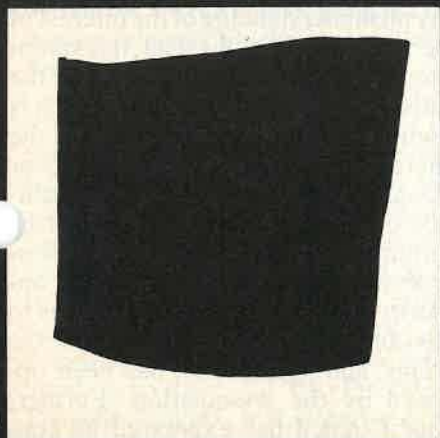


Bulletin

November

78

*The
Manitoba
Professional
Engineer*



**ANNUAL MEETING
EDITION**

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**Opinions expressed are not necessarily those held by the A.P.E.M. or the Council of the
A.P.E.M.**

WINNIPEG, MANITOBA, NOVEMBER 1978

President's Message

By A.W. Gilliland, P. Eng.

Please attend the Annual Meeting to be held on November 24, 1978, at the Winnipeg Inn. At that time a complete statement regarding the activities of your Association will be presented, and you will have the opportunity to question, support, or criticize those members chosen by you to administer the Profession of Engineering in Manitoba during 1978.

Adherence to the Code of Ethics by all members of the Association has been of some concern to your Council. While it is necessary for Professional Engineers to be accountable and further that knowledgeable and good men act in the face of perceived evil, it has long been the custom that statements concerning another Engineer and particularly criticism of one Engineer by another should be directed to professional or technical journals. There is growing evidence that the Code of Ethics clause which covers this matter is being ignored by some of our members. A special committee has been asked to study the Code to determine whether or not a change is re-

quired. For the time being, it should be understood that the diversity of priorities among a growing membership must not be allowed to divert the Association from its primary responsibility to the public. Professional Engineers must be seen to respect their own Code of Ethics.

Labour Relations matters continue to exercise your Council and have required considerable effort during the past months. In case there should be any misunderstanding of the interest of the Association in this field, it is stimulated only by a concern to protect the authority of the Association, which is itself fundamental to protection of the interest of the public as a whole. Your Council is of the opinion that the inclusion of Professional Engineers in bargaining groups which contain non-professional persons places the authority of the Association at risk due to possible conflict of interest within the group, and such action has been opposed by the Association. Further, your Council has expressed its concern at an interpretation of the Man-

itoba Labour Relations Act which would delegate the right to determine who is, and who is not, practising a profession to a body other than the appropriate professional Association. Council believes that a strong and effective Association is the best guarantee that the public will be protected from inadequate or unethical engineering and has taken action to support that position.

Funding of the Faculty of Engineering at the University of Manitoba has been a subject of continuing concern for your Council and many members. Once again, Council has taken the position that the Association has a legitimate role to point out the consequences of inadequate funding and to support useful efforts to ensure the continuation of a strong Engineering program at the University. The report issued by the Canadian Accreditation Board concerning the Faculty of Engineering has the full support of your Association, and Council looks to the Administration to ensure that funds will be available to maintain all current faculty programs. The Administration has been made aware of the implications of a negative report by the Canadian Accreditation Board. All members should know that all departments within the Faculty have been accredited once again by the Accreditation Board.

As has been stated previously, this has been a year of reorganization at CCPE. Established programs, such as the Canadian Accreditation Board, have continued while the Executive and Directors consider upgrading the standards of admission to the profession, both academic standards and demonstrated professional development activities. CCPE President, Danielle Zaikoff, will attend our Annual Meeting and will be in a position

to explain the current position of the national body.

There are many other items which will be covered on November 24th. Many of these result from the dedicated work of the many Committees of the Association representing individual commitment by approximately 200 of our members. "THANK YOU" to all these truly Professional Engineers. The self governing profession in Manitoba is on firm foundation because of the involvement of each of these committed persons.

"THANK YOU" also to the hard working staff of the Association. The efforts made by the staff make possible the administration of the profession and the work of Council and Committees. Without this strong support, very little could be accomplished.

To conclude, may I thank all members for the privilege of serving as your President during 1978. I hope that some of the activities which have been undertaken will prove to be helpful to the profession, and I humbly thank you all for your support.

Report of Managing Director & Registrar

One of our constant concerns is that there are graduate engineers residing in Manitoba who may be practising engineering but are not registered with the A.P.E.M. A special effort was made this year to locate these individuals. In co-operation with the staffs of the other provincial engineering bodies, we were able to obtain lists of those registered only in other jurisdictions but residing in Manitoba. These individuals all received letters pointing out their obligations under the Engineering Profession Act. We find that many of those contacted confirm that they are not practising engineering or using an engineering title, but others

have already registered or are taking the necessary steps to do so.

Many of our members have had the occasion to complete the new registration reference form which was initially drafted and piloted through Council by Walter Saltzberg. This form, although longer than that previously used, puts the referee through a thought process, and we usually end up knowing much more about the applicant's engineering experience. Many of our members are of the opinion that the minimum two-years' experience requirement is not sufficient and are recommending a longer period. It is probable that this subject will be raised at the national level.

Another question already raised at Canadian Council is the ability of each province to discipline those to whom it issues a licence. The Manitoba Engineering Profession Act does not permit us to discipline those whom we issue licences although we have the right to withdraw a licence or to refuse a further request. We are presently urging the other Associations/Order to agree to accept complaints from other jurisdictions for work done under licence in that jurisdiction. If that is not possible, it has been recommended that we revert to our former policy of registering non-residents of Manitoba.

Council has appointed several Ad Hoc committees this year to study and to recommend on: possible changes to the Code of Ethics; the pros and cons of Group Practice; the impact of the Canadian Accreditation Board Report on the Faculty of Engineering at the University of Manitoba; a formalized relationship with elected government representatives and with senior government engineers; effects of Labour Board Rulings on the Profession and a continued effort to have the Labour Relations Act revised.

To supplement the Board of Examiners and the Admissions Review Board, a Committee of Council has been established to review an applicant's experience obtained prior to the applicant's being considered academically qualified. This means that in special cases an applicant may be granted credit for some experience gained prior to the obtaining of an engineering degree or the equivalent as determined by the Board of Examiners. Without lowering registration standards, this committee has contributed greatly to the equitable treatment of applicants.

