

The Manitoba Professional Engineer

August

bulletin 84



**Inco, Open Pit Dredging Operation,
Thompson, Manitoba**

The Manitoba Professional Engineer
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**Winnipeg, Manitoba,
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Editorial

The Bulletin

By W.B. Mackenzie, P.Eng.

In my new position as Registrar I will, from time to time, be submitting editorial material to the Bulletin Committee for consideration and possible inclusion in the Bulletin. Having been asked to submit an editorial for this issue and having given the matter some thought, I decided that it might be appropriate, for a first editorial, to deal with the Bulletin itself.

The Bulletin is published five times a year. The October issue is a special issue entitled "The Annual Meeting Edition" and contains annual reports of the various committees that are to be submitted at the annual meeting. Other editions might typically include:

—A cover picture and a corresponding inside article relating to some interesting engineered project.

—An editorial dealing with some timely subject.

—A message from the President.

—Reports of meetings of Council.

—Lists of new members, etc.

—A profile on some member, usually a member of council or of some committee.

—Reports from outlying centres such as Thompson, Brandon, Flin Flon etc.

—Coming events of interest.

—Articles (both serious and humorous) by Bulletin committee members and others.

—Committee reports.

—Letters to the editor.

—Photographs of members, etc.

But the format is flexible and varies somewhat from issue to issue.

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President's Message

Association has Surplus

By R. R. Foster, P.Eng.

Preliminary figures indicate that the Association will end the 1983-84 fiscal year with a substantial surplus, perhaps in the order of \$50,000. On the revenue side, licences and registration fees are higher than anticipated. On the expense side, printing and supplies, meeting expenses, travel and a few other miscellaneous items are under budget.

Council has decided that this surplus will be allocated to the Association's reserves. Previous Councils have been aware of the fact that our reserves are too low, and attempts have been made over the past few years to build up a reasonable reserve fund. Such a fund is not only necessary in case of major unforeseen expenses, but also provides a source of interest income. The amount of reserve which an Association such as ours should hold is a matter of judgment; about one full year's operating budget is probably a reasonable guide and one which is used by some other Associations. At present our reserves stand at about one-third of a full year's operating budget.

In the past, reserve funds have been placed in short term (one or two year) deposit certificates and some long term bonds. Council has decided that, at the present time at least, five year compounded term deposit certificates are an appropriate investment vehicle and we have begun to move funds into this type of certificate. The Association is restricted, of course, in the kinds of investments which can be made; we cannot play the stock market or invest in a condominium in Florida!

The budget for the 1984-85 fiscal year has been prepared and approved by Council for presentation to the membership at the Annual General Meeting. The ►

budget is based on modest cost increases in most of the goods and services which the Association purchases and requires a \$5.00 increase in annual membership dues. Fees for registration, licences, transfers and examination assessments will also be increased. Little change is anticipated in the number of members.

On another subject, the passing of the new Engineering Act has required an overall review and revisions to the Bylaws to bring the Bylaws into line with the new Act. This major undertaking has now been completed by the Legislation Committee. Council spent considerable time going over the proposed revisions and will be recommending approval of the revisions at the Annual General Meeting.

As a final note of interest, the Association office is now moving, if not into the computer age, at least close to it. Recognizing the fact that our office equipment is somewhat outdated, the Executive Committee and General Manager investigated a number of possibilities for upgrading our typing and record keeping facilities. As a first step, a state-of-the-art memory typewriter has been leased with screen editing, disc storage and a variety of excellent features. A decision to lease or purchase a desk top computer for additional record keeping and accounting capabilities will be held in abeyance until some experience has been gained by the staff with the newly leased equipment and our requirements have been further evaluated.

Election Time

We have one member of one committee who, while generally keeping a low profile, becomes slightly vocal at election time.

He has an unusually oblique approach to federal elections and never casts his ballot on those occasions.

His argument is that he learned a long time ago to never argue with an unreasonable person so he feels it's fruitless to challenge 20 million of the same said people!

This is an attitude which fortunately is not prevalent. Responsible citizens of our land actively participate in the election procedure and generously donate time, effort and money in support of the individual candidates and parties.

This individual effort is combined with the work of untold thousands of others to produce the massive political movement in our country and give us the true democratic pro-

cess we all respect and enjoy.

Let's hope that there are not too many of these narrow-minded individualists who contribute nothing but complaints, and let's all get out and vote in support of the parties who have molded this great nation into what it has become today.

Cover Story

The name of the dredge in the cover picture is the Ospwagan. The lake visible on which dredging is taking place is Thompson Lake. The headframe in the background is T-3 Mine headframe. The dredge is a vessel requiring a captain and a standard seafaring crew. It has a rating of 12,500 horsepower and can remove material up to a depth of 40 feet. Its pump has a capacity of nearly 65,000 (U.S.) gallons per minute. Dredging will continue on a 24-hour basis throughout most of the year. Pit Mining is to commence in 1986.

