

Bulletin

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78

*The
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E.H. Klassen, J.W.J. Lewis, W. Saltzberg, A.G. Spencer

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A.P.E.M.**

WINNIPEG, MANITOBA, FEBRUARY, 1978

President's Message

by A.W. Gilliland, P. Eng.

In this, my first President's Message, it seems appropriate to briefly report on one or two items of Association business of interest to all members as well as to comment on items of a more general nature.

I know that the Bulletin reporter will cover in detail the discussions of Council at both the December and January meetings, but some developments must be mentioned here. For example, the resolution unanimously passed at the Annual Meeting concerning labour relations, and the Manitoba Labour Board in particular, has been presented to the Hon. Norma Price with a full explanation of the concern of professional people of all callings. It can only be reported at this time that the Association delegates were well received — we are not alone in our concern that professionals should be in a position to be impartial and that a professional association must remain in a position to administer the Act by which it is charged with important responsibilities.

Further, we anticipate the advice of

Mr. Terry Wright of Pitblado & Hoskin on legal problems which may develop during 1978. The Association has been well served by Mr. Abe Anhang in the past and we wish Abe all success in his new endeavors.

Not surprisingly, Past President Ted Glass, continues to devote much of his time to Association affairs. As you know, CCPE is engaged in a self examination and assessment study in order to provide a national engineering organization in Ottawa which will reflect the wishes of members of the constituent Associations/Order and effectively represent the profession of Engineering at the Federal level. A major task force report was distributed by CCPE in November, 1977, and under the leadership of Ted Glass a Committee has responded on behalf of APEM. We have stressed the great value of national activities such as the Canadian Accreditation Board, the necessary vehicle provided by CCPE for individual insurance programs, and the organizational necessity of an Executive Committee and Board of Directors responsible to the individual

members across Canada who finance all CCPE endeavors.

Finally, Council has agreed that the subject of Group Practice should be explored further. A committee to represent several other committees of the Association will consider the issues involved to represent all the diverse and often conflicting attitudes existing among our membership.

Kindly consult the write-ups on the past two Council meetings for further highlights of Association business.

Of a more general, but no less important, nature events outside the Association present a challenge to all members. Many Engineers will be affected directly by current efforts to restrain and, at the same time, to redirect our economy. This then is the time to speak out on the engineering capability existing in Manitoba and to re-emphasize the role of Engineers in a manufacturing and industrial economy. We must promote the processing of natural resources, we must demonstrate the efficiency of renewable energy development, we must point out again that investment in manufacturing activity will result in more jobs for the otherwise unemployed, we must encourage to the best of our ability the responsible use and consumption of Canadian made products, and must do our part to ensure the success of our exporting industries.

Let the elected representatives, businessmen and investors in Manitoba know of the involvement of Professional Engineers in those industries and endeavors which represent the heart of the provincial economy. Let them also discover that the engineering expertise available in Manitoba is at a very high level and in certain fields second to none. Professional Engineers can provide the knowledge and technical leadership necessary for a

successful economic venture — this fact will again be recognized.

On a related subject your Executive is most interested to monitor the funding provided to support the Engineering faculty at the University of Manitoba. It may be necessary for the Association to comment on the impact of financial restraint on the Engineering programs being offered on campus to complement the sincere efforts being made by Administration, the Dean's office and all faculty staff.

To conclude this message, a word to the many "newer" members of the Association. An effort has been made to ensure that every standing committee of APEM includes some representation from the membership group who have joined APEM since 1973. In addition, and should there be sufficient interest, I would welcome the opportunity to meet with a special "President's Committee" from members of this group to brainstorm various issues relating to professionalism and engineering. Let the office know if you are interested in this idea.



The gavel is passed to Incoming President Andy Gilliland from Outgoing President Ted Glass at the annual meeting.

A. George Spencer, P. Eng.

At this time, when national unity is on everyone's mind, the addition of a councillor experienced in the workings of the Council of Engineers of Quebec will add a new flavor to council meetings. Recently elected Councillor A. George Spencer spent five years on the Council of our sister association, from 1971 to 1975.

A registered engineer since 1950, George moved to Winnipeg in 1975 when he was appointed President of Teshmont Consultants Inc. That he has risen so quickly to office in A.P.E.M. speaks highly of his determination in forwarding the aims and ideals of the engineering profession.

Born in Innisfail, Alberta, he took his early schooling in Calgary and later, in St. Catharines, Ontario. Then the war years intervened, resulting in a four-year stint in the R.C.A.F., where he was involved in RADAR for 2½ years, followed by 1½ years in Aircrew. At war's end George resumed his education at the University of Toronto, graduating in 1949 with a Bachelor's Degree in Electrical Engineering.

Upon graduation, George began an

interesting career in the Pulp and Paper Industry, with such companies as the Howard Smith Paper Mills in Canada and the Champion Paper Company in the U.S. In 1962, he became involved in the consulting business working for Canadian Bechtel Ltd. in Montreal in various capacities, culminating in his appointment to Engineering Manager. He left Bechtel in 1975 to accept the position with Teshmont.

George was married in 1945 and he and Jean have three daughters. Two of their daughters are married — one living in Toronto — the other in Barbados. The third daughter is attending York University in Toronto. This past year George and Jean joined the ranks of "Proud Grandparents" when a Grandson was born in Barbados.

Continuing an interest in radio, kindled during his years in high school, George is an avid ham-radio operator. Other hobbies which he pursues when his busy schedule allows are photography and sailing.

We wish to extend a hearty welcome to George on his election to Council and hope that this is just the beginning of a long association. — L.F.S.

Bouskill's Swansong

The November 7, 1977 council meeting was the last for outgoing councillors Charlie Bouskill, Allan Moffatt & Gordon Denson. Also present were R.A. Johnson, F. Jost, T. Algeo (S), A. Gilliland, R. Isaak, W. Saltzberg (S), and E.F. Glass as Chairman.

An agenda of twenty items was quickly adopted and the minutes of the previous meeting were considered, but not quite so quickly as Mr. Bouskill had read the minutes and had several corrections and amendments.

There has been a change of personnel at Pitblado, Hoskin, our legal counsel. Mr. Algeo was instructed to make a report to the next council meeting on the implications.

Licences, graduates, transfers and registrations were approved. A report from the Board of Examiners was considered and returned for clarification.

The minutes of the Executive Finance Committee were received and accepted. The budget will be submitted to the membership at the annual

meeting. A fee increase to \$60.00 per year will be sought with a view to bringing reserves more into line with what an Association such as ours should have.

