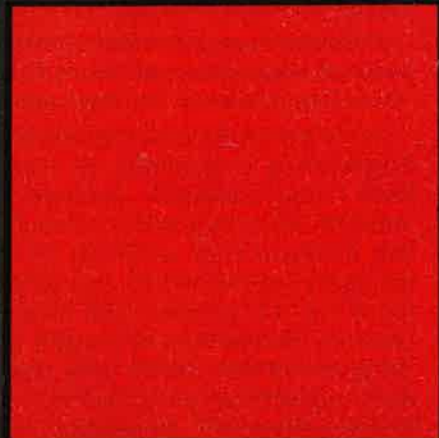
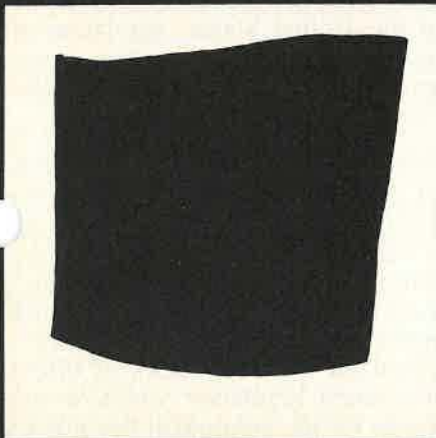


Bulletin

June

78

*The
Manitoba
Professional
Engineer*



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

WINNIPEG, MANITOBA, JUNE 1978

President's Message

by A.W. Gilliland, P. Eng.

From time to time it is helpful to reconsider some of the fundamental concepts which form the basis of our ongoing affairs and which, in many instances, we take completely for granted. The act of "taking for granted" is, we would hope, a result of concentration on ongoing activities, but the fact is that when a fundamental concept is handled in this manner for a considerable period it is often forgotten and not highly valued, when it should be enshrined and respected by all.

One such concept which forms the basis of Association affairs is that of "Self Regulation of the Profession".

A review of the development of the Engineering community in Canada shows that technical societies provided the qualifying bodies to establish and maintain high standards of their members prior to any Provincial legislation on the subject. The technical societies themselves developed from the needs of industry to train and update engineering personnel in a developing economy. As numbers of Engineers increased it was not long be-

fore a regulatory body with public accountability was proposed and supported by the technical societies themselves. All this is a familiar pattern experienced in other developing industrial countries.

At this point, however, the Canadian experience differs from that of other countries.

Canada is unique in the development of a self-regulated Engineering profession. Although other senior professions are self governed in Europe and the United States, regulation of Engineering in those countries is accomplished by other means, typically by direct government regulation.

We are indeed fortunate in Canada that the early leaders of our profession were far sighted enough to learn from the other professions and bring into being provincially legislated self governing associations with which we are familiar. These far sighted Engineers recognized the drawbacks of direct government regulation which would provide for the granting of licences to practise Engineering, but which would

provide little scope for the individual to contribute either to the establishment of standards or to the operating procedures of the regulatory agency.

In place of that bureaucratic and impersonal system we have inherited a concept of self regulation which provides for the influence of individual members on the development of standards, practices and policies of the regulatory body. Our Associations provide for professional self determination in a representative, participatory and democratic manner. We enjoy a degree of insulation from the provincial political process, and are thus able to communicate as an independent body on matters of practice, discipline, education, public affairs and legislative interest. Through the Association we are able to assist members in specific areas which, in turn, results in improved professional competence and improved service to the public.

This is the "concept" which provides an ongoing base for the profession of Engineering and should serve also as an inspiration to all Association members.

By the Engineering Profession Act the Association is charged with three major responsibilities. These are: the admission to practise of qualified persons, the establishment of standards of admission, and the establishment and enforcement of standards of conduct. The method of discharge of those responsibilities will be developed by members of the Association acting on the concept of self regulation. In the long term the unceasing assistance of all members is necessary to provide for an adequate response to that continuing challenge.

* * *

Music is love in search of a word. — Lanier.

Another Council Meeting

By A.G. Stephen, P. Eng.

A meeting of Council was held on April 10, 1978 at 3:30 p.m. in the APEM premises.

The meeting was not underway until 3:40 p.m. however, as six of the Councilors arrived after the meeting time. Accordingly this allowed for some good-natured conversation prior to getting down to the serious business. Walter Saltzberg mentioned to this reporter that he has all the vices, and his Doctor has told him to quit smoking, eating and drinking. John Lewis made particular efforts to determine the most advantageous chair around the table to avoid the three smokers. Most late arrivals commented on the large banner of the Association of Architects dominating the feature wall of

the boardroom, only to be told that 40% of the rent obtains 40% of the space.