The Board of Examiners remains particularly busy and now must cope with a new national syllabus of examinations which poses a particular implementation problem when one considers that most of the candidates have been assessed against the 1971 syllabus and will expect to write examinations based on this syllabus and the previously recommended texts. It is the recommendation of the C.A.B. that the published list of accredited overseas universities be discontinued. If this change is adopted by the Associations/Order, it will mean many more assessments to be considered by the provincial Boards of Examiners.

You will note from the Practice & Ethics Committee report that this year it has not been necessary for the Committee to lay formal complaints with Council. It may be timely to remind members that the role of the Practice & Ethics Committee is to a large degree preventative, and members should direct to the Committee questions regarding proper professional conduct and in so doing avoid situations that could lead to disciplinary action. The Committee may receive and investigate written complaints and it may initiate its own investigations. It can lay formal com-

plaints with Council, but only Council may take disciplinary action.

Our support to student and related activities continues, but we do receive many additional requests to which we cannot favorably reply. During the last year we have provided two scholarships and supported the Kipling Ritual luncheon, the Canadian Congress of Engineering Students, the Manitoba Schools Science Symposium, the Fourth Year Engineering Students dinner and the Energy Efficient Vehicle Engineering Team. The New Member receptions have been an additional expense this year but appear to be much appreciated by the new members as do the executive filed trips to visit our more remote members.

A glance at the financial statements of the Association will indicate that our financial situation appears sound, although our net membership growth has been less than expected and reflects the activity of the province. Very few registered engineers enter our doors seeking employment which has meant in the past that there are few unemployed A.P.E.M. members (or that Manitoba exports its unemployed).

Figures for Registrations and Engineering Graduate enrollment are certainly down from the previous few years and would indicate that more of our recent graduates are finding employment in locations other than Manitoba. From November 1, 1977 to October 10, 1978, we have lost 138 members from our roster. The normal annual loss (all causes) is approximately 100.

The role of the A.P.E.M. President continues to become more onerous but Mr. Gilliland was certainly equal to the task and he also found time to extend A.P.E.M. contacts and introduce new programs. We have indeed been fortunate that there were no staff

changes during the year. In our small staff group, personnel changes are extremely disruptive and costly. I am most grateful for the continuing loyal support of Loreen Dunklee, Monica Todd and Joan McKinley who keep the paper moving and receive most of the nasty telephone calls. My thanks also to the members of Council and to the many Board and Committee Chairmen, and members who work so diligently on behalf of the Engineering Profession.

Respectfully submitted,
T.W. Algeo, P. Eng.

Practice and Ethics

The P & E Committee consists of nine (9) members, V.S. Buckler (Chairman), D.A.J. Ennis (Vice-Chairman), F.M. Fowler, R. Hood, L.A. Buhr, R.E. Scouten, F. Penner, A.M. Lansdown, which is the maximum allowable under the by-laws.

Our work load is indeterminate since our function is to advise members of the Association when consulted on questions of proper professional conduct and to consider all complaints received in writing against members of the Association. We report all our activities to Council.

As reported last year, we are not primarily a disciplinary body. We prefer to advise members before a situation develops rather than after.

This year we have held two meetings with a third one pending, during which we considered two requests.

The first complaint concerned the dismissal of an Engineer from employment by a large company. After due consideration and in conjunction with the advice of our solicitor the Engineer was advised that his enclosures did not show sufficient evidence on which to base an investigation. By way of a recommendation it was agreed

that the Committee should not lose sight of a possible Association role regarding member disputes within an organization and that the subject could possibly be debated in the appropriate engineering forum.

The second inquiry regarding compliance with the Code of Ethics of the Association was from two Engineers who have been seconded to work for the Nelson-Churchill River Systems Hydro Inquiry. The Committee found that to date they had complied with the intent of Article 6.5, and further recommended that when the Inquiry is reviewing significant documents of an identifiable Professional Engineer that the Engineer be so advised in writing.

This information was published in a recent edition of the Bulletin, and the public hearings commenced in October, 1978.

May I thank all members of the Committee for their efforts, Terry Algeo for supporting us as Secretary and the other staff of the Association for their assistance at our meetings.

Respectfully Submitted,
V.S. Buckler, P. Eng.
Chairman

Board of Examiners

Serving on the Board during the 1977 term were: K.M. Adams, D.T. Anderson, J.R. Cahoon, J.B. Campbell, E.A. Bridges, W.P. Fraser, M.P. Musick, A.B. Thornton-Trump, J.D. Wiebe, J.S. Townsend, M.Z. Tarnawacky, O. Norris-Elye, G.A. Morris.

During the year, the Board convened for three meetings to consider the academic credentials of 45 applicants. For the previous years of 1977 and 1976, the applicants assessed were 67 and 40 respectively. Ten applicants were judged in possession of sufficient

academic credits to be recommended for registration. Seventeen were assessed from one to four examinations to demonstrate their academic competence before final recommendations are made. Two were assigned three and four qualifying examinations, a satisfactory completion of which will enable the Board to assess a final examination program. Sixteen were prescribed four to eighteen examinations to fulfill their academic requirements for registration.

In addition to assessments, the Board upon the request of Council, offered opinions on seven applications for registration which would normally have been deliberated by Council. All were recommended for registration. The Board dealt with six appeals of previous assessments and found sufficient cause to alter an examination program for one of these. Three of the remaining appeals involved approval for examination substitution. Five previous assessments were reviewed upon presentation of additional documentation or examination results and four were judged academically competent for registration. Seven applicants were recommended for registration after successfully completing their examinations. One had a thesis topic approved as a final requirement for registration.

During the examination period of the past year 31 individuals arranged to sit for 53 papers. Four papers were not written while 29 papers received a passing grade. This represents a success rate of 64% of the examinations written. Those who have completed their program as a result of these examinations will be identified at future Board meetings.