Mr. Jost made the point that the seal we use in Manitoba does not include the word "professional". On this basis a Manitoba government department rejected documents. The matter was set to rights by showing the exact wording of the Act. Although the problem has been resolved the question remains as to whether the seal might use the word professional. Legal opinion will be obtained to learn if the word "professional" can be added. Appropriate action can be taken in 1978.

A resolution is to be presented at the annual meeting proposing that the association ask for reinstatement of the sole right to say who is or is not a registered professional engineer as provided for in the Engineering Profession Act. For the sandwich break, (when most people are dining with kith and kin) Mr. Bouskill offered a parting gift of 1.5 litres of Mouton Cadet from

the cellars of Baron Phillippe de Rothschild, Mr. Moffatt supplied 0.7 litres of Ne Plus Ultra. Their services will be missed. You will not find a finer gentleman than Alan Moffatt or a more dedicated councillor than Charlie Bouskill. A resolution from the Salary committee will be submitted to the annual meeting.

Out of province registration as an umbrella for practising (albeit illegally) in Manitoba was discussed. CCPE is to be asked to initiate reciprocal arrangements whereby non-resident members of any Association be required also to be registered in their province of residence or else be struck from their non-resident membership.

Group practice will be reported on at the annual meeting. It is proposed to establish an APEM-MANSCETT interface committee to establish a smooth working relationship. Our one star selection is Fred Jost for his skill at restating discussion with brevity in the exact words that every one else had intended to use. Clarity with brevity is his trademark. — J.W.J.L.

Cookies, Coffee and Council (or Twas 13 Days Before Christmas)

Council met for its monthly session on December 12/77 promptly at 4:00 P.M. To say the meeting was highlighted by Loreen Dunklee's cookie offering speaks either very highly of Loreen's prowess as a cook or very poorly of the tempo of the evening. Since ambiguity is the spice of editorial policy then I shall leave it at that. Either way the cookies went over big with one Councillor almost losing his fingers picking up crumbs from the plate.

The meeting began on a nostalgic note with business arising from the minutes of the last meeting. It was de-

cidated to retain the services of Pitblado and Hoskin despite the internal changes of the company.

With that aside the Council quickly moved through the accounts, licences, Engineering Graduates and registrations. A special application is to be given further consideration by Council at its October 1978 meeting.

It had been noted that there appears to be some conflict between the Engineering Profession Act and the Canada Evidence Act. This conflict remains in some confused state even with the response of the APEM'S solicitor. Apparently no one really knows

for sure whether we can or can not insert the word Professional between Registered and Engineer on our seal within the bounds of the Act. It will remain this way until the Act is changed in the future.

Council gave \$250.00 to the University of Manitoba Engineering Students Society to help out the Canadian Congress of Engineering Students meeting of 1978.

Council is to set up a meeting with the Minister of Labour regarding the Labour Relations Act, as suggested at the 1977 annual meeting. To be discussed is the position of engineers with respect to membership in a union.

Council made the following committee appointments:

1. Added to nominations committee — J.W. Lewis & E.H. Klassen
2. Added to admissions Review Board — W. Saltzberg & F.A. Jost

Appointed liaison members were:

1. Consulting Engineers Committee — R.C. Isaak
2. Employee Engineers Committee — A.G. Spencer
3. Legislation Committee — F.A. Jost
4. Salary Schedule Committee — E.H. Klassen
5. University Liaison — R.A. Johnson
6. Safety in Engineering Practice Committee — W. Saltzberg
7. Code of Ethics Committee — E.F. Glass

The APEM staff pension plan was amended and accepted to comply with the Manitoba Benefits Act.

A report from the Practice and Ethics Committee was received relating to excavation shoring in the Winnipeg area. The Committee recommended that a broader study be initiated.

Council therefore recommended that the Committee on Safety in Engineering Practice review this situation and report by March 1978 on what should be done.

Group practice is to receive careful consideration by Council and by representatives of the P & E Committee, Employee Engineers Committee, and Consulting Engineers Committee. By the next Council meeting all members of Council are to come prepared to discuss this matter. In conjunction with this, Council is to set up meetings with the senior Engineers and/or Managers of major engineering employers. A second meeting will be set for the Dept. of Highways, WNRE, MTS, Simplot and Hooker Chemical. Initial discussions are to be made with CNR, CPR, Hudson Bay Mining & Smelting Co. Ltd.

The Brandon Area Committee organized a "public information" night. The guest speakers were T.E. Weber, P. Eng. and Dr. R.B. Oetting speaking about the Garrison Diversion. While the attendance was light there was a good deal of discussion from the audience and the quality of comment very good. Council expressed its thanks to the Brandon Committee for a fine program.

This concluded the final meeting of council for the 1977 year. — R.A.K.

Council Gets A New Start In 1978

Council opened up the new year with a new starting time 3:30 P.M. instead of the previous 4:00 P.M. Instead of going until all the subject matter had exhausted the members of enthusiasm to pursue each detail further, they now work with an eye to the clock and are to finish off by 7:30 P.M. unless a motion is passed to go beyond.

Hence it was noted that the items of business went along quickly.

Council cleared up some outstanding business left from the previous meeting. Specifically there was a report on the selection of a solicitor for the APEM, a letter sent to the Attorney General dealing with a proposed change to our seal, a report on a meeting held with the Minister of Labour and a report on the selection of submissions for the Premier's award in design excellence.

The solicitor was selected last meeting (see Cookies, Coffee and Council) however Council requested and got a few points cleared on the specific attorney being appointed. The meeting with Norma Price went very smoothly in marked contrast to those with the previous administration. The final point of the meeting is that the Labour Relations Act is to be reviewed so that professionals will still retain their jurisdiction; to be included in the new government's review will be a written presentation made by the APEM two years ago.

The accounts, licences, Engineering Graduates, transfers and registrations passed with a lot of comment on the wording included on licences. Council decided to refer this to Terry Wright our newly endorsed solicitor to assure themselves we as a professional society may not be implying endorsement to the licensee as an expert on a given project as opposed to simply extending a licence to practise on a given project.

Council made appointments to and ratification of the Practice and Ethics Committee. The P and E Committee now has nine people on it so that it may subdivide into 3 groups with a quorum of 3 in each subdivision. They then ratified three other committees (Bulletin, Social and AGM, Awards).

As we all know Council has for some time held a fascination for getting Group Practice included in our mandate. The issue has been met with a large yawn by the membership as a whole and Council now has initiated a plan to bring this thing out into the open, make everyone aware of the concept, and get a true reading from the membership. A committee was formed with a mandate to do the following things: 1. Define Group Practice. 2. Educate the members on what it means. 3. Find out if it is needed or wanted. 4. Assuming the previous 3 are done, implement it into reality. A report from this Committee is to be made to Council no later than the March 78 meeting.