Once through the items of accounts, licences, engineering graduates, transfers, registrations and reinstatements, George Spencer introduced a motion that the Council adopt a policy whereby a person ceases to be a member of a Committee after the absence from more than three consecutive meetings without consent. George noted that members of Committees do not appreciate coming to the APEM office at noon just to have a sandwich with one or two other fellow committee members when there is no quorum. There was considerable discussion ranging from leaving it flexible to making the

respective Committee Chairman accountable. A motion to defer the matter to the next meeting was passed in order to allow a polling of the Committee Chairmen.

Walter Saltzberg introduced the proposed new reference form which is a requisite for an application for registration. The purpose of the form is to make the referee's job easier to proceed through the thought process of the applicant's eligibility and to make the decision regarding registration. The proposed form was adopted for use.

An interesting debate took place on the issue of Council's resolution of January 9, 1978 not endorsing the Canadian Council of Professional Engineers (C.C.P.E.) resolution to have engineers employed by the Federal Government registered in their Province of residence accepted by other Provinces. The intent of the C.C.P.E. resolution is to encourage registration by engineers employed by the Federal Government even though there is considerable doubt that an engineer employed by the Federal Government is subject to the Engineering Profession Act of Manitoba. The APEM Council has obtained a confirming legal opinion on the above matter and therefore a motion to sympathize with and endorse the C.C.P.E. resolution was carried.

There were some Councillors who voiced objection to the concept that the Treasury Board would pay the fees of Professional Engineers employed by the Federal Government. A motion to request C.C.P.E. to express such objection to the Federal Government was defeated.

There was a pleasant break for sandwiches and cookies at 6:00 p.m. Any Councillor desiring coffee was required to duck under the rubber tree

plant. John Lewis made mention of the fact that ashtrays are there to deposit the aluminum foil covers of the pieces of Swiss Cheese.

The main uncensored item following the break concerned a report of Andy Gilliland on a proposed Government Liaison Committee that would work towards two long range objectives of improving communication with Senior Civil Servant-Engineers and to meet with Elected Representatives of the Province to present a Brief in a manner similar to Alberta and New Brunswick.

A motion was carried to initiate a luncheon and that the feasibility of the proposal be discussed with Elected representatives.

John Lewis raised the question of Computer Persons who may be loosely defined as non-engineers but in the field of software engineering. It was agreed that an information paper should be prepared by Mr. Lewis on the subject and there were several suggestions of people who would be able to assist or provide resource material.

The meeting adjourned at 8:00 p.m., which is one half hour past the objective.

* * *

The bees got their governmental system settled millions of years ago, but the human race is still groping. — Don Marquis.

Licences Issued

D.J. Belshaw (Ont.), D.W. Hayley (Alta.), W.R. Swain (Ont.), Z.L. Szeliski (Que.), A.J. Walker (Ont.), W.D. Adams (Ont.), D.W. Brown (B.C.), J.M. Douglas (Ont.), W.H. Howell (U.S.A.), N.W.E. Lee (Ont.), J.J. White (Sask.)

Council Report:

By O.A. Rogers, P. Eng.

Council met at 3:30 on a dull, rainy Monday, May 8, whose weather generally suited the tone of early discussions. Several Councillors were absent with previous commitments, however Fred Jost gave up a day at the lake to attend, either being very keen, or heeding the weather forecast. Our Managing Director was the only SMOKER present, (with Walter Saltzberg absent in the near West), and Terry attempted to cloud the atmosphere to make up for Walter's absence.

Early items received unanimous approval, including agenda and minutes of the previous meeting, with Ted Glass picking up a spelling error "just to prove he had indeed read the minutes": The financial report was passed with little discussion, (councillors obviously accustomed to dealing with much larger amounts?)

Licences, transfers, registrations, etc. passed uneventfully, but a round table report from the Liaison Councillors got hung up on the corners. In true Canadian fashion, Council decided to stay out of internal University politics, despite the apparent inequity in the structuring of funds as it affects the Faculty of Engineering. Dick Johnson arrived at 5:10, after most of the fun was over, (or had he wisely been listening at the door?). It was finally decided to set up an Ad Hoc Committee chaired by our President to advise the University of the Association's position, and respond to the funding problems of the Engineering faculty.

J.W.J. Lewis presented an interim report with respect to recognition of 'Computer Persons'. The ensuing discussion allowed most members to reveal their ignorance of the subject and

phrases such as 'hardware', 'software' and 'protection of the public' hung heavy in the evening air mixing freely with smoke from Councillor Klassen's pipe, unlit until now. A position was finally adopted, redolent of teamsters in the early years of the internal combustion engine, i.e., "they won't go away, but what do we do with them?", and referred to the Safety Committee.