Finally, during the year, the Board reviewed the new CCPE syllabi and advised Canadian Council of desired

revisions. Approval of the syllabi by the Board and by Council followed. Recommendations were made to Council to increase fees paid for setting and marking exams and it was recommended that fees assessed examinees reflect the cost when it favours the examination candidate. The Board gratefully acknowledges the participation of the Registrar, T.W. Algeo, for his valued assistance and insights on difficult assessments and Mrs. J. McKinley for her secretarial duties during Board Meetings and her admirable performance as the surrogate chairman between Board meetings.

I extend my personal thanks and gratitude to those mentioned and to the dedicated members serving on the Board for their assistance and co-operation.

Respectfully submitted
M.P. Musick, P. Eng.
Chairman

Salary Schedule

During 1978 the Salary Schedule Committee Activities were concentrated in three areas:

- 1) A review of the Points Rating System as it applies to teaching engineers was completed. Recommended revisions to the system to better facilitate its use were presented to Council and approved for issue to the membership late this year.
- 2) The format and content of the Salary and Fringe Benefits Questionnaire were finalized and approved by Council. The Questionnaire will be issued to the membership this fall and responses will be analyzed by computer.
- 3) The Annual Report and Recommended Salary Schedule was pro-

duced. The report contains an evaluation of existing economic indices, the results of a salary survey conducted with a number of major engineering employers, and specific recommendations as to necessary adjustments to the 1978 Recommended Salary Schedule to produce the 1979 Schedule.

Respectfully submitted
T.R. Pearson, P.Eng.
Chairman

Safety Committee

Safety Committee activities during the past year have not been involved in any specific problems of safety. The Committee has reviewed concerns in the use of computer programs in engineering and following a submission to Council in July, has been directed to prepare an abstract on the subject for distribution to all APEM members.

Arising out of problems with deep excavations in the City, a committee under the chairmanship of Mr. Henry Penner has been formed to bring in a report on design and construction criteria related to deep excavations. It is the intent to zero in on problems relating to deep excavations and provide criteria that could establish code of practice in this area of construction.

A sub-committee, under the chairmanship of Mr. Tom Strang, is reviewing the concerns involved in responsibility for curtain wall and building facings. This is a jurisdictional and interface problem between engineers, architects and contractors. The Committee has been requested to review these problems and bring forward a report that can be a guide to members of the association and allied professionals and workers.

Respectfully submitted,
T.A. Crosier, P. Eng.
Chairman

Public Relations

This year was a quiet year for the activities of the PR Committee. We held several meetings throughout the year, discussed many subjects but came up with very little visible accomplishments. With the cooperation of our Public Relations Consultant, Mr. Wilf Chislett, we covered the Annual Meeting, had a media interview with the incoming A.P.E.M. president, and held meetings with the E.I.C. in connection with their Engineering Day to be held in November. The A.P.E.M. gained some P.R. exposure with spring New Members' Night and Manitoba Design Institute (M.D.I.) awards. I wish to thank the following members for their work on the PR committee:

S. Donison, Vice Chairman, G.S. Langman, R.R. McKibben, B.D. Norrie, D.A. Pashniuk, D.F. Whalley, R.V. Houghton, D.J. Scott, R.S. Solmundson, W.G. Rooke.

Respectfully submitted,
W.P. Wolfe, P. Eng.,
Chairman.

University Liaison

The objective of this Committee is to further a mutual positive relationship between practising members of the Association and the University of Manitoba, Faculty of Engineering.

The subject of continuing education and competence of our membership has been raised and the Committee has been active in debating the form in which such professional upgrading could be assured. There is a desire to ensure that the profession remains one step ahead of government, and that a self policing policy be instituted before regulation by an outside agency is instituted.

The Association has been deeply concerned by reports of inadequate funding of the Faculty of Engineering. The Committee has held a meeting with the Chairman of the Board of Governors, the President, the Dean of Engineering and the Council of the Association to discuss the matter, and further discussions will undoubtedly take place.

Terms of Reference for APEM members who kindly serve on Faculty and Departmental committees have been drawn up. It is intended that these persons will become full members of the University Liaison Committee and will thus have a forum for communicating activity at the University.

The Committee has enjoyed the active participation of: R.J. Karras, R.M. Fraser, W.A.R. Johnston, G. Grief, W.R. McQuade, W.P. Belet and E.T. Cheong, with R.A. Johnson as Liaison Councillor, E.E. Lach, K.H. Williamson, N. Cassie and O.H. Friesen as Faculty Liaison Representatives and Mrs. Dunklee as the ever helpful Staff Assistant.

Respectfully submitted,
P.A.R. Lowe, P. Eng.,
Chairman.

Legislation

This Committee was used in an Ad Hoc capacity to consider problems referred to it by Council.

One such problem was dealt with in April. Council does not have the same authority to discipline licencees residing in other provinces or foreign countries, as it has with its own members. Several meetings were held to consider this matter and the Committee's recommendations were forwarded to Council for its consideration.

The Committee also considered the

legality and/or advisability of allowing proxy votes at Council or other meetings.

Members of the Committee who participated in these deliberations were J.R. Spronken, G.R. Durnin, E.E. Lach, J.S. Hicks, C.R. Wright, A.D. Myska. F.A. Jost was Liaison Councillor.

Respectfully submitted,
G.E. McLure, P. Eng.,
Chairman.

Awards

The Awards Committee met on three occasions in 1978 to consider possible candidates for the Association's Outstanding Service Award, Merit Award and Life Membership (Honoris Causa) as well as the Canada Northlands Development Award. Recommendations were submitted to Council regarding proposed recipients of the Outstanding Service and Merit Awards. Detailed information about the approved deserving recipients will be announced at the Annual Meeting.

As a result of a recommendation from the Awards Committee, Major J.L. Charles, P.Eng. has amended the terms of reference for the Canada Northlands Development Award to include as a candidate for this award "an engineering student in post-graduate work provided that the student undertakes to complete his Masters or Ph. D. program". We trust this amendment will open the award to many worthy post-graduate students in the future, as well as the undergraduate students.

I wish to thank Monica S. Todd for her excellent help and support to the Awards Committee in 1978, and to thank the members of this Committee, each of whom actively supported this committee's activities in 1978; Stewart

Barkwell, P. Eng., Clyde R. McBain, P. Eng., George A. De Pauw, P. Eng., Doug R. Grimes, P. Eng., and Ted F. Glass, P. Eng.

