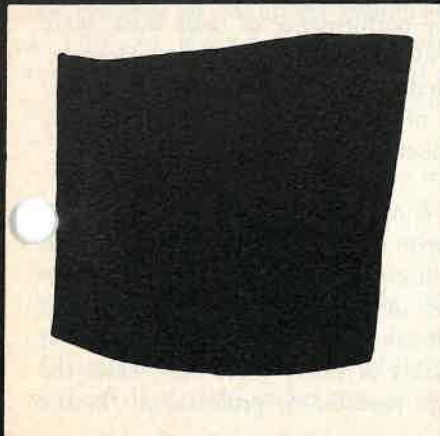
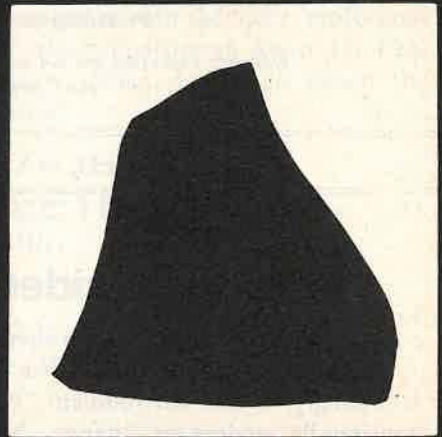


August

Bulletin

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*The
Manitoba
Professional
Engineer*



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WINNIPEG, MANITOBA, AUGUST 1980

President's Message

By Walter Saltzberg, P. Eng.

The English language, not unlike our technology, lives, environment, etc., continually undergoes change. New words are coined, and the meaning of words changes. One word which plays a very dominant part in the lives of engineers is the word 'professional.' We use it as an identification of our occupation, we use it as an identification of our Association. When the Engineering Profession Act was first enacted by the Legislative Assembly of Manitoba some sixty years ago, there was no question in anybody's mind as to the meaning of the word 'professional.' I can make that statement without equivocation, even though I was not born at the time, because as late as the 1950's I think the word 'professional' was still clearly

understood. It referred to selected groups of individuals in our society who, by virtue of their training, calling, obligation and code of ethics, performed a service to society. These groups of people, because of their dedication and integrity in the performance of their work, were so trusted by society that they were entrusted with the administration of their own profession and disciplining of its members.

It is of great interest to note that no group in recent history has been granted self-disciplinary powers by the Legislature of this province. Has the word 'professional' the same meaning as it did sixty or thirty years ago? Does the public perceive a 'professional' in the

1980's as being an individual who serves society with integrity? I rather doubt it.

The word 'professional' is one of the most prostituted words in the English language at the present time. No longer does it refer to an individual who performs his duties with knowledge based on years of training, who performs these duties with integrity and in the service of society. It simply refers to someone who, by one means or another, does something better than someone else based on skills acquired in various ways and not necessarily based on knowledge, logic, reasoning and the need to use one's brain, and most importantly without the need of accountability to his

peers or the need to follow a code of ethics in the performance of his work.

I suspect that in the eyes of the public a professional engineer, doctor, lawyer, dentist, is no more a professional than a professional hockey player, football player and the like. Without making any accusations I think it would be very interesting to examine whether it is the hockey players, football players and television performers who have risen to the height of the meaning of the word 'professional' as defined by our forefathers of sixty years ago and as still followed some thirty years ago, or have we, together with the other 'professionals' who administer an Act of the Legislature, fallen down and joined the masses?

COUNCIL MEETING

June 9, 1980

By J. Scott Heuvel, P. Eng.

"What swallowing goldfish is to fraternity initiations, so are APEM Council Meetings to becoming a Bulletin reporter." - anon.

A meeting of Council of the Association of Professional Engineers of the Province of Manitoba commenced at 3:30 p.m. when 6 Council members reviewed the amended agenda and approved the minutes of the previous meeting.

The first item of business arising from the previous meeting was in regards to the APEM University Liaison Committee. It was agreed that it would be preferable to hold a meeting with the Dean and Department Heads of the Faculty of Engineering, University of Manitoba in the Fall of 1980 rather than in June

and that Mr. P. Lowe be advised accordingly.

Accounts were accepted as circulated, licenses, engineering graduates, transfers and registrations approved.

The minutes of the Board of Examiners meeting of May 13, 1980 were approved. Council agreed to Mr. Lewis' request to absent himself from the Admission Review Board citing possible conflict of interest (and possible front page headlines) J.P.C. McMath was suggested as a suitable Admission Review Board member. Prof. Johnson requested clarification by the Board with respect to the emphasis placed by the

Board on an applicant's membership in one or more of the various British Engineering Institutions.

Next, Mr. Ted Speers appeared as a delegation to speak to the Premises Committee's recommendation that the Association premises be moved to York Centre. Council thanked Mr. Speers for taking time out of his busy personal schedule, and three-day work week to attend the Meeting. After much discussion on the merits of the York Centre vis-a-vis the Royal Trust Building, perverts, office layouts and second-hand prestigious boardroom furniture, it was approved that in concurrence with the recommendation of the Premises Committee, the Association premises be moved to the 6th floor of the York Centre, 175 Hargrave Street, subject to the successful negotiation of a satisfactory lease.

The composition of the Brandon Area Committee was ratified. The Managing Director reported on a meeting he and President Saltzberg had attended in Brandon on May 27, 1980.

Prof. Johnson spoke to two recommendations from the Awards Committee and to new proposed Terms of Reference for the Outstanding Service Award, Merit Award and the Life Membership, HONORIS CAUSA. The terms of reference, as amended, were approved.

Relations with the M.A.A. were discussed with specific reference made to two controversial articles regarding the Winnipeg Arena Expansion. Vice-President Isaak advised Council members that President Saltzberg had met with President R. Friesen of the M.A.A. to express the APEM's displeasure with statements made by Architects to the

media. No further action was deemed necessary at this time.

