven subcommittees developing Part I of the Canadian Electrical Code (CEC), as a member of numerous subcommittees developing Part II of the CEC, and as Chair of a special liaison committee, established to enhance communication and harmonization between Part I of the CEC and the National Building Code.

◆ ◆ ◆ ◆

Tom Gillman, P.Eng., President of T.H. Gillman & Associates Ltd., Consulting Engineers, and a new member of this Association's Investigation Committee, recently received an international award for fire-scene photography, from the International Association of Arson Investigators. Mr. Gillman, who regularly conducts forensic engineering investigations to determine the causes of fire losses, was one of three world-wide recipients of this award.

◆ ◆ ◆ ◆

Doug Allen, P.Eng., President of D.E.M. Allen & Associates, broadcasting and communications consultants, will be inducted into the Manitoba Sports Hall of Fame in November, 1994 for his work with skiing for the disabled. A skier since before 1950 who has made significant contributions to disabled skiing at the local, provincial, national and international levels for many years, Mr. Allen has been, among many other things, founder of the Disabled Skiing Association of Manitoba, Past-President and member of the Board of Directors of the Canadian Association for Disabled Skiing, recipient of APEM's Merit Award for outstanding public service, and recipient of the Order of Canada. □

NEW MEMBERS REGISTERED JUNE & AUGUST, 1994

C.G. Allard
D.E. Andres
C.S. Bishop
J.P. Blahey
C.J. Bonsall
J.P.W.J. Burak (Ontario)
A. Dejewska-Rybarczyk
T.K. Eng (Alberta)
J.J. Falck
G.J. Friesen
A. Glucklich
K.P. Ho (Alberta)
T.C.W.Ip (Ontario)
D.P. Kroeker
D.A. Laird (Ontario)
G.M. Liukko
E.B. Loewen
B.S. MacKid
R.M. McDonald (Saskatchewan)
S.L. McKay
D.A. Mikita
R.D. Miller
A.J. Neufeld
D.S. Overwater
G.R. Paskaruk
S.M. Peddle
D.S. Petkau
G.S. Reaburn (Alberta)
I.E. Robson (Quebec)
A.P. Silva (Alberta)
M. Sommerstein (Ontario)
T.A. Tran
D.K. Watson
D.R. Wood
C.W. Yaschyshyn

LICENCES ISSUED IN JUNE & AUGUST, 1994

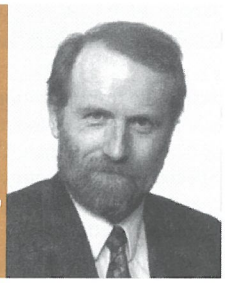
W.K. Behrends (Ontario)
D.H. George (Saskatchewan)
R.D. Hounslow (British Columbia)
R.R. Lunt (Pennsylvania)
C.B. Rushton (Ontario)
R.L. San Giacomo (New York)
W.T. Vaughan (British Columbia)
E.G. Wong, Jr. (Colorado)

ENGINEER-IN-TRAINING MEMBERSHIP JUNE & AUGUST, 1994

P.J. Ashman
M.J. Bender
P.M. Bennet
R.S. Black
C.M. Bock
K.S. Burron
J.N. Crang
M.R. Delaquis
A.L. Driver
D.A. Epp
K.Y. Fan
W.C. Flather
H. Gehrer
I.E. Gesser
L.P. Gosselin
W.E. Hammond
T.S. Josephson
H.A. Katz
A.B. Litke
S.M. Majko
S.A.D. McBride
D.M. Minor
R.R.J. Nault
C.J. Novotny
A.H. Pankratz
B.R. Parson
S.T. Pavitt
D.K. Reichert
N.S. Remillard
H.J. Rempel
A.B. Ringor
S.R. Roberts
T.C.D. Rudachek
K.A. Schmigel
J.F. Sharp
D.M.P. Shume
R.W. Simmons
T.G. Sims
E. Teklemariam
R.J. Tkach
D.K.J. Wainio
P.C.H. Wong
J.J.C. Wortley
R.B. Znidarec

President's Message

Dr. D.G. Chapman, P.Eng.



Looking Back

This has been a very interesting year for the APEM. Initiatives which will change the fundamental operation of the Association in several areas are well underway. While many of these changes will mainly affect new members, some have implications for current members.

Over the past year Council has considered, discussed and made policy decisions on the APEM's implementation of a four-year experience program, a comprehensive professional-practice seminar and examination, and a revised and augmented Engineer-in-Training program. The changes will all come into effect on January 1, 1995. Council has indicated that the professional-practice seminar should be accessible to existing members. More details will be provided once the seminar program is underway.

The four-year-experience period is consistent with a CCPE recommendation on experience. We have also adopted new standards for minimum education for registration, based on a new examination syllabus produced by the CCPE. The adoption of consistent standards across the country will increase the mobility of engineers, thus simplifying the process of becoming registered in another association. The APEM has also signed an Inter-Association Mobility agreement which also reduces the barriers to transfer of membership to other associations.

Early in the year, Council delegated decisions on admission of new members, EIT's and licensees to a new Registration Board. This Board, working with a new Experience Review Board and the existing Board of Examiners, is reviewing the credentials of all potential members in greater detail than was previously possible. Since the decisions on registration are now being made by the Registration Board, Council is in a position to hear appeals of the decisions of that Board, without having prior knowledge of the particulars. Thus far, these changes in the registration process appear to be working well.

Some months ago I reported on the creation of an Enforcement Committee. This committee is now in place and is beginning its work.

In the last year, the APEM held a special general meeting to get feedback from the membership with respect to our relationship with the Manitoba Association of Architects. The meeting was very valuable, with excellent ideas offered by the members present. A discussion group and a support group were formed. At the time of writing (mid-August), three meetings had been held between representatives of the APEM and the MAA, and discussions were continuing on the relative positions of the two organizations and ways to resolve differences. The work of the discussion and support groups is much appreciated.

In early 1994 the APEM made a submission to the Manitoba Law Reform Commission regarding their discussion document entitled "The Future of Occupational Regulations in Manitoba". This discussion paper presented several options for the governance of occupations (including professions such as engineering), many of which would have implications on the future of the APEM. To date there has been no indication from either the Commission or the government as to what, if any, changes are contemplated to legislation which may affect the practice of engineering in Manitoba.

As noted elsewhere in the MPE, the Legislation Committee (which contributed heavily to the Law Reform Commission submission) is discussing many revisions to the Engineering Profession Act. To date, no firm timetable for introducing these changes has been established. Some of the changes are intended to facilitate unification of the "Engineering Team", with provisions for possible future full licensing of geoscientists and limited licensing of persons, such as technologists, who do not hold full qualifications.

Somewhat unusually, this past year, Council considered appeals to the decisions of the Investigation Committee. In both cases the decisions of the Committee were upheld.

The APEM has now entered the computer age, with the purchase of hardware and software to allow computerization of the membership records, accounting and word processing. It is anticipated that the renewal process will be conducted using the new system this year. The database on members will be revised and updated later this year. At present, inquiries about engineers (i.e., are they members?) must be handled manually, and this process is quite time-consuming. Soon, we should be in a position to publish a new roster. Consideration is being given to the creation of an electronic version of the roster, and to making some information available on a bulletin-board system. The APEM has also applied for an Internet address and is considering alternatives for communicating with members through that system.

To improve communication of APEM with its members, the Chapter system has been expanded. The Westman Chapter, in Brandon, was given its charter last fall. I also met with the Portage Engineering Group to discuss current APEM issues with those members. There are several other possible chapter locations. Once our computerized data-base is fully operational, we will be able to provide support to chapters and potential chapters in a timely manner.

For the past few years, Council, early in the term, has met to review and revise the APEM's Long Range Plan. This process has worked well to ensure that the Association stays on track and addresses the important issues. I anticipate that the Long Range Plan will continue to be refined and updated.

One of the items identified for change was that of the committee structure. The APEM depends heavily on volunteer committees. However, the number of committees has grown significantly and Council was concerned that the mandates of some may not be as relevant as they used to be. An Organization Review Action Plan Task Force has been formed to review the mandates and effectiveness of all committees. Meetings are planned for mid-September and the work of that task force will continue into next year.

A second Long Range Planning topic which will be discussed shortly at Council and which will be the subject of much debate is that of "continuing competence" – the whole area of the need for engineers to maintain and upgrade skills, to demonstrate such undertakings and, perhaps, to have continuing education and development be a condition of membership. This same topic is being considered by other professions and by the engineering profession nationally and internationally.

A Premises Task Group was active this past year, considering alternatives to the existing leased space. It was hoped that a building or land suitable for building could be found which would be accessible, by bus, to members, applicants and the public, which would have parking for staff and volunteers and which would save money for the Association. Some promising leads were followed, but the number of other initiatives underway at the Association meant that time for this group was limited. It is likely that no further steps will be undertaken this year. Any major change to our premises would be brought to the membership for discussion and approval.

It has been a very interesting year for me, personally. I wish to thank Dave Ennis, Shirley Matile and the rest of the APEM staff for their help and support. All of the members of Council have also been very helpful and positive and I appreciate the consideration and discussion all matters have received at Council meetings. I leave unfinished several initiatives but I'm confident that they will be continued and completed successfully.