Council Meeting

Council Meeting — June 18, 1984

By D. N. Spangelo, P.Eng.

The meeting was opened by the President at 3:30 sharp. The first order of business was approving the revised agenda to which a number of issues had been added. With some discussion the minutes, licences, engineering graduates, transfers, registrations, and accounts were approved. The next issue, the time of Council meetings, started the meeting rolling. Finding an alternate time suitable to everyone required a number of motions. After discussing many alternatives, Council finally decided on the second Thursday of each month at 7:00 p.m. "With No Food!"

It was motioned that a two or three year term of Manitoba's C.C.P.E. Director instead of the present one year term would be an advantage to gain national power. It was generally felt timing was more important. Therefore, Mr. Foster, Past President to be, was appointed as per tradition. The next issue was a general update on the various committees.

The first committee discussed was the Admissions Review Board. Mr. Speers announced that Mr. Waldman wished to appear before Council to discuss the ongoing mentor matter. After some discussion it was decided that the Practice and Ethics Committee should keep in touch with Council by reporting on a quarterly basis, as per their terms of reference. Mr. Fedorchuk then spoke on behalf of the Salary Schedule Committee. They proposed an 8% increase across the salary scale. The Committee used

as a base the national averages, Manitoba inflation rate, the Employers Salary Survey, and the fact that engineers' salaries of 1983 and 1984 are not keeping up with inflation. The meeting then paused while dinner was served, Chinese style.

The meeting started in short order again with Mr. Foster proposing licensing and registration of consulting engineering firms. He mentioned this was a hot item in other provinces. A motion was passed to have the Consulting Engineers Committee look into it.

Mr. Kane spoke on behalf of the University Liaison Committee. The Committee will be approaching Council for funds to set up a scholarship for an annual technical writing contest.

Mr. Foster reported that proposed trips by Council to Thompson, Flin Flon, and Pinawa will likely take place in September. A dinner trip to Brandon was to be arranged for June 28.

Recommendations by the Executive Committee concerning investments were approved. They proposed to invest in longer terms, but to wait a few months to buy since rates will increase.

Council discussed the benefits of the Canadian Engineering Manpower Inventory. Mr. Foster will try and meet with John McDougall of the Alberta Association, who has been working on this matter for C.C.P.E. The Executive Committee was asked to look at the use of a

Continued 7 ►

Editorial — continued

The Bulletin is, in effect, a newspaper in microcosm. But, unlike many newspapers it has no axe to grind, and it carries no torch for any particular special interest group. Its sole function is to improve the effectiveness of the role that the engineering profession plays in society.

I wonder how many of us, having read an issue of the Bulletin, have then indulged in the analytical process of asking ourselves some questions about this publication of ours. And having done so do we reach any conclusions. Some of the questions we might ask are:

—what is the main purpose of the Bulletin?

—does the Bulletin contain sufficient information on Council and committee business to keep us properly informed?

—should there be technical articles in the Bulletin?

—should more letters from members be published which might air different views on controversial matters affecting our Association?

—should the Bulletin contain information on activities, viewpoints, etc. of other engineering associations?

—should the format of the Bulletin be changed?

—who does and who should dictate policy on the Bulletin content?

—what suggestions could I make for improving the Bulletin?

This sort of exercise can be rewarding. Firstly it makes us think, and I have to believe that this is a pleasurable occupation for any engineer. But more importantly, it should make us ask the most important question of all — is the Bulletin effectively fulfilling its role as the major medium of communication between the various segments of our

Association?

Because that is exactly what the Bulletin is — our major means of communication between Council and the various committees and the staff and the membership at large. As such the Bulletin plays a very important role in our Association affairs. Of secondary importance is the fact that the Bulletin is distributed to other engineering associations across the country and our Association will be judged, to some degree, by the contents of the Bulletin.

The Bulletin is an instrument of communication. And communication is a two-way street. The Bulletin committee needs feedback. Any and all suggestions and opinions on how the Bulletin can be improved will be given serious consideration. Obviously, with some 2,700 members in a variety of disciplines and work environments there will be some widely varying views. Good! Send them in for consideration by the Bulletin committee.

The Bulletin is a forum for our ideas, our activities and our accomplishments. It is put together by a fine group of people — people who give freely of their own time to produce the publication. Give them your support — preferably in writing and give them constructive suggestions for improvements. If we do this, our publication will improve, and we will all benefit. WBM

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 honour.

—Emmet John Hughes

(in a speech written for
Dwight D. Eisenhower)

Council Meeting — *continued*

computer to link into a national manpower system.

The lack of representation by some areas of engineering on the Nomination Committee was brought up. Council agreed Messrs. Cross, Norrie and Clarke should bring forward recommendations for future years.

The Admissions Review Board brought forward a revised reference

form. The Board thought the importance of comments by referees should be highlighted.

The last issue was approving advertising in the University of Manitoba Engineering Year Book. After paging through last year's book Council agreed its image was improved and quite acceptable.

