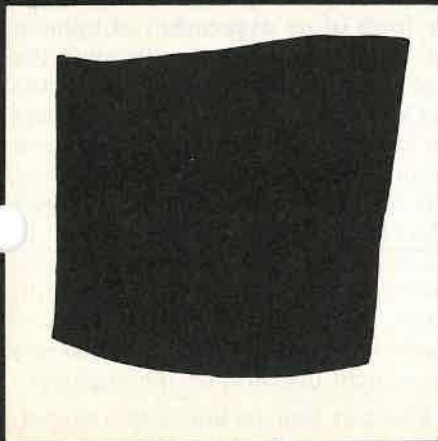
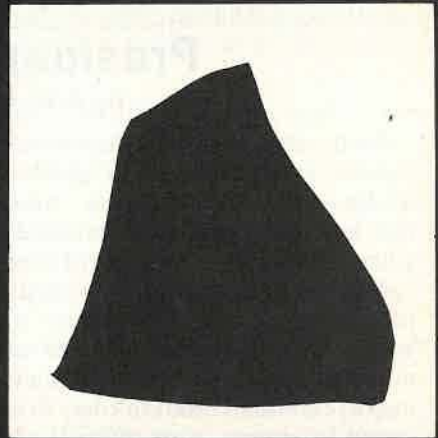


# Bulletin

August

78

*The  
Manitoba  
Professional  
Engineer*



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President — A.W. Gilliland, P. Eng.

Vice-President — R.A. Johnson, P. Eng.

Managing Director and Registrar — T.W. Algeo, P. Eng.  
Council — W.P. Clement, E.F. Glass, R.C. Isaak, F.A. Jost,  
E.H. Klassen, J.W.J. Lewis, W. Saltzberg, A.G. Spencer

The Manitoba Professional Engineer is published under the direction of  
the Bulletin Committee.

Editor — K.M. Jardine, P. Eng.

Associate Editor — R.A. Kane, P. Eng.

Committee Members — E.A. Speers, C.H. Templeton, O.C.  
T.G. Miller, A.G. Stephen

R.E. Scouten, L.F. Schmidt, R.F. Piotrowski, S.J. Armstrong, O.A. Rogers, R.S. Bevis

Correspondents — F. S. Gira, Flin Flon; I.M. Plummer, Lynn Lake-  
Leaf Rapids; B.E. Maxfield, Thompson; E.A. Welter, Buenos Aires

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

WINNIPEG, MANITOBA, AUGUST 1978

## President's Message

by A.W. Gilliland, P. Eng.

Engineering has been described as a wealth and employment producing profession in Canada. This "producing" capability of the Professional Engineer results from the application of special training and is, perhaps as never before, the foundation upon which Canadian economic development depends. Actions resulting from major recommendations by Professional Engineers often affect the lives and circumstances of many citizens and the economy of entire regions.

It is because of this potential contribution to the provincial economy that the Association has been concerned enough to support the position of the Faculty of Engineering at the University of Manitoba, and at the same time is the justification for satisfying the needs of that Faculty.

At the same time the possible impact of engineering recommendations should be understood by all Professional Engineers, and the relationship between engineering and other inputs into the decision making process on major projects should be kept quite clear and distinct.

For example, on major development projects (particularly those concerned with natural resources) final decisions will not be made solely on the basis of engineering recommendations and on engineering point of view. Quite commonly environmental concerns, commercial and other interests will be part of the decision-making process. Engineering advice will be an important input but will be considered along with many other factors in establishing development strategy. Further, in the engineering field itself, advice will take the form of an expression of opinion and recommendation based upon the assessment of many technical inputs and variables. Not all technical inputs are hard facts — many will be statistical projections of past records, some will be factual, some will be a best effort by the Professional Engineer to predict future trends from personal knowledge of many economic indicators. A technical recommendation resulting from this process represents a judgment decision by the engineer.

The fact that technical recommendations are judgment decisions not

always based upon hard facts is not completely understood by the lay public.

For this reason Professional Engineers must strive to ensure that the interested public is aware that development decisions are made after assessment of technical and other inputs, and that engineering recommendations are themselves a result of many variable considerations. The concept of engineering judgment must be emphasized.

Further, Professional Engineers must avoid a situation where an engineer is held responsible for the decision of a client or employer when the engineer has only been responsible for one component of advice considered by that party. In particular, Professional Engineers must be alert to a situation where a colleague is in a position to be made a scapegoat for the decisions of those who do not have the same level of public responsibility, and must ensure that the facts are made quite clear to the public at large should that condition arise.

The production of wealth and employment by Professional Engineers must not be held back by a concern that the use of engineering recommendations will be misinterpreted by the same people to whom those recommendations offer such a positive potential benefit.

As in previous years Council will not meet during August, but I know that members of Council, will join me in wishing you all an enjoyable summer season.

We regret to record the death  
of J. D. Diachun, P. Eng.

The boss may be wrong nine times out of ten, but ten times out of ten he is the boss.

## Council Meeting

By J.P. Tchir, P. Eng.

On June 12, 1978 a meeting of Council was held in the Association premises.

As usual John Lewis found the most advantageous chair at the table in order to put as much distance between himself and the occupied ashtrays. During the course of the meeting Walter Saltzberg had to leave the proceedings on more than one occasion. Mr. "S" claimed that the reasons for his departures were important long distance phone calls, denying suggestions from hecklers that it was his bookie or a mistress.

With the items of accounts, licences, engineering graduates, transfers, appeals, registrations and reinstatements aside, Ted Glass gave notice of motion that the term and the appointment of the Manitoba Director to C.C.P.E. is to be considered at the July Council meeting. It was also moved by Mr. Glass and seconded by Mr. Saltzberg that the Manitoba Director should extend a formal invitation to C.C.P.E. to hold its 1981 Council meeting in Winnipeg. Motion carried.