Finally, I wish to encourage members to become involved in Association work. It is your organization and we are all collectively responsible for ensuring the protection of the public in engineering matters. □

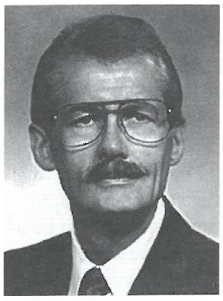
Iron Ring Fall Ceremony

There will be an iron ring ceremony for Camp #8 on Tuesday, November 8, 1994, commencing at 7:30 p.m. in the Tartan Room, Tache Hall at the University of Manitoba.

For additional information, please contact Dave Sexton, P.Eng., Camp Secretary at 945-7488.

Those wishing to be obligated should contact Mr. Sexton as soon as possible.

Executive Director's Report



D.A. Ennis

The Executive Director is responsible for four general areas of the Association's activities other than those of the Boards and Committees. The activities of the Committees are reported on elsewhere in this publication.

Registrar

The primary responsibilities of the office of the Registrar are processing admission to the profession, maintaining the official record of the status of members, and providing administrative support to the disciplinary process.

In the area of admissions, the Association is very ably and diligently served by the Director of Admissions, Shirley Matile, P. Eng. Her report is also elsewhere in this publication.

Regarding the membership of the Association, this is the first year since 1990 that there has been a significant increase (137 members) in the number of members in the full practising category.

The changes in membership over the year were:

Membership on July 31, 1993		3413
Plus – registrations	181	
– transfers-in	27	
– reinstatements	10	
	+(218)	
Less – resignations	108	
– transfers-out	1	
– deregistered	52	
– deceased	5	
	-(166)	
Membership on July 31, 1994		3465

It is composed of various categories:

Full Members	2861
Non-Resident Members	393
Retired Members	153
Members Paying Deferred Dues	34
Life Members	24
Total	3465

Non-Resident and Retired membership has decreased by 120, probably due to the discontinuation of entry to the Non-Resident category to conform with the elimination, in 1993,of the residency requirement, and to the requirements for the resumption of practising privileges for Retired Members.

Deferred Dues were introduced in 1994 to provide some relief to those members who are unemployed.

The disciplinary process involves receiving and processing complaints about the practice or conduct of members and the subsequent activities of the Investigation Committee and the Discipline Committee. Fewer complaints were received, primarily in the last half of the year. The Chair of the Discipline Committee has received charges against two members, and Hearings into those charges have been initiated.

Secretary-Treasurer

As Secretary, I report that the business of the Council has been duly recorded and that the required notices have been provided to the membership.

This year there was a Special Meeting of the membership held on February 22, 1994. As a result, the Association is, through a Task Group appointed by the Council, in discussions with The Manitoba Association of Architects on the issue of professional jurisdiction. The objective is to develop a Memorandum of Understanding to define the responsibilities of the members of the two professions in the planning, design and construction of buildings. The motions adopted at the Special Meeting require that any proposed Memorandum be considered at a Special or Annual General Meeting of the Association.

The deliberations and activities of the Council have been reported on a regular basis in The Manitoba Professional Engineer. They are also summarized in other reports in this issue.

As Treasurer, I report that the Association continues to be in a sound financial position. One of the financial issues that the Council will probably be reviewing in the next year is the matter of GST registration. Currently, the Association neither collects GST on the members' annual dues, nor receives credits on any GST paid on its purchases.

Enforcement of The Act

Enforcement activities are intended to prevent contravention of both the practice and title provisions of The Engineering Profession Act.

Continued on page 11

Director of Admissions' Report



S.M. Matile

1994 is proving to be an unbelievably busy year for the Admissions staff at APEM, as we attempt to put into place all of the changes required to accommodate the four-year work-experience requirement which comes into effect on January 1, 1995. As usual, we've ambitiously undertaken more than we should have; but I am confident that with a little determination and a lot of hard work, we will have everything in place by the end of the year.

Over the fiscal year (August 1, 1993 to July 31, 1994), we assessed the academic credentials of 33 applicants, assessed the engineering work experience credentials of 277 applicants, registered 218 new members, registered 100 Engineer-in-Training (EIT) members, and granted 100 temporary licences to Canadian and US engineers to practise engineering in Manitoba.

In August, the Board of Examiners' new operations manual, and the 1992 CCPE Syllabus, were adopted by Council and became the basis for the assessment of academic credentials by this Association.

In September, Council adopted in principle our new Manual of Admissions, and endorsed the proposed By-law changes (to eliminate the non-practising and non-resident categories of membership, create the retired membership category and the dues deferral program, and validate EIT membership).

In October, APEM adopted the extension of CCPE's Mutual Recognition Agreement (MRA) to include graduates of all programs accredited in the UK by the Engineering Council since 1989; and in November, a Task Force was appointed to implement a formal Professional-Practice Examination.

In December, Council adopted Terms of Reference for a Registration Board and an Experience Review Board, as well as a grandfathering provision for the four-year-work-experience requirement.

In January, Council ratified CCPE's Interim Inter-Association Mobility Agreement, the Experience Review Board commenced its work, and the last meeting of the Admissions Review Board was held.

In February, Council appointed the Experience Review Board and the Registration Board, leaving a position open on each board for a geoscientist, to allow the geoscientific community the opportunity to become familiar with the requirements of a self-regulating profession, and to pave the way for developing parallel criteria for the professions of geology, geophysics and geochemistry. (Unfortunately, we have had no success, to date, in recruiting geoscientists to these positions.)

Continued on page 13

Investigation Committee



Wm. M.A. McDonald, Chair

Members:
N.C. Burgess
D.E. Cross
F.M. Fowler
T.H. Gillman
D.R. Grimes
R.P. Hoemsen
R.C. Isaak
R.A. Johnson
E.I. Lexier
A.M. Lohse
J.R. McDougall
I.H. McKay

The Investigation Committee is involved in the investigation of complaints and concerns received from both the public and members of the Association. These investigations are conducted under the authority of By-Law 43. The Mission Statement of the Association, ***"To serve and protect the public interest by governing and advancing the practice of engineering in accordance with The Engineering Profession Act of Manitoba"*** provides direction for the deliberations and actions of the committee.

In the last year, the full committee held 10 meetings. As well, there were innumerable sub-committee meetings. A total of 26 files were reviewed with 11 of these being carried over from last year. At the time of this writing, there are three active files. A brief overview of the types of complaints follows:

Types of Complaints

- Nine complaints were brought forward by members of the public regarding residential buildings.
- Four investigations were undertaken as a result of structural failures (all carried over from last year.)
- Five complaints resulted from instances where an engineer was concerned with the actions of a fellow engineer.
- Eight investigations resulted from complaints of various agencies and individuals on the conduct of engineers.

Disposition

- Two members had formal charges laid against them. These charges were referred to the Discipline Committee for hearings. The Investigation Committee will be involved in these hearings in the capacity of prosecutor.
- One member received a formal reprimand for negligence in the practice of engineering.
- Two members received formal cautions for unprofessional conduct.
- The complaint against one member was dismissed after a letter of apology was written to the client.
- One member received a letter indicating concern that charges by another provincial association had resulted in disciplinary action. Notice was also provided. That fact has been noted in the member's file.
- 13 complaints were dismissed after review by the committee (of these, seven involved commercial and financial concerns).

In addition to the disposition of the actual complaints, the committee also took the following actions:

- Provided Council with advice on the proposed Guide to Ethical Use of the Engineering Seal.
- Developed a Reference Guide for Complaint Review and Investigation.
- Briefed Council at its regular meetings on the activities of the Investigation Committee.
- Made a recommendation to Council that the Department of Environment be notified that the present licensing procedures for wastewater stabilization lagoons should require a licensed engineer on site during construction to assure that the construction is in compliance with the approved design.
- Developed a Practice Note on House Inspections and provided comment on a proposed brochure on the topic.
- Developed a draft brochure on "Making a Complaint".
- Developed a Practice Note on Conflict of Interest.

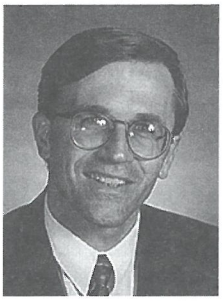
As you will appreciate, the work of the committee requires a heavy time commitment by its members, who continue to serve the profession well.

It was with regret and reluctance that we received the resignation during the year of Andy Lohse and Rudy Isaak – both long-serving members of the committee. We welcomed Tom Gillman as a new member.

We were sorry that Linda Hazelwood left the Association staff after providing excellent support to the Committee. Margaret Little was welcomed in June to provide secretarial assistance to the committee.

Support staff, as in the past, has provided enthusiastic and dedicated service in many cases, before and after normal working hours. The assistance of Dave Ennis and Charlie Bouskill allowed the committee to function in an efficient manner, moving the various tiles expeditiously through the sub-committee stage. □

Professional Development Committee



D.J. Kramble, Chair

Members:
R.J. Bruce
M.D. Cornell
V.L. Dutton
G. Kibria
K.J.T. Kjartanson
S.S. Rihal
W.D.A. Rose

The Professional Development (PD) Committee is perhaps best known for its breakfast meetings on topics of general interest to engineers, and its seminars for both new and practising engineers. However, a lot of work also goes on behind the scenes. This Committee is also responsible for reporting to Council on matters which relate to professional development and continuing competence.

This past year we have submitted reports on:

Mandatory PD Monitoring:

This report recommends that reporting of PD activities be a condition for registration and continuing membership. Council and the committee are currently assessing the ramifications of such a condition with APEM's legal council.

Mandatory Concepts Seminar:

This report recommended that EIT members be strongly encouraged to take the Seminar on Concepts in Professionalism prior to registration, but that attendance at the seminar not be mandatory.