The next item was discussion of a Report of the University of Manitoba Budget Review Committee as provided by the Board of Governors. It was agreed that Council should respond in a letter from the President, and that the letter should include certain observations and/or recommendations. Council supported the concept of obtaining funds, for the short term, from sources outside the operating budget; and also the recommendation that the present use of the staffing policy should be clarified.

Discussion then turned to the proposed Interior Designers Association Act. It was agreed that the draft Act be referred to the Legislation Committee for the Committee's comments to Council.

Topics were then suggested for the proposed Fall 1980 General Meeting with Continuing Education and APEM/MANSCETT discussions given priority.

A report of the June 5, 1980 APEM/MANSCETT Interface Committee meeting was submitted. The report dealt with the Ontario Professional Organization Committee's recommendations, the General Meeting of the APEM and made recommendations regarding meetings involving Council. It was agreed by Council that the APEM members of the Interface Committee be invited to meet with Council at its July meeting and to consider beforehand the format of a meeting which might include topics in addition to APEM/MANSCETT relations.

Mr. K. Jardine reported briefly on the Canadian Accreditation Board meeting, impressed with the credibility, high standards, efforts towards consistency

and the general understanding attitude of the C.A.B. He also mentioned that Faculty funding problems are not distinct to Manitoba.

Mr. F. Jost mentioned that the membership had been promised a statement from Council on the Association's review of the Nelson-Churchill River Sys-

tem Hydro Inquiry. It was agreed that an early response from the Practice and Ethics Committee would be desirable and that perhaps the Committee should establish a self-imposed deadline.

Since all sandwiches and cookies were either eaten or gone stale, the meeting adjourned at 8:15 p.m.

COUNCIL MEETING — JULY 14, 1980

By B.A. Faurschou, P. Eng.

True to form the final Council meeting prior to the summer break started 20 minutes late at 3:50 p.m. However, once President Saltzberg called the meeting to order, it was soon apparent that if it was up to the President the heavy agenda would be worked through in the predetermined four hours. Not in iambic pentameter but a rhythm of "motion — seconded — in favour — carried", was soon evident.

The first noteworthy item commented on was the proposed Interior Designers Act, which has been reviewed by the Legislation Committee which had requested opinions from the Association's solicitor. The general opinion of Council was that this Proposed Act would not be introduced before the Manitoba Legislature adjourned.

The regularly reviewed item of out of province engineers applying for licences brought the comment from President Saltzberg that the number of applications for licences had been steadily growing which was indicative that companies and engineers were beginning to learn that you have to apply for a licence to do engineering work in the province.

The Executive Committee's report on the new premises was tabled and it was pointed out that: a lease was to be signed based on further advice from a solicitor: an interior designer had been retained to finalize the interior layout: and plumbers sure were expensive these days.

Next, Council dealt with a request from the Association of Consulting Engineers of Manitoba (ACEM) for secretarial services consisting of specific duties for an agreed-upon fee. The general discussion that followed resulted in questions of principle, precedents, and money, which even Council recognized as classic and difficult to solve. The end result was to have the Managing Director asked to investigate further and report back at a later meeting.

Quickly, the recommendation of the Awards Committee and the new slate of members for the University of Liaison Committee were ratified by Council.

President Saltzberg reported that the Association may be required to appear before a board of inquiry regarding the Fairlane Townhouse fire in order to establish the qualifications for engineers

who are responsible for the design. It was agreed that if called upon, W. Saltzberg would appear with legal counsel to state the registration procedures of the Association.

Councillor R.A. Johnson had introduced two items regarding C.C.P.E. However, just as he had begun, C.R. Bouskill arrived as a delegation regarding the interfacing problems between A.P.E.M. and MANSCETT. At this time (5:40 p.m.) Council agreed to set aside the C.C.P.E. items until later.

Mr. Bouskill explained that he was part of the Committee to find common ground between A.P.E.M./MANSCETT. In general, C.R. Bouskill believed that some liaison with MANSCETT was desirable, but it was his feeling that the general membership of APEM was not in favour of our acceptance of technologists. His committee was somewhat unsure what direction it should be pursuing, and therefore he asked Council for a clear statement as to what should be the next step.

Councillor Isaak suggested that it was a matter of education of the APEM membership to convince them that it was right to have technologists in some sort of association with APEM. Following additional discussions between Council and Mr. Bouskill it was decided to have a 1½ hour special Council meeting with the Liaison committee devoted to MANSCETT and related problems. Mr. Bouskill graciously declined an invitation to partake of Council's dinner of sandwiches.

As E.E. Lach's arrival to present the draft of proposed changes to the Engineering Profession Act was concurrent with Mr. Bouskill's departure, Council

found a lucky soul to share their catered dinner.

Following a brief meal break, Mr. Lach introduced the Legislation Committee's suggested changes to the Engineers Act; he explained that the proposed changes at this time were essentially housekeeping, but the committee felt that the changes should be made immediately. The two main thrusts of the changes were to protect the public against incompetent engineering, and the admission of people into the engineering profession. The general discussion regarding the changes to the Act that followed concentrated on the implications of having the Act modified and what action should be taken by the Council. On the recommendation of Councillor Jost, the Association was to adopt the proposed changes subject to comments by a registered parliamentarian. As the Legislation Committee will be required to continue its efforts, Council extended an interim vote of thanks to Mr. Lach and his Committee members.

Following Mr. Lach's appearance before Council, the Councillors returned to the items of C.C.P.E. on which some discussion had taken place prior to the appearance of the delegations. The A.P.E.M. had been requested by C.C.P.E. to ratify two documents regarding foreign degrees, accreditation, and immigrant admission to the profession. A motion was put forward that Council seek a report from the Board of Examiners to be ready for the early fall meeting of Council.

The final item that Council attended to was a C.C.P.E. draft report from the Admissions Standards Committee. The draft report was quite lengthy, and

Councillor Johnson, having thoroughly reviewed the document, pointed out to Council seven items for which clarification and explanation were required. There was considerable discussion amongst the Councillors regarding minimum education standards, admission to the examination program, and similar items. However, Council did not make any major changes to the draft report.