Respectfully submitted,
C.R. Bouskill, P. Eng.
Chairman

Sports

Your Sports Committee works tirelessly to organize two annual activities to give you, the overworked, underpaid and under-appreciated engineer, an opportunity to get away from the office and enjoy a day in the company of your fellow engineers — to savour a little fresh air while playing the game, and plenty of hot air later while rehashing the game in the lounge.

The 1978 Annual Bonspiel was held on January 10. Thirty-two rinks did battle all morning at the Highlander and Granite Curling Clubs, paused for a luncheon at the Granite, then played afternoon playoff draws at the Granite Club. Top honours went to Gary Swan's rink — Doug Stephen, Ted Parent (What? Last year's Sports Committee Chairman? Could this be a fix?), and Gord Thompson. Many prizes were awarded and all the curlers (and even the many would-be curlers) who turned out for the Bonspiel thoroughly enjoyed the day.

Elmhurst Golf and Country Club was the site of the 1978 Golf Tournament on May 29. A beautiful warm sunny day made to order for a round of golf. Golfers were assigned tee-off times to reduce congestion on the first tee. More than 130 golfers hacked, sliced and/or whiffed their way through the scenic Elmhurst course. Several competitors admitted that only Mrs. Dunklee's Tenth Tee Rest and Refreshment Centre, at which sandwiches, cookies and drinks

(mostly soft or hot) were available, enabled them to find the inspiration and stamina to finish the round, and thus earn visiting privileges in the lounge.

The Tournament was concluded with an excellent meal, following which our esteemed Vice-President, Dick Johnson, awarded the Landon Cup (lowest gross score) to Bob Farish and the Sullivan Cup (lowest net score) to Ed Lipinski. Many other prizes were awarded, including one to John Fulton for having come all the way from Thompson to take in the event.

The Sports Committee currently includes Carl Kummen, Al Bischoff, Arnold Permut, Landis Krause and Vic Becker. Many thanks are due to Bill Mackenzie, now retiring from the Committee, for his efforts in putting together this year's events.

Thanks, too, to those individuals and organizations donating prizes for the Bonspiel and Golf Tournament. It is largely due to prize donations that the Sports Committee is able to run these events as virtually self-supporting ventures. Please contact any Sports Committee member or the A.P.E.M. office if you or your organization would care to donate a prize, since these events are even more enjoyable if prizes can be given for "The Most Honest Golfer", "The Worst Dressed Curler" etc.

Dates to remember in 1979 are:
January 9, 1979 — A.P.E.M. Bonspiel — Granite and Highlander Curling Clubs.
May 28, 1979 — A.P.E.M. Golf Tournament — Elmhurst Golf & Country Club.

Respectfully submitted,
C.P.J. Kummen, P. Eng.
Chairman.

Social

The Social Committee's functions are to organize the Receptions for new members, the Reception-Meeting for members of all Committees and the Spring Council dance. The Committee is best noted for its excellent luncheon meetings. With the proliferation of wines available today, the task of sampling them all to ensure the ultimate in choice for the Spring Ball is becoming lengthy and more difficult. Inventory at year-end consisted of one corkscrew, five hundred place mats and fifteen hundred serviettes. Membership is limited and members are chosen on the basis of their ability to assist Monica Todd and Loreen Dunklee in hanging streamers and blowing up balloons.

Respectfully submitted,
D.A. Farlinger, P. Eng.
Chairman

Annual Meeting

This Committee arranges the Big Event. We make serious decisions about menus, orchestras, venue, budgets, wine, hospitality for guests, schedules. We applaud at the proper places and frown when the business portion spills over into the reception period. While the Committee members labour over such tedious chores as wine-tasting, voting, and eventual selection of Donini, Monica Todd and Loreen Dunklee do the work. George and Mabel Pratt constitute the clean-up crew. Committee members are Peter Stewart-Hay, Jim Linton, Barry Rowley, Dave Sexton, George Pratt, Dave Farlinger, Frank Roberts (Vice-Chairman), Rod McCrae, Bob Foster, Gary Knoll, Bill Sullivan. The members of the Committee enjoy the event and hope you do too.

Respectfully submitted,
Roger Mills, P. Eng.
Chairman.

Membership

The Membership Committee once again organized the annual Fourth Year Engineering Students Dinner held at the Montcalm Motor Hotel last Fall at which there were 135 people in attendance. The evening was highlighted with guest speaker Judge R.E. Trudel who gave a very entertaining talk. Arrangements are now being made for the Student Dinner to be held on November 2, 1978 with guest speaker Mr. Gordon Holland who will be speaking on the Development of Fibre Optics Transmission at the M.T.S.

This year an addendum to the 1977 roster was printed giving the Committee a break from all the work involved in publishing a full membership roster. A complete roster will again be printed in 1979.

My thanks to Committee members Mike Hammond, Tony Eshmade, Gren Yuill, Oliver Foulkes, Einar Solmundson, Frank Chan and Chuck Whalen for their contribution and time, and a special thank you to Monica Todd of the APEM staff.

Respectfully submitted,
B.J. Wopnford, P. Eng.
Chairman

Bulletin

This is edition number six of the "Bulletin 1978". The year's work involved 18 regular Committee meetings plus special meetings and attendance at Council and other Association functions — an impressive work load for those stalwarts listed on the masthead. The list now includes a production manager who has been recently promoted to the masthead after 22 years of probation.

The Bulletin has maintained its place as one of the best read profes-

sional news magazines in the country and has initiated improvements, particularly in the quality of photographs.

A policy of printing all letters to the Editor (particularly complimentary ones) has been adopted, and those writing who show an appropriate literary style and imagination are invited to join the staff.

Submitted Respectfully,
K.M. Jardine, P. Eng.
Editor.

Weighty Deposition Committee

The Committee considers its mandate to be the jurisdictional administration of weighty matter deposited by the membership. Members were selected by random selection of APEM membership and deposits are sampled by stratigraphic segregation in an effort to see if there is a trend being established.

This Committee deals with early morning as well as more depositions. As such, it involves the juxtaposition of the physiological as well as psychological depositions and thus the names of members of the Committee are kept confidential.

The Committee did, however, have 18 highly significant meetings with good attendance of the members and progressed well through long agendas and has accomplished much.