We have also held the following activities:

Breakfast Meetings:

Mal Symonds: Engineering Education and Industry Needs
Stella Fedeniuk: 1993 US Midwest Flooding
Rod McRae: Public/Private Partnerships

Seminars:

Engineering Management: Quality and the Professional Engineer; Concepts in Professionalism

I am only the Chair of this Committee, so of course most of the work is done by others. Please reserve all credit for these dedicated members.

In the coming year we will be: Continuing the breakfast – meeting lecture series; Providing a Concepts-in-Professionalism Seminar; Providing an Engineering-Management Seminar; and Reporting to Council on monitoring of professional development activities of members.

If anyone has suggestions of topics for breakfast meetings or comments on any other of the Committee's activities, please call me at Wardrop Engineering: 956-0980. □

Board of Examiners



F.R. Kaita, Chair

Members:
K.M. Adam
C.D. Anderson
E. Bridges
J.R. Cahoon
A.M. Clayton
A.D. Gerrard
D.S. Jayas
W.M. Kinsner
R.W. Menzies
D.W. Ruth
B. Stimpson
J.M. Symonds
M. Yunik

The Board of Examiners assesses the academic qualifications of applicants who are graduates from programs not accredited by the Canadian Engineering Accreditation Board (CEAB) to determine the academic eligibility of such applicants for registration. The Board may require an applicant to pass assigned examinations in order to academically qualify for acceptance into the profession.

The Board's mission is to ensure that each candidate possesses a sound engineering foundation equivalent to that achieved by successfully completing a CEAB-accredited program. The Board is frequently faced with the difficult task of not only determining the subjects taken by the candidates but the level, breadth and quality of a program.

During the year the Board received 64 requests for assessments and reassessments. The Board assessed 33 new applicants, re-assessed 31 and administered 37 examinations. Of the new applicants, 29 were assigned examinations (four exploratory, three qualifying, 17 confirmatory and five proficiency), and four were deemed academically qualified. Of the 31 applicants re-assessed, eight were considered qualified based on successful completion of the assigned examinations, two were assigned additional examinations, and 21 were reviewed for various requests, including changes in the numbers of assigned examinations and course substitutions. Thirty-one candidates registered for 37 examinations and 22 passes were recorded.

During the year we thanked Eva Rosinger (Liaison Councillor), Doug Chapman, Graham Matthews and Don Anderson for their valuable contributions to the Board, and we welcomed Mal Symonds (Liaison Councillor), Witold Kinsner and Brian Stimpson to the Board.

I wish to extend my personal thanks to all members of the Board for their time and efforts. We all join in expressing our sincere thanks to the APEM staff and in particular Dave Ennis, Shirley Matile and Joan McKinley for their valuable and capable assistance. A special thanks to Joan McKinley for her assistance in organizing the meetings, being the source of information at meetings and keeping the minutes. □

Experience Review Board



N.P. Feschuk, *Chair*

Members:
D.T. Anderson
C.R. Bouskill
K.H. David
K.R. Drysdale
B.R. King
J. Lucas
R.J. Partridge
A.C. Roberts
A. Silk
P.Stanus
R. Trites
S.L. Ursel

The Experience Review Board has the responsibility of reviewing the experience of all applicants for membership or licensure and recommending to the Registration Board whether the applicant meets the APEM's experience requirements.

The Board's members are individually assigned applicants' files for review. The assignment of files is done on the basis of the reviewer having specific experience in the field of work of the applicant. This review not only includes examining the documentation provided, but many times requires the reviewer contact the referees and the applicant to clarify the documentation provided by the referees.

Each review is discussed in detail at the Board's meeting. The applicant's work experience may be approved, the applicant may be requested to re-submit after acquiring additional experience, or more information may be requested – usually through an interview of the applicant by a sub-committee of the Board.

One of the difficulties the Board has is that referees are not clear on what constitutes applicable engineering experience or that the applicant has to demonstrate applicable experience in a wide range of situations including the application of theory, practical experience, management, communications, professionalism and ethical responsibilities, and the social implications of engineering.

This is the first year the Experience Review Board has operated under the new format described above. It is working well. The committee has been meeting monthly. □

University Liaison Committee



E. Garfinkel, Chair

Members:
D. Bishop
A. Burachynsky
P. Dalkie
I.R. Mikawoz
G.O. Ouellette
A.H. Permut
J. Reichert
A. Trupp
R.J. Waddell

The University Liaison Committee again maintained its varied focus on issues in its efforts to provide liaison between the APEM and the Faculty of Engineering of the University of Manitoba.

With regard to **Faculty Liaison**, this year's annual meeting between Council, Faculty, and this committee dealt with two issues. The first involved a presentation of the complexity and thoroughness of the accreditation visit of the Canadian Engineering Accreditation Board and any repercussions from it. The second involved a panel discussion on the effects of the Four-year work experience requirement to become a Registered Engineer.

Student Liaison was provided through this committee's efforts in arranging speakers and assisting in the planning of "Careers in Engineering – Meet the Professionals". Through this event, students are given the opportunity to hear presentations in all engineering disciplines from practising engineers.

Other **Student Liaison** activities included: the assistance provided in the University's Career Symposium Booth; financial assistance offered to Engineering Conferences and design competitions such as Western Engineering Conference and Competition (WECC), Concrete Toboggan Race, and University of Manitoba Society of Automotive Engineers (UMSAE) design competitions; and planning assistance provided to WECC and the Engineering Student Dinner.

The work of this committee also resulted in a formalized process for presentations by the APEM to the Engineering Students in the **classroom setting**. As well, this committee assisted in the APEM's presentation of interest to the Federal Science and Technology Funding Policy Review.

I would like to thank all committee members, Shirley Matile, and APEM staff members for their help towards another eventful year. □

Women-in-Engineering Advisory Committee



C. Roberts, Chair

Members:
M.G. Britton
R.J. Eden
S. Fedeniuk
I. Mikawoz
K. Olischefski
K. Pratt

This committee is responsible for addressing the issues and concerns of women in engineering in order to ensure their full and equal participation in the profession.

The committee develops strategies to encourage women to become more involved in the profession, and identifies ways to educate APEM members and the public about issues that affect women in engineering. We also advise Council and committees on matters relating to women in engineering.

Our initial task was a review of the recommendations of the Canadian Council on Women in Engineering's 1991 report, "More Than Just Numbers", and CCPE's "National Action Plan for Gender Equity". The following tasks from the two reports were identified as outstanding action items for APEM:

- organizing events of interest to women members;
- encouraging women to join APEM committees;
- expansion of member surveys;
- ethical considerations for harassment and discrimination;
- employer awareness presentations and minority sensitivity training; and
- nomination of outstanding women for awards.

These tasks have been addressed as follows:

We assisted Irene Mikawoz of the U of M in the planning and implementation of a women in engineering conference called "Capitalizing on Today's Challenges", and APEM continued to provide support for the Women's Engineering Network through this committee. A subcommittee has been formed to plan another event for women members for the APEM AGM.

We identified committees which would benefit from the participation of a woman member, and we are encouraging women to volunteer for committees where their capabilities suit the committee's goals.

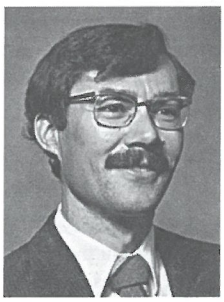
The Salary Research committee accommodated our request for inclusion of gender analysis in the 1994 salary survey, and APEM will be participating in a national survey on women in engineering coordinated by PEO.

A subcommittee has been formed to deal with harassment issues. A policy and education program on managing diversity will be created for APEM members, for implementation in 1995.

Shirley Matile was the recipient of a YM-YWCA Women of Distinction award, based on this committee's nomination, in recognition of her outstanding professional career and proactive efforts as a positive role model. A Free Press article on her award created an excellent opportunity for improving the image of engineers.

Special thanks to Sylvia Reid for handling all those extra mailings, and to Shirley Matile, whose volunteer efforts for this committee go above and beyond the call of duty. □

Public Awareness Committee



D.C.H. Prowse, Chair

Members:
R. Bernhardt
W.H. Brant
R.J. Eden
J.T. Linnen
C.A. Nieuwenburg
R.J. Partridge
C.S. Roberts
D. Stewart

National Engineering Week provided a focus for many activities. The co-ordinator of the "Innovators in the Schools" program at the Museum of Man and Nature reported an overwhelming number of requests for engineers to participate in school programs this past year. Manitoba Hydro, which produced a new video, "Engineering at Manitoba Hydro", for National Engineering Week, received a special award from the Innovators program to recognize its support of the large number of employees who participated in school visits. While attendance at the Career Information Evening was underwhelming, it was, from an optimistic perspective, better attended than a similar evening held last fall. Co-ordination of APEM Engineering Achievement and Merit awards with National Engineering Week was particularly successful.

APEM supported the efforts of the University of Manitoba Faculty of Engineering at the Careers Symposium with funding and by providing experienced engineers to help staff the booth and to give presentations to groups of students. The extremely popular booth balanced the reality of an engineering career with the excitement of a virtual-reality experience.

Five Mini-University summer camp prizes, a $500 scholarship to the University of Manitoba, and 18 "Outstanding Achievement" ribbons were awarded at the Manitoba Schools Science Symposium after ten engineers completed the mammoth task of judging over 150 projects.