At 7:40 p.m. it was apparent that President Saltzberg was anxious to recess for a summer break from Council meetings, and as a result he made some very brief comments regarding A.P.E.M. relations with the M.A.A. (Architects) which will be pursued in the fall. He then wished everyone a good summer and adjourned the meeting at 7:45 p.m.

THOMPSON NEWS

By. B.E. Maxfield, P. Eng.

It has generally been a fine Spring and Summer in the Thompson area. April was unbelievable, with the highest temperatures so far this year. Very little precipitation to date, which is nice for us. The water levels in the lakes are very low, the lowest I can recall at Paint Lake where many cottage docks are high and dry.

Fishing doesn't seem to have suffered. Yours truly spent a great weekend at Clearwater Lake in early June, where we easily caught our limit of lake trout. And very recently, Ray Prochera picked up a fine catch of big pickerel at a small local lake purposely not identified. Bryan Clements, as usual, picked up a couple of "big jacks" at Soab Creek this Spring.

Bryan, by the way, over the past 2 winters, has built a 17 foot cabin cruiser powered by a 115 h.p. Mercury outboard engine. The only construction casualties so far are Bryan's car, whose "home" became a workshop and Bryan himself, who picked up a large splinter in his hand that caused him much trouble and eventually had to be removed in an operation. He has kept the culprit as a souvenir and the boat will be ap-

propriately named "Splinter". By the time you read this, Bryan will have launched Splinter, hopefully successfully. The story will be covered in more detail in Inco's IN Manitoba magazine. Bryan is now planning a trip to Winnipeg by boat.

The Annual Inco Employees Golf Tournament was held here in June. Two hundred and two golfers competed in the event which was won by the maintenance team. Ken McDonald, P. Eng., Electrical Engineer in the Engineering department, won the E.F. Winter trophy for the men's low net. Carl Goddard, P. Eng., won the seniors low net. The top 16 golfers competed in a playoff July 5 to determine the 4 man team to represent the Manitoba division in the President's trophy tournament being held in Port Colborne, Ontario this year.

A number of Thompsonites participated in the second annual Manitoba Marathon in Winnipeg in June. Alex Murchie, P. Eng., ran again, completing the course and shaving 1 hour, 5 minutes off his previous time. IN Manitoba July 1980 features a good picture of Alex practising here for the race. It would be

interesting to see a list of all the other A.P.E.M. members who went the distance. (You will, Blake - Ed.)

Three Thompson graduates of R.D. Parker Collegiate have been awarded Inco Scholarships that provide for tuition fees, \$750 annually toward expenses plus a supplemental grant of \$300 to \$500 to the University. One of the winners was Elaine Kendall, who plans to enter the University of Manitoba in September. Her brother John, who is in 4th year Mechanical Engineering at U of M, is a previous Inco scholarship winner. John is working in the Inco Engineering Department this summer.

The annual Nickel Days and the National King Miner contest were held here July 11 to 13. Despite dire forecasts, the weather was better than usual and it was a good weekend. Thompson's Lorne Spicer is King Miner again, the

first to win 2 consecutive years. Lorne has won the event 5 times. Snow Lake won the team event. Nickel Days drew many out of town competitors and visitors and accommodation was hard to find. If you are thinking about attending Nickel Days next July, plan ahead.

The following Inco people were recently registered in the Association: Peter Baumgartner, Engineer, Mine Geotechnics; Douglas Pennington, Geologist; Richard Wisniewski has been appointed Senior Engineer, Mechanical, in Inco's Engineering Department.

One of the tourist attractions at Thompson is Inco's Manitoba Division surface operation. Guided tours are conducted twice daily, Tuesday through Saturday, all summer. Almost 400 people toured the plant in June. If you are taking a northern vacation, why not visit our plant?

Have a good summer.

A SALUTE TO RAY McQUADE

In June of 1974 W.R. (Ray) McQuade was elected by the graduates of the University of Manitoba for a three-year term on the Board of Governors. In June 1977 he was re-elected by acclamation for a further three-year term. It was almost unprecedented that no election was held. This in itself was a tribute to Ray McQuade. He was doing such an excellent job that no one wanted to run against him. In 1975 Ray McQuade was elected Chairman of the Board of Governors and was re-elected to that post annually on four consecutive occasions.

Membership on the board carried with it other duties. As Chairman Ray



W.R. McQuade P. Eng.

was also Chairman of the Executive Committee and the Finance Committee, and he was also a member of several other Committees.

During his tenure as Chairman, the University was confronted with difficult situations, including collective bargaining, financial restraints and the problem of the allocation of funds. The dedication that is an integral part of Ray McQuade was evident on the Board of Governors. As its chairman he attended 65 consecutive meetings.

Ray McQuade brings to everything he undertakes a complete dedication. He is a person of high moral principles, of integrity, understanding, compassion. He is a very approachable person, one of great humility. When he undertakes a task it is because the task is there to be done. There is no asking "What is there in it for me?" Ray knows what there is in it for him — not kudos, not business contacts, not potential customers or clients, not accolades. Ray sets very high standards for himself and what there is in it for him is that he can live easily in himself. On the Board of Governors there was hard work and a great sacrifice of his time. "This above all," Shakespeare said, "to thine own self be true, and it must follow, as the night the day, thou canst not then be false to any man." We know of no member who exemplifies this philosophy more than Ray McQuade.

On the board of Governors Ray dealt with serious problems in difficult times. He was Chairman of the entire Board of Governors, and that is how he conducted himself. The Board is responsible for the whole university, and it must deal with all aspects in fairness and without favour.

The position of Chairman of the Board of Governors will have been enhanced because it was filled for over four years by Ray McQuade, and we are proud to have him in this Association that he has also served so well.