Council is working up meetings with Senior Engineers and Managers of Engineer Employers to further the cause of APEM membership and participation. A letter has been sent to Brandon and contacts made with Hudson Bay Mining and Smelting (Flin Flon) and Manfor (The Pas) for a meeting early in February.

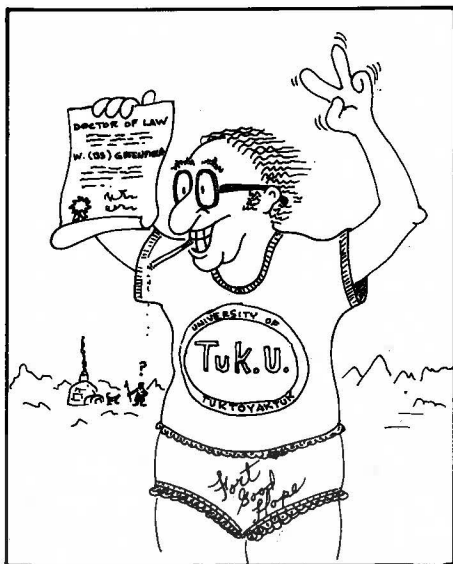
Council is to sponsor receptions for new members in the Association. It is hoped this will give new members a better understanding or and enthusiasm for the APEM.

C.C.P.E. is more than a good life insurance policy and with that in mind a task force has been struck by the national body to make this group stronger and more in tune with the national interests of Canadian Engineers. The proposal of this was presented to council who have filed their comments of what is important. A letter was drafted and is being sent to the C.C.P.E. task force by January 16/78.

This brought to a close the first meeting of 1978 at about 7:45 P.M. and an equal fate to my report. — R.A.K.

Greenfield Receives Honorary Degree

After many years of contract wrangling, debating at annual meetings and general perfidious nit-picking, Bill Greenfield has finally received the honor due him. Recently, Bill was accorded an honorary law degree by the University of Tuktoyaktuk and admitted to the Bar of Fort Good Hope, North-East Territories.



Resplendent in the proper apparel of the Court (pink bloomers emblazoned with the words "Fort Good Hope" and the official T-Shirt of "TUK-U"), Mr. Greenfield cut a dashing figure at the capping (?) ceremony. — L.F.S.

Grimes Denial

Doug Grimes denies that his thick ear, in technicolour, (brought to our attention by his friend and ours, Clyde McBain) was caused by the Cosa Nostra. It was a different racket, rather racquette, wielded by person or persons who prefer to remain anonymous. (call Clyde McBain if you're really curious.)

It's Been Said Before

You must leave your many millions,
And the gay and festive crowd;
Though you roll in royal billions,
There's no pocket in a shroud. — John
Alexander Joyce

No man ever became extremely
wicked all at once. — Juvenal.

The laws of conscience, which we
pretend to be derived from nature,
proceed from custom. — Montaigne

The pride of ancestry increases in the
ratio of distance. — George William
Curtis

It is better to wear out than to rust out.
— Cumberland

How convenient it would be to many
of our great men and great families of
doubtful origin, could they have the
privilege of the heroes of yore, who,
whenever their origin was involved in
obscurity, modestly announced
themselves descended from a god. —
Washington Irving

When the candles are all out women
are fair. — Plutarch

If what shone afar so grand
Turn to nothing in thy hand,
On again! the virtue lies
In the struggle, not the prize. —
Richard Monckton Milnes

The mind is its own place, and in itself
Can make a heaven of hell, a hell of
heaven. — Milton

Our destiny exercises its influence
over us even when, as yet, we have not
learned its nature: it is our future that
lays down the law of our today. —
Nietzsche.

Four be the things I am wiser to know:
Idleness, sorrow, a friend, and a
foe . . .

Four be the things I'd been better
without:
Love, curiosity, freckles and doubt. —
Dorothy Parker



Craig Sommerville at the ball with friends and relative.

Electrical Engineering Thesis Day — 1978

The Department of Electrical Engineering at your University is again planning its Thesis Day — this time for March 28, 1978. All graduating students submit a written thesis about a week before and present their results in a conference format on that date. Three examiners are required for each thesis, the second one being for some years a volunteer Professional Engineer from outside the Electrical Engineering Department. He is expected to read, hear and judge both the written version and the presentation.

All those who participated last year will be contacted individually soon but the Department needs additional volunteers to ensure that the judging of each thesis involves an outside professional and to allow some matching of topics to the external's field of expertise.

Duties involve a few hours for reading the thesis and a few more to judge the presentation on Thesis Day and participate in a free lunch. So why not join your colleagues who evidently enjoyed themselves last year and Volunteer. To do so just telephone 474-9604 and leave your name and field of interest specifying that they are for thesis day.

History

From an editorial in the Bulletin twenty years ago: " 'What is there in it for me?' This is not a fraternal or professional organization which one may join in order to make friends, meet new people, attend smokers and dances, an organization offering pie in the sky in order to lure prospective members into its fold. This is a legal organization, membership in which is a privilege granted to a qualified few, giving a person the legal right to practise professional engineering in the Province of Manitoba AND THIS IS WHAT THERE IS IN IT FOR YOU."

Twenty years ago J.L.S. Ross transferred here from Ontario and C.G. Kirby from Nova Scotia. Carl Fritz, Bob Jeske and George Currie did well in the Association's golf tournament. New members in the Association included Doug Dawson, Cy Burgoyne, Bill Kasperski and George Sagi. Bill McKay, President of the Saskatchewan Association, addressed our Annual Meeting. Members of Council visited Flin Flon.

Migrations

A recent issue of Heavy Construction News carried this item:

"Quebec's Order of Engineers reports that, for the first time in recent years, more member engineers are leaving than entering the province. During the first eight months of this year, 73 engineers left Quebec and 30 arrived; in previous years, the province had an average net gain of 110 engineers a year. QOE says that 92% of the engineers who have left Quebec this year are English-speaking. Considerably more could eventually leave this year because about 80 others have submitted transfer requests."

Nature Notes

We first knew we had a visitor when a pile of dirt appeared beside our patio. The hole was dark and wide going down. The smell of fresh, newly turned earth told us the hole was recently made. It was some time later that we saw our visitor — broad, squat, shimmering dark brown fur and sharp, long claws identified our groundhog visitor. As summer wore on, we assumed it was a male. Solitary of habit, he would sit on one end of a twelve foot bridge tie bordering the patio while our Siamese cat, Sim Sim, would sit on the other, each watchful, but satisfied to maintain his distance and respect each other's privacy.