Council also carried unanimously its motion to endorse the C.C.P.E. resolution that "The Board of Directors request each Association to consider the adoption of a policy whereby complaints against a member or members which originate outside their provincial boundaries shall be accepted on the same basis as if the complaint had originated with the provincial jurisdiction ... that the policy adopted be communicated in writing to C.C.P.E. and to each constituent Association."

Council approved financial assistance in the amount of \$500.00 to the Energy Efficient Vehicle Team and

contribution in the amount of \$183.68 to Camp #8.

A proposal to hold a one day Professional Liability Symposium, possibly in Thompson in the Fall of this year, received general approval by Council members.

It was carried by all present that the appreciation of Council be expressed to Mr. Jack Karras for his contribution as a member and chairman of the University Liaison Committee.

John Lewis announced that there will be an E.I.C. Technical Conference on Thursday, November 23, 1978 preceding the A.P.E.M. Annual Meeting. The theme of the conference will be "Engineering, Keystone of the Keystone Province."

This classic "Yawner" finally adjourned at 8:00 p.m. Besides cigarette butts, this reporter's ashtray was filled with broken toothpicks from trying to keep his eyes open. I also suffered severe whiplash due to frequent bobbing of my head while trying to stay awake. Because of my injury I am currently convalescing at home and have had to miss 2 weeks from work. As of yet I have not received any monies from the A.P.E.M. "Reporter's Compensation Board" because I wasn't wearing a hard hat when the injury occurred. Appeal of this case is pending.

## Council Report

By R.A. Kane, P. Eng.

Council opened with a bare quorum at 3:30 p.m. July 17/78. As the sky blackened and tornadoes ripped apart various buildings around certain portions of the city the business of the APEM went unimpeded for the next 5 hours.

Although all members did not have the June 12 minutes on hand, Council adopted them anyway and dwelt on a

few points of business arising from the the minutes. The Government Liaison Committee has temporarily been thwarted by the inability to get the necessary people together because of holidays. It doesn't look like much can happen until mid-September, so it sits on the shelf until then. A Manscett letter of June 8/78 was answered in a discussion at an APEM-Manscett Interface Committee meeting where it was explained that the APEM did not contribute directly in the wording of the City of Winnipeg "Manual of Consulting Engineering Services and Procedures" and so no further action is warranted nor forthcoming.

Accounts, Licences, Engineering Graduates, Transfers and Registrations passed with the only notable point being a decision to have Council review its position on non-resident licences.

Ted Glass moved to have the C.C.P.E. Director's term be a minimum of three years to a maximum of five. After considerable discussion the motion was defeated with even Ted trying to vote against his own motion but felt he couldn't do such a thing. Instead he will review this with the previous four APEM Directors to bring forward a suitable recommendation to the next meeting. For the time being C.C.P.E. is to be informed that A.W. Gilliland shall be our C.C.P.E. Director with R.A. Johnson attending as an observer.

The terms of reference for APEM members to sit on University of Manitoba Faculty of Engineering Committees or Councils were ratified after the wording of the text was duly amended.

Next came a report of the Regional Meeting of Western States and Provinces held June 23 and 24 in Calgary. As with all meetings of this nature all agreed it is significantly important for

everyone to co-ordinate their programs and minimize discrepancies of policy. (They agreed to meet regularly). Andy Gilliland got Council's blessing to arrange a similar meeting for the Western Provincial groups to be held in Winnipeg in late October.

The Nominating Committee report was received for information. Drafts of revised terms for Nominating Committees as submitted by Ted Glass and Terry Algeo along with John Lewis' submission are to be deferred until the next meeting of Council in September.

Currently Alberta and Saskatchewan have joint use of seals agreements with the architects. Mr. Gilliland has asked for a report on this practice from the consulting Engineers Committee.

Council chose not to contribute to the University of Manitoba Engineering Students' Handbook, as we have never done so in the past.

The University of Manitoba is setting up a committee to select a new

Dean of Engineering. Two members of APEM were nominated by Council with one of them to be selected by the Dean Selection Committee as the APEM representative.

The Iron Ring Camp asked for more money and got it.

The Safety in Engineering Practice Committee is to prepare an abstract based upon the A.P.E.O. report about the use of computer programs in Engineering practice. For this we will ask A.P.E.O. to allow us to publish excerpts from their booklet "Guidelines to Standards of Practice for the Use of Computer Programs in Engineering."

The meeting concluded with Council endorsing the commendation of Carson H. Templeton upon his appointment as an Officer of the Order of Canada.

The meeting ended at about 8:15 p.m. Oddly by then the sky had cleared and one marvels how God moves in such mysterious ways.



"It was this big!"



"That's nothing, Charlie. Mine was at least..."

## Buenos Aires Report

By E.A.F. Welter, P. Eng.

Six months have passed since the Havertys, Marriotts, Saldats and Welters left Winnipeg in late November. The time of the year here in B.A. is now similar to late November in Canada. It's only twenty-one days to the beginning of our winter here. This morning it was a cool 39 degrees F., and the humidity was 90%; high eh? Many people here wear overcoats and huge shawls. I believe it is the difference in humidity because we all feel quite comfortable with a sweater under our suit jacket.

Mundial fever has hit all of Argentina. The football games for championship of the world start June 1st. The majority of firms and government offices are closing at 12:00 noon, because they figure that the employees would probably take all day off and it would be better to get in half a day's work than none at all.

The Argentine government says it has spent some \$300,000,000.00 to upgrade existing stadiums and build new ones. The one here in B.A. is big and beautiful. I'm sure that many of you in Winnipeg will watch the games from B.A., Rosario, Cordoba, Mendoza and Mar del Plata. There was no colour t.v. in Argentina until now and that is also where a few dollars were spent.