NATIONAL UNITY

On July 1st the Winnipeg Blue Bombers played an exhibition football game at Winnipeg Stadium. Simultaneously Canada was celebrating Canada Day, with choruses of the abridged version of "Oh Canada" which is now officially proclaimed as our national anthem.

The 15,000 fans should have known they were in trouble when Vi Comack who sings over the PA system came forward to sing the song we have been "singing for years" with a card to read. Singing the song went from embarrassment to worse as Vi was the only person in the place who knew the words and that was only because she was reading them off a paper.

A question springs to mind as to the stuff that politicians are made of. They have given us inflation, recession, taxation, metrification and now the ultimate insult; a national anthem that no one knows the words to.

Belated Happy Birthday Canada anyway. — R.A.K.

GUSTING

A discerning and erudite reader has brought it to our attention that in our article on the use and abuse of words we omitted one popular abuse. "The wind is gusting. . ." There is no verb 'to gust'.

Hydraulic simulation applicable to high structures.



HELP WANTED — URGENTLY

THE UNIVERSITY OF MANITOBA ENGINEERS ALUMNI ASSOCIATION NEEDS FUNDS. If you are an engineering graduate from the University of Manitoba then you are a member. And your support is needed.

Annual dues are only \$5.00. Send yours today (with maybe a little extra) to: Room 139, University Centre, University of Manitoba, Winnipeg, R3T 2N2. Donations from non-Manitoba grads gratefully and humbly accepted.

NOVEMBER, 1980 IRON RING CEREMONY

The next Iron Ring Ceremony shall be held at 8:00 p.m., Wednesday, November 9, 1980, at the University of Manitoba, in the Tartan Room located on the 2nd Floor of the Pembina Hall, 26 MacLean Crescent. Free parking is available on the east side of Pembina Hall in Parking Lot C.

The Wardens of Camp #8 would like to extend an invitation to all obligated engineers to attend. Those engineers who have not taken the obligation may apply to take part in the ceremony by contacting the Camp Secretary, W.G. McKay, 1479 Buffalo Place, Winnipeg, Manitoba, R3T 1L7, Telephone 284-0580.

CONSULTATIVE MEETINGS

The Council of the Association has embarked on a new and radical activity that may well be considered un-Canadian and undemocratic. The Council asked the members' opinion on a number of subjects in a May meeting and is contemplating another meeting in the fall.

The Canadian way is to ask France, Iran, the CIA or Jack the Ripper, but never Canadians. After all, when people get into power whether by election or appointment to the bureaucracy, they expect to rule absolutely, totally and completely, without regard to their constituents. To do otherwise is somehow subversive. If this subversion spreads, think what might happen to the decision-making process of the Liberal Party and the CUPE Union. Where will it all lead? Obviously, it's only a matter of time until the ranks would henceforth think it was their right and if they do not get their way, they will become violent. One can just imagine going to the Annual Meeting and seeing a cloud of engineers' seals flying through the air in the heat of the debate. Not only that, this subversion is liable to spread to the legislature or even — perish the thought — to the Government of Canada!

Imagine if you can, some learned publication like the Bulletin having an article on "Consultation with the Rank and File" being slipped onto Mr. Trudeau's desk some dark and stormy night along with Laval University political science publications. One might expect that the War Measures Act would be revived immediately and the posh new offices of the Association would be undated and desecrated with hobnailed boots, bagmen and Senators.

Even though the theory of democracy is good, Council should be mindful of the consequences of actions even though well intended and theoretically democratic. It should remember that arrogance, autocracy and bureaucracy are part of the Canadian institutional life and should not be subjugated without due consideration.

SEMINAR

The University of Manitoba will be offering a three-day seminar on "Construction Contract Administration" October 8-10. For further information contact the Continuing Education Division at the University.



Don Miller, President of the University of Manitoba Alumni Association looks on as Honorary President Jack Hoogstraten presents a trophy to Ben Striowski. The trophy is awarded for the best presentation by an alumnus at the annual dinner meeting held in December.

TO ALBERTA WITH LOVE

While he was attending the Alberta Association's annual meeting in Banff, President Walter Saltzberg commented that it was unfortunate that he had neglected to bring his gavel because there was obviously a quorum of Manitoba engineers present.

We ought to be able to make some kind of a trade-off with Alberta, an exchange of natural resources. They can send us some oil and natural gas in return for which we will send them qualified engineers.

The engineers we are sending them are not only qualified as to branch of engineering, but many of them are well-trained in Association matters. They were quick to grab up Kathleen Gissing,

formerly of our Bulletin Committee and to elevate her to their Council. One well-trained and seasoned member we recently shipped west was Past President Andy Gilliland, with several years of Council and Committee experience to his credit, and ours. We have also lost Frank Chan from our Bulletin Committee, Ted Parent from the Sports Committee and Ed Pentland of the Membership Committee. George Spencer has the combined expertise, acquired around our various tables, of Council training and cake cutting. Ted Hassenrueck was trained by our Annual Meeting Committee, and Bob Kury by the Employee Engineers Committee. Butch Donison was made Chairman of the Public Relations Committee one day

and was transferred to Alberta two days later. John Ball took his leave with experience on the Safety Committee and Glen Morrow left after only a brief but valuable course on the Annual Meeting Committee. And there are many others. Transfers to Alberta are being processed weekly, so we are doing our bit to contribute to their substantial increase in membership. No wonder Walter Saltzberg felt at home at the Alberta annual meeting.

No one sends us experienced committee personnel. We'll have to take it out in oil or Heritage Fund handouts.

A.P.E.M. POLL

Now that Council has started a series of meetings to consult the members, the Bulletin has decided that it will go even farther by conducting polls amongst the members to provide information that would be invaluable in the decision-making process of the Association. National polls are usually conducted on about 2,000 people to show what 20 million people think. If our ancient slide rule is right, this is about 1 in 10,000. Therefore, to maintain the same ratio and still be statistically valid, we have conducted a survey on a fifth of a member of APEM.