The cat wouldn't turn her back, but the groundhog couldn't care less.

The woodchuck (*marmota monax*) or groundhog is a heavy bodied burying rodent of the squirrel family, ranging from Alaska across Canada to the Eastern United States. Woodchucks hibernate in a true torpor up to eight months each year. We have seen "ours" in early April basking in the spring sun, just after the snow has cleared off the south facing bank of the river. In the fall he retires under the garage.

The first spring my wife was puzzled to find all our petunia flowers missing each morning. Our groundhog had delectable taste, dainty manners and a sweet tooth. Anticipating a summer without flowers, my wife rented a cat trap from the dog pound for a dollar. The bait was varied, including petunia

flowers borrowed from the neighbours. After twice having the trap sprung with our twenty inch friend getting the door in the middle of his back my wife couldn't stand the cruelty and returned the trap. He must have appreciated the gesture because he stopped eating our petunias.

He has been around now for three years, spending much of his time in neighbouring yards. He eats greens, and other than eating a few leaves off Jerusalem artichokes, he has been no bother. The part that intrigued us though occurred last spring. Actually in May as the weather had been unusually warm and dry, the leaves on the elms had sprung forth early. The brown form hunching its way up the tree, muscular shoulders rippling under its shimmering fur, could only be our groundhog. But whoever heard of a groundhog up a tree! Sure enough, thirty feet up, acting like a koala bear it reached out and grasping a slender branch pulled in the fresh tender leaves for brunch. No sluggard, he paused briefly then moved on to the next leafy "dish". Backing down one branch and up another, this gourmet made his selection. A particular eater, his light meal only served to prune the tree slightly.

On February 2nd, when the groundhog watches for his shadow, and you watch for the groundhog, give a glance overhead — he may be casting a longer shadow than we have thought. — E.A.S.

Dress Code

The Tories were elected to government in Manitoba in October, and we still haven't seen any indication of a revised dress code for the staff of Management Committee: Is it still mandatory to have a beard, wear de-

nims, unmatched socks and sandals? Only two of our members were eligible under the previous administration, but if blue serge suits should be a requirement the numbers of our members who would be eligible would double.

The Annual Happening

Dirk Hortensius, Charles Feuer and Doug Chapman were first to arrive for the morning session, and thirty-seven others arrived shortly thereafter making it possible for President Glass to declare that a quorum was present and the meeting could begin on time. The first item on the agenda was the repairing of the P.A. system by Councillor Fred Jost. Then it was announced that Art Round and Bill Clement had won dinners for two (each) in the early bird draw, and in a more serious vein that those elected to Council were A.W. Gilliland, E.H. Klassen, J.W.J. Lewis and A.G. Spencer. An early survey of those present indicated a very professional-looking group — jackets, ties, some even in suits, and almost everyone awake.

In spite of the general high calibre of dress it was no contest in the best-dressed department. Richard Piotrowski won the category hands down. He was passing out cigars, silver bound, to celebrate the birth of his first son — one of the cigars will never be smoked and sits in a place of honour on the desk of the Executive Secretary, a first for her.

The scrutineers reported there were 17 spoiled ballots, indicating we have 17 members who don't read the instructions which specifically called for the use of numbers.

The reports, the appointment of auditors, the budget and the appointments to the Nominating Committee (Ken Jardine, Walter Wolfe, Blake Maxfield) were quickly dispatched, as was the resolution that the Association approach the Minister of Labour to request appropriate changes to the Labour Relations Act so that the Labour Board does not have the authority to state who is or who is not practising professional engineering.

Ralph McManus brought greetings from C.C.P.E., Emil Sanden from Alberta, John Thon from Ontario and Peter Van Vliet from Saskatchewan.

At luncheon Larry Greer leaped to his feet when the first grey-haired old lady appeared in the diningroom. However, Craig Sommerville was quick to point out that it was just the staff arriving and not the head table so Larry relaxed back into his seat, sound instincts and all. The presentation of awards highlighted the luncheon. W.D. Hurst was made an honorary life member for "meritorious service to the Association." Bob Harland was presented with the Outstanding Service Award. His years of service on various Association Committees totalled thirty. "To all his Association endeavours he has brought his inherent qualities of dedication, diligence, integrity, quiet wit, superior intellect and sound and reasoned judgment." Les Wardrop became the eighth member to receive the Merit Award. As well as his years of service to the A.P.E.M. the citation acknowledged his service to the E.I.C., C.C.P.E., the Canadian Institute on Pollution Control, the Winnipeg Chamber of Commerce, the Industrial Development Board, the Royal Canadian Mint, the Biomass Energy Institute, the Misericordia General Hospital, the Winnipeg Advisory Board of the Salvation Army and the Enterprise Development Board. These distinguished members are a source of inspiration and an example to all members and a credit to the profession.

Mr. Justice Hewak spoke on the role of a Professional Engineer acting as an expert witness and sparred with various members during the question period. The specter of Group Practice, anaesthetized during the morning session, reappeared during the afternoon and after some discussion as to

whether or not it had been or should be or would ever be laid to rest, a vote was taken, it having been made clear that it would be binding on no one, and that even if it were Council would not likely be bound by it. The results of the vote were 70% - 30% - 30%, or 60% - 40% - 40%, or 55% - 55% - 55%, depending on what your vantage point was or where your opinion lay, and if you want a definitive answer as to whether it was in favour or opposed and to what, please direct your inquiry to Blake Maxfield, 223 Westwood Drive, Thompson, Manitoba, the Bulletin's correspondent for Thompson and controversial issues. The members of the Annual Meeting Committee, none of whom admitted to having really understood Calculus, felt that if anyone would be able to decipher the vote it would be Blake.

Members were just warming up to the corporate practice topic, the cries of "What about the abstainers?" had died down, there were murmurs of a recount, when some spoil sport advised the President that if those present did not get their cars out of the Portage and Main area within a few minutes and head for the suburbs to pick up their wives, it would be impossible to be back at Portage and Main for the reception scheduled for 6:00 p.m. — this in spite of the super job done by the city Engineers in clearing away the recent storm. So, in order that the abstainers would only be from voting and not drinking, the meeting was quickly adjourned.

Andy Gilliland was elected President and Richard Johnson was elected Vice-President, which would seem to indicate that nice guys can reach the pinnacle of the profession. Virtue is certainly its own reward and if a person puts in years of work on Committees and Council, is out of time and pocket in astronomical figures, his

friends and colleagues will reward him by voting him into a position where he can put in hours and hours of tedious work, see his family occasionally, eat dry sandwiches instead of prime ribs and get reams of material to fill in any spare time he finds he does have at home.