Engineers continued to participate in the World In Motion demonstrations of physics to students at the Museum of Man and Nature. In addition, three presentations on engineering were made to teachers' professional development Special Area Group (SAG) meetings in October 1993 and APEM supported three educational projects:

- an Engineering Awareness Project with the Fort Garry School Division which allows elementary school students to visit the Faculty of Engineering;
- a Math Murder Mystery, arranged by the Manitoba Association of Mathematics Teachers; and
- Science Olympics, a fun competition for teams of high-school students.

A new pamphlet on engineering as a career has been produced and there has been work to develop trader cards; true to form, the baseball-player-type cards promote engineering achievements in Manitoba rather than the talents of individual engineers. A procedure was developed for engineers to participate in an "Ask An Engineer" computer bulletin-board on the Manitoba Department of Education computer network for schools.

APEM has applied to have a bridge, designed by our first president, declared a historic site.

We regret that workpressures no longer allow R. Hoemsen, G. Payne or M. de Wiele to be members of the Public Awareness Committee. We congratulate Shirley Matile, our staff liaison member, for receiving a YWCA "Woman of Distinction" Award.

If you are interested in any public awareness activities, the first step is to make sure that you are registered with the "Innovators in the Schools" program (Betty Anne Kilbrei, Museum of Man and Nature, 988-0699). If you want to be involved beyond the scope of that program, contact any of the Public Awareness Committee members or the APEM office. □

Safety in Engineering Practice Committee



Members:
D.E. Cross
A.O. Dyregrov
M.J. Frye
R.E. Gottfred
K.J. Hearson
J.G. Hildebrandt
J.V. Weiszmann
L.P. Williams

F.A. Roberts, Chair

The Safety in Engineering Practice Committee was established to consider issues related to the design and construction of engineered works and to make specific recommendations to individuals, as well as to the membership at large, to enhance the safety of projects.

The committee looks at specific designs, trends in design and construction as well as the process by which engineers and other professionals interact during design and inspection.

Several subcommittees have been active this past year. Many of the issues involve both engineers and regulatory authorities.

Building Envelope Subcommittee

The Building Envelope Subcommittee is under the Chairmanship of Dr. M.J. Frye and has produced a final draft report after countless hours of meetings involving liaison with the Manitoba Association of Architects.

The committee views this report and the detailed study as vitally important to our membership, since a great number of structural and performance failures, relating to deterioration of the building envelope have been reported in recent years. We see this as an area of increasing concern as buildings in the Province age.

Review of Provincial Safety Legislation

The full committee participated in a review of eight of the Acts under the umbrella of the Minister of Labour, relating to safety: The Oil and Gas Burner Act, The Steam and Pressure Plants Act, The Amusements Act, The Elevator Act, The Buildings and Mobile Homes Act, The Power Engineers Act, The Electricians Act and The Fire Preventions Act. The committee divided into areas of expertise, brought the report together, and submitted it to the Ministry of Labour.

The effort culminated in an oral presentation to the Provincial Task Force considering changes to this legislation.

Gas Explosion – Portage Avenue and Olive Street

The full committee reviewed reports from the Province of Manitoba, Workplace Health and Safety Branch and reports prepared for the Public Utilities Board on the gas explosion that occurred at Portage Avenue and Olive Street. The committee determined, from these reports, whether engineering input would help to avert such incidents in the future. The committee also reviewed existing regulations relating to utility crossovers to evaluate whether they sufficiently follow engineering guidelines.

Guide to the Use of the Seal

The committee wishes to thank Ken Drysdale and the committee preparing the seal guidelines for the opportunity to review the proposed guideline and to comment on safety and broader issues of mutual concern.

Health Regulation Subcommittee

The committee has been asked to provide input to the Health Regulation Subcommittee of the Provincial Workplace Safety Advisory Council in the preparation of a guideline to protect sewer workers. The committee sought expertise in design and maintenance of sewage treatment facilities for the preparation of new regulations.

In addition to ongoing subcommittees, the Safety in Engineering Practice Committee is represented on the Life Safety Systems Committee of the City of Winnipeg and on the Advisory Council to the Workplace Health and Safety Branch under the Minister of Labour.

This has been an synopsis of a number of issues which have come before the committee. As always, I invite any of our Association members who may become aware of potentially unsafe engineering practice to pass on such information to the committee or to the Registrar. Inquiries or submissions will be dealt with in confidence where requested.

On behalf of the committee I wish to extend my sincere thanks to Dave Ennis for his tireless efforts in all our deliberations. I wish to extend my personal thanks to every member of the committee and subcommittees for their diligent service and helpful input. □

Engineer-in-Training Program Task Force



Members:
K.M. Jardine
K. Koshelanyk
O.A. Rogers
C.L. Stewart

S.M. Matile, Chair

EIT (Engineer-in-Training) membership in this Association has, to date, always been voluntary. EIT members have received our publication and notices of meetings, but there has never been a program in place for them.

On January 1, 1995, this Association's Admission requirements will be changing. In order to be eligible for registration, an applicant will have to be academically qualified (no change), have four years' engineering work experience of a prescribed nature (a change from the current two years with no particular prescription), attend a new 15-hour Professional Practice Seminar, and complete a formal Professional Practice Examination (which will be changed from the current mail-in, true-or-false "quiz" on the Act, By-Laws and Code of Ethics to a closed-book, three-hour examination on engineering law and professionalism).

After January 1, 1995, EIT membership in APEM will become **mandatory**. This Association's Admissions Manual states that "Applicants for full membership ...shall have been engineer-in-training members of the Association, normally for four years, and at a minimum for six months prior to completion of the Professional Practice Examination, and shall have successfully completed the prescribed pre-registration program." (The four-year requirement is intended for new graduates, whereas the six-month requirement is intended for engineers who are new to Manitoba.)

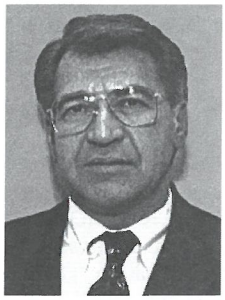
The development and implementation of the "pre-registration program" identified in the Manual is the mandate of this Task Force, which met for the first time in August.

At its first meeting, the Task Force decided that a program is required to supplement the work experience, professional- practice seminar and professional-practice examination requirements. It decided that the program should comprise continuing education in a variety of career-development and professional-development areas, as well as professional-service activities.

The Task Force is now busy developing lists of topics for required continuing education, lists of acceptable professional-service activities, and plans for recognizing the mid-point and completion of the EIT program.

It is expected that the work of the Task Force will continue through the Fall, and that a recommendation will be made to Council by November or December, 1994, in time for a January, 1995 implementation. □

Research and Development Committee



E.E. Lach, Chair

Members:
J. Begin
D.J. Fedirchuk
R.J. Hamlin
D.M. McCartney
D.G. Osman
M. Paryniuk
E.L.J. Rosinger
E.A. Speers
D.R. Strang
J.B. Thorsteinsson

The Research and Development Committee has a mandate to keep Council and the members informed of research, development and technological innovation in Manitoba and Canada and to identify the implications of technological development on Association members and the public.

The R&D Committee held six meetings during the past year. The Committee continued to focus on organizing luncheon meetings with presentations on topics relating to research and technological development in Manitoba and/or having direct impact on the Engineering Profession in Manitoba. The presentations, over the year, are selected on the basis of being of interest to broad cross-sections of the Association membership. The presentations are video-taped and kept on file in the Association office for loan to members who could not attend or wish to review the information presented. The presentations are also reported in The Manitoba Professional Engineer.

The Committee organized five luncheon presentations during the past year, on the following topics:

- "Value-Added Processing – Is There Gold in Garbage?" by Larry Barker
- "Electrical Utility Demand-Side Management Programs"- a status report by keynote speakers and panel discussion with Moderator John Thorsteinsson.
- "CSA's Environmental Program" by John D. Wolf
- "Treatment of Contaminated Soil and Groundwater" by Dr. Jan Oleszkiewicz
- "Economic Innovation & Technology Council – Manitoba's Engine for Innovation" by Roberta Ellis

The Committee also arranged a one-day tour of the Energy & Environment Research Center at the University of North Dakota, Grand Forks, ND on May 19, 1994.

The following luncheon presentations, for next year, are in various stages of organizational development by the Committee:

- "Recent Developments in Tunneling Technology" by Lawrence Martin & Dr. Brian Stimpson
- "Nuclear Waste Management in Canada – Report" by Dr. Colin Allan
- "R&D Programs of Electrical Utilities as Revenue Generators" by the Hydro utilities
- "TRLabs Consortium for Telecommunications Research" by Len Dacombe
- "Remote Meter-Reading Technology" by Michael Wiebe
- "Air Issues – Sustainable Development" with several speakers, a panel, or a workshop

The Committee is also considering a series of articles for publication in The MPE under the heading, "The Life Cycle of an Idea". Organizing a tour of a research and development facility on an annual basis will be considered to be part of the mandate.

The cost of advertising the R&D Committee luncheons and special events, largely the cost of printing the notices for the entire membership, continued to be a concern as was the substantial input required by Dave Ennis and APEM staff. These issues and the benefits to the Association members and the public as well as new communication technologies becoming available to the Association were reviewed and decisions made which will see some progress over the next year on these matters.

One of the decisions taken was to give the responsibility for recording the meeting minutes to the Committee. On behalf of the Committee I would like to thank the very capable Eric Loewen, EIT, for serving as our recording secretary.