Scientific pollsters use a mixture of questions — local, professional, national and international — so that the guinea pigs will not know what the questions are driving at. Ordinarily the extraneous questions are not used except to show that the people don't know what they are talking about. But the Bulletin has deep respect for its readers so will publish all of its questions and answers.

QUESTION: *Do you think every engineer should belong to the Association?*

ANSWER: I'm against all Associations - including Sovereignty.

QUESTION: *Describe in one word your impression of the Bulletin.*

ANSWER: Bull.

QUESTION: *Should technologists be licensed?*

ANSWER: Only if it means more money to me.

QUESTION: *What should we do with the St. Helen's dust??*

ANSWER: Stain it green and send it to Quebec.

QUESTION: *Should the West separate from Canada?*

ANSWER: Where would it go?

CONCLUSION:

Scientific analysis of the results of the questions which have an accuracy of $\pm 5\%$ (providing the pollee was sober at the time) indicate that the fees of the Association should definitely be raised.

Late Bulletin

The government of Manitoba has made a special two million dollar research and development grant to the Faculty of Engineering at the University of Manitoba, for which the profession is very grateful.

NEW MEMBERS

Big Gains for Manitoba

Vice-President Rudy Isaak stepped in for vacationing President Walter Saltzberg to welcome new members at a reception in their honour on June 4. Assisting in issuing a welcome were Councillors Glenn Swift, Fred Jost, Dave Cross and John Lewis, and Committee Chairmen Stew Buckler, Roger Kane and Charlie Bouskill, Chairman Emeritus George Pratt and Managing Director Terry Algeo.

The exodus of members to Alberta is being somewhat offset by an influx of engineers from Ontario and by the fact that we are holding some of our own. Richard Rentz is a native Manitoban, content to stay here, and to prove it he has just built his own home (with some help from his wife) in Beausejour and he commutes from there daily. Arun Rege's hobbies are jogging and reading (not concurrently.) His two little daughters keep him busy. Arun came to Manitoba after seven long years in Toronto. John Davies, who originated in England, has even more stamina and lived thirteen years in Toronto before fleeing to Manitoba. Bob Pastor, another bonus from Ontario, moved here from Hamilton and is with Stelco. He was involved with the Ontario Association when he was there and we are looking forward to having the benefit of his experience on one of our committees.

Bernie St. Amant is another native Manitoban whose hobby, understandably, is horticulture. If he has any spare time to do some moonlighting he is already booked up by this reporter and a member of Council. John Bachman was born in England but left so long ago that

there is no trace of an accent. (John Lewis please note.) Like several other international notables John Bachman speaks Polish, perhaps not as fluently as the Pope or the Dean of Engineering but on about the same level as our President. We tested his fluency out on Emile Sagalovich, who came to Winnipeg from Russia two years ago and they seemed to understand each other.

A great big welcome to Paul Winslow who works for Ducks Unlimited and who obtained his registration the hard way — by writing the Association exams. It took him almost a decade to achieve his goal and he is certainly to be congratulated.

Doug McQuarrie, who works with Armco, came to Winnipeg from Victoria — believe it or not. He entered our golf tournament and won no prizes. His other hobby is skiing. Victor Tanner, another native Manitoban, doesn't have much time for hobbies as he is working a 12-hour day, but when time permits he devotes it to the Solar Energy Society.

Paul McDonald did not settle in Manitoba without first testing the waters. He has lived in all ten provinces and after assessing the entire situation he picked Manitoba. This is a choice that could easily be understood by Don Stevens who hails from Brandon and is interested in all kinds of sporting activities. Another Manitoban who has resisted the lure of oil is Tom Price from Swan River whose interests are sports and photography.

Norman Siemens grew up near Altona, worked in Brampton, Ontario for six years and now designs computer sys-

tems. When asked what he thought was most unusual about him he replied that he was happily married and had a lawn with no grass.

A very brief visit with Tom Price convinced us he was ideal material for the Annual General Meeting Committee which requires its members to be intelligent, congenial, be good wine tasters and have outstanding executive ability. All we have to do now is convince Tom that he really qualifies.

Alex Kramer comes from Aberdeen and sounds like it, although he left there in 1955. He was in eastern Canada until January of this year when he fled to the friendly west. He plays badminton and referees soccer.

Richard Johnston is from Toronto and came to Winnipeg with MacLarens and admits that he wanted to get out of Toronto. He too has been invited to join the Annual Meeting Committee.

Bob Burnside is from Orangeville, Ontario, and transferred his membership to Manitoba in February 1980. Scott Martin is a very unusual engineer — he stands around with an empty glass. Scott is married with one daughter, Heather, eight months old. He came to Winnipeg from Oakville, Ontario, via Thunder Bay and 'much prefers Winnipeg to Toronto.' Dan Danyluk who is with C.P. rail moved here from Montreal, another gain for Manitoba.

Mark Aimey rushed back from Past resident Tom Weber's home town of Portage la Prairie (also that of Charlie Ireland, Bill McKay and this reporter) in order to get in on the tail end of the reception. Tony De Luco, who was born in Italy, stopped off in Ontario for ten

years before moving to Manitoba. Salah Ud Din tried Saskatchewan first and then came on to Manitoba.

While we are transferring many members to Alberta we were heartened at our gains. And while we don't seem to lure any engineers here from Alberta these days, there were present two outstanding gains from earlier times, Councillor Glenn Swift and a member of the Bulletin Committee.

Terry Algeo and George Pratt welcomed the new members at the door and stayed following the reception for an ad hoc meeting on some very serious subjects. It was suggested that Editor Roger Kane should either appoint (or be) an art critic to review the erotic art show at the convention centre to determine if indeed the heads were all in the wrong places. Someone thought they heard Stew Buckler say "If a girl came in with her normal talents and that was all she displayed. . .it's the gear ratio that wins," but Stew said he didn't say that at all. Stew may not be an authority on girls but the girls in the office are authorities on Stew and have just awarded him the Gallant Knight of the Year award, for which the qualifications are very high indeed.