John Lewis has been kicked summarily off the Bulletin Committee. When interviewed by one of our cub reporters he said, "Mr. Nice Guy is finished. There'll be a complete change of personality." A word of advice to those on Council — Don't smoke, and keep it brief. Edd Klassen brings a broad worldly approach to Council, having not spent his entire life in Winnipeg, and George Spencer will/may introduce bilingualism. During the meeting the CBC were looking for a member of Council who could speak French to do an interview for the French-language station. George Spencer was drafted when he admitted to understanding several words in French and to speaking two. He is not so competent in simple arithmetic, as those at his table discovered when he cut the dessert during dinner, ending up with more people than pieces.

Ray Sochaski was in from Pinawa, Blake Maxfield and Bill Clement represented Thompson, Frank Gira carried the flag for Flin Flon and Ian Plummer left off watching the birds at Leaf Rapids to join us.

Honorary Life Member Ben Striowski attended the business session and the luncheon. Some of the regulars who attended included Al West, Jim Scaife, Lawrie Schmidt, Don Robbins, Gordon Smith, Bill Newton, Lloyd McGinnis, Reg Blackman, Bill Beley, Len Eibner, Les Oakes, Stu Buckler, George Durnin, Ken Adam and relative newcomers Mark De Pauw, Reinhard

Sprenger and Walter Saltzberg. Blair McLenaghan dropped in between planes. Mike Schioler came to the right hotel (and early), Bob Stokes treated his wife to a stunning hair-do and Ray Scouten took notes for the Bulletin Committee which will appear elsewhere, if he hasn't lost them in the parkade where he sometimes loses his car.

The Committee did a super job of arranging all the events. At the registration desk Monica Todd was ably assisted by Jim Linton, Garry Knoll and Ted Hassenrueck. Bill Sullivan kept an eye out for the ladies, Roger Mills and Rod McRae commuted between civic duties and the Annual Meeting with Roger undertaking some very important chores on his incoming trips; Frank Roberts looked after various areas including asking pertinent questions, Peter Stewart-Hay was head table marshal, Barry Rowley was in charge of hotel arrangements and details, assisted with the entertainment of guests and brooded over the fact that he could put the Calculus he had striven so hard to learn to so little use. Dave Farlinger went to Banff on a course so he could learn how to take

charge of the Spring dance, Bob Foster got the flu and George Pratt did everything else. "Everything else" included helping the President of the Professional Engineers Wives Association (Mrs. Pratt) who was "drafted" into cleaning up the odds and ends and empty pop bottles. For two years in a row the Pratts have been lucky enough to win the draw to clean up the debris and lug cartons of valuables back to the office. Only one member of the Association was visible and vertical at 9:30 on Saturday morning — Councillor Bill Clement from Thompson — and he assisted with the chore of moving.

Ted Glass kept himself and everyone else in good humour, as is usual with Ted. Fortunately he will be around for another year to give Council the benefit of his wisdom and his good humour.

The sands of time sift on, the more things change the more history repeats itself, and the comments remain the same, "There's a bunch of old fogies on Council." Hats off to the old fogies and may they deliberate well as they munch the stale sandwiches.



President Glass presents the Merit Award to Les Wardrop at the Annual Meeting.



President Glass congratulates Bob Harland and hands him the Association's Outstanding Service Award.

Highlights and Lowlights at the Annual Meeting



I always stand up when old ladies enter

Reinhard, where's your tie?

I don't believe in hypnosis.

I am watching the birdie!

Goodie! Another President who doesn't smoke.

Hello! We represent the plaid suit with mustache group.

Myself, I don't drink

I still don't believe in hypnosis

I think I'm seeing double.

This being a Councillor is pretty serious.

I am not Bernie Wolfe

Isn't that corporate practice stuff something?

Cheer up, Dick! It isn't that serious.

ZZZZZZZZZZ



Curling Bonspiel

Doug Struthers certainly got his act together a lot better than Frank Fowler. Doug came down with the 'flu, phoned for a substitute skip at 6:03 a.m. and the rink had assembled itself (at the right place) coming from Carman and Steinbach well before the 8 a.m. deadline. And as for Frank Fowler, he recruited a substitute all right, then boarded a plane and headed north forgetting entirely to tell his rink that they were to start at the Highlander and not the Granite. So they were 45 minutes late and had to pay all the penalties accruing thereto. George Pratt and Bob Zimmerman were delighted with this novel turn of events. Even with Frank's assistance they didn't win the booby prize.

In the foliage department Darryl Bukoski, Dean Gould and Carl Wiebe have sprouted their winter fuzz. Jim Scaife won first prize in the skull cap category, with Charlie Bouskill coming first in the "most mixed up costume" class. Charlie had a sweater covered with crests and feet covered with hush puppies.

Ed Lipinski, Merv Robinson and the Brandon Leprechaun combined business with pleasure and inspected the highways from Brandon, Carman and Steinbach on the way to the bonspiel.

Vern Bowerman's team-mates accused him of sleeping during the first two games, and were not available for further comment after that. Hank Penner smoked a strange cigarette after lunch which caused him to hallucinate into thinking he was winning during the afternoon.

On the social side Cy Cartwright and Councillor John Lewis (with an eye on the next election) served coffee during lunch. Over lunch Roger Mills

explained the difference between sex and gender.

Tim Stratton wore a bright yellow shirt with orange stripes and an old-fashioned tea cozy for a hat, which his opposition found very distracting. Fred Nicholson had the weirdest delivery of anyone wearing a red undershirt and white shorts.

Gary Swan was much better at blocking the view of the gallery than he was at curling (and he won the whole bundle).

Eric Weiss provided the piano entertainment in the lounge.

Blair McLenaghan is becoming downright anti-social. When we have our golf tournament at Elmhurst he plays at Pinewood. When we have our annual meeting dinner and dance he sends his wife on ahead with Bill Mackenzie. So it was only natural that when we had our bonspiel at the Granite, winding up at 5:30, that he would start curling there at 6. (with Bill Mackenzie whose four games in our bonspiel were just a warm-up.)

Craig Sommerville and President Gilliland were the best-dressed engineers there, and Sean Kavanagh was the best dressed curler — matching socks and a knitted cap to match his Stanfield shorts. That's class.

In order not to interrupt his chain smoking Dave Sharpe keeps a lighted cigarette behind his ear. When John Lewis gets to be King this sort of thing will be outlawed. Along with those terrible herb cigarettes that were making the rounds.