A report from the Legislation Committee immediately followed sandwiches and coffee, the latter received more favourably than the former, and the report (not the sandwiches) tabled for reconsideration next meeting.

J.W.J. Lewis praised the President's message from the April Bulletin as it "contained a couple of items stolen directly from his (Lewis') election platform". The President accepted the praise as his due.

President Gilliland reported on his attendance at the A.P.E.O. Annual Meeting, and told of a few of the things he 'picked up in Ontario'. The meeting closed on that note, at 7:50, this reporter's first chance to see Council in action.

* * *

One must have a good memory to be able to keep the promises one makes.

— Nietzsche.

Engineering Graduates Enrolled

D.H. Beyak, J.C. Linnay, J.D. Miller, H.S. Roopra, M. Simson, K.S.K. So, W.F. Popiel, P.Y.C. Chung, J.T. Moelich.

The Bulletin Examines The Board of Examiners

A closet opera singer, who gave up golf because of all of its frustrations, hardly sounds like the description of a man who chairs the committee that is described as "The Strong Arm of Council." The Board of Examiners is a committee of 14 members chaired by Myron Musick who must review the academic credentials of each applicant who does not have an accredited degree, ensuring the candidate is academically qualified.

In the course of a year the Board of Examiners would have to review approximately 40-60 candidates who have received their education from all sorts of different places in the world. They must stay abreast of the accreditation of each institution of learning beyond the senior matriculation level of all countries in the world. They rely on information they get from the Canadian Accreditation Board of C.C.P.E. and the co-operation of similar groups of the other associations.

Even with this myriad of information, people still try to beat the system by hook or by crook. One applicant decided to go to court accusing the Board and Council of all sorts of dastardly things but the courts ruled that the A.P.E.M. by law is the sole governing body to judge the status of any applicant. Another fellow who decided to go the route of media hysteria found that even that kind of pressure is to no avail and went home.

The Board of Examiners unlike its counterpart in Ontario, who have a full time staff, are volunteers meeting between 4 and 6 times a year. Their meetings usually have 100 per cent attendance with T.W. Algeo and Joan McKinley of the A.P.E.M. staff sitting in too.

A couple of applicants who have not applied, but would be rejected were they to, are William Lear (of Lear Jet Fame) or Thomas Alva Edison. The Board is rigid on the standard it is charged with maintaining. These people would not qualify academically. While Council has ultimate authority it relies exclusively on its Board of Examiners to determine whether the applicant qualifies academically.

To the best of Myron's recollection only one applicant got partially through the screening process, with improper documents. Apparently the individual involved had very good credentials but once he got on the job there was doubt raised. Further investigation found that he had borrowed some details on his education from his brother and his application for assessment was quickly terminated. RAK.

Herbert Haultain — 1869-1961

A recent article in the Toronto Star featured the life story of Herbert Haultain. Born in England in 1869, he spent his early life in India before moving with his family to Canada in 1875. Completing his education in Toronto, Herbert Haultain graduated as a Civil Engineer in 1884 and went on to become a prominent figure in Mining Engineering.

Starting his career as Manager of a tin mine in Bohemia at the age of 21, he went on to the running of mines in many countries before again settling in Canada some 20 years later. Shortly after his return, he was appointed Professor of Mining Engineering at the University of Toronto.

During his lifetime, Herbert Haultain

made many contributions in the field of mining engineering, but steadfastly refused any honours that people wished to bestow upon him for his accomplishments. As a result, he is little remembered today, some 17 years after his death at the age of 93. If for no other reason, Herbert Haultain should be remembered by every Canadian Engineer for one idea which touches the life of every one of them. He gave the Engineers in Canada the Iron Ring.

Proud of the work that Canadian Engineers were doing, he wished to create a form of ritual comparable to the Hippocratic Oath of the Medical Profession. In 1925 he solicited the help of Rudyard Kipling to compose the ritual for the ceremony which carries on to this day. At universities across Canada, young graduating engineers repeat the words that Kipling wrote into Herbert Haultain's "Ceremony of the Calling of an Engineer." — L.F.S.

We regret to record the death of George McDermid, P. Eng.

No-Nonsense Committee

In keeping with its new policy of reporting on what various committees are doing, or seem to be doing or are not doing, a reporter was dispatched to a meeting of the Legislation Committee. To use the vernacular, this Committee is really where it's at! The Committee is the dream of all Chairmen or vice versa. There are seven members on the Committee. The only one who was absent had advised the office, in writing, that he would be out of town and unable to attend.