Holland sent its palace royalty over to Canada during World War II but retracted them when peace was restored. However, later on they sent us the Jost branch of their royalty, to Winnipeg and not Ottawa, so the net gain has been ours. Fred had been keeping an eye on John Lewis, supposedly in training for the great marathon run, and reported with regret that he had caught John slumping around a store the evening before the reception and during the reception found John slouching in a

chair looking very unlike the athlete he (John) pretends to be.

We look forward to seeing the new members again at forthcoming Association functions and also on Committees.

As Rudy Isaak pointed out in his welcoming speech, there is much to be gained in service to one's profession. Rudy speaks from years of experience. — S.J.A.

GETTING IN SHAPE FOR NEXT YEAR'S MARATHON

Here are a few tips to help you (and your wife!) get started on your training programme for next year's marathon:

Shoes

A good pair of running shoes is essential. In selecting a shoe, the following points should be considered.

1. Buy a training shoe, not a racing shoe — you want shock absorbency, not lightness.
2. There should be plenty of cushioning beneath the heel and the ball of the foot, to protect the leg muscles and the achilles tendons.
3. The heel cups should be stable and straight, to hold the foot squarely in place over the sole of the shoe.
4. The heel should be wide for stability.
5. There should be padding at the top of the heel, around the back of the ankle. This "heel collar" protects the area where the achilles tendon attaches to the heel bone. The collar should be slightly raised around the achilles tendon, but if it tends to rub, cut it way at the point of irritation.
6. The shoe should bend easily at the ball of the foot, and be fairly rigid from the ball back to the heel.
7. There should be plenty of toe space. The shoe shouldn't narrow at the

toe, and when standing, there should be about a thumb's width from your toe to the front of the shoe.

8. 3-dimensional ("waffle") soles offer more traction and cushioning when running on pavement. However, they also tend to wear out faster.
9. When buying shoes, also purchase some shoe glue to apply to the high-wear areas on your soles. Uneven wear on shoes can lead to injury.
10. Always wear socks. As well as being hygienic, they can prevent blisters.

Clothing

The most common problem the beginning runner has with clothing is overdressing. The body tends to heat up considerably during a run, and it takes only a few minutes before the outfit that was comfortable to start with has become uncomfortably warm.

At all times, your clothing should be cool and comfortable. On warm days, loose-fitting, lightweight garments are recommended. Cotton or nylon shorts are very popular, although you should avoid tight elastic leg bands, as they can constrict circulation.

In the winter, you should wear a hat, as a great deal of body heat is lost from the head. Try layered clothing so that as your body warms up, you can remove

unwanted garments. Should you wish to run in the rain or snow, wear wool, as wool is the only fabric that retains its heating properties when wet.

Stretching

It is important that before and after every run you spend at least 10 minutes performing some light stretching exercises. Running causes certain muscles to quickly stretch and snap back, shortening and tightening them and causing reducing flexibility, and only by stretching will you be able to counteract this damage. Your back, achilles tendons and hamstrings require special attention, as they are particularly vulnerable.

Also, you should always start out at a walk. Walking increases the blood supply to all muscles, making them more pliable, and less susceptible to injury. It will also increase your heart rate and ease your body properly into running.

After the run, you should walk for a while, to allow your body to "cool down", then perform a few more stretching exercises (10 minutes minimum) — when you have stopped perspiring, your body has properly "cooled down".

Running

You should run with a straight back, your head up, mouth open (breathing is much easier through the mouth), with a stride length that is comfortable to you. Your arms should be held at waist height, with elbows held slightly away from your body. Your hands, shoulders and face should be relaxed.

Most beginning runners try to go too fast. The maximum desirable heart rate during exercise is 220 minus your age

(beats per minute), and your pace should be such that your heartbeat is in the range of 70 to 85% of this maximum. (Another good test is the "talk test". If you can't comfortably carry on a conversation while running, you should slow down).

Duration, not intensity, is the essential ingredient in training. You should measure your runs by time, rather than distance. Try to run almost every day, increasing the length of your runs only about once every two weeks, and not by more than 10% each time. When you reach the stage where you can run regularly, four times a week, for thirty minutes each time, you will be ready to start on a training programme.

The following is only one of the many training programmes available to runners. I forget where this one came from — but I do know that it works!

Training Programme

Go out and run for as long as you can. Time yourself. Run slowly — remember, the slower you go, the farther you will go. Subtract 15 minutes from this to determine the length of your long run. Subtract another 15 minutes from this to determine the length of your two medium runs (For example, if you were able to run for one hour, your long run will be 45 minutes; your two medium runs, 30 minutes). In one week, you will do one long run, two medium runs, and at least three short (15-minute) runs — all at the same pace — with the short runs **always** in between the longer runs. This is the hard-easy principle, which you will find in almost **every** training programme. (Running destroys, and rest rebuilds, and it takes 48 to 72 hours for the body to recover from a hard run,

so an "easy" run is always recommended following a hard workout).

After the first week, total up your running time. Add 5% of this total time to your long run, and 2½% to each of your medium runs. These, interspersed with 15-minute runs, will comprise your programme for week 2. Do the same again for week 3. You will notice your long run becoming rapidly longer. For week 4, repeat the programme for week 2. For week 5, repeat week 3. For week 6, add 5% of the total for week 5 to your long run, 2½% to your medium runs, and so on. Briefly, counting each number as a week, your schedule will look like this: 1-2-3, 2-3-4, 3-4-5, 4-5-6, etc., where the long run for each number is 5% more than that for the previous number, each medium run is 2½% more, and each short run stays constant at 15 minutes.

The optimum level needed for a marathon is two 2-hour and one 3-hour run per week. (Of course, that doesn't mean that you won't complete the marathon if you don't get quite that far — just be careful!)

Good luck, one and all, and let's see a tremendous contingent from the Engineering profession at next year's Manitoba Marathon! — S.M.