The staff of the Association has been of inestimable help in accomplishing the goals of the Committee by not attending the meetings.

Respectably Submitted

To The Queen God Bless Her

The lawyers don't want her, or at least aren't sure. Rene what's- his-

ROGUES'



Now hear this



Ring around the collar?



\$1.95



Puckering up

GALLERY



N.F.S. private collection



High fashion



Women drivers!



Inflation



The Samplers



name smirked and blew smoke in her face. Pierre was too busy having a holiday (outside the country) to meet her. All 'round there's been a lot of ho-hum and 'What good is she to us sitting Over There?' ... and all that.

Well, we Engineers may be in the minority, but the majority of us are all for 'her. Aren't we! After all, she's one of the last symbols of sanity and good grace in high places and we're all for that. Aren't we? — R.E.S.

Service From Ottawa

Want your own Wide Area Transmission System into Ottawa? Take advantage of Zenith 0-3200. This number connects you to a Business Centre in the Department of Industry Trade and Commerce. Besides arranging meetings with government officials in all departments for business people making trips to the national capitol they will have the person you wish to speak to call you on a government WATS line. In effect they arrange a telephone appointment for you.

This comes in handy if you are trying to complete the number of the Request for Quotations that emanate from the Department of Supply and Services. Obscure points can be cleared up quickly.

The staff of nine expect about 3000 calls a month. Their telex number: 053-0123 and a photo facsimile machine service are available at (613) 593-4059, which may be handy in event of a postal strike in transmitting your quotations.

Another number (613) 955-9197 gives Ombudsmen service in the Paperburden Office. Call collect. This hot line had been established to provide information and quick action on problems in business and it works!

Both telephone numbers have

speeded up information gathering, resolved financial problems and reduced costs in my experience.

E.A.S.

The High Cost of Stopping

Westminster Avenue is one of the many thoroughfares in the city of Winnipeg where there has been a proliferation of 4-way stop intersections. The traffic on Westminster averages about 3,500 vehicles per day.

If we were to apply to this situation the conversion coefficient in gallons per vehicle stop for a composite vehicle approaching at 30 mph on level ground we could calculate the theoretical extra fuel consumption resulting from all that stopping. Research indicates that the coefficient is approximately 0.01 gallons.

A little calculation brings us to the astonishing conclusion that the annual fuel consumed by a 4-way stop in moderate traffic is a whopping 12,500 gallons. The total of such consumption for the entire City is enormous and for the whole country makes the solar energy efforts pale into insignificance.

The justification for such an energy waste is usually one or more of the following:

a) Speed Control. Several engineering studies show that they are, however, ineffective for this purpose outside a very short zone next to the intersection.

b) Safety. The superior safety of 4-way stops is not well established especially if there is truth in the idea that stop sign observance and driver performance at two way stops are deteriorating as a result.

c) Reducing delay on cross streets. This is usually a minor problem in moderate traffic conditions.

d) Diverting traffic by discouraging use of the street.

Adding the justifications together and comparing them to the energy cost would lead one to believe that this method of control would have only limited application.

The city fathers should know also that we, the regular users of Westminster Avenue, must pay for the 50,000 gallons of fuel per year to comply with the stopping regulations and we would like to be assured that the pros and cons have been adequately weighed.
— K.M.J.

Dear Friends

It's almost time again for the arrival of the "Dear Friends" Christmas letters. These letters are the ultimate in euphemisms. The annual production of pure fiction exudes a sort of Alice in Wonderland rosy glow, a world where all is marvellous. Such as:

Dear Friends: We've had another absolutely fantastic year. Bobby was doing very well in Scouts and would likely have been a Queen Scout before long, but he's the studious one and decided he would devote more time to school work. His teacher, Miss Henderson, says she is very attached to him. Sally is prettier than ever and still keen on her music. She was in the music festival again this year and placed first as usual. Ted is the artistic one so naturally he doesn't spend quite as much time with the books. He has begun to notice girls, and the mother of one of his cute little girl friends and I had the nicest chat about our youngsters just the other day. Our oldest, Jimmie, developed some very special talents, and he is away at private school and will graduate in June. Dave's Mom was with us for a couple of months during the year. She is such a priceless old lady, and we were all

sorry when Grandma said she really had to get back to her own place. You know how old people are about their own things. Dave had an opportunity he couldn't turn down so he left Barker and Sons and is now in the grip of a real challenge. Rather than get into the middle-aged doldrums that trap so many females, I decided to do something stimulating and interesting. Would you believe I am now in the field of communications, working on my own without supervision most of the time. We're looking forward to even better things in 1979. Happy New Year to you all.

If the truth were known, here is how it would come out.

Dear Friends: We had another crummy year. Bobby got kicked out of Scouts (you wouldn't believe what for), and flunked grade six again, so Miss Henderson is stuck with him for another year. Sally's biggest achievement all year was when she appeared with the rest of her class in the music festival. Sally can't sing a note so she was in the back row gold-fishing. Ted seems to be in training to become a bum. He has been expelled from school once more. The only time he shows any interest in anything is when he is with some young chick. The mother of a fifteen year old up the street came down to chew my ear off the other day because she had come home unexpectedly and found Ted and her daughter ... well, she was pretty upset. Our oldest, Jimmie, got busted and his parole will be coming up in June. Dave's new secretary was more than he could resist and in the ensuing scandal both she and Dave were fired from Barker and Sons. They took off initially for the U.S. which left us absolutely high and dry financially, so Dave's mother moved in with us to pick up the tab and run the house while I hunted for a job. That old crow is

something else to get along with so I wasn't too sorry to see Dave return, having been jilted by the secretary, because at least it meant that old witch would be out of my hair. Her car was a total wipe-out as a result of Ted's having taken it one night without permission on one of those evenings when he and his friends were experimenting with something or other, and I suppose we'll never hear the end of that. Dave is still hunting around for something to suit his particular talents, and in order to keep the wolf from the door I have a job driving a car for a messenger service. And a Happy New Year to you too. — S.J.A.