Larry Greer was there, curling well and being courteous to the ladies as usual. John Lewis won the prize as the worst-dressed. His costume was made of flags discarded by various banana republics. Jim Hobbs wasn't spectacu-

lar at curling so he was drafted by the Bulletin Committee to see if his talents lie in that direction.

Ron Gordon hasn't caught on to the system yet so he was the only member of the Sports Committee to win nothing. Councillor Ed Klassen helped Craig Sommerville, Dick Girling and Al Stephen into the Obscure Prize department.

Bob Corkal who does such a splendid job of running District 6 brought his crew with him, but they are much better at garbage collection and snow removal than curling and helped Bob win the booby prize.

Gary Swan, playing his first game of the season, piloted Doug Stephen, Ted Parent and Gord Thompson to victory and their names will be inscribed on the President's cup. Runners-up in the main event were Skip Al Bischoff (Sports Committee), Carl Kummen (Sports Committee), Gary Winch and John Denoon. Jascha Boge carried Vic Becker, Barry Tinkler and Sandy Gibb through the second event, defeating Frank Arnason, Harry Cochrane, Gerry Langman and Gordon Marshall in the final game. Bob Friesen, with Walker, Hermanson and Solmundson beat Wally Pyl with Davies, Chapman and McNichol in the third event. Mills, Corkal and Pentilchuk helped Skip John Warkentin pile up 6 points in the entire day.

We are indebted to Westeel-Rosco Ltd., W.L. Wardrop & Associates, Reid, Crowther & Partners and Perma Engineered Sales for the prizes they donated.

Bill Mackenzie gets the Nice-Guy award, for which there is no prize.

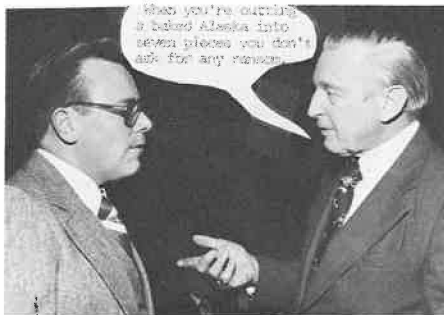
Andy Gilliland presented the President's trophy to Gary Swan. Chairman Carl Kummen handed out the prizes to the members of the Sports

Committee and the few others who were allowed to win. Now it's time to go in training for the June golf tournament. — S.J.A.

Shall We Join the Ladies

The luncheon speaker at the January meeting of the Professional Engineers' Wives Association spoke on a topic dear to the hearts of the members of our Social Committee — "Bottles." The ladies certainly have diverse interests. On February 28th, there will be a dinner at the Faculty Club at the University of Manitoba, at which Dean Wedepohl will speak on "An Engineer Abroad." This is a suitable and enlightening topic for the ladies and can be changed only slightly by the Dean when he addresses the husbands — "An Engineer, A Broad."

On March 21st, the Big and Little Sisters will have dinner at the Hollow Mug of the International Inn. On April 25th at the Fort Garry there will be a luncheon, following which Dr. V. Leathers will give an illustrated talk on Gothic Architecture and the Annual Meeting will take place. If they so desire, we are willing to lend-lease to the ladies for this occasion both Bill Greenfield (to liven things up) and Fred Jost (to keep things in line.)



Blake Maxfield and Councillor George Spencer engaged in serious engineering conversation at the Annual Meeting.

Thompson News

by B.E. Maxfield, P. Eng.

In early October, President Ted Glass, Vice-President Andy Gilliland and Terry Algeo and his wife Peggy continued the program of visiting with A.P.E.M. members in Northern Manitoba communities. On October 5, 1977, they attended a meeting in Thompson, at the Burntwood Hotel, which was well attended. These meetings are excellent opportunities for our local members to learn directly of current Association activity and ask questions with immediate response. It helps foster a sense of involvement with the Association, which in part is reflected in increased Northern membership.

Martha and I were once again able to attend the annual meeting, on November 24 and 25 last year at the

Winnipeg Inn. While not as lively as 1976, I found the meeting interesting, particularly the presentation by Mr. Justice Hewak. Martha and I enjoyed the dinner and dance and extend our thanks to the Association for the opportunity to attend.

The following INCO employees have now been registered in Manitoba: Kenneth A.R. McDonald, Engineer, Electrical, Engineering Department. Kenneth D. Smithies, Mining Engineer, Thompson Mine. Gary M. Jones, Assistant Planning/Layout Engineer, Thompson Mine. A. James Booker, Senior Engineer, Construction, Engineering Department. Jan Marak, Mechanical, Engineering Department.

Let's Be Heard!

Too often it is said that Engineers do not speak out on public issues and make our views known. The Bulletin Committee is going to take the lead and determine if you think, and if so what you think, and we will make this consensus known to all and sundry. We will barge right into a topical controversial subject each issue, or at least until we have exhausted all our thoughts and yours. The current questionnaire will deal with the matter of a new arena. Please complete the form and return it to the office, or frame it and hang it on your wall so everyone can see where you stand.

- | | Yes | No |
|--|--------------------------|--------------------------|
| 1. Does Winnipeg need a new arena? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Should the existing arena be expanded? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Should we live with the status quo? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Who should pay for a new arena or an expanded arena? | <input type="checkbox"/> | |
| (a) Taxpayers | <input type="checkbox"/> | |
| (b) City of Montreal | <input type="checkbox"/> | |
| (c) THEY | <input type="checkbox"/> | |
| (d) The entrepreneurs | <input type="checkbox"/> | |
| (e) A.P.E.M. | <input type="checkbox"/> | |
| 5. Should it be a multi-purpose, environmentally coordinated facility (day care centre; APEM Council meetings; hostel for ex-contract government employees; unemployed political scientists; bleeding hearts; vault for Alberta heritage fund; other.) | | |

E.H. Klassen, P. Eng.

Edd was born and raised in rural Manitoba. He studied civil engineering at the University of Manitoba, graduating in 1958. He continued his formal education and subsequently received his M.Sc., C.E. and a Certificate in Public Administration from the U. of M.

As an engineer in training, Edd spent two years working for the Canadian Pacific Railway. His love for travelling saw him joining C.I.D.A. and spending his most enjoyable year of employment on St. Kitts Island in the Caribbean.

Having acquired a taste for rum, sunshine and relaxation, Edd felt at home joining the Metropolitan Corporation of Greater Winnipeg, Waterworks, Waste and Disposal Division. He served the Division as an Engineer of Systems Planning for eleven years. The advent of Unicity saw Ed's managerial capabilities being utilized as

District 5 Engineer for Winnipeg's Operations Division. Missing his relaxation, Ed returned to the Waterworks, Waste and Disposal Division where he presently holds the title as Manager.