I would like to thank the committee members for their enthusiasm and their valued and varied contributions during the past year. Bob Hamlin, who stepped down as Chair after serving yet another two-year term, while remaining an active committee member is hereby recognized by the Committee as are Dave Ennis and staff, and Council liaison members, Don Osman and Dr.Eva Rosinger. □

Nominating Committee



C.E. Anderson, Chair

Members:
N.P. Feschuk
B.W. Gulay
R.J. Hamlin
F.R. Kaita
A.N. Kempan
D.J. Kramble
Wm.M.A. McDonald
R.J. Partridge
C. Roberts

The Nominating Committee is responsible for nominating a slate of candidates for election to Council. The committee compiled a list of 24 possible candidates. From this list, the committee nominated nine candidates to fill five Council positions. I am confident that from this slate the membership will be able to elect councillors who will make solid contributions to the management of the affairs of the Association.

Under the By-Laws of the Association, there may also be additional candidates nominated by the membership.

I would like to express my thanks for the work and input of the committee members and the assistance and guidance of Joan McKinley. In particular, my thanks go to all those members who were approached by the committee, for their concern and consideration with respect to allowing their names to stand for nomination. □

House Inspections Committee



K. Drysdale, Chair

Members:
B. Boyaniwsky
C. Davis
T. Eshmade
L. Frovich
M. Pelletier

Starting in January, 1994, the House Inspections Committee has been meeting regularly to prepare a new brochure for the public describing engineering services related to house inspections.

By May of this year, a draft brochure was prepared and submitted to the APEM Council for review.

At this time, the document is being prepared for publication in late 1994.

Starting in the fall of 1994, the House Inspections Committee will reconvene to discuss the issues surrounding preparation of a guidelines document for engineers to use in the provision of house inspection services.

It is the intention of the committee to prepare a draft document for review by the end of 1994. □

Salary Research Committee



Members:
B.G. Bettess
W. Czyrnyj
L.R. Ferchoff
L.J. Kuczek
S.J. Ormiston
G.R. Norberg
A.N. Kempan

E.G. Parker, Chair

To satisfy our objective of providing salary information for use by the public as well as Association members, the Salary Research Committee conducted its annual employee and employer salary survey this spring. The results were published and distributed with the August mailing of the Manitoba Professional Engineer.

This year's survey included a question on the gender of the respondents. As well, a salary comparison based on years from graduation was added to our report. For the year ending March 31st, 1994, the average salary increase was 2.3%, with 42% of respondents reporting no increase or a decrease in salary. Also, the number of bonus payments reported was down by 20%. The mean salary of the respondents was $56,641. The best-fit curve for mean salary versus APEM points(P) indicated MEAN ANNUAL SALARY = $15,251 +$84P.

Our research also provides profile information on the Association membership, not only with respect to salary but also with respect to membership field of employment, size of employer, job function, experience level, employee benefits, and education level.

Many thanks to the committee members for their efforts this year, and to Dave Ennis for his continued support. A special thank you to Joan McKinley for her assistance in keeping the minutes and supporting our survey distribution and report preparation. □

Professional-Practice Examination Task Force



Members:
N.P. Feschuk
P. LeMaistre
W.D.A. Rose
R.M. Swystun

S.M. Matile, Chair

In 1992, the Canadian Council of Professional Engineers (CCPE) adopted a Guideline for the Admission to the Practice of Engineering in Canada. Included in the guideline, which was adopted by this Association in principle, was the requirement that all applicants for registration complete a comprehensive examination to confirm their knowledge of the ethical obligations and the legal concepts relevant to Professional Engineers.

In 1993, the CCPE Guideline for the format and content for the Professional-Practice Examination was finalized, and adopted in principle by this Association.

Because our Professional-Practice Examination comprised a mail-in, true-or-false, open-book "quiz" on our Act, By-laws and Code of Ethics only, this Association clearly had some work to do in raising the standard of our examination to that of our counterparts across the country. Accordingly, a small Task Force was formed, late in 1993, to develop and implement a new examination.

The work of the Task Force is now almost completed. The Task Force has recommended, and Council has approved, the following:

1. The examination will be conducted twice annually, with the first examination likely to be conducted in the spring of 1995. It will be a three-hour, closed-book, multiple-choice examination.
2. Preceding each examination will be a 15-to-18-hour Professional-Practice Seminar. **ATTENDANCE AT THIS SEMINAR WILL BE MANDATORY FOR ALL APPLICANTS FOR REGISTRATION.** The examination will be conducted one week after each Seminar.
3. Once a year, the seminar will comprise six weekly, two-and-a-half-hour modules; and once a year, it will be conducted over a weekend, to accommodate out-of-town applicants.
4. The Seminar and Examination will be facilitated by the University of Manitoba's Continuing Education Division.
5. The cost to the applicant, at least in 1995, will be $275, payable to the University of Manitoba. This price will include course notes, lectures, and the setting and marking of the examination.
6. **ALL PERSONS WHO ARE NOT REGISTERED PROFESSIONAL ENGINEERS AS OF JANUARY 1, 1995, INCLUDING ALL CURRENT EIT MEMBERS OF THE ASSOCIATION, WILL BE REQUIRED TO TAKE THE SEMINAR AND PASS THE EXAMINATION IN ORDER TO BE REGISTERED.**
7. Applicants will be eligible for the Seminar and Examination after they have obtained twelve months' engineering work experience.

We are fortunate in having lawyers Linda Kerr, Wells Peever and Richard Swystun (who is also a member of the Task Force), patent expert Adrian Battison and our own Professor Dick Johnson, P. Eng. preparing course notes and examination questions and delivering seminar modules. With this team of professionals, we are sure that we will be able to deliver a quality Professional-Practice experience that many of our registered members will be interested in!

Many of the details of this new program have yet to be finalized. Please watch for details in future issues of this publication. □

Discipline Committee



Members:
K.A. Buhr
N.P. Feschuk
R.A. Kane
D.M. Kilgour
B. King
W.R. McQuade
G.A. Morris
D.N. Spangelo
J.M. Symonds

R.E. Scouten, Chair

The Investigation Committee laid charges of negligence against two members of the Association in 1994. Dates were set for a hearing of each of the cases before a panel of the Discipline Committee.

In the first case, the member put forth a number of cogent reasons to defer the hearing. The Chair of the Discipline Committee referred the member's reasons to the Investigation committee for consideration. Subsequently, a joint submission was made, by lawyers for the member and the Investigation Committee, recommending that the hearing be adjourned sine die (without assigning a day for resumption of the hearing).

With respect to the second case, dates have been set for a hearing this fall. □

Executive Directors Report

(Cont'd from page 4)

There were no prosecutions initiated over the year.

The Attorney General does not lay charges against or prosecute persons for contravening the Acts of self-governing professions. The onus for such action is on the professions. The costs of a prosecution can become significant.

This year the Council established an Enforcement Committee. The expectation is that enforcement activity can be increased and at a lesser cost. One of the initiatives planned is for Committee members to approach individuals and corporations directly, to raise awareness of the requirements of the Act and seek voluntary compliance.

On the national front, the Constituent Associations of the CCPE have established a protocol for a National Contingency Resource Pool to collectively address major issues of significant potential national impact(i.e. enforcement or discipline) which require extraordinary resources relative to those available to a given Association. This is not intended to replace the informal co-operation among the various Associations in the past.

There is also a national initiative underway to resolve the issue of improper use of the term "Software Engineer". The matter involves the contravention of the title provisions as well as probable contraventions of the practice provisions of engineering Acts by persons in the information processing industry.

Additionally, the Natural Scientists Societies of Canada (led by the Canadian Association of Physicists) have challenged the definitions of the practice of engineering and the exclusive right to practice provided by the various Engineering Acts across Canada. The CCPE is currently negotiating with the Natural Scientists on this matter.

"The Office"

One of the matters discussed at the 1993 Annual Meeting was the possibility of the Association purchasing its own building. To date there has been no decision taken on a recommendation to purchase.

However, there have been some changes in the Association office. In April, the Association took delivery of a networked computer system and will soon have a custom database program in place to track membership information.

The implementation of this and the very comprehensive admission changes while accommodating the needs of thirty or so Boards, Committees, Task Groups and Action Plan Teams can sometimes be a daunting task. Were it not for the dedication and effectiveness of the staff, service to the public and the membership could not be maintained. To each of them I express my sincere appreciation.

No message of appreciation could be complete without recognizing the contribution of the elected and appointed volunteers who participate in the affairs of the Association. By going that "extra mile", they make an invaluable contribution to the governance and advancement of the practice of engineering. Their contribution and the participation of members in the electoral process are essential to self-governance. □

Legislation Committee



B.D. MacBride, Chair

Members:
G.S. Cooper
D.W. Gunter
W.C. Harrison
J.S. Hicks
J.G. Hildebrandt
D.N. Spangelo

The Committee met eight times over the year. The major review of the Engineering Profession Act continued with APEM's solicitor going through the document. The revisions include group practice licensing, inclusion of geoscientists, a revised code of ethics section, changes in qualifications, gender neutrality and numerous other changes. The Committee will be meeting with the solicitor shortly to finalize the Act. Subsequently, it will be sent back to Council and then it will be available for comments by members and other interested groups. At that point the Act will be processed through the Provincial Government which has jurisdiction and control over all changes.

The Committee prepared comments on the *Discussion Paper – The Future of Occupational Regulation in Manitoba*, prepared by the Law Reform Commission. The comments were subsequently submitted to the Commission by APEM Council.

The Committee also dealt with routine requests by Council for comments on various aspects of engineering such as a draft memorandum of agreement with the Architects, the legislation changes required for electronic seals, and concerns of natural scientists with respect to the definitions of engineering.