To defend freedom is — first of all — to respect freedom. This respect demands, in turn, respect for the integrity of fellow citizens who enjoy their right to disagree. The right to question a man's judgment carries with it no automatic right to question his honor.

- Dwight D. Eisenhower
October 3, 1952

PRELIMINARY MARATHON RESULTS

The efforts of Glenn Morris and John Lewis were certainly not in vain, as engineer after engineer crossed the finish line at the University of Manitoba's Pan-Am Stadium, triumphantly completing the second annual Manitoba Marathon.

Andy Tallin was the first member of our profession to finish the gruelling 26 miles, 385 yards, which he managed to do in an incredible 2 hours, 53 minutes. He was followed by Ian Goulter (3:16), Cy Howard (3:18), Barry MacBride (3:21), Ed Ryzoykowski (3:29), Rick Muzzyk (3:34), Brian Faurschou (3:39), Hy Dashevsky (3:55), Cornelius Martens (4:01), Keith Walker (4:08), Gary Swan (4:10), Al Bischoff (4:21), Roy Houston (4:23), Ernie Hanson (4:25), Kees Vogel (4:26), John Lewis (4:33), Amrat Jivan (4:42), Alex Murchie (4:53), and just over the 5-hour mark, Alf Cornies, Bruce Piercy, Ken Williamson and Elsie Williamson (yes, ladies, an engineer's wife completed the course!). Congratulations to you all!

Congratulations are also in order to all those dedicated engineers and engineers' wives who entered the marathon but were not able to complete the distance; to those who assisted at the highly-organized, much-appreciated aid stations; and to those who simply dragged themselves out of bed on that chilly Sunday morning just to cheer on the runners. All of your efforts were very much appreciated! — S.M.

A GREAT WALK IN THE PARK — "RUINED"

Someone once said this of the game of golf and for the members of the PEM who gathered at Elmhurst Golf Course the adage held true to a point.

A few such as Lorne Holden, Ken Williamson and Bryan Manning who were one-two-three in the low gross category proved that hitting a golf ball isn't all that difficult, however the majority gave stronger chase to Roger Mills who proved to be the most honest member in attendance.

The day was perfect: warm, a slight breeze and the course despite the hot dry weather was in beautiful shape thanks to an underground stream and pumps that never shut off. It is possibly worth noting that the same water used at Elmhurst is used by a local brewery which seemed to catch the notice of the golfers who retired willingly to the 19th hole to sample the water.

The power of modern math worked in favour of Don Kilgour, Kim Fries and Ralph Gilbert who were one-two-three in low net. Harold Wilson proved to be the "burner" of the course shooting the best front nine score but couldn't maintain it with Bruce Ellison grabbing the honors on the back. While Jack Nicklaus didn't make it up from his Florida home, Darryl Danyluk came from Red Deer, Alberta, to win the award for longest travelled participant.

The natty Rick Muzeen was deemed best dressed and Vince Donato was on the other end in the dress category.

The gorilla award for the longest drive went to Marv McKay who must have been really mad at the ball because when I got to his marker I was shooting

four without a penalty. The man with the most finesse off the tee was Al Snyder who popped the ball so close to the hole they had to measure it in meters. (I still don't know how close he was.)

The meal served up by the Elmhurst staff was excellent. Walter Saltzberg, who was the only one in a suit and tie, was clearly disappointed that he didn't get the best dressed golfer award but the Sports Committee explained that the award had to go to a golfer which Walter seemed to accept as an adequate explanation. His heir-apparent Rudy Isaak apparently is going to keep up the tradition of non-golfer presidents if what I saw on the course was any indication.

In summary the day was more fun than a game of golf should be, because of the outstanding efforts of the Sports Committee, Joan McKinley and the Elmhurst Golf Course staff. — R.A.K.



Lorne Holden, low gross golf winner, is deluged with prizes for his efforts — the Landon Cup and a magnificent wicker basket.

CAPTION CONTEST



I don't think we should tell Waiter!



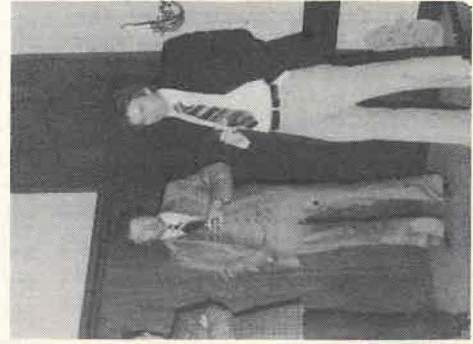
I've swallowed my ring - again!



Where did that taxi come from?



Who says "Mouth to Mouth" is fun?



If this party doesn't liven up soon, I'm going back to the ladies' room!

Allen Lansdown won last issue's Caption Contest with these brilliant lines — as well as the honour and glory he has won a year's free subscription to the Bulletin.

RITUAL OF THE CALLING OF AN ENGINEER — CAMP #8

The Ritual of the Calling of an Engineer — Camp #8 administers two ironing ceremonies per year — one in the fall and the other in the spring. The 1980 expenditure budget for the administration of the camp and the two ceremonies is \$1,500. Revenue is raised by the sale of replacement rings to Camp members. Candidates for obligation receive their rings and certificates complimentary of the Camp.

Recently, the Wardens of Camp #8 raised the price of replacement rings to fifteen dollars (\$15.00) in an attempt to keep Camp #8 revenue in line with

its expenditures. In addition, the Wardens are also looking at ways and means of cutting expenses. In spite of this, it is anticipated the Camp will remain in a tight financial situation. Because of this, the Wardens of Camp #8 are soliciting donations from Camp members, a donation to cover 2 or 3 rings would be most appreciated. Camp members are requested to send their donations to the Camp Secretary, W. McKay, 1479 Buffalo Place, Winnipeg, Manitoba. Cheques should be made out to the Ritual of the Calling of an Engineer, Camp #8.