Licences Issued

P.M. Butler (Alta.), J.W. Fry (Alta.), W.D. Hall (Sask.), K.G. Koo (Ont.), H.M.K. Lam (Ont.), D.N. Pearson (Alta.), L.G. Pederson (Sask.), P. Sheffield (Ont.), J.H. Thomas (Ont.), A.R. Veevers (Alta.), D.W. Zbaraschuk (Sask.)

New Members

The following have been admitted to membership as Registered Professional Engineers: G.C. Bergson, B.T. Burnard, H.V. Friesen, G.D. Hooper, E.J. Klein, K.D. Anderson, B.G. Bettess, R.N. Brownell, L. Burakovskaya, G.S. Dobby, M. Husain, E. Magiera, M.M. Makwana, F.W. Neilsen, H.E. Pullen, H.S. Somal, E.V. Wilms, N.A.N. Youssef, P.G.S. Trainor, J.G. Alston.

Engineering Graduates Enrolled

R.W. Baxter, W. Brodowski, R.F. Mitchell, P. Sawatzky, D.T. Tranter, J. Jaskiewicz.

Get up, Canada!

There is no reason for unemployment in Canada. Ships waiting in the harbour. Lack of storage capacity. Lack of rail cars. Shrinking elevator capacity. Food and fuel shortages internationally but not here.

Railroads. It is a hundred years plus since the tracks went down. What was adequate then is not so today. A study is needed not to upgrade the system, but to remodel the whole concept in the light of energy, population and food needs; all conditions which did not exist in the days of the original plans. A marked change is needed.

Elevators. Elevator storage is shrinking. Total crop volume is increasing. Population and world demand are increasing. The natural losses which now occur in grain storage (1-10%) can be prevented. The value of this loss runs up to enough to replace the present system. Present elevators are "sitting ducks" to a small five megaton bomb. Irradiation and fallout would cover a much greater distance than the resulting fireblast over a twenty-five mile radius, removing hundreds of elevators completely in 15 seconds.

Waterways. Prairie waterways. A gallon of diesel fuel will move 300-370 ton miles of freight by waterways, 180 ton miles by train, or 50 ton miles by truck. Waterways for transportation purposes should run down the centre of the continent as well as east-west in Canada. Controversial! (Great skating and ice-sailing in the winter). — E.A.S.

Over to You, Santa

Dear Santa Claus, it's almost time
For you to load your sleigh,
To harness up the reindeer
And set them on their way.

Because of all the new restraint
Your budget will be pared,
But we're a most deserving group
Who from cutbacks should be spared.

You'll go by Lynn and Leaf first off,
There's Ian Plummer's nest,
A book on birds, perhaps some seed,
For him would be the best.

In Thompson there are lots of boys
Who behave themselves quite well;
Of course they slip up now and then,
But of that we shall not tell.

If you have an extra pair of wings,
Or a magic rug for flying,
Bill Clement should get them,
His commuting is quite trying.

What with stockpiles here and
stockpiles there
Things are really in a pickle,
So won't you please bring Blake a lot
Of markets for his nickel.

A nice gift for Alex Murchie,
Who makes hotel and airport calls,
Would be a piece of canvas
So he can give up painting walls.

At Carl's please leave a lot of junk,
Old cars all pulled apart;
He'll put them all together,
The results might even start.

George Williams lived in a lot of spots
In countries far away,
Firm Manitoba roots for him
So that with us he will stay.

At The Pas you'll find Al Melnick,
He's been a real good boy;
Bring him decoys, worms, moose calls
and guns,
Fishing and hunting are his joy.

A new hat for Ed Lipinski
That for curling he could don,
A book on how to play the game
For the Brandon leprechaun.

John Godfrey'd like to have a bus
That always runs on time;
Less travelling for Blair and Bryan

Would really suit them fine.

Martin and his boys would like
Some unexpected gold;
You could add to Ken's collection
A gorgeous centrefold.

George Spencer needs a gadget
For cutting cake and pie,
He can never make it come out right
If he uses just his eye.

Roger want a memory
Of events the night before;
And Walter'd like his harem
To be his forevermore.

George and Mabel need uniforms
For their annual clean up fling;
And Rudy, Al and Mike and Ken
All lack a left ear ring.

A wife for Reinhard is a thought,
(One at a time will do),
And Dave and Frank like T.L.C.
Bring them a peck or two.

Leave the Social Committee off your
list,
No gift with them is fine;
(They're nervous that you might just
have
A machine for tasting wine.)

And don't forget the boys who are
No longer with us here
There's Allan, Ron, Ed, Al, Bill, John
In countries far and near.

Bring Don and George and Gary
Wisdom to rule us right;
More engineers in Ottawa
Might help to solve our plight.

If you should have a recipe
To end strikes in mail and planes and
beer

And hospitals and grocery stores
We could surely use it here.

Joe Who down there in Ottawa
Could use a good last name;
And it might be more convenient
If his wife's could be the same.

Pierre should get a teaching post,

Far far away from here
Where his funny economics
Won't land us on our ear.

For Monica who sits and works
With cold drafts at her feet
A furry rug or moccasins
Would really be a treat.

Joan wades about in paper,
She tries hard to keep it straight,
Her assessments all need housing,
A new cabinet would be great.

Another trip to Thompson
Is what you can bring Loreen;
And Terry'd like to spend more time
Up in his flying machine.

A day without agendas
With no meetings would be dandy;
If you should come across one,
Please drop it off for Andy.

That's it for now, Dear Santa,
May you last another year,
In spite of strikes and governments,
Let's hope we're all still here.

S.J.A.

Council Report

The Council met at 3:30 on October 16, 1978 in the APEM offices with a long agenda before them. Council members were all in attendance except for George Spencer who had another commitment.

Following the approval of the agenda, minutes of the last meeting and the financial accounts of the Association, Council touched on special events and meetings. Particular mention was made by Councillor Clement of the recent seminar that was held in Thompson. He described the seminar as the greatest event that has happened with the profession in the north and strongly urged that a repeat performance be held next year. A similar seminar should also be considered for Flin Flon.

President Gilliland reported on various meetings that he has attended with Ministers of the Government relating to problems of professional engineers who become members of labour unions.

Accreditation of the Faculty of Engineering at the University continues to be a major concern of Council and was discussed at some length. On the subject of the University, President Gilliland indicated that he has been appointed to a committee to select a new Dean of Engineering. He was quick to point out that the appointment was not as President of the Association. That the Association is not formally represented on the Selection Committee was of some concern to Council but they decided not to pursue the matter.