Some of us are considering joining San Andres Golf Club here. It is a pretty course in the heart of San Martin suburb. Landscaping is beautiful, with many evergreen varieties of trees. One birdie has been recorded already by the Birdie King (Bill Mackenzie, please note.) San Andres is a tough par 71, especially for some who end up with an 8 on a par 3 hole. We are planning to have an A.P.E.M. Buenos

Aires tournament one of these days and we'll let you know the results.

Roses, geraniums, hibiscus and birds of paradise are still blooming here! The cedar hedge needs trimming. The cacti look like they'll live. With less sun than in summer the grass is not growing much these days. Life goes on. Hasta luego!

Editor's Note: All this Spanish is not doing much for the Latin. If we are going to have 'cacti', how about stadia, gerania and hibisci? (We'll have to check with Andy Baracos about those hibisci because they're Greek to us.) And Ed, will you knock it off about all this profusion of flora when it's November here. Auf wiedersehen.

## On Smoking and Other Unrelated Things

By R.A. Kane, P. Eng.

Dear John:

For some unexplained reason there is a preoccupation with smokers and it is time for this poor downtrodden minority to rise up a little and put their two cents worth in. As a group this portion of our society has been accused of every evil deed known to man, from fouling the air to overtaxing the health facilities provided in a state proud of the heritage medicare can provide. With all the statistical evidence pouring in against them, soon it will be deemed that this minority be banished to a spot on Ellesmere Island to carry on their habit. (They will probably have to pay their own fare too).

This is totally unfair and it is time that some people recognize that a distinction be made between the smoker and people with bad manners. It is true that the non-smoker should not be confined with a smoking person in places

like elevators, but for the person who in a restaurant chooses to cap a meal with a coffee and a cigarette it is all right, since the eating establishment typically has very good ventilation to cover this, if it does not, it should not be frequented, particularly by sensitive noses.

Smokers contribute heavily in taxes. Cigarettes are greatly burdened by the state's insatiable demand for more money. Non-smokers benefit handsomely by this money. Spin-off industry created by smoking ranges anywhere from breath mints to exotic pottery ash trays employing, equally, smokers and non-smokers.

Arguments such as health hazards are as substantive as trying to argue that tooth decay is caused by sugar, and since dental bills are so high we should ban the consumption of sugar.

Were one to consider seriously all the stupid causes being raised daily one would find it difficult to do anything. Since most accidents happen in the home maybe we should ban houses.

The basis or the statistical evidence being brought down by the non-smokers is somewhat suspect when you hear of a particular case that happened to my wife. She was included in a test group of smoking women to see what, if any, effect it had on pregnancy, and baby development. It took over a year of regular visits to the lab. When she went in for the final go-around she asked what the "researchers" were finding. The reply was that the "researchers" were disappointed to find that it made no difference. What I then fear is that if a scientific study is being funded to find out something it should never be on the premise that a certain result has to be found. Much of the results of the statistical evidence being thrown up

probably based on similar studies, which by definition are useless.

Smoke in your breathing system obviously must be irritating and probably causes the body to react to the irritant (even to this point I must agree). Where the whole thing breaks down is to accuse cigarettes of causing heart attacks, cancer and all sorts of other physical problems. No one has shown that by smoking alone can the physical problem be induced, hence it won't stop a heart attack, but can't start one either.

So, non-smokers, I suggest that it is known that sugar caused tooth decay. By swapping your cigarette for a pound of mints you may only be jumping from the smoke to the dentist's office.

Further to all you smokers, do it and don't let the snide comments and rude remarks of the other side deter you from your most heavily - taxed enjoyment.



**3rd place finisher — Lee Trevino Look Alike Contest**

## Narcissism

The Bulletin has recently carried reports on the activities of several of our Committees and now it is time for introspection. There are eighteen meetings of the Bulletin Committee a year, three per issue. On the agenda are such items as syntax, variety, balance, synonyms, subjunctive case, past participles, gerunds, headline writing and libel.

The agenda hasn't changed in twenty years, mainly because the Committee members are so busy trying to con one of their number into attending the Council meetings or they are completely absorbed in Roger Kane's pre-natal course, that they haven't yet found time for an in depth study of whether or not 'sobriquet' is a satisfactory synonym for 'nickname'. They will first, of course (if they ever do get to the agenda) learn the difference between a synonym and a past participle.

Naturally all the good things we have said about other Committees apply to us.

## On Being Over Thirty

Tribune columnist Gene Telpner, who quotes from this publication from time to time, has advised that Jack Bennett, President of the Kiwanis Club of Winnipeg, has written an article in a recent issue of The Builder, the Kiwanis Bulletin, in which he takes Winnipeg radio stations to task for catering only to those under thirty. We applaud Mr. Bennett's crusade, particularly where it applies to CBW which has no sponsors to worry about. Along with Mr. Bennett, we lament the loss of Gren Marsh before dinner, and his replacement with raucous music and inane, vacuous conversation.

Those of us who are over thirty won't have to bide our time much

longer. Our day is dawning, so statistics would indicate all the way down the line to the birth rate. Soon we will be a very large majority, and the kids who have been buying motorcycles, rock records and blue jeans will be so busy working to pay taxes to keep up the standard of living and services they have come to expect, and to pay for our Canada Pension Plan payments, that they won't have either the time or the money to shop. The old age pensioners will come into their own, and markets will have to be directed toward them.

Programs will be sponsored by geriatric pill producers, support hose manufacturers, makers of canes, and layaway plans for cemetery plots, and CBW, if it is still in existence, will be playing Amazing Grace once more. And instead of being a voice crying in the wilderness, Mr. Bennett will be part of a huge Greek chorus. We can hardly wait.