It was 8:00 p.m. when the meeting ended, a productive four and one half hours.

Report to Council Re: Unemployment Survey

Over twenty-eight hundred surveys went out to the membership. Twenty-six responses have been received. Twenty of the responses were received within a week of mailing. Sixteen responses were from Winnipeg, five additional from Manitoba, one from West Vancouver, and one from Whitehorse, Yukon.

Of the responses — ten were employed, six full time and four part time, but all wished to improve their engineering experience.

Those who sought assistance from Manpower numbered 13, from Technical Services Council, 14, from Personal Contact, 22, and advertisements 1.

Those who wished assistance in job search numbered 22, and with resume preparation, 23.

Those who favoured day or evening meeting numbered 5. Evening only, 9, Daytime only, 4.

A breakdown by faculties:

Mechanical	10
Civil	9
Geology	2

Plus 1 each for Electrical, Water Resources, Agriculture, Chemical and Industrial.

In view of the small response,

while it may be possible to extend some assistance, the responsibility for finding a job should remain with the individual member; he has time to carry on the job search, he is highly motivated to work at the task of finding a job, he knows what he can and cannot accept, etc. He is best and most knowledgeable representative.

In those cases in which the member is not his own best and most knowledgeable representative he should phone 949-2281 and attend two sessions by appointment at the Manpower Assistance Site, 393 Portage Avenue, Winnipeg. This site is between Edmonton Street and Hargrave Street. Sessions are held every Monday (except holidays).

1st Session — 7:00-8:30 p.m. or Tuesdays, 10:00-11:30 a.m.

2nd Session — 8:30-10:00 p.m.
E.A. Speers, P.Eng.

Some questions can be decided even if not answered. And it isn't necessary that one side be wholly right and the other totally wrong. It is enough that the scales of judgment be tipped in one direction. After a decision is made, one must go forward wholly committed.

—Louis Dembitz Brandeis
Associate Justice
Supreme Court of
the United States

Dr. Gwen Kalansky

By R. A. Kane, P.Eng.



Gwen Kalansky, M.D.

There have been some changes created to the revamped Act under which the A.P.E.M. operates. Changes are intended to improve things, and it is my pleasure to introduce one of the more outstanding changes, Dr. Gwen Kalansky, one of the two initial lay-members on the A.P.E.M. council.

Gwen comes to the Association with some very impressive credentials. The single greatest gift anybody can give to any group is to volunteer freely of their own experiences. A non-engineer has formed preconceived opinions which will in turn soften the naturally myopic point of view that a council composed solely of engineers would hold. Gwen says her greatest difficulty, so far, is defining what the profession of engineering is. Unlike law, medicine, pharmacy, etc. she sees the boundaries of engineering somewhat more amorphous.

Gwen is a Winnipeg born and raised girl. She graduated in Pharmacy from the University of Manitoba in 1970 and with that began a career as a pharmacist.

Simultaneously she also commenced another life as a wife to Nick Kalansky, who currently is the Acting Vice-President of the Professional Programs at the Health Science Centre.

In 1974 Gwen and Nick took a year off and did what we all wish we had done and spent the year as nomads wandering around Europe in a van. Upon their return Gwen returned to pharmacy as the Director of Pharmacy at the Misericordia Hospital. Within this profession she was president of the Manitoba branch of the Canadian Association of the Hospital Pharmacists and a liaison member on the Council of the Manitoba Pharmaceutical Association. During this period she felt that having a lay member or two would be healthy for the group overall. Before this happened in her tenure, another calling caused her to re-enrol in University in the faculty of Medicine in 1976.

She graduated in 1980 and spent two years residency at St. Boniface Hospital specializing in family practice. She opened her medical practice in the Tuxedo Shopping Centre August 19, 1982.

I really don't know how Gwen keeps everything going. In addition to being a doctor which by definition is a 24 hour per day calling she is a clinical instructor for the Department of Family Practice at the University of Manitoba, is the co-ordinator of continuing education for the Family Practice department at the St. Boniface Hospital, and to make matters more complicated she makes house calls!

I first met Gwen a number of years

ago through a mutual acquaintance, Nick, her husband, with whom I played hockey. Here she was, a budding M.D., barbecuing a bunch of great steaks in the middle of a very cold January night wearing an open parka and no boots. To resist catching a double case of pneumonia meant that she must be one fit person. She keeps up her

health by jogging, playing squash, playing golf and NOT SMOKING.

Meeting Gwen is a healthy thing in many ways. First the fact she is a medical doctor type person is obvious but her other attributes are even more rewarding. Her hard-working, no-nonsense ambition is a very welcome addition to Council which has elevated us all.

Brandon News

By Dick Menon, P.Eng.

One topic of conversation this summer in Brandon has been the weather — and we have had a lot to talk about. Not a day has gone by this summer without a thunderstorm or two. We have also had unusually strong winds and the temperature has gone up and down like a yo-yo. To be outdoors, one had to be properly clothed, and you either peeled off the excess clothing or put them on with the temperature changes. The annual Provincial Exhibition was held in Brandon in June and many of the evening outdoor concerts were cancelled due to the inclement weather.