A number of licences, transfers, registrations, reinstatements and new graduate registrations were proposed and were approved by Council. It was noted that there has been an increase in the number of licences being issued, a situation which was not accepted by one of the Councillors.

The "Recommended Salary Schedule for July, 1979" was presented to Council by a delegation which joined the meeting at the supper hour. Having feasted on the scrumptious meal provided, the delegation led the Councillors through the various charts and lists of figures that had been assembled by the Salary Review Committees. Having digested the meal and the submission, Council approved the recommendations made.

A new group being formed by the Consulting Engineers in the province petitioned Council for acceptance of their proposed name. While expressing general agreement to the name "Association of Consulting Engineers of Manitoba", Council decided not to

become involved in the new organization's Board of Directors. Instead they will maintain a close liaison with them.

During discussion of Committee reports, mention was made of a new committee that has been established. The committee, headed by Councillor Klassen will review the general committee structure of the Association. This sounds a bit like the government "Task Force".

Council approved the report of the Nominating Committee regarding the Terms of Reference of the Committee. Their various recommendations were accepted subject to minor editing.

Following a discussion on the appropriateness of the Association to submit a brief to the Commission of Inquiry on Educational Leave and Productivity, a motion to submit such a brief was defeated.

President Gilliland advised Council that he would be attending the annual meeting of the Association of Professional Engineers of British Columbia on October 27 and 28. Meanwhile, arrangements are well in hand for the Annual General Meeting of our Association which will be held on November 24. The proposed budget for the meeting was submitted for the information of the Councillors.

A weary Council finally adjourned their deliberations at 9:00 and wandered off into the night. — L.F.S.

Mail Early

Mail early for Christmas

By July 10 if you live in Canada

In Thompson



"Hello, I'm George Williams (right) and I've applied for registration."

"Ho, ho, ho. I'm Peter Baumgartner, and I'm rehearsing for a Santa Claus role."

"I'm Keith Somerville and I brush with fluorides."

Letters

Dear Editor Ken:

You are to be congratulated for indicating the correct pronunciation of "kilometre" in the October 1978 issue of the Bulletin. On the other hand, the official spelling of the word is KILOMETRE in Canada. My authority for this statement is the National Standard CAN3-Z234.1-76, Canadian Metric Practice Guide. On page 9 thereof the seven basic units of the International System of Units (SI) are displayed in Table 1. The unit of length is given as the "metre". Any sub-units or multiples of metre are, therefore, spelled likewise, as centimetre, kilometre, etc.

Yours truly,
Paul Shane, P. Eng.

Editor's note: Once again the Bulletin Committee is consistently wrong in all departments.

New Members — Assorted

The food and conversation were great as new members mingled with each other, with members of Council, Committee Chairmen and staff at a reception on October 19 at the Winnipeg Inn. This reporter had wondered from time to time when youths switched from planning to join a circus to be a lion trainer, or to become a fireman to zoom through the streets on a bright red fire truck with sirens shrieking. Surely engineers had once been normal boys with normal dreams. Not at all.

No one questioned had ever thought of joining a circus, and only one admitted to a fleeting flirtation with the notion of becoming a fireman. What then had they dreamed of when they were 6, 10, 12, 14, what did they plan to do when they grew up? Nothing. They didn't think about it at all. No plans to be policemen, doctors, engineers, or (thank goodness) ski bums on unemployment insurance. Had they, instead, been concentrating on the girl next door? Nope. They seem to have lived in a very pragmatic "this is it" present, with no thought for the future.

But, of course, grow up they did and a decision had to be made. Why engineering? Patrick Mendis, who was born in Ceylon, said he chose engineering because he was interested in mathematics. An interest in maths also influenced Nashed Youssef, who took his first two degrees in Egypt and the third one in Canada. He has been here for five years, likes Winnipeg although he admits the first winter was a hard one. Gordon Maher was influenced toward engineering because he had a good shops teacher in high school (Glenlawn Collegiate.)

Glen Alston had thought he would like to take architecture, but he lived in

Alberta where there was no such course, so he took engineering instead and has no regrets about that decision. Scott Komus also veered initially toward architecture, transferred to engineering after one year and is glad he did.

Rick Bielus did decide on engineering at a much younger age. By the time he was in grade 6 he was very curious as to how his electric toys worked. Now he knows. Gerald Arksey was influenced by four uncles — all engineers. Fred Cross, son of Ivor Cross, P. Eng., says he was "always experimenting" and still is. Walter Kwan had reached his decision in grade 13. He was reading as many magazines as he could find on geotechnical matters.



"Hello, I'm sure happy to be a new member."

E. Araneda, who hails from Chile, was in engineering, took some time off to be an actor and returned to engineering. Gregg Reese decided on engineering when he was in grade 12 because of his interest in science subjects. Cal Moon was a construction worker when he decided he would become an engineer. At 17 he had wanted to be a pilot. Cal lives in Portage, which has produced such notables as Past President Tom Weber, Charlie Ireland, Bill McKay and the Premier.

John Moelich gets a whole lot of brownie points for standing up when a lady approaches, even if he is trying to juggle a drink and a plate of hors d'oeuvres. He says he didn't make the decision to become an engineer. "Everybody else made it for me." He isn't sorry. He is from South Africa. When he became registered and received a copy of the membership roster he scanned it from cover to cover to see how many other South Africans he could find and discovered Charlie Hughes in Brandon and Smiley Hallam in Thompson.

Harry Foerster was probably the only really honest engineer there. He admitted, in the presence of witnesses, that he actually did want to be a fireman when he was five years old. We're glad he didn't follow through. Dick Beyak decided late in his high school years that he would like to be an engineer. A recruiting officer tried to get him to sign up for committee work, but Dick said he was too busy. However he did admit to having time for some outside activities the nature of which he did not define.

Dana Sundmark decided in high school he would like to become an electrical engineer, and no sooner do we get him registered than he is transferring to affluent Alberta where he has a job with the government's

Energy Conservation Branch in Edmonton. Don Wilgosh pondered a career in accounting but by the time he was in grade 12 he had decided it would be engineering. When he was ten or eleven Chris Woo had become fascinated with engineering, which he still finds very exciting.