## Notice

To Members of the Association of Professional Engineers Province of Manitoba.

The Government of Manitoba has established the Manitoba Hydro Systems Inquiry under Order-in-Council No. 1328. The Honourable G.E. Tritschler has been appointed a Commissioner under Part V of The Manitoba Evidence Act to make an inquiry into whether Manitoba Hydro has carried out the intent, purpose and object of The Manitoba Hydro Act in all aspects of the development of the Nelson-Churchill Rivers Systems for the generation of hydro-electric power and in all projects associated therewith. The Commissioner has also been charged with the responsibility to make findings and recommendations which he deems advisable in respect of the policies, plans, procedures, operations and activities of Manitoba

Hydro, or the government, or both, relating to the present and future development of the Nelson-Churchill Rivers System for the generation of hydro-electric power and transmission of that power and any projects associated therewith.

In this regard, we, and the engineering consultants to the Inquiry, will be required to review many reports, documents, and other correspondence relating to the studies undertaken by Professional Engineers. Article 6.5 of the Code of Ethics of the Association of Professional Engineers of the Province of Manitoba states as follows:

"He shall not accept any commission to review work of a fellow engineer except with the knowledge of, and after communication with, such fellow engineer, where such communication is possible."

In accordance with Article 6.5, and pursuant to the recommendation of the Practice and Ethics Committee of the Association of Professional Engineers of the Province of Manitoba, we, the undersigned, and the engineering consultants to the Inquiry, will undertake to advise all Professional Engineers whose work will knowingly be subject to review during the conduct of the Inquiry.

L.P. Haberman, P. Eng.,  
Co-Director, Technical Services  
G.H. MacKay, P. Eng.,  
Co-Director, Technical Services.

## Where is Everybody?

You could count on the fingers of one hand the number of APEM members on the Faculty of Engineering who attended the 1978 Convocation, and the fingers of two hands the number of APEM members who attended the Iron Ring Ceremony this year. Is this an indication of boredom, irresponsibility, lack of interest or some other malaise.



Golf Winner Bob Farish

## Quiz

The Answers and Questions Quiz has been resurrected. Here are the answers. The challenge is to work out the questions. Please turn to page 15 for the correct questions to these answers.

1. Coffee Prices
2. Strikes
3. Bilingualism
4. New arena
5. Diet of Worms 1521
6. Taxes
7. A Price
8. Rudy Isaac
9. People who watch House of Commons Question Period on television
10. Mediocracy

## The Election

Our prediction is that the election will be held on Monday, October 23, 1978.

We are offering the following election slogans:

Liberal — Divided We Stand  
P.C. — Who Needs Policy and/or A Fence for Every Picket  
N. D. P. — A Penny Saved Is a Penny Wasted  
Socred — A Closet for Every Homosexual

## Who Can Decipher the Female Mind?

Militant women's organizations, feminist movements and the introduction of the chairperson and draftsman have been with us for over a decade and hardly a ripple has appeared in the engineering stream. We now have 5 female engineers. 2% of our total membership. The U.S. with 1% beats us five times over, but even there the percentage is small and engineering remains a haven for the Sons of Martha. It's not that the girls are too stupid, because U.S. figures reveal that in law and medicine the percentage of females is about 20%. Female doctors, lawyers, chartered accountants, are not rare in Manitoba. Why then do the ladies shun engineering?

Samuel C. Florman, writing in Harper's, has come up with a disturbing answer. Incredible as it may seem, the girls think they are too good for us. Engineering, so says Mr. Florman, appeals to bright boys of lower and lower-middle class origins. "The upper classes do not esteem a career in engineering." The article says that Herbert Hoover, who was a mining engineer before he became U.S. President told the story on himself that toward the end of an Atlantic crossing he advised an English lady he had met on board that he was an engineer and she replied in astonishment, "Why I thought you were a gentleman!"

We checked out the situation with other professional associations and discovered that while our Association has large numbers (2,500 Engineers, 1,200 lawyers, 1,150 chartered accountants and over 1,500 doctors) we have the smallest number of female members. There are over a hundred female lawyers and 188 female doctors registered in Manitoba.

What is very peculiar about this

situation is that with good high school marks a girl can get into the Faculty of Engineering. This is far from the case with law, medicine, chartered accountancy. Why, then, are we not attracting more females? Can it possibly be that Harper's magazine is right in its assumption that they think they are too good for us? "They will not become engineers because it is beneath them to do so." Can this be why the feminists are not battering at our doors? "For until upper-class aversion to engineering is overcome, or until lower-class women get out of the kitchen and into the university, engineering will remain a male profession."

It is all very humiliating. Females are willing to get a degree of Bachelor of Science, Honours Microbiology with very high marks, to get into medicine, or to get a Bachelor of Commerce degree, again with very high marks, to qualify for law or chartered accountancy, they have raised great howls to be allowed into beer parlours, they have paraded and gone to jail to get the vote, they have begged to be allowed into theology, and yet they will not pass through a door that has always been open to them.

Is it possible that all the while they are looking down their noses at us? That they would consider it demeaning to become one of us? Of course we are extremely grateful to the five who have deigned to join our ranks. And it may be cold comfort, but for what it is worth there is one profession in Manitoba scorned by females even more than ours. Women are understandably disdainful of architecture, and when we did our survey not one female resident of Manitoba was registered with the M.A.A. We'd better have nothing more to do with that bunch.