Bob Foster, the A.P.E.M. President, contacted me last month to arrange a get-together for the Brandon members with members of the Council. This gave me an opportunity to contact many of the Brandon members for the first time. Don Hicks, who is presently in Alaska, was being transferred to the west coast. Bill Fotheringham and Glen Lawson were going away on holidays and Tom Donkersloot was going to a conference in Edmonton. To make a long story short, many of the members felt that July-August would be a bad time to hold a meeting and that a September meeting would provide a better turnout.

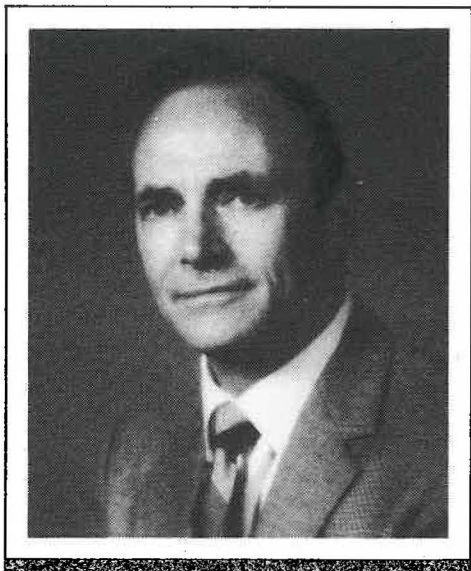
For the information of Brandon members, I will be in touch with everyone in September to arrange a get-together. I am grateful for the help offered by fellow members Floyd Butterfield of Simplot (728-5701 or 728-2320) and Don Solkoski of Hydro (727-9230 or 727-3695). With the help of Floyd, Don and the rest of you, we can possibly have a good meeting in September.

This summer, at the Board we are playing a bigger role in providing summer employment for nine students. Most of the students are carrying out research projects in water and sewage related fields. Rumor has it that Dave Shwaluk is expecting an addition to his family. Dave has enough family members to field a basketball or a hockey team and is now going for a baseball team. We are happy to report that Wayne Slack, who was within days of going to Africa, is still in Brandon. Africa's loss is our loss too. (I'm only joking, Wayne).

Once again I urge all Brandon members to contact me with newsworthy items for this column. I would rather talk about you (members) than the weather. I can be reached at either 728-0053 or 728-6500.

**Professionalism
Important
to New
Registrar**

William Mackenzie



We had the double pleasure of a luncheon with our new Registrar and General Manager the other forenoon. A double pleasure by virtue of having a free lunch and spending it with Bill Mackenzie P.Eng.

A conversation with Bill is a continuum of surprises, and one is soon impressed with the knowledge and verbal adeptness of our Manager-General. The suppressed verve is soon unleashed, and experience and knowledge are displayed with ease and a captivating bluntness.

Mr. Mackenzie is a derivative of the Isle of Skye and stresses that, although born very young, he is indeed a product of this century.

Being the son of a civil engineer, he was raised in the realm of some of the major projects of the day (Salter Street Bridge, Greater Winnipeg Water District Viaduct, Slave Falls Power House). Despite his ear-

ly experiences, Bill graduated from the University of Manitoba as an engineer and set off to make his fortune in the R.C.A.F. The stories of his battles and skirmishes are very entertaining but, sadly, came to an end when he graduated in the last class of the Commonwealth Air Training Program at the end of the war (2nd W.W. that is).

From that high-flying atmosphere, Bill moved underground with Hudson's Bay Mining and Smelting, thence to the Province of Manitoba Department of Highways. After a stint of freezing his eyeball onto a transit, Mr. Mackenzie joined the "Private Sector" and spent time in Montreal and Toronto. But Winnipeg is Bill's "Sunshine Capital of the World" and his personal "Centre of the Universe".

Bill met his wife, Joyce, at a Wildewood Club dance and, after

undisclosed years, she remains his "best friend"! Mr. Mackenzie's pastimes include woodworking, furniture making, playing Boogie-Woogie on the piano, Trivial Pursuit and serving as repairman for (seemingly) helpless ladies in and around Fort Garry.

Mr. Mackenzie's strength of conviction is revealed when discussing the A.P.E.M. His short association with the Council has yielded the very positive perspective that "individually and collectively they have the interests of the engineering profession and the Association at heart".

Self-described as "blunt" and "to the point", Mr. Mackenzie is informative, always entertaining and is truly wise beyond his height.