As a member of APEM since 1960, he has been involved with the Curriculum Liaison Committee and the Employee Engineers Committee serving as chairman for one year.

Edd is an active member of A.W.W.A. and the Western Sewer and Water Conference. He served as chairman for the Technical Program of the Conference. He has written three publications.

According to Edd's lovely wife, Melonie, most of Edd's leisure time is spent building his cottage at Falcon Lake, a passion he acquired from Jim MacBride. Edd is noted for his world travels having recently visited Asia and the Far East. — R.P..

How Canada Was Founded

When the Lord created North America He sent people across the Land Bridge from Asia to populate it. The mail service was not working at the time so the people of Europe and the Middle East did not know about the colonization plan and did not arrive for 30,000 years.

Even the Asians got delayed in their trip by glaciers and the other engineers, i.e. beavers. The latter, not belonging to any associations or trade unions, were performing engineering feats without even a mud seal.

So the Lord told the King of the Vikings to ship up. Well, Eric of the House of Red set off and found a land that he thought was Toronto because it was green. But like the green backs of Toronto it was an illusion, it was not

Greenland at all, it was an iceberg. And the Lord said "Go again, Eric.", and Eric said "Lo I cannot, Lord, the transportation costs are too great going westward and anyway, I'm on sabbatical leave this year, but I'll send my son." So Leif found a new land. Well at least it was new to him. The natives didn't think it was so new. An arrow, 3 cold fish and a screech and the Vikings went off back home satisfied that although some of their dearest friends were in the New Found Land — they would not want to live there.

So the Lord said to Queen Isabel "Go forth and find Winnipeg." Now she did not want to go but she knew Senora Columbus wanted to get Chris out of the house for awhile. Izzy told Chris where to go to get to Canada

but Local 671 of the International Brotherhood of Sail Hoisters kept pointing the sails southward where the living was easier. And when Chris hit solid ground with his Pinto, the natives who had meanwhile got around the glaciers and the beavers were there first.

The natives helped him ashore and gave him corn, tobacco, and fresh water. Chris looked around for gifts but his wife had forgot to pack the beads, so he gave them a share of what he had like rum and social diseases.

Anyway, he remembered that if he wanted to get his pension plan indexed like all friends of the Queen, he had better discover something so he got the natives to cut him a stick and tied his gotch to the stick and issued the famous words:

"It's 1492

I, Columbus, sailed the ocean blue
Through fog and gale and waves
and hell

Just to discover this God forsaken
land for Isabel."

And lo this is how the European
tribe got title to America.

Of course Chris didn't discover America but as long as he said his words in a language the natives did not understand they would not know. And that's how we learned to work in two languages. And the Lord reminded Chris that his journey was not finished. He was to go to Winnipeg but Chris said "No." for he did not get any hazard pay or even double time on Sundays and he was not going up there because those people in Canada always fight amongst themselves and anyways it was more than nine months before the first Metis was supposed to be born. So the Lord said "Then take thee home and thy wife will deal with thee justly."

And she did.

Coming Events

The Society of Wood Science and Technology in co-operation with the Western Forest Laboratory is sponsoring a symposium on the Structural Use of Wood in Adverse Environments on May 15-18, 1978, at the Conference Centre, University of British Columbia, Vancouver. For further information write Dr. R.M. Kellogg, Western Forest Products Laboratory, 6620 N.W. Marine Drive, Vancouver, B.C. V6T 1X2.

* * * * *

Canadian Structural Engineering Conference, March 13, 14, 1978, Toronto. For further information write Canadian Steel Industries Construction Council, 201 Consumers Road, Suite 300, Willowdale, Ont. M2J 4G8.

* * * * *

Institute of Transportation Engineers, Canada Section, Annual Conference, Calgary May 31, to June 2, 1978. For further information contact E.C. Orford, P. Eng., P.O. Box 2100, Calgary, Alta.

Licences Issued

R.C. Benham (Alta.), R.T. Crawford (Alta.), A.W.J. Dolhaine (Alta.), A.W. Morgan (Que.), J.G. Pacey (Calif.), H.M. Ragetlie (Ont.), J.B.P. Sawyer (B.C.), W.P. Truch (Alta.), I.M.T. Wragge (B.C.), J.V. Bor (Alta.), J.T. Dokken (Sask.)

Engineering Graduates Enrolled

K.H. Ng, D.C. Ngai, G.D. Stasyneec, W.G. Tipper, S. Soloschiniwsky, R.I.A. Hay, C.D. Torpey.

New Members

The following have been admitted to membership as Registered Professional Engineers: B. France, G.S. Carter, R.L. Hemeon, C.L. Marton, R.J.C. Reid, R.A. Stobbs, H. Veerman, R.C.T. Wong, P.T.T. Chung, J.S. Fraser, K.A. Iskander, C.T. Jones, S.T. Kanji, T.J. Mitchell, L.G. Middleton, D.J.A. Murdoch, A. Okun, J.K.F. Poon, G.M. Shapiro, A.A. Takla, V.Q. Tang, R.J. Thomson, F.P. Yungwirth, J.B. Froese.

Southward Bound

Along with the swallows and the robins, four Engineers are heading south — far, far, south. Off to Buenos Aires are Birdie King Ed Welter, K. Marriott, J. Saldat and A.J. Haverty. Ed Welter has been appointed Foreign Correspondent for Argentina (and all points between there and here) and we look forward to his first assignment.

We regret to record the deaths of the following members: D.A. Fraser, R.G. Causgrove, S.R. Kersey and L.M. Hovey who had been given the Association's Merit Award.

The Ritual of the Calling of an Engineer Camp #8

The Wardens of Camp #8 conducted an iron ring ceremony on December 14, 1977. In attendance were twenty candidates and fifteen members of the Camp.

The next ceremony is scheduled for 8:00 P.M., Thursday, March 9, 1978 at the Masonic Temple, Osborne Street and Corydon Avenue. The Wardens would request that all Obligated Engineers, regardless of their Camp, attend the ceremony. For those graduat-

ing engineers and other candidates receiving their iron rings, the ceremony is a profound experience. A large attendance of Obligated Engineers will make the ceremony more meaningful for the candidates.

If there are qualified engineers who have not taken the obligation and wish to make application, they are requested to contact Mr. N.P. Feschuk, P. Eng., Secretary-Treasurer, Camp #8, 6th Floor, Administration Building, Civic Centre, 510 Main Street, Winnipeg, Manitoba, R3B 1B9, Telephone: 946-0281.