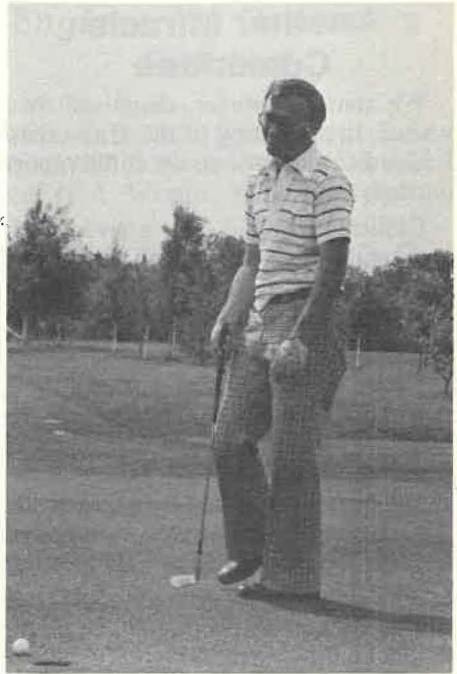
## Ritual of the Calling of an Engineer Camp #8

The Wardens of Camp #8 have set 8:00 p.m., Wednesday, November 8, 1978, Masonic Temple, Corydon and Osborne as the time and location for the fall iron ring ceremony.

Tentatively, the spring ceremony has been set for 8:00 p.m., Wednesday, March 14, 1978. Graduate engineers who have not attended the ceremony and wish to are requested to contact the Secretary-Treasurer of the Camp.

Because operating costs of Camp #8 have risen considerably in the last few years, the Wardens have increased the ring replacement fee to \$6.00. The proceeds from replacement ring sales are used to finance the two iron ring ceremonies held each year. Annual expenses include publicity, room rental, stationery supplies, mailing costs, and the cost of providing a certificate and iron ring to each candidate compliments of the Camp. It has been the practice in the past for the A.P.E.M. and the University of Manitoba Engineers Alumni Association to contribute towards the coffee time held after each ceremony.

The total annual expenditure for 1978 exceeded the revenue received from ring sales by approximately five hundred dollars. It is expected that the increase in the replacement ring fee will reduce, although not eliminate, the deficit. The Camp has decided to ask for voluntary contributions from Camp members to help defray the deficit. Camp members who wish to make voluntary contribution are requested to send their donations made payable to the Ritual of the Calling of an Engineer, Camp # 8, to N.P. Feschuk, Secretary-Treasurer, 6th Floor, Civic Center, 510 Main Street, Winnipeg, Manitoba R3B 1B9. Telephone: 946-0281.



1,000 words.

## A New Record

L.S. Douglas, a member of this Association residing in New Zealand, mailed his 1977 dues from that country on April 28, 1977. The envelope, properly addressed, reached our office July 14, 1978, a mere fourteen and a half months later. An unsigned form letter "Our file 26-DELAY/262" from the Customer Service Department of the Winnipeg Post Office with the salutation "Dear \_\_\_\_\_" advised that "during the dismantling of an obsolete conveyor system in the Winnipeg Post Office, the enclosed item of mail was recovered from an area that was not accessible to or visible in our daily routine inspections." One wonders how many employees have been hiding out for fourteen months in the same obscure uninspected spot. P.S. Mr. Douglas received another invoice from us and shipped his fees off one more time.

## Another Miracle Committee

We sent a reporter, disguised as a waiter, to a meeting of the University Liaison Committee so we could report on their activities.

Chairman Paul Lowe arrived with an agenda of items, one of which was Continuing Competence, and those two words sum up the actions of this Committee.

Retiring Chairman Jack Karras was thanked for his outstanding service in that role and Bill Beley's resignation from the Committee was accepted because he will be on a research-study leave for a year and he too was thanked for his contribution to the work of the Committee.

The letter from Council about attendance at Committee meetings was briefly discussed. This has not been a problem with the University Liaison Committee, which has a quorum at all its meetings. The Committee did not recommend any disciplinary action — when no one plays hookey there's no need for either a truant officer or expulsion.

Proposed terms of reference for A.P.E.M. members on University of Manitoba Engineering Faculty and Departmental Committees were discussed, and Mr. Lowe will report to Council on this matter.

A professional reading program was considered, followed by a discussion of the financial situation in the Faculty of Engineering.

And then we came to Continuing Competence and/or Professional Development. Committee members seemed to understand the difference. There are many areas of growth. One could pursue technical courses or one could study Management or History, or Sociology or Basket Weaving —

something to enhance the whole person. A position paper will be prepared on this subject.

All this was accomplished in less than two hours. Everyone who attended made a worthwhile contribution. And just to prove that they were not operating on too lofty a plane, when the meeting was adjourned Committee members carried the dirty dishes and leftover cookies out to the kitchen before proceeding to their cars to figure out how to get around or through or across the corner of Portage and Main. The crew who made it all possible under Captain Paul Lowe were Jack Karras, Murray Fraser, Bill Johnston, Gordon Grief, Eric Cheong, Ray McQuade. Richard Johnson is Liaison Councillor and he looked wise which comes easy for our erudite Vice-President.

## New Members

The following have been admitted to membership as Registered Professional Engineers: V. Kukoraitis, C.W. Moon, W.W. Kwan, A.D. Cormie, D.A. Deley, J.P. Earl, G.J. Fallis, Z. Ibrahim, S.R. Komus, P.A. Kruselnicki, A.M. Lohse, W.H. Lui, D.B. MacMillan, K.W. Major, W. Marusenko, A.M. Mian, R. Pesalj, D.M. Petriw, G.R. Reese, R.K.T. Sheng, S. Singh, D.L. Sundmark, D.A. Swain, R.H.K. Sztramko, C.D. Torpey, D.G. Wilgosh, S.P. Yun, A. Pele, B.A. Pask, F.J. Cross, J.T. Moelich, R.J. Patterson, C.S. Phan, C.L. Lloyd, B.W. Russell, G.F. Arsenkey, B. Azarbar, S.R. Dowhey, M.P. Dudar, B.A. Fedoruk, C.H. Fong, B.D. Jeffery, D.E. Kingerski, D.P. Krahn, G.A. Maher, A.J. Pollard, R.R.L. Renz, R.A. Ronald, J. Schnabl, T.C. Strickland, D.L. Woytowich, A.B. Castlehow, L.G. Sigurdson.