The Committee had been asked by

Council to study the matter of licensing of non-residents and make recommendations to Council. Gordon McLure was the Chairman. When Claude Wright, Jim Hicks and George Durnin took their seats and a quorum was present, Chairman McLure declared the proceedings open. Ed Lach and Al Myska slunk quietly in two minutes later. Fred Jost, the Liaison Councillor, was in attendance looking wise as Councillors should and speaking when spoken to. Terry Algeo briefly explained the background and delineated the problem. If anyone had any proclivities, as we reported were plaguing the Social Committee, they were kept under wraps.

No one on the Committee ventured an opinion on anything but licensing. All opinions were well-considered and intelligent. One wondered if one had accidentally strolled into a board room on another planet. Here indeed was a model for Members of Council.

One can't help but wonder if this group is for real, or have they some sort of evocative powers not shared by ordinary mortals. This is pretty dry stuff they deal with. They flip through the Act, the By-laws and the Code of Ethics as if they knew their way around, and most unusual of all no one speaks unless he has something worthwhile to say.

It was only after adjournment and when the members were getting into their coats that any levity surfaced. A member of staff asked what action the Legislation Committee was likely to recommend if, (as was the case reported in the Winnipeg papers about a member of another profession) an APEM member got involved in some promiscuous activity. Action would be taken, was the immediate reply, if the offender had committed an indictable offence. What, asked the female staff member, if the offence was con-

siderably less serious? Following an exchange of telephone numbers, staff members went back to work and Committee members headed for the elevator.

There it was. The ideal meeting. Surely a reverie, and the alarm clock would soon jolt us back to reality. — S.J.A.

* * *

Truth is as impossible to be soiled by any outward touch as the sunbeam. — Milton.

As good almost kill a man as kill a good book: who kills a man kills a reasonable creature, God's image; but he who destroys a good book kills reason itself — Ibid.

Buenos Aires Newsletter No. 1.

It was very nice to see the names of Haverty, Marriott, Saldat and Welter in the February issue of the APEM Bulletin. Our 4 families arrived in Argentina early in December. Despite sunburns, Montezuma's revenge, house hunting and furniture buying we have managed to do some work.

After the very hot and humid summer months of January, February and last December, the sun in April is setting earlier here and at night the temperature drops to the high 60's — good for sleeping. Many trees and bushes (jasmine, oleander, jacaranda, roses) are still in full bloom and the grass must be cut every week.

Despite the fact it was much too hot to play golf in December and January we've been unable to play since, because our sea shipments from Winnipeg have just arrived here, but have not been delivered to our homes. The consolation will be that we can play all winter here.

Buenos Aires is a huge sprawling city of about 9,000,000 people and most of them are crowded into the thousands of downtown apartment buildings. Haverty lives in Villa Belgrano, a small but picturesque town near Cordoba, because he works at the Site of the Candu Reactor. Marriott, Saldat and Welter live in San Isidro, a large suburb outside of Buenos Aires. We drive about 22 Km to work every day, and it is like being in a road race. Only Paris traffic could compare with ours here. It's just a mad rush to get wherever you're going. There are very few big cars here; most are locally made Fiats, Peugeotts and small Fords and Chevs.

Our office is located in the micro-centre of Buenos Aires on a street named Florida. No vehicular traffic is allowed on Florida and at noon hour especially, you can see at least 20,000 or more people meandering there.

The earthquakes which you probably read about in the papers occurred many Km northwest of B.A. Some people said that they felt some of the taller buildings sway.

We've all settled into our temporary homes here and will try to get the Candu Reactor built over the next two years. We all have very nice homes; each is most different in design and very comfortable. Each has a swimming pool in the rear. Some have banana trees or palm trees in the garden, plus all the other tropical plants and flowers.

The cost of living rose about 20% this year to date and still is not slowing down. There are compensations, however, as the meat here is quite a bit cheaper than in Winnipeg — a 5-6 lb. tenderloin of beef is less than \$10.00. Hamburger meat (without fat) is about 90c lb. One litre of gin is still less than \$2.00. A 35 oz. bottle of Tia Maria is

about \$3.00. Vegetables are in good supply and good tasting. Gasoline for cars has just risen to about \$1.40/gal.

Any Manitoba visitors to B. A. should be sure to phone us and if you've never been in a road race we'll teach you how to dodge taxis, buses, cars, trucks or whatever else is on the way to work and home.

Hasta Manano de Buenos Aires, Argentina.

Your Argentina Correspondent
Birdie King Ed Welter.

P.S. I presume that Bill Greenfield had to go to the land of TUK to receive his honorary degree. Was it 99 below in the shadow of the pole, and did he clasp his alma mater to his soul.