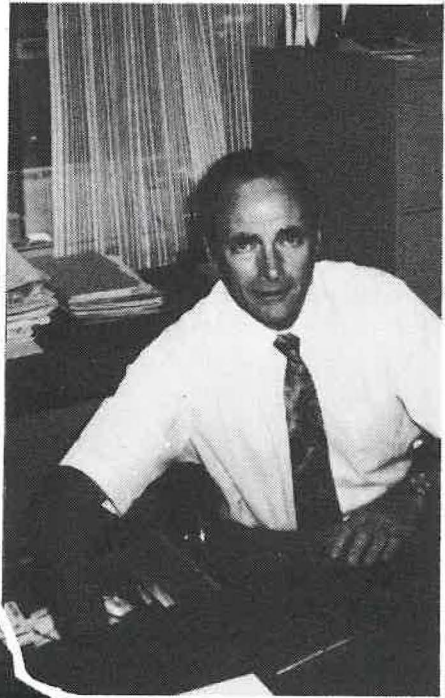
In the dress department, if an ar-

chitect is a 10 (on a scale of 1 to 10) and a consulting engineer is a 9, then Bill Mackenzie is 8+).

Bill had honed up on the Act and the By-laws before he started on the job, so half an hour after he arrived he was pretty well on top of things, and it's full steam ahead ever since.

Professionalism and having the Association operate in a positive and non-political manner are high on his list of priorities, and we may be sure that when he is representing this association that is the impression that will be conveyed.

The members of the Bulletin Committee wish him well in his new job, and we look forward to working with him in forming an engineering team that works always toward the best interests of the Association. J.L.



Bill Mackenzie at work at his new job.

Thompson Area News

By A. D. Murchie, P.Eng.

With temperatures peaking and lethargy maximizing it has been an extra challenge at this time to muster comments for the important cause of engineering.

A few stalwarts, not found at their cottages, have been equal to the task however, and it has been helpful to have experienced an important event here in Thompson. We have been honoured with a visit from His Royal Highness Prince Phillip, Duke of Edinburgh. There were a few engineers in attendance at the Duke's reception. Bill Clement, president of Manitoba Division, Inco Ltd., and his wife Pat were guests. Brian Clements, S&R Rounds project engineer for Inco, and his wife Jean were also among the distinguished guests. Brian, a city councillor, along with other councillors represented the city. This was a second time introduction to the Duke for both Brian and Jean and the thrill was equal to their previous intro although they noted that the Duke was not quite as youthful as the earlier occasion in 1949. I guess a couple of years make a difference. Brian's suggestion to the Duke that he break camp and divert for some local fishing was well received but an earlier commitment to proceed southward and open the Olympic Games won out.

Bob Cotterill (apologies for misspelling last month), city engineer, toiled behind the scenes preparing the dais and grounds at City Hall for the big do and deserves high praise for his diligence in 'engineering' such a good show.

None of our attending engineering brethren are officially classified as being 'all wet,' still some doubt was raised when prevailing breezes

carried spray from the water bombing display into the crowd.

Inco refinery engineer Dave Phelan brought me up to date on engineers in bridge (duplicate that is) with a report that he and George Stewart, Inco T-1 Mine engineer, attended the Flin Flon sectional bridge tournament for pairs and teams of four, advising me that they placed respectably with two firsts, a third, and a fifth (not scotch) in pairs and carried off a first and fourth in team play. Two budding potential engineers in their company were Cathy and Wayne Stewart, fourth year engineering students at Ottawa University, where they are immersing themselves in the chemical engineering discipline. We wish them success in their final year and expect in return some acid remarks, otherwise they will be underserving of their discipline.

Also in attendance at the bridge tournament were John Ross and John Munson, engineers with H.B.M.&S., with 36 pairs selected from areas as distant as Edmonton and Thompson. I expect there were others I missed mentioning. So be it.

Dave Phelan made points with St. Peter during the month of April this year when he assisted Archbishop Du Machel on his northern tour of his parish. Dave flew the Archbishop from Thompson to Lac Brochet and from Leaf Rapids to Thompson. I must be quick to state that Dave did this as a public service. Dave is admirably equipped for the job coming complete with his own private plane, not yet having acquired angelic wings for his benevolence.

The Inco Refinery is a hub of construction activity these days and

Ralph Cook, refinery manager, advises that the transfer of nickel rounds manufacturing at Thompson is proceeding to schedule. Many related improvements are also being carried out in the refinery.

And on a further cheery note a new tourist attraction is the Thompson Open Pit display and viewing area at T-3 minesite. Here, visitors

may view a scale model of the proposed Thompson Open Pit and from the observation deck can view the dredging operation. If you're in the area get a new perspective and take in the display.

Well, that's all I can dredge up for now.

Your roving northern reporter,
Alex Murchie.

Mir

We have been struggling for some time now with women's liberation and all the adjustments which should go along with it. It is a sociological evolution and long overdue.

However, one of the most gender splitting and sensitive facets is the use of Miss or Mrs. or Ms. It is still very difficult to know but regardless of that problem, the particular brand adopted differentiates between the dominated and the dominant (at least to hard-core suffragettes). It is unfortunate but by association, nevertheless, true.