This is all carried out with cheerful participation of the committee members. Thanks to staff for their guidance and input on every issue.

The next big job for the committee will be to rewrite the by-laws to be consistent with the revised Act. Since it may be some time before a new Act is in place, the Committee will also have to keep updating the current by-laws as the needs arise. □

Sustainable Development Task Force



J.T. Atchison, Chair

Members:
F. Cosway
J. Cowan
D.A. Farlinger
R.R. Foster
E.H. Klassen
R.O. Lambert
D.M. McCartney
S.L. McLeod
D.G. Osman
D. Shefford
R.D. Sopuck
C.L. Stewart
D.L. Woytowich

The Task Force on Sustainable Development finalized its program in June, 1994 and a final report was completed and submitted to Council in July, 1994.

A brief outline of the report includes a background of APEM activities up to the creation of the task force in May, 1992. The Terms of Reference given to the task force were directed towards creating an APEM program to increase awareness by professional engineers of the need to adopt sustainable development (SD) practices.

In carrying out its task, the task force examined the programs of the University of Manitoba's Engineering Faculty and the Canadian Engineering Accreditation Board (CEAB), with respect to the emphasis being placed by them on SD awareness.

With considerable help from the Manitoba Round Table Organization, and the International Institute of Sustainable Development (IISD), a model lecture/workshop/case-study program for SD awareness instruction to engineers was designed. Parts of the program were successfully demonstrated during 1993 and 1994.

The task force Report offers many recommendations for future activities of APEM to continue to develop SD awareness among professional engineers. With the completion of the report, the task force has completed its work and is disbanded. The Chair wishes to thank the task force members for their support and co-operation throughout the program. □

Sports Committee



Members:
D.G. Bell
B. Biglow
K. Miller
M.D. Vanderpont

J.F. Lavergne, Chair

The Sports Committee maintained the two traditional golfing and curling events this year, and for the third year 'running', we again competed in the Manitoba Marathon.

The number of members entered in the 14th annual Manitoba Marathon was up from last year, with a total of 20 runners (four teams) braving the 26.2-mile (42.2-kilometer) relay on a warm and muggy Sunday morning in June. That's one more team than last year. Although no teams actually came home with any medals, their times are getting better. Two of the four teams came close to breaking the three-hour barrier. Not bad. Let's make five or six teams next year.

Not wanting to break with tradition, the curling bonspiel was again held at the Granite and featured a slate of only 14 rinks. This year the rink of Charlie Lew, Rhonda Orr, Dave Nicholls and Sean Quigley took to the podium with top honours. Again, a "closest-to-the-button" competition was held with proceeds being donated to charity. Special thanks to Bill Saunders for his skills as drawmaster and to Kirby McRae for his musical talents on the bagpipes.

This year's golf tournament was held at Falcon Beach Golf Course. The 120 or so golfers enjoyed themselves with a few holes of golf, a "cold one" or two and a fabulous steak dinner. Although the format has changed (Texas Scramble), the results were the same, as a good time was shared by all. By the day's end, the team of R. Cotterill, K. Skaftfeld, D. Kingerski and R. Schmidtke finished up with a score of 66 and was awarded the Landon Cup.

Many thanks to the several companies who agreed to sponsor individual holes and a special thanks to all the members and their corporate affiliates for the unsolicited prizes they donated for these two events.

The Sports Committee is always looking for new members who have ideas for new events and suggestions on how to improve our traditional events. Interested parties are simply asked to contact the Association office or any member on the committee.

My thanks to the Sports Committee members who all sacrificed their time and efforts to ensure that this year's events were all successful. Your leadership and dedication were greatly appreciated. □

Four-Year-Work-Experience-Requirement Task Force



Members:
D.T. Anderson
D.S. Jayas
A. Silk

S.M. Matile, Chair

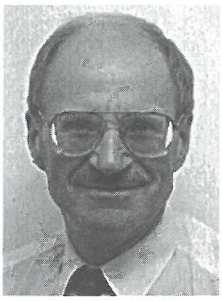
In June, 1994, this Task Force was created to deal specifically with the issue of establishing and implementing the four-year-engineering-work-experience requirement. One of its major tasks was to prepare guidelines for the operation of the Experience Review Board.

Council had already adopted the CCPE recommendation and defined acceptable engineering work experience as: comprising the practice of engineering as defined in the Engineering Profession Act; including the application of theory; and providing exposure to or experience under the general headings of practical experience, engineering management, communication and the social implications of engineering. It became the responsibility of the Task Force to elaborate on this definition, and address its implementation.

To date, the Task Force has established, and Council has endorsed, a process for the review of the work experience of EIT members as they obtain the experience. Unlike the Associations in BC and Newfoundland, which have adopted programs comprising the EIT's maintenance of a log book to be signed by the supervisor and submitted mid-term (i.e. after two years) to the Association for review followed by an interview, APEM has adopted a model similar to that adopted in Saskatchewan, whereby the EIT member and the supervisor will be required, every six months, to submit specific information for the review and approval of the Experience Review Board. While the recording of engineering work experience in a log book is highly recommended by Council, it will not be a requirement, and the Association will not normally be reviewing log books.

The Task Force is currently nearing the completion of its review of the first drafts of each of the operations manual for the Experience Review Board and the information packages for new EIT members, their supervisors and their employers. The Experience Review Board, the Registration Board and Council will all have to approve the final versions of these documents. □

Registration Board



Members:
K.J.T. Kjartanson
W.R. Newton
D.G. Osman
D.I. Waldman

W. Pawlikewich, Chair

In 1994 Council of the Association of Professional Engineers of the Province of Manitoba adopted a new Manual of Admissions. As a consequence, a Registration Board was established. The function of this Board is to approve applications for all types of membership, to serve as an appeal body regarding decisions of the Office of the Registrar, the Board of Examiners, or the Experience Review Board, and to report back to Council.

Members of the Association were recruited to serve on the Board and it commenced its duties with an inaugural meeting on March 30, 1994. It has since held four additional meetings. Monthly meetings are contemplated.

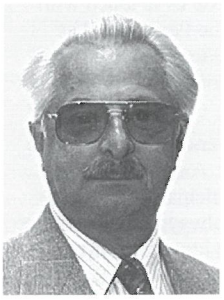
Recommendations of the Board of Examiners and the Experience Review Board were examined and, for the most part, accepted. One applicant applied for special consideration and his registration was approved pending a positive review by the entire Experience Review Board. The applicant was accepted.

One decision of the Experience Review Board was appealed. The Registration Board convened a sub-committee to meet with the appellant and review his credentials. His application was accepted.

One person appealed against a decision by the Board of Examiners not to assess his academic credentials. After due deliberation, the Registration Board decided that the applicant's academic credentials must be assessed by the Board of Examiners and that body was so advised.

I thank all members of the staff of the Association who assisted the Board in its endeavours. I also thank those engineers who agreed to serve on the Board for their valuable contribution. □

Consulting Engineers Committee



H.J. Haak, Chair

Members:
I.R. Dewar
R.J. Houston
A.J. Kettler
J.O. Klein
W.J. McCulloch
R. Menon
D.G. Mulder
B.J. Rossen
T.L. Stratton
J.M. Symonds
E. Weiszmann
J.D. West

During the six meetings held since October 1993, the committee considered and dealt with a number of items such as:

- Review and Comment on a Draft Memorandum of Agreement between APEM and MAA
- Comment on the Guide to The Use of the Seal
- Review and Comment on The Practice Standards of Waste-Water Lagoons
- Requirement of a Regulatory Agency to have consultants certify that their designs comply with specific codes governing their work for a given project
- Update Appendix A of the APEM's Guide for the Engagement of a Consulting Engineer
- Review the adequacy of APEM's Standard Form of Consultant/Client Agreement, dated May 1974

Since the space for committee reports is limited, only a general overview of the committee's efforts on the above items can be provided.

A proposed Memorandum of Agreement of Understanding between APEM and MAA was considered by the committee to be a matter of such far-reaching implication that a recommendation was made to the Executive Committee to hold a special Membership Meeting.

Comments on the use of the seal included the use of an electronic seal, use of the seal on inappropriate documents not of a technical and/or engineering nature, and use of a qualified seal.

The review and comment on the Practice Standards Waste-Water Lagoons resulted from a concern expressed by a member of the public, which was presented to the committee by Councillors D.G. Osman and A.H. Permut, to provide Council with recommendations on this matter.

The committee addressed the request, by a regulatory agent, for certification by a consultant that a design complies with specific codes, by inviting members of the Association of Consulting Engineers of Manitoba (ACEM) and the regulatory agency to present their concerns/reasons. The committee has reported back to the Executive Committee with its recommendations.

More of the committee activities, such as the preparations of the minutes of meetings, are now conducted by the members in accordance with the Executive Committee's requirements.

Many thanks to the APEM staff, especially Dave Ennis, and the volunteer members of our committee for their work in the past year. □

Annual General Meeting Committee



T. Holden, Chair

Members:
C.G. Allard
K.H. David
B.C. Jorowski
R.R. McKibbin
K.J. Puckall
B.R. St. Amant

The committee is responsible for developing and directing activities relating to the Annual General Meeting.

Those activities have covered a wide range. They include program development and arrangements for the various aspects of the event, selection of guest speaker and topic for presentation, budgeting, and development of the format for the Annual Meeting.

This year's guest speaker at the breakfast is Mr. Jack Lemley, former Chief Executive of TransmancheLink, who will be speaking on the English Channel Tunnel (Eurotunnel) – an engineering works marvel.