"I always wear my tiara to new member receptions."

Dennis Deley thought of becoming an auto mechanic, decided money wasn't everything so he became an engineer. We have first dibs on his talents as a mechanic when the cold weather sets in and cars start to sputter. Don Swain was working in computer operator programming when he decided on a career in engineering. He commented on the big change in Bulletin Committee photographer Ben Rogers, from Ben's conservative student days to his present swinging image.

Jim Swendsen, an import from Min-

neapolis, had ambitions as a youngster to be a pilot. However, on getting out of the services in 1945 Jim decided engineering would be it. Henry Pullen is an amateur radio buff and this interest led him into engineering. He is from London (England) and said his first winter here was certainly an experience. Lyle Capstick first thought of architecture and still wasn't sure he had made the right decision when he registered in the Faculty of Engineering. He's sure now. Michael Dudar first wanted to become a doctor, switched to considering bio medical engineering, as a child thought he would become a nuclear scientist, and is now an engineer with Manitoba Hydro.

Larisa Burakovskaya came to us from Russia, upped our female content by 20% and became an engineer because of her interest in mathematics and physics. She has been in Manitoba for three years. Glen Bergson considered joining the navy when he was 17, but after he completed grade 12 he decided engineering was it, and agricultural engineering specifically. Gordon Waruk was working for the B.C. highways department when he decided he would like to be an engineer. He graduated first from Red River Community College then got his degree in engineering. His hobby is coaching hockey. Carl Kummen, who was at the reception in his capacity as Sports Committee Chairman, said he couldn't wire his electric train set so he decided he'd better become an engineer so he could figure it all out, and he could hardly wait for the reception to end so he could get home and play with his trains.

Dave MacMillan wanted to become a lawyer but claims his English marks weren't good enough, and his math marks were good so he enrolled in en-

gineering. That should qualify him for membership on the Bulletin Committee. As should the fact that Dave Woytowich first thought of teaching and then engineering. Allan Castlehow made no decisions before he was 15, and then decided engineering was for him. He came here from England and likes Winnipeg, even in winter. He is with Teshmont.

Herpertap Somal decided at age 17 to become an engineer. He came from Nottingham, has been here for one winter. He found English winters damper and is not too keen about Manitoba mosquitoes. Larry Pond, who was first to the bar after the closing notice was issued, said he was faced with a choice of going out to work or carrying on his education so he chose the latter. Peter Trainer became interested in railway engineering when he was 18, obtained his degree in England, found the climate too cold for his liking there so he moved to Manitoba.

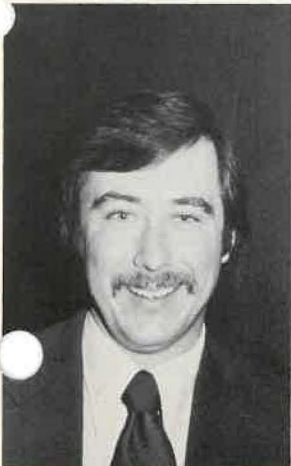
Some new members managed to elude the reporter. All were welcomed by President Andy Gilliland, Vice-President Richard Johnson and Councillor Edd Klassen. George Pratt and Barry Rowley, stalwarts on the Social Committee, kept things running smoothly, Ben Rogers took the pictures. After the sun had sunk and the spirits had risen some of the group went to the Stage Door to check up on the sound effects, Carl went home to play with his train, the President headed for the Theatre Centre and Cal Moon drove back to Portage to check on the size of his family which was due for an imminent increase. — S.J.A.

We regret to record the death of
T.W. Birt, P. Eng.

More New Members



“I’m Don Swain, the meat in the sandwich. If I keep my finger on my nose I drink less.”



Committee Volunteer/Recruit.

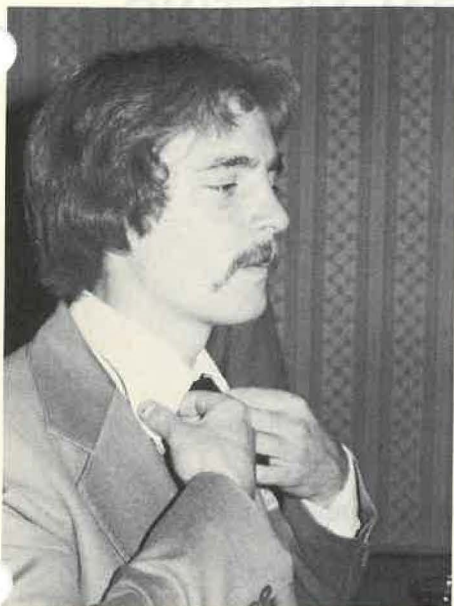


Gordon Warkentin, the ultimate in sartorial splendour.



“Committee work? Who me?”

New Members and



“My fellow new members . . . ”



“Hello, I’m Arnold Kempan. That’s Barry Rowley on my shoulder.”



Cal Moon, from Oakville and Portage.



Me and my shadow.

Coming Events

CURLING BONSPIEL — January 9, 1979

SPRING DANCE — March 10, 1979

Notes

FIFTY-NINTH

ANNUAL GENERAL MEETING

Friday, November 24th, 1978

WINNIPEG INN**PROGRAMME**

- 10:00 a.m. Registration
- 10:30 a.m. Official Opening by President
Announcement of Early Bird Draws
Introduction of Head Table
Minutes of Annual Meeting of November 25, 1977.
Declaration of Councillors Elected
Reports
Auditors' Report and Appointment of Auditors
Draft Budget
Nominating Committee Appointments
Greetings from other Associations
- 11:30 a.m. Reception
- 12:00 Luncheon
Introduction of Head Table
Presentation of Awards
Declaration of Officers Elected
Greetings from CCPE
- The Gavel Ceremony and the Presentation of the President's Certificate will take place at the dinner.*
- 2:00 p.m. Annual Meeting Continues
Address — Hon. Keith Cosens
Minister of Education
Resolutions
Salary Recommendations for 1979
Other Business
- 6:00 p.m. to 1:00 a.m. Reception, Dinner, Dance

Bring this Programme to the Meeting.