Men have a difficult time coping with this problem largely because they are, for the first time, not involved in this very major stage in human evolution. I don't wish to imply that the hairy half are not in agreement and support the movement 110% but the poor suckers are just not involved except, as counterpoint.

What these poor chaps need is a rallying call, a banner, a battle cry. To create a totally positive feeling, they must feel involved and not just sitting in the grandstands shouting support.

What must be done is wipe out the Mister, Master, Sir, Messrs. nonsense and replace it with a liberated label — a shortened accolade signifying long-sightedness. I would sug-

gest Mr. which externally appears old fashioned but is actually pronounced "MIRS." This matches the double lettered female designation, has the same vocal impact and offers a unique format.

The external form remains identical to the original Mister, just as the men who use it remain, exteriorly speaking, the same, but within its two letters hidden from view and revealed only when spoken is a new positive and upright attitude. The same with the males of equality, the face revealed to the world is the same but the attitude is certainly modern.

I only hope that the Miss is not allowed to become Misster.



The long and the short of it — Vice President Frank Roberts and President Bob Foster.

Call for Papers 1985 CSCE Annual Conference

The 1985 C.S.C.E. Annual Conference is to be held May 29-31, 1985 in Saskatoon, Saskatchewan. Papers are invited in the following areas: Structural, Hydrotechnical, Environmental Engineering, Transportation, Construction, Computer Applications. Three copies of a 500 to 600 word abstract in English or French should be submitted by October 15, 1984 to: Professor J. M. Wigham, MCSCE, Chairman, Technical Program Committee, 1985 C.S.C.E. Annual Conference, c/o College of Engineering, University of Saskatche-

wan, Saskatoon, Saskatchewan Canada S7N 0W0. Authors will be notified by December 15, 1984 of the preliminary acceptance of their papers. Completed camera-ready manuscripts will have to reach the Technical Program Committee by March 1, 1985.

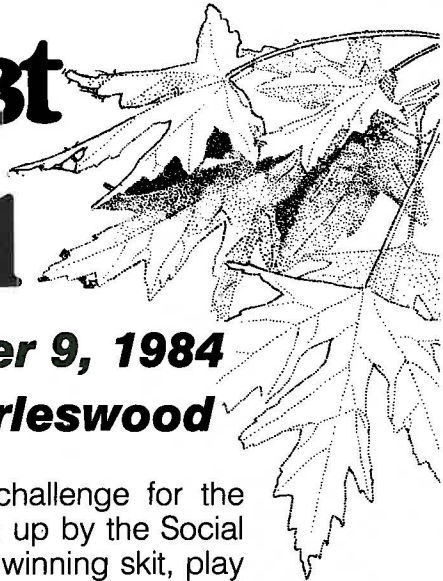
Nothing in life is to be feared. It is to be understood. —Marie Curie

....and then feared. —Joe Lucas

....and then eaten. —Spot & Grit

....and then dated. —Bruce Crawley

Cabaret Fall Social




Friday, November 9, 1984

Vasa Lund, Charleswood

The Bulletin Committee challenge for the Drama Cup has been taken up by the Social Committee as the first for a winning skit, play or whatever. Which committee will be next? Will the Engineers' Wives take up the cudgel and beat the Bulletin Committee?

See you there! November 9th — Vasa Lund

Professor
Eng's



**SCIENCE
CORNER**

Good day and welcome fellow students of life to P. Eng's Science Corner where we take a slice out of time to examine the state of the world and the wonders which make it run.

Today we have a question from that dedicated reader and Bulletin staff member, Kenneth L. J. Webb, P.Eng. Mr. Webb (Spider, to his friends) posed his personal perennial puzzler "Where does the white go when snow melts?" This may, at first glance, seem a bit trivial and, to those without much between the head handles, might be dismissed too readily as one of those self-evident realities beyond comprehension. Further thought shows this to be a part of nature and, as such, totally subjugated by natural laws. A cursory glance at nature's law book brings the applicable rule to light. i.e. "Conservation of Energy."

Once the rule is known, it is very easy to see the quizzical quagmire of a quandary quake before the questioning mind and blossom forth with the quintessence of truth — "Where does the white go when



snow melts?" Where else, but where candles go when they go out! This creates a perfect balance of energy and the Universe continues as it should.

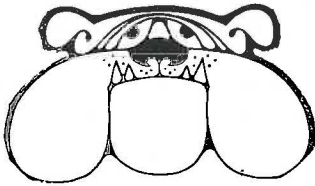
Thank you and good day.

No Longer Members

As of July 1, 1984, the following are no longer entitled to practise professional engineering in the Province of Manitoba: B.A. Andrews, G.P. Arbez, J. Billings, A. Brown, R.J. Brown, G.J. Caragannis, J.T. Cawley, R.E. Davies, T.R. Drennan, B.A. Ferguson, C.G. Fritz, B.M. Gavrailoff, J.G. Harkness, R.J. Johannson, D.W.T. Lowry, W.H. Lui, B.A. McCarty, C. Mills, J.R. Muir, D.D. Peacock, R.W. Poon, D.R. Reichert, D.E. Reid, H.I. Senger, J.P. Sinclair, A. Sippola, B.S. Stewart, Z.J. Tabak, R.I. Tibbs, B.M. Tuba, R.A. Walker, J.R. Wells, M. Washchshyn, S. Woloschinski, E.A. Wolovich.