The business meeting will consider a number of items of business and information. In particular I bring to the members' attention an item on the change for registration requirements regarding work experience.

For the evening, a semi-formal dinner with a gala of entertainment is planned at the Carleton Club in Winnipeg. Tickets are limited.

Lastly, after 10 years with the committee, three as Chair, it is time for me to move on and allow other members to add their touch to the works of this Association. To the members of the committee and staff of APEM I thank you for your enthusiasm, the long hours of work, and interesting debates over the years. I wish you all the very best. □

Director of Admissions' Report

(Cont'd from page 4)

In March, the Registration Board held its inaugural meeting and elected its Chair, and in April, it first approved and accepted applications. In April, also, Council extended its grandfathering policy to include anyone who has both met the full academic requirements for registration and made application to this Association for EIT membership by December 30, 1994; and revised its long-standing policy on the eligibility of engineering work experience such that now, where there is more than a two-month delay between completion of education and convocation, the work experience "clock" commences as of the successful completion of all academic requirements for the degree.

In May, Council reversed its earlier decision to grandfather EIT members from having to write the new Professional-Practice Exam; and the President signed the Interim Inter-Association Mobility Agreement.

In June, the Board of Examiners formalized the "verification assessment" – the process for assessing the academic qualifications of applicants with Mutual-Recognition-Agreement (MRA)-accredited degrees; the Registration Board considered its first appeal (it was against a decision of the Experience Review Board); the Four-Year-Work-Experience-Requirement Task Force held its first meeting; and the preparation of the Experience Review Board's Operations Manual commenced.

In July, Council approved the recommendation of the Professional-Practice Examination Task Force regarding the nature, format, content and administration of the Professional-Practice Examination; postponed addressing the areas of conflict between its own policies and the Inter-Association Mobility Agreement; and approved an Experience Review Board recommendation regarding EIT work experience reporting.

In August, the Registration Board concluded the consideration of its first appeal by overturning the decision of the Experience Review Board and registering the appellant, and considered its second appeal (this time against a decision of the Board of Examiners). In August, also, the EIT Task Force met for the first time. This Task Force will develop the requirements for EITs under the four-year program and establish the requirements for current EIT members who will not be registered by January 1, 1995.

As you can see, there is much to be accomplished by January 1. It is unlikely that an operations manual will be developed for the Registration Board, or that a staff procedures manual will be prepared – at least, not in 1994! But I am confident that the other initiatives are progressing well, and that we will be ready for the implementation of the four-year-work-experience requirement on January 1, 1995! □

COMMITTEE REPORTS COMMITTEE REPORTS COMMITTEE REPORTS COMMITTEE REPORTS

Awards Committee



Members:
K.A. Buhr
J.S. Hicks
A.H. Permut
K. Olischefski
C.E. Anderson
F.R. Kaita

N.P. Feschuk, Chair

The Awards Committee is responsible for recommending to Council the award winners for various APEM awards, Honorary Life Membership recipients, and APEM nominees for the CCPE awards.

The process of soliciting nominees for the awards involves requesting nominations from the general membership and the public. Unfortunately, based upon results, this process is not very successful. The Awards Committee would welcome suggestions from the membership as to how we can better solicit nominees for the APEM and CCPE awards. Please forward your suggestions to the APEM office.

The APEM awards are the Merit Award, Outstanding Service Award, Honorary Life Membership, and Certificate of Engineering Achievement.

The CCPE awards are the Gold Medal Award, Young Engineer Achievement Award, Meritorious Service Award – Professional Service, and Meritorious Service Award – Community Service. Information on the criteria is available from the Association office. I would request that you spend the next five minutes considering who you feel is deserving of an award and forward your nominee's name to the Awards Committee. We have many members who are deserving of recognition. We need your help to identify them. □

Publication Committee



Members:
A.E. Ball
B.A.K. Danielson
B.A. Dobran
V.L. Dutton
L.Y. Ganetsky
C.P. Gray
A.N. Kempan
J. Lucas
W.G. McKay
H.S. Zbigniewicz

J.W. Bogan, Chair

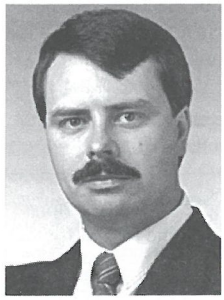
The Publication Committee is responsible for producing the Manitoba Professional Engineer every two months. The primary objective of the Committee is to keep APEM members informed of Association activities, report on Council meetings and engineering events, as well highlighting items of interest to engineers throughout the province. The committee tries to keep the articles informative, topical, educational, and where possible, entertaining.

The Committee thanks all members who have made contributions in the form of articles or covered Association events through the past year. We also welcome articles from members living outside of Winnipeg, which keep us in touch with what's happening beyond the Perimeter. The number of Letters to the Editor has increased slightly over the years, although the basket is not overflowing.

The committee's membership has decreased by one during the past year. Any member, so inclined, is welcome to participate in the committee's activities. As always, the committee encourages all constructive ideas from the membership.

Because of the Association's financial responsibilities, the availability of APEM support staff has recently been reduced for many of the committee's administrative duties. For example, Minutes of Meetings are now produced by various committee members. However, the Committee would like to thank Donna Bilodeau for the assistance she has provided. □

Use of the Seal Committee



Members:
A. Ball
M. Bulman
K. Franklin
P. Janzen
R. Kennedy

K. Drysdale, Chair

By June, 1993, the Use of the Seal Committee had completed and forwarded a copy of the proposed guidelines to Council for review. Over the next 12 months, the various working committees of the Association reviewed the draft document in detail, and made recommendations for revisions.

Following receipt of all suggested revisions, the Committee met to review the comments and prepare a finalized document. The document has been submitted to Council for final approval and publication.

It is our understanding that Council is reviewing the document and will make final revisions, with the intent to issue the document sometime late in 1994. □

Professional Development

Public-Private Partnerships

By: G. Kibria, P.Eng.

"As the fiscal crisis deepens, the public sector is turning to the private sector for help in the delivery of infrastructure projects and services" said Rod McRae in his June 29, 1994 breakfast meeting presentation. Mr. McRae is the Commissioner of Works and Operations for the City of Winnipeg. He said that the City of Winnipeg is looking for suitable business partners to design, build, and operate infrastructure; and to repair and upgrade swimming pools, water treatment facilities, aquaducts, etc.

The concept of the public-private partnership is emerging very quickly and gaining acceptance due to financial problems faced by both private and public sectors. This type of public-private partnership arrangement is designed very carefully to benefit business partners as well as the public. Under such a partnership arrangement, a public sector can provide infrastructure and services without undertaking significant financial burden, while the private sector finds an opportunity to invest in a project on a long-term basis. Profit on the investment may be made by the private sector by managing the project cost effectively, employing user fees, and taking advantage of available tax shelters. The public and private partners share risks, rewards, and responsibilities for the success of the project(s) undertaken in the partnership arrangement.

Mr. McRae is the originator of the business partnership arrangement that is being developed, formulated, and finalized for the design, construction, and operation of the Charleswood bridge. Under this partnership arrangement, the selected partner will operate and maintain the bridge for 60 years. The City of Winnipeg has already issued Request for Proposals for this project. The proposals, received from local businesses, are being reviewed by an independent financial organization and the Management Committee. It is expected that the selection of a suitable business partner will be completed in September, 1994.

The Professional Development Committee presents important topics in breakfast meetings to benefit individuals and businesses. The above presentation was well-received, and attended by approximately 55 people. □

U OF M Proposing Five-Year Engineering Program

By: S.M. Matile, P.Eng.



In January, 1994, Faculty Council at the University of Manitoba's Faculty of Engineering approved, in principle, a proposal to change the engineering education program in Manitoba from a four-year to a five-year program.

Why, you ask?

Well, something had to be done. For years, now, the attrition rate in first-year engineering has hovered around the 30% mark, and fewer than 50% of those entering the faculty ever graduated. This was, presumably, of little concern when the Faculty was able to meet the demand for engineering education. The entrance requirement was a high-school average grade of 60% in math, physics and chemistry, and everyone who met this modest standard and wanted to become an engineer was given the opportunity.

Times, however, have changed. For some time, now, the demand for entry into the Faculty of Engineering has greatly exceeded the space available, resulting in restricted admission to the Faculty based on academic performance. This past year, even though the University's calendar continued to specify the requirement for a 60% average in each of math, physics and chemistry, over 1000 people applied for the 400 spots in the first-year class, and the lowest average actually accepted was 77%. There is now a responsibility to, if no one else, the 600-odd high-school graduates who were not accepted into the program, to ensure that those spots are not "wasted". (Is there a correlation between high school marks and retention? If so, how does a 90% average from one public high school in Winnipeg compare to another, to a private school, or to a rural high school? What about IB programs, gifted student programs, French immersion programs, etc.?)

To address this issue, the faculty established, in the Fall of 1993, a Curriculum Committee, chaired by Dr. Ron Britton, P. Eng. This committee spent considerable time and effort studying the problem, examining past and present performance records (it takes the average engineering student, these days, 4.8 years to complete the current "four-year" program), considering the possibility of entrance examinations, etc., before recommending that a one-plus-four program (i.e. one year of selected science courses before being admitted to four years of engineering courses) be implemented.

The proposed program does not increase the content of the engineering curriculum; it simply spreads the workload over an additional period, provides a more equitable means for determining who should be admitted to the engineering faculty, and provides a psychological advantage for students who are unsuccessful in entering the faculty of engineering by allowing them to consider themselves as science students, rather than failed engineering students.