## In Retrospect — Twenty Years Ago

In the April 1958 Bulletin, columnist Ken Hallson reported that over 300 persons had attended the 29th Annual Dinner and Dance at the Royal Alexandra Hotel. President and Mrs. L.A. Bateman led the grand march. "High spirits continued throughout the evening as dancing went on to the music of Irwin Plumm and his orchestra. Attendance at this affair has been such that arrangements for future will have to be altered somewhat in order that all those wishing to attend can be accommodated."

L.M. Nadeau was appointed general secretary of the 32,000 member Canadian Council of Professional Engineers.

"Always a Bridesmaid, But ... Anyone who is looking for an usher or a best man for a wedding would do well to consult with an expert, Evan MacKenzie. Evan's record is almost unequalled: Usher — 6 times; Best Man — twice; Groom — 0." (in the intervening years Evan acquired a wife and a son.)

New members included M. Corkal, E.P. Debusschere, E. Dolhun, V.L. Dutton, C.R. McBain, R.A. Jeske, L.E. Hurwitz, L.R. McGinnis.

## Licences Issued

F.B. Claridge (Alta.), J.T.H. Hanley (Minn.), D.J. Hannigan (Ont.), M. Kondra (B.C.), J.B. Kirch (Ont.), I.H. Sorensen (B.C.), W.E. Stone (Ont.), M.C. Swales (Que.), R.L. Walker (Ont.), B. Whelan (Ont.), J.S. Csabai (Que.), G.H. Scruton (Que.), J.L. Tersigni (Ont.), G.F. Bourassa (Sask.), W.M.G. Chan (Nfld.), D.G. Colley (Alta.), J.P. Dueck (Alta.), R.W. Kennedy (Alta.), W.H. King (Alta.), G.P. Rodgers (U.K.).

## Engineering Graduates Enrolled

M.J.L. Baron, G.N. Grunau, J.R. Wells, D.S. Ball, D.J. Brown, D.M. Mitchell, D.T. O'Connor, B.J.H. Sze, H.A. Wright, W.A. Nicholson.

## Carson Templeton, O.C.

The recent announcement of the appointment of Carson Howard Templeton as an Officer of the Order of Canada made by the Governor General of Canada will certainly meet with widespread approbation among members of this Association who have been following Mr. Templeton's many and varied endeavours and achievements for more than twenty years. We heartily commend Carson, we congratulate those who made the selection on the propriety and astuteness of their choice and we thank those who made the information available for consideration.

As has happened with our Merit Award which was conferred on Carson Templeton in 1975, he will bring more honour and prestige to his new honour than the honour has brought to him. — S.J.A.



When the birdie watches the birdie

## Sex Priorities

Oh where oh where have he and she gone?

Oh where oh where can they be?  
Soon after the New Democrats came into power  
They outlawed our identity.

The Workmen's Compensation Board became the Workers' Compensation Board, waiters and waitresses were lumped together as serving personnel, and we had to give up our fairy godmother and being a freshman at college, or a yeoman of the guard. Sex may have run rampant on the movie screen, and Love Shops sprang up, but sex was taboo in the want ad columns. We yearned for the day when a milkman was a milkman and a mistress was ... well. It was all like trying to adjust to metric.

Then the Tories were elected and we heaved a sigh of relief, anticipating that, in Robert Burns fashion, we could soon once again say "A Man's a Man for A' That."

But, alas, almost a year later, sex has still not reared its head in the Tory caucus, which includes two Engineers. We hope they will soon be finished counting hospital sheets and get down to basics.

## Out of the Mouths of Wives

The wife of one of our members was crossing a picket line to buy her groceries when one of the picketers asked her if she knew "there's a bunch of scabs working in there."

"A scab," replied the lady, "is something that forms to protect a wound until it heals, and without it we would be in real trouble."

## No Longer Members

The following have resigned their memberships effective June 30, 1978, in compliance with bylaw 33: R. Jonusaitis, C.E. Atkins, D.M. Stewart, T.J. Partridge, K. Longfield, B. Espedido, M.S. Muller.

The following were removed from membership on July 1st, in accordance with the provisions of by-law 32 (2): L. Ditschun, D.D. Schulte, A.A. Ali, R.J. Byers, H.M. Chorney, N.C. Croome, D.G. Curiston, W.B. Hawcroft, A.F. Heather, P.R. Irvine, D. Jagger, D.E. Jones, E.G. Martin, I.A. Nattress, J.R.G. Prentice, D.R. Rentz, H.E. Schettler, I. Silverman, F.M. Talbot, H.L. Tsang, D.G. Shiels.

## Aging Bill Isberg

He was having breakfast at the Winnipeg Inn; a distinguished looking gentleman, greying hair at the temples, reading the Globe and Mail with the benefit of dark-rimmed glasses. Somehow, in spite of his concentration on the Globe and Mail, he didn't look like a typical Torontonionian. He turned toward this reporter, removed the glasses — it was Bill Isberg, former stalwart member of several of our Committees. Gone are the days when he sported a moustache to try to look older, old enough to be a Registered Professional Engineer and the father of four small boys. Gone too is the moustache. One of the small boys is married, and the youngest is almost out of his teens. Jean and Bill are living in Toronto now, having gone there from Winnipeg via Vancouver. It was Bill who first introduced us to S.J. Armstrong, who was almost Bill's alter ego. Bill has the same warm infectious laugh. And best of all, he paid for the breakfasts.