The following have resigned their membership in the Association effective June 30, 1984: B.P. Aggarwal, G. Arksey, A.G. Bereza, R.J. Burnside, A. De Francesco, P.A. Hahn, A. Masi, T.J. Moorehead, H.R. Stockford.

Dog Gone It



A good dog is great, but a trained dog is even better. With this in mind, training book in hand and hound on leash we set forth to teach an old dog new tricks.

The first order of business is teaching recall, which means that your obedient cur returns immediately on command. Two leashes and one dog are required for this training. The leashes are 8 and 40 feet apiece and are used at random. At first the dog is set on the 8 foot leash and, when commanded to return, is actually reeled in to reinforce the order.

Once this idea is suitably implanted, the 40 foot leash is attach-

ed. This gives the dog up to 13 yards to react to this new trick of "Come." If not completely impressed, the dog will continue to run away at least up to 40 feet. At that point, things get very interesting.

The leash becomes hyper-tight, the collar constricts, the neck elongates, the eyes and tongue protrude, all four feet leave the ground, tail passes nose and the fleeing furball flips flat on his back.

Needless to say this does make some impression.

After three weeks of this work, the dog was completely trained. Regardless of time of day, temperature or terrain, my dog reacts instantly to his training. No matter where we are when the hound is let loose, the silly fool still runs off at full tilt. The only saving grace is that at 40 feet the fleabag leaps in the air, sticks out his tongue, bugs out his eyes and throws himself on his back.

Blast-Off, Eh

The Space Program drives me crazy!! Besides laying this universe open to our footsteps, these same Spatial Dudes have given us one of the greatest watch-phrases since the Dark Ages. If I've heard it once, I've been hammered with it eleven dozen times. And of course this catch-all debasement of modern technology is none other than "If they can land a man on the Moon, then why can't they etc.?"

What drives me right up a tree is the fact that these silly people have no intention of curing the common cold, producing a 100 mpg car or even building a better mouse. All they want to do is complain that no

one has sweated enough yet to produce a better world for them.

I think the next move of the Rocket Guys should be to repair their damage and wipe out the world-wide whine "If they can land a man on the Moon." J.L.

Engineering Graduates

S. M. Pellerin; B. C. Danielson; A. T. Dolovich; A. M. English; C.Y.K. Leung; D. S. Pich; L. G. Crowe; R.J.R. Osiowy; C. W. Vince; G. D. Guest; D. L. Sigurdson; D. M. Weiten; J.S.D. Knysh; D. R. Morgan; L. H. Arendt; J. M. Bethge; J. P. Ewasiuk; D. T. Paradis.

Letters to the Editor are the opinions of the authors and not necessarily those of the Bulletin Committee or Council.

Letters

Dear Mr. Lucas:

Please note a misleading statement on page four of your June/84 issue. Under "Registration Requirements," while you may have quoted correctly from the synopsis, we in fact have a three-hour examination in Professional Practice which must be passed unless the applicant

- a) has been a registered member of another Canadian provincial association for five years prior to date of application or
- b) has passed a similar examination in Professional Practice

for one of the other provincial associations.

If the applicant has been exempted from the examination, he/she must pass a take-home questionnaire on the Act, Bylaws and Code of Ethics.

I recently advised all of the registrars of the above by letter.

Perhaps you wouldn't mind publishing a brief correction. Thanks. Sincerely,

*A.P. Weseen, P.Eng.
Manager, Professional Affairs
Association of Professional
Engineers of British Columbia.*