It is proposed that the eight university-level courses upon which admission to the Faculty of Engineering will be based comprise two courses in each of mathematics and English, and a course each in physics, chemistry, computer science and logic.

Surprisingly, perhaps, the concept of such a "one-plus-four"-year program has met with favourable responses from other engineering faculties across Canada (at least two others appear to be considering similar programs), and from students currently enrolled in the engineering program at the U of M.

Understandably, the implementation of such a program is still a long way off. However, the Ad Hoc Curriculum Committee is hard at work, determining whether and when its implementation might be possible.

I am sure the committee would welcome any comments, questions, suggestions or advice from members of the profession. If you have anything to say regarding this issue, please call Ron Britton at 474-6059. □

Council Report

July 11, 1994

By: W.G. McKay, P.Eng.(Ret.)

AT WHICH COUNCIL DISCUSSES REGISTRATION PROCEDURES, EXAMINATIONS AND, FOUR-YEAR EIT EXPERIENCE:

With all but two members of Council present, the meeting got underway to tackle a rather lengthy (19-item) agenda.

FINANCIAL. Having completed 10 months of 1994 operations, the year-end forecast is for a surplus of $26,000.00.

REGISTRATIONS. The Registration Board Report was received and it was noted that registrants had achieved between 90% – 100% in the professional-practice examination. It was requested that in the future the reports give the name of the employer and the location of the employment as information to the council on new registrants.

1995 BUDGET AND FEE SCHEDULE. The proposed budget for 1995 sets out an expenditure of $700,000 -up $35,000 over projected year-end for 1994. In respect to fees and annual dues, there are no increases proposed for 1995.

REVIEW COMMITTEE. Currently the Council is considering a request from an engineer seeking re-registration following a number of years of non-registration during which time the work experience was limited. It was noted that in the interim period the seal had been used which is in contravention of the Engineering Profession Act.

INTER-ASSOCIATION MOBILITY AGREEMENT. Recently the Council signed on as a party to the Inter-Association Mobility Agreement which is designed to facilitate the registration of applicants from other provinces. Shirley Matile, Director of Admissions, reviewed the agreement and the policies of APEM, indicating that there are items of conflict. Further review will be required, pending which the present procedures of registration will remain in practice.

The Professional-Practice Examination Task Force submitted a report discussing the proposed cost of $275 for the training sessions. Some questions were raised as to how the training sessions would operate beyond Winnipeg, e.g., Thompson. Council also received recommendations from the Experience Review Board pertaining to the evaluation of an EIT's experience over the 4-year mandatory period. It was agreed that a report should be received every 6 months from each of the applicant and the supervisor. The maintenance of a log book by the EIT was also recommended.

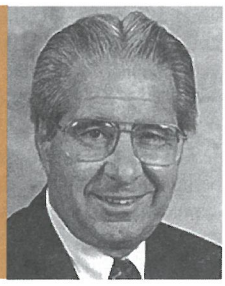
BROCHURE ON HOUSE INSPECTIONS. Council approved in principal a brochure on the engineering services and procedures for house inspections. Such a document should assist in setting forth the services which an engineer provides and at the same time, provide guidelines to the client as to expectations in the inspection of a single-family residence.

Council will review the CCPE budget at its next meeting and prior to the final approval at its fall meeting.

Council, following past practice, declared a two-month recess, so the next Council meeting will be held in September. □

CCPE President's Message

Dr. Garland E. Laliberte, P.Eng.



Communication in Engineering

If you are not a good communicator, you are not a good engineer. Good communication is a key factor in good engineering. It is important in engineering to be able to articulate your ideas, to influence others to support some plan that you have in mind or to help them understand a very complex phenomenon. As engineers, both at a technical level and at a more general level, not a day goes by that we do not have to express our thoughts and ideas, to make ourselves understood or to give our ideas credibility.

Why then, do so many of us regularly present ourselves as poor communicators? It probably stems from a phenomenon that manifests itself at an early stage in our personal development. We are attracted as high school students toward the linearity of mathematics and science and we steer away from the multidimensionality and the indeterminant nature of the liberal arts and the language arts subjects. We appreciate the logic of the sciences and we derive satisfaction from the successful completion of a mathematical proof. We find considerably less intriguing the analysis of what Shakespeare or Moliere might have meant when they crafted a passage in a certain way. And so we tend to excel in mathematics and science and we "get by" in the language arts.

In other words, we amplify the natural divergence in our talents. In fact, many of us choose engineering for our careers because we get so much satisfaction from dealing with quantitative concepts. As an engineering educator, I don't know how many times I have heard a first-year engineering student declare that he or she is good with numbers but not with words. Those of us in the engineering schools validate this view of our profession when we specify mathematics and the sciences as admission subjects but do not insist on English or French. Perhaps we should change the admission requirements.

The inappropriateness of the view that engineers need not be good communicators begins to manifest itself as the student moves progressively through the curriculum. The importance to the developing engineer of being able to communicate his or her ideas becomes increasingly apparent. By the time of graduation, the importance of good communication skills has become obvious.

The quality of communication skills is possibly the most frequently mentioned deficiency by employers of our graduates. Nonetheless, most of us hone our communication skills on the job. We have to, or else we would not be the effective employees our employers require us to be. For many of us, it requires considerable effort and the guidance of others. However, by that time, many of us have become convinced that we are not good communicators and even though we have by then cultivated our communication skills, we still perpetuate the myth that most engineers are not good communicators.

My view is that we should stop underselling our profession as a profession of poor communicators. If, as individuals, we really believe that our own communications skills require improvement, we should get on with some professional development activities designed to improve these skills. Also, we should not shy away from opportunities to express ourselves. We should accept that invitation to be a guest speaker! We should not decline that opportunity to write a guest editorial. Involvement in technical societies and in professional organizations provides an ideal opportunity to improve ourselves as communicators. Accept those challenges, even seek them out. By doing so, we and our organizations both benefit! □

The Aqueduct Becomes A Historic Engineering Site

(Cont'd from page 1)

Other officials in attendance were Claude Johnson, Past Chairman; CSCE; Ralph Chrysler, Chairman of History Committee; George DePauw, who co-ordinated the arrangements for the plaque and the ceremony; and Glen Morris, Chair of the Conference.

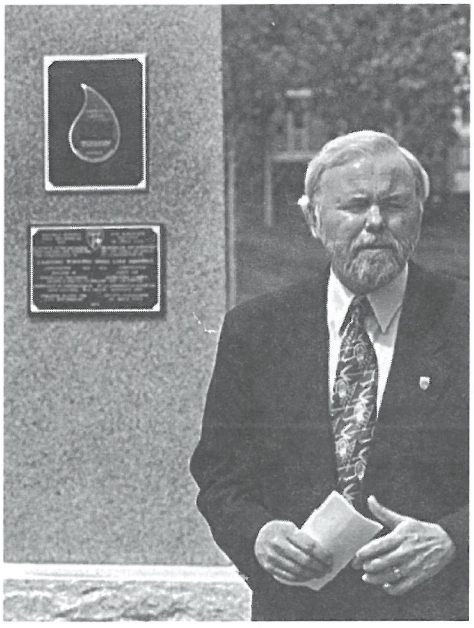
Since 1983, the History Committee has been designating sites of civil engineering works which are at least 50 years old, and has plaqued some 27 sites, bridges, canals, pumping stations, aqueducts and railways across Canada.

During the conference on Saturday, June 4, several presentations on historic sites were made. Of particular note was the proposed double-plaquing of the White Pass and Yukon Railway – both at Skagway and Whitehorse, and as this is an international railway, it will be jointly honored by CSCE and ASCE.

There are now three sites in Manitoba: the Grand Rapids Tramway, the Lockport Dam Canal and River Crossing, and the Shoal Lake Aqueduct.

It was a very fitting ceremony, in pleasant surroundings on the bank of the historic Red River.

It is of interest to note that in the Awards Program presented on Friday evening, the History of Civil Engineering Award went to Mrs. Phyllis Rose, B.Sc. M.E. Mrs. Rose has done much research and publication on historic engineering works, including a guided walking-tour through the industrial neighbourhoods of Toronto, all of which is another way to acquaint the public with the works of engineers. □



Dan Burns, President, CSCE, in front of plaque commemorating the engineers of the aqueduct.

Jack K. Lemley to Discuss the Eurotunnel at the Annual General Meeting

By: D.G. Chapman, P.Eng.

The APEM is proud to have a distinguished engineer and project manager make a presentation to our membership at the breakfast session which will kick off the 1994 AGM.

Jack Lemley was Chief Executive Officer of TransmancheLink (TML), the turnkey contractors for the new English Channel Tunnel (Eurotunnel).

Mr. Lemley is currently the head of Jack Lemley & Associates in Boise, Idaho. Before joining TML he had worked at Morrison-Knudsen Co. Inc. and Guy F. Atkinson Co. His work on the Eurotunnel earned him *Engineering News Record's* Construction Man of the Year Award for 1991.

The AGM committee felt that the Channel Tunnel project was of interest to a wide range of engineers. This project involved complex scheduling, tunnelling, rail and road transportation, communications, life safety systems and finance to a degree which has not been seen before.

We have asked Mr. Lemley to provide an overview of the project, to talk about the difficulties encountered, and to talk about his work on the project. We expect a very interesting and wide-ranging talk and question period.

Please obtain your tickets early. Space is limited, and no tickets will be sold at the door. □