CBC Versus RCMP Quiz (Without Prejudice)

Out of the continuing trial of the RCMP (accused) by the CBC (prosecuting judge) with attorneys René Levesque and Francis Fox, comes the disturbing feeling that something is out of control.

So that a completely objective appraisal of the situation can be made, it is wise to first analyze the situation by determining who and/or what is guilty.

1. Is it the accused?
2. Is it the prosecuting judge?
3. Is it the attorneys?
4. Is it incestuous relationships between:
 - (a) the CBC and the P.Q.?
 - (b) Quebec and the federal cabinet?
 - (c) Parrot and the postal system?
 - (d) Barn burners and the KGB?

Our congratulations to James K. Stibbard who enters the select group of persons getting 100% on the Professional Practice examination required of all who wish to become registered as Professional Engineers or enrolled as Engineering Graduates.

It's Our Turn Now

The re-election of two members of this Association to the Manitoba Legislature has prompted us to write them the following open letter.

Hon. D.W. Craik, P. Eng. and G.C. Minaker, P. Eng.

Dear Sirs:

Santa Claus and the Tooth Fairy having not fulfilled all our requests, we respectfully direct the following to you:

1. For 8 years all important government announcements were made from a union hall. We would appreciate it if in future all such announcements could be made from the A.P.E.M. office.
2. In order to maintain the traditions of having assorted individuals on boards unrelated to their backgrounds, engineers will volunteer for service on any and all of your boards relating to chicken breeding, company profits, national unity, bilingualism, the A.I.B., family law, pickling, spelling, dress designing, structural aspects of corset manufacture.
3. In keeping with the tenor of the times have you given any thought to having a Golden Girl, no higher, no lower, but on an equal footing with the Golden Boy?
4. In an effort to re-establish the system of keeping a fatherly eye on our young and as a long overdue step away from the permissive society, we trust that the recently reported activities of homosexual mallards are to be confined to our marshes and not permitted at the zoo, which is frequented by children.
5. There was moderate applause (and one lone voice raised in protest) when our Executive Secretary announced that due to your abandoning of succession duties she now felt she could die contentedly in Manitoba.

Brandon Area Report by E. Tymofichuk, P. Eng.

Last November 28 the Brandon Area Engineers sponsored an open meeting featuring two most qualified speakers who discussed the technical and environmental features of the Garrison Diversion. T.E. Weber and Dr. R. Oetting from the Provincial Government enlightened the audience with background and balanced presentations of the controversial project.

Terry Algeo represented the Association and brought greetings and Association news in his usual customary and good-will style.

The Brandon Committee is finalizing plans for an evening meeting early in February featuring an energy-related topic.

Lynn Lake - Leaf Rapids by I.M. Plummer, P. Eng.

Despite the upheavals in other sectors of the Mining Industry, everything is "go" in Lynn Lake and Leaf Rapids. Of course costs and expenditures have to be monitored more closely, but at least we are not cutting back.

As usual, we enjoyed the visit of some of the Executive to Leaf Rapids in the Fall, and Ian and Ann-Margaret Plummer enjoyed their trip to Winnipeg to attend the Annual Meeting.

There has been little change among the P. Engs., except that Dave Libby has returned from the wilds of Toronto to take up the position of Manager of the Ruttan Mine.

Professional Engineers Required

General Manager

The Canadian Council of Professional Engineers seeks a Registered Professional Engineer to fill the office of General Manager. Duties will include the management of the Ottawa office, directing communications with constituent professional associations, liaison with national agencies and the Federal Government, preparation of reports for and to the President and representing the Canadian Council at times and places designated by the President. Candidates must have had successful management experience and be fully bilingual. Knowledge of association operations a desirable asset. Salary and fringe benefits are open and will depend on the experience and capabilities of the applicant.

Director of Membership Services

1. Must be a Professional Engineer.
2. Must have four or more years experience in the practice or teaching of his profession.
3. Must have good communication skills, particularly with respect to preparing reports and briefs.

4. A working knowledge of the French language would be an asset.
5. Must be a self-starter, who can work under a minimum of direction in studies and surveys and in serving as the Council's representative in connection with government liaison, meetings with other associations, etc. . .
6. Must be a responsible person, mature in behavior, and with good skills in working with fellow professionals and others, many of whom hold influential positions in economic and professional affairs.
7. While age is not a criterion, candidates must have a good energy level and be in good health.

Send detailed resume to:

"The President
401-115 Albert St.
Ottawa, Ontario
K1P 5G3

CONFIDENTIAL"



Bill Mackenzie with Bob's wife and Bob Morrison with Bryan Norrie's wife at the ball.

Coming Events

Date	Time	Subject
Sponsor(s)	Location	
Tuesday, March 14 CSCE	12 Noon Wildewood Club 761 North Drive	"Steel Rolling in Canada" R.E. Garden, Electrical Dept. Head, Acres Consulting Services
Wednesday, March 15 CGS	12 Noon Wildewood Club 761 North Drive	"Insulated Shallow Foundations" J. Hamilton, Div. of Building Research, N.R.C.
Wednesday, March 15 CSME	8:00 p.m. Ramada Inn 1824 Pembina Hwy.	"Three Short Papers by Fourth Year Mechanical Engineering" Students of the U. of M.
Wednesday, April 5 CGS	8:00 p.m. Underwood McLellan and Associates Ltd. 1479 Buffalo Place	"Forum on Piled Foundations"
Wednesday, April 19 CSME	8:00 p.m. Wildewood Club 761 North Drive	"The Russian Bulb-Type Turbine Generators at Jenpeg" W. McGilvery, Manitoba Hydro Ladies Night
April CGS	U. of Man. Time and Exact Location to be Announced	"Insitu Measurements Using a Self-Boring Penetrometer" Dr. Francois Baguelin Laboratoire Central des Ponts et Chaussees, Paris
Wednesday, May 17 CSME	Wildewood Club 761 North Drive	"The K-Cycle Engine, An Update" W.D. Alexander, U. of M. and H. Kristiansen, Kristiansen Cycle Engines Ltd.
<p>For Information Contact:</p> <p>EIC: M. Pelletier, P. Eng. 474-3905</p> <p>CSCE: R. Carson, P. Eng. 775-0171</p> <p>CGS: J. Graham, P. Eng. 474-9816</p> <p>CSME: G. Sims, P. Eng. 474-9279</p> <p>CSEE: P. Shane, P. Eng. 474-3495</p> <p>IEEE: J. Lewis, P. Eng. 943-8991</p> <p>Program Co-ordinator: L.T. Moffat, P. Eng. 474-3379</p>		



**Spring Dance
Mardi Gras
March 11, 1978**