TUNNEL VISION No Light at the End of the Tunnel

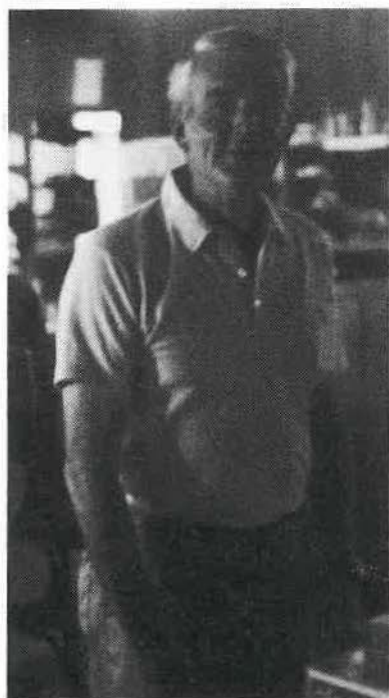
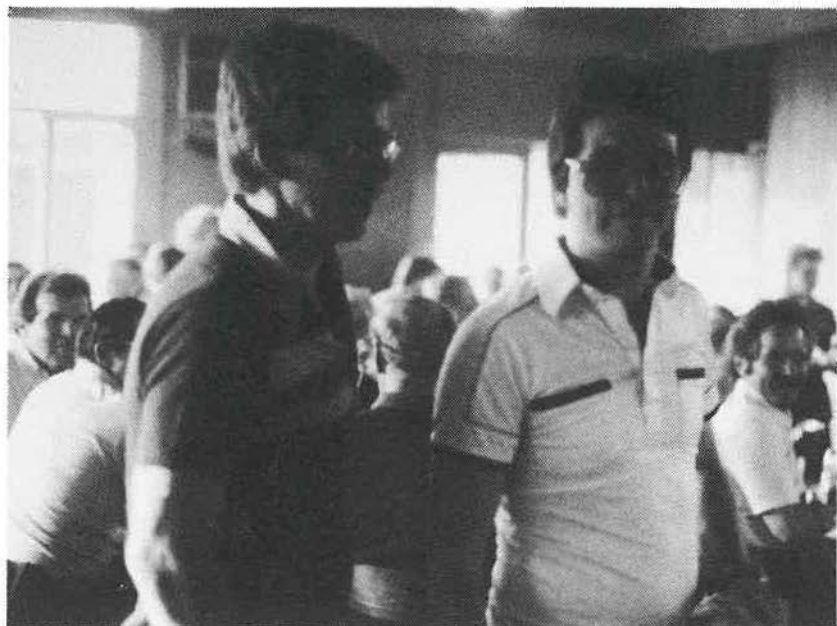
Most of the major cities employ tunnels for major trunk sewers. It has been tried in Winnipeg with mixed results. The problem of tunnelling in Winnipeg is because the laser beam travels straight (it has something to do with the Principal Meridian being located in Manitoba). Attendance to the Annual General Meeting of the Tunnelling Association of Canada may be of interest to our members who do not wish to see another bank vault.

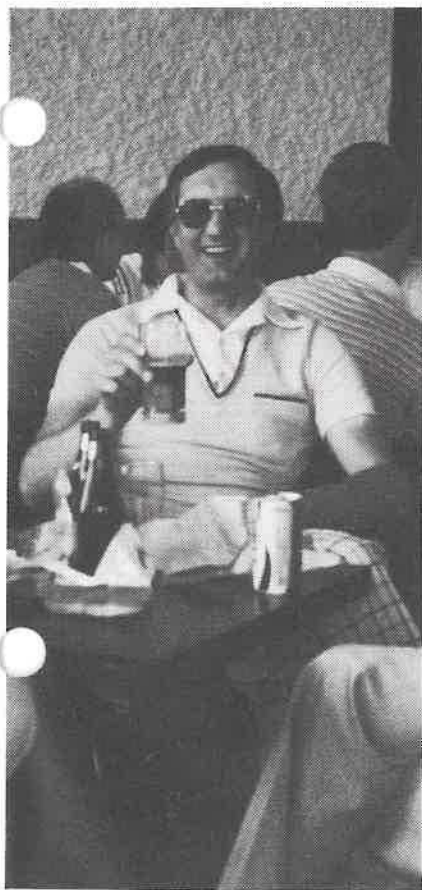
The Tunnelling Association of Canada is holding its Annual General Meeting in Vancouver on October 11-12, 1984. For further information contact: Mr. G. Duddy, c/o B.C. Hydro, Box 12121, 555 West Hastings St., Vancouver, B.C. V6B 4T6.

Licences Issued

Geza Lantos (Ont.); Peter Cairns (Alta.); R. A. Filgate (Alta.); Kenneth Koo (Ont.); George McCormick (Alta.); J. J. McMahon (Sask.); E. O. Mustonen (B.C.); V. S. Platek (Que.); J. A. Warkentin (B.C.); D. J. Aitken (Alta.); R. G. Cawker (B.C.); N. W. Kopp (Alta.); W. A. Marsh (B.C.); C. P. Wee (Alta.); R. J. Grafton (Alta.); E.H.E. Halewijn (California); J. D. Hubbert (Ont.); W. B. MacKay (B.C.); J. E. Otter (Ont.); Jacques Sequin (Ont.); G. C. Wilkinson (Ont.); G. M. Horel (B.C.); E. F. Krauthem (Sask.); G. F. Lewkowich (Alta.); D. A. Ostapowich (B.C.); C. E. Palmer (Sask.); C.G.A. Straub (Sask.); D. C. Batchelor (Ont.); A. F. Broderick (Alta.); R. K. Cameron (B.C.); J. D. Hollis (Que.); B. J. Lukes (Ont.); E. C. McRoberts (Alta.); W. S. Taras (Ont.).

At the Golf Tournament





Socializing after the golf tournament.

ANNUAL GENERAL MEETING



October 26, 1984
Holiday Inn (*downtown*)

PLAN NOW



**Curling
Bonspiel**

**HIGHLANDER
January 15, 1985**