MORE ON CONTINUING EDUCATION

A famous British engineer in his presidential address to the Institution of Civil Engineers said that the sooner young engineers realized that civil engineering is essentially a question of mud, Irishmen and a shortage of carpenters the sooner would they obtain a proper appreciation of the profession. And another equally eminent engineer once said that you might become a brilliant mathematician or scientist at an early age or a doctor before you are 30, but due to the time required to gain the necessary experience you will be 40 before you can honestly call yourself an engineer.

Both of these statements contain, of course, an element of exaggeration, but they do provide some perspective on the question of continuing education.

One gets the feeling that some advocates of continued education are thinking no further than advanced ac-

ademic courses or that even their broadest conception would add only seminars and technical conferences. They seem to fail to realize that in engineering the most important CE is that derived from practical experience. Such experience is rarely adequately gained by a few days or weeks of exposure in a sort of teaching environment. Rather it is a matter of practice in which problems are identified, solutions are researched and ultimately the end product is tested. This process frequently spans several years for a single project.

Those who have been through this wringer several times may be truly judged to have "continued" their "education".

The fact that the bright youngster may be able to run rings around the old sweat in the application of the latest sophisticated design techniques is not to say that the latter needs to brush up on

his education. His contribution is to provide general guidance based on his years of experience, and he is certainly more qualified to pass judgment on the adequacy of the end product. The former only has a somewhat narrow academic base of knowledge for judging the suitability of his or anyone else's work.

So, before we get overly concerned about the competence of older engineers to continue to practise their profession we would do well to concern ourselves with the almost complete lack of experience of the younger ones who this Association, in effect, advises the public are fully qualified to practise alone.

What then are we to do about CE? The answer is that each individual must decide that for himself without any prompting or concern by others either singly or in association. What an engineer needs to do to continue to perform satisfactorily is very much a personal matter based on what he actually does or expects to have to do. There are many in the engineering business who fill a very essential role without having to supply any real technical input. Their wisdom lies in knowing what their role is, but more importantly to whom to go to get the best technical work done. If we were to assess such persons as no longer meeting some narrow standard of technical competence the Association, the profession and the public would be the losers if they became deregistered.

The idea that some sort of brownie points should be awarded for attendance at a two-day shindig is ludicrous. And, on the other hand, to attack this supposed problem by mandatory periodic examination is impracticable and could be grossly unfair. Let us not be impressed by what some American States

are reputed to be doing. Our good neighbours are obsessed with the idea that everything in life must be quantified and reduced to statistics.

It has been said with some justification that if you want to keep up to date you should read the advertisements in the technical publications. — W.P.S.

THE EDITOR

Dear Sir:

In the June 1980 issue of the Bulletin the President's Message, L.F.S.'s articles on the "Council Meeting of May 12, 1980" and a couple of others were informative and readable, the frivolous style in the rest of the Bulletin lost my attention.

There were 9 references to washroom perverts and about as many pictures of people drinking. The bulletin should be read by engineers and it is received by others who must surely question its contents. Would the committee consider the objective of reporting on the activities of the Council, the Committees, Special Meetings etc. in a forthright manner.

Yours very truly,
A.D. Myska, P.Eng.

We regret to record the death of Professor E.S. Magill, P. Eng., an Honorary Life Member of this Association.

MOVING?

PLEASE let us have your change of address.

No Longer Members

The following ceased to be members of the A.P.E.M. effective July 1, 1980: B.A. Andrews, G.D. Baker, A. Bara, C.A. Barkwell, M.J. Bohn, D.L. Capstick, R.A. Esdelle, F.E. Everett, B.A. Fedoruk, S.L. Henderson, E. Hiller, J. Jergyl, L.C. Leung, D.I. MacIntyre, J.M. Migel, L.L. Milam, B. Netupsky, S. Pataran, J. Ogden, R.W. Page, A.P. Pietrzak, R.F. Riffell, W.J. Ripat, B.J. Ruzsicksa, L.M. Skibo, W.J.C. Stewart, G.J. Tencha, D. Vokey, L.M. Wedepohl, R.P. Zeaton.

The following have transferred to other Associations: M.R. Patel, S. Lee, T.J. Dafeo, C.P. Oleknuk, J.A. Ball, A. Macuszenko, S.G.H. Fan, J.E. Gaylord, V. Langer, J.W. McKay, M.J. Slonosky, R.P. Malis, J.D. Marlow, I. Tomlinson, A. Di Frangia, B.C. Evenson, M.S. Giles, J.G. Greenwood, G.W.R. Wark, G.W. Cruikshank, M.V. Meyarstein, R.G. Zelinski, A.H. Penner, R.L. Tinkess, P. Moody, T.J. Parent, A. Hughes, C.F. Gaudry, G.C. Bates, P.A.G. Russell, K.H. Ng, M.T. Michalak, G.R.A. Weiss, R.J. Abernethy, D.J. Moon, W. Brodowski, P.G. Malburg, H.D. Gilchrist, A.N. Mitton, A. Okun.

The following have resigned in good standing: J.F. Zimmerman, L.G. Swain, B.H.J. Wilson, H.E.H. Roy, J.S. Warwick, D.N. Chakrabarty, W.M. Campbell, H. Veerman, T.M.Y. Chong, P.C.S. Krishnayya, A.J. Ring, M.E. Carlson, J.A. Chamberlain, A. Turek, R.B. Humphrey, R.A. Feeney, P. Laznicka, H.K. Kim, M. Opyr, T.J. Goodwin, M.K. Mosters, A. Osman, N. Haroon, G.D. Reimer, W.R. Ranger, B.R. Pollard, J.E. Slater, A.B. Parmeter, W.

Hindle, R.N. Arnfield, M.G. Whetter, E.G. Kurtz, H.W. Argent, D.W. Harvey, G. Zielke, P.A.S. Bertram, S.J. Crawford, D.R. Whiting, G.M. Jones, G.S. Dobby, A.H.K. Ho.

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 this Act and is a member of the association or is the holder of a subsisting licence granted under this Act.

CAPTION CONTEST

Prizes galore for the winning captions for these pictures!!