## Gold Award Consultants

Due to a computer error (or reasonable facsimile) the list of United Way award winners submitted to us, and published in the last issue, was incomplete. The perennial award winning firm of Templeton Engineering Company should have been included among the Gold Award Winners and the firm of W.L. Wardrop & Associates Ltd. should have been included among the Bronze Award Winners.

## Growth Patterns

At year end, October 31, 1977, our membership stood at 2,477, and three quarters of a fiscal year later, at July 31st, 1978, membership was 2,500, a net increase of 23. Membership increases for that same period in the previous five years were 62, 135, 104, 82 and 24 (1972-73). We have to go back six years to find a net increase that is smaller than the one we have just experienced, and in fact that year it was a net decrease of 14.

Below are figures giving the population of Manitoba and the number of members in this Association:

	Manitoba	APEM
1938	700,139	222
1948	729,744	385
1958	771,815	977
1968	963,066	1,653
1978	1,034,700	2,500

If, as has been forecast, Manitoba's future growth is 1% per year, what will be the effect on our membership? And if 222 Engineers could look after 700,000 Manitobans in 1938, there must have been a lot of people wandering out back in the middle of the night and reading Eaton's catalogue by lamplight.



**Inventory-taking at the Golf tournament:**  
9½ bottles, 10¼ glasses, 1 pipe, 1 engineer.

## Questions

Here are the correct questions for the answers on page 9.

1. What does Colombia raise in the morning besides the flag?
2. What do baseball, matches and collective bargaining have in common?
3. How does white man speak with forked tongue?
4. What did the early Christians wish they had lived long enough to see?
5. What was the name of the 16th century diet guaranteed to bring about immediate loss of weight?
6. What is the definition of lotteries?
7. What do the Department of Labour and a member of the oldest profession have in common?
8. How is Rudy Isaak's name most often misspelled?
9. Who has seen the wind?
10. If government by the people is democracy and rule by bureaucrats is bureaucracy, what kind of a country is run by television and newspapers?

## Cub Reporter Templeton

Elsewhere in this issue there is a report on the appointment by the Governor General of Carson Templeton as an Officer of the Order of Canada, a unique honour in the history of the Association.

While the bulletin Committee is inordinately proud to have one of its cub reporters raised to the position of Officer of the Order of Canada, it nevertheless feels that advancement on the staff of a literary magazine of the quality of ours should be solely on the basis of scholarly and literary merits, and no immediate promotion of Carson Templeton, O.C. from his current position of cub reporter is currently contemplated.

We are not, however, above taking a ride on these illustrious coattails, and we have therefore added the initials "O.C." after Carson's name on our masthead, in order to point out to the rest of the publishing world the stature of our cub reporters. — A.J.S.

## Prohibitions

Council has asked that Section 28 of the Engineering Profession Act be regularly brought to the attention of members.

28. Save as in this Act otherwise provided, no person shall
- (a) engage in the practice of professional engineering; or
  - (b) assume verbally or otherwise the title "Professional Engineer", or any abbreviation thereof, or any name, title, designation, or descriptive term, that may lead any other person to believe that he is a Professional Engineer or entitled to engage in the practice of professional engineering; or
  - (c) act in such a manner as to lead to

the belief that he is authorized to fulfill the office of, or to act as, a professional engineer, or

- (d) advertise, list, display, or use, at any time or in any manner, or permit to be used, at any time or in any manner in connection with his name, any name, title, designation, or descriptive term, implying, or calculated to lead any other person to infer, that he is registered under this Act or entitled to engage in the practice of professional engineering unless he is registered under the Act and is a member of the association or is the holder of a subsisting licence granted under this Act.

## Employment of Engineers

Section 19 of the Engineering Profession Act reads as follows:

Employment of engineers.

19 Except as herein otherwise provided, no person shall knowingly employ as a Professional Engineer, or for any work that requires the service of a Professional Engineer, any person who is not either a member of the association or the holder of a licence issued under this Act.

## Annual Fees

Section 16 of the Engineering Profession Act reads as follows:

Annual fees.

16 Each person who is registered or licensed to practise under this Act shall pay in advance to the secretary, or any person deputed by the council to receive it, such annual fee as may be determined by the by-laws of the association; and the fee is a debt due by the member to the association, and is recoverable in any court of competent jurisdiction.

## Modern and Ancient Technology

We are indebted to Mac Collison, formerly Flin Flon correspondent for many years and latterly a resident of Hogtown, for some information on a very popular current topic, Solar Energy. Mr. Collison has sent us some data from *The Mechanical Engineers' Pocket-book*, by William Kent, M.E. Sc. D., Consulting Engineer, published in 1916. Here is the information as it appears in the "Pocket-book".

### RULES FOR CONDUCTING ENGINE TESTS.

#### UTILIZING THE SUN'S HEAT AS A SOURCE OF POWER.

John Erlasson, 1868-1875, experimented on "solar engines." In which reflecting surfaces concentrated on the sun's rays at a central point causing them to boil water. A large motor of this type was built at Pasadena, Cal. in 1898. The rays were concentrated upon a water heater through which ether or sulphur dioxide was pumped in pipes and utilized in a vapor engine. The apparatus was commercially unsuccessful on account of variable weather conditions. *Eng. News*, May 13, 1909 describes the solar heat systems of F. Slammon and of H. E. Willsie and John Boyle Jr.

In the Shuman invention a tract of land is rolled level, forming a shallow trough. This is lined with asphaltum pitch and covered with about 3 ins. of water. Over the water about 1/16 in. of paraffine is flowed, leaving between this and a glass cover about 6 ins. of dead air space. It is estimated that a power plant of this type to cover a heat-absorption area of 160,000 sq. ft. or nearly four acres, would develop about 1,000 H.P. Provision is made for storing hot water in excess of the requirements of a low-pressure turbine during the day, to be utilized for run-

ning the turbine during the period when there is no absorption of heat. The heated water is run from the heat absorber to the storage tank, thence to the turbine, through a condenser and back to the heat absorber. The water enters the thermally insulated storage tank, or the turbine, at about 202°F. With a vacuum of 28 ins. in the condenser, the boiling-point of the water is reduced to 102°, and as it enters the turbine nearly 10% explodes into steam. Mr. Shuman estimates that a 1,000-H.P. plant built upon his plan would cost about \$10,000.

The Willsie and Boyle plant also utilizes the indirect system of absorbing solar heat and storing the hot water in tanks. This hot water circulates in a boiler containing some volatile liquid and the vapor generated is used to operate the engine, is condensed, and returned to the boiler to be used again. Mr. Willsie compares the cost per H.P. hour in a 400-H.P. steam-electric and solar-electric power plant, and finds that the steam plant would have to obtain its coal for \$0.66 a ton to compete with the sun power plant in districts favorable to the latter.

Two things astonish us. One that since 1875 man has figured out how to travel in outer space (while still being baffled by labour disputes on this planet) without making great strides in the solar energy field. The other that Torontonians have already progressed up to 1916.

## Moving?

Please let us have your change of address

**E.I.C.**  
**Manitoba Engineering**  
**Day**  
**Winnipeg Inn**  
**November 23, 1978**

**THEME: ENGINEERING:  
 INDUSTRIES' KEY TO THE  
 KEYSTONE PROVINCE**

Engineering has made Manitoba an attractive province in which to work and play. It has developed our resources and contributed to industrial expansion, but both must continue. On Manitoba's Engineering Day well known businessmen will speak of past engineering accomplishments, engineering activities today, and probe into how engineering and industry can continue working together to "unlock" the KEYSTONE Province. The Hon. Don W. Craik, P. Eng., Manitoba's Minister of Finance, will be the luncheon guest speaker. Further announcements will be made in later APEM Bulletins but plan now to attend.

### **English Anyone?**

A great change seems to come over members of the Bulletin Committee who are elevated to Council, and John Lewis appears to be no exception. He is passing strange items down the pike to the "underlings" on the Bulletin Committee, such as drawing our attention to a Communication and Report Writing Workshop being sponsored by the IEEE in the Fall.

The 16-hour workshop will be held on consecutive Thursday evenings commencing on September 14th, from 5:30 to 10:00 p.m. Featured will be Sharpening Writing Style, Organizing the Writing Task, Writing Technical

and Business Correspondence, Taking and Writing Minutes of Meetings, Writing Short Information Reports and Writing Investigation and Evaluation Reports.

Naturally us underlings on the Bulletin Committee don't need none of that stuff, but if any of youse guys out there is interested you should contact Bill Buhr at 474-3338 (office) or 334-3546 (home).

### **Use of seal**

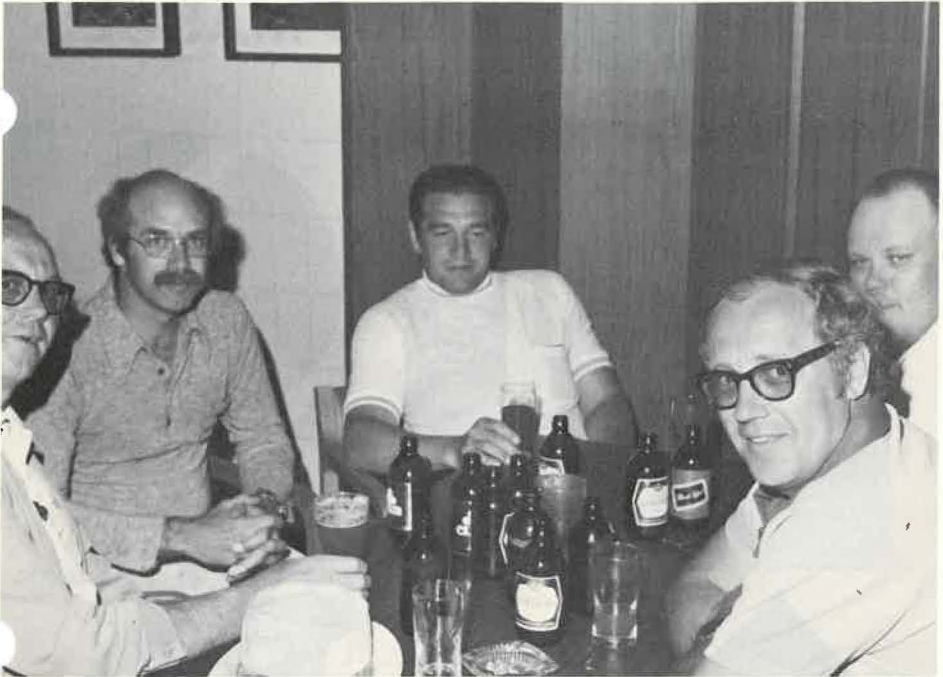
Section 18 of The Engineering Profession Act reads as follows:

Every person registered under this Act shall have a seal, the impression of which shall contain the name of the engineer and the words "Registered Engineer, Province of Manitoba," with which all estimates, specifications, reports, working drawings, plans and other documents issued from his hand shall be sealed.

### **Use Your Seal!**

The Practice and Ethics Committee has recommended that members should be reminded that the Act requires each Professional Engineer to seal estimates, specifications, reports, working drawings, plans and other documents issuing from his/her hand, and further that the Code of Ethics requires that the member use his seal on work that his training, ability and experience render him professionally competent to undertake. A member may seal drawings in a discipline that does not correspond with his/her degree, provided that he/she does not contravene the Code of Ethics regarding competence in this regard.

## Golf Quartet and Quintette



# THE MASSES

Vice-President Richard Johnson addresses the Masses at the Golf Dinner