Brandon Area Report

By E. Tymofichuk, P. Eng.

On March 10 at the Canadian Inn, a well-attended luncheon audience was treated to a most informative slide presentation by G. MacGregor on Nuclear Options for Manitoba. The next and final function for this year is planned for June 8 in Brandon.

Council recently approved the Committee membership for 1978. New Committee member is Bob Kury. Ted Glass (liaison member), Dennis Simpson, Jim Ross, and Ed Tymofichuk continue as members for 1978. We hear continuing rumors that Jim Ross is leaving Manitoba. We will be very sorry to see him leave our community.

Floyd Butterfield is back in Brandon with Simplot Chemical Co. Ltd. Welcome back and nice to see you at our meetings. We also welcome O. Pedde, new Regional General Manager for M.T.S., to Brandon. J. Stibbard of City of Brandon Engineering Department is a new member of A.P.E.M. See you at our next meeting.

C. Hughes has been acting as mentor for W.J. Muzyłowski, Engineering Graduate with Reid Crowther in Brandon. This is a new area of activity for experienced engineers in Brandon; we expect this to be an on-going program, dependent on the number of Engineering Graduates in our area at any given time.

Manscett have advised the Brandon committee chairman that they will be out in Brandon on a public relations tour in mid-June. They are in the process of contacting and advising Brandon companies and employers of Manscett members and prospective members of their visit, time, location etc. Manscett wish to develop their services to the rural communities so that rural members obtain as equitable a return as their counterparts do in Winnipeg.



Fred Kemp in his prize-winning costume at the Mardi Gras Ball.

Symposium On Professional Liability

By T.G. Miller, P. Eng.

Besides sharing office space, the Architects and Engineers associations respectively and inclusive, embarked on another rare demonstration of co-operation. On May 12 and 13, 1978, several Architects and Engineers gathered in one room, centre of John A. Russell Bldg., to discover why the other group has been botching up all those contracts lately. This event was sparked by a couple of lawyers, no less, who evidently wanted to drive home the principle of "See your friendly lawyer when you smell trouble brewing."

Messrs. J.L. Bowles, B.A., L.L.B., and J.H. Cook, B.A., L.L.B. both of Richardson & Company suggested this symposium because they felt that they had an important message for Architects and Engineers with respect to professional liability. They generously donated their time to make this presentation which was well-received by a full turn-out of about 200 Engineers and Architects.

Generally, the substance of the presentation consisted of outlining major liability topics followed by relevant example case studies. Each was followed by a question and answer period.

Mr. Bowles opened the symposium with his definition of the term professional liability/negligence. He pointed out that from the legal profession's point of view, professional liability is simply a professional's failure to perform work with a reasonable degree of care and skill. Not all errors constitute liability. To successfully prove liability, a plaintiff will usually require one or more expert witnesses whose tes-

timony has to indicate to the court, that the professional's action was indeed less than reasonably competent.

Contractual relationships between Engineer or Architect and Owner, and Contractor and Owner, were discussed next. The audience was reminded that the Architect/Engineer is the agent of the Owner, not the Contractor, and that any job site supervision he performs, is solely for the Owner. Advice on how to carry out construction work is never to be given to the Contractor. Only deficiencies or dangerous situations should be pointed out. If mis-representation on the part of the Engineer can be proven, the courts have granted relief from the Contractors. Mr. Bowles described several cases where this had occurred. He included cases with more encouraging results where the Owner was found responsible rather than the Engineer because the court had held that his employees were "experts" in the area in which the problem had occurred.

The subject of liabilities for delays in construction was covered as well, including several example case histories. From the varied results of these cases, we can only conclude that construction delays cost all parties involved money (except lawyers).

Mr. Cook spoke on limits of liability for the professional. Liabilities arising from a contract is limited to 6 years after completion, and those arising from a tort are 6 years after occurrences.

Mr. Bowles warned that we are not to conclude from this presentation, that the Engineer/Architect is beyond

the reach of the Contractor for liabilities. The Contractor merely has to sue the Owner who will in turn sue the Engineer.

Messrs. Bowles and Cook concluded their presentation with a final reminder that loss from a claim can be minimized if the Engineer or Architect seeks legal counsel at the earliest stage possible of a developing problem.

Their parting words were of course, a "disclaimer" stating that this symposium did not constitute official counsel on upcoming potential claims ... etc.

* * *

A lawyer without history or literature is a mechanic, a mere working mason; if he possesses some knowledge of these, he may venture to call himself an architect. — Sir Walter Scott.

In the Buff

One of our members of Council does his athletic stint regularly at his club about 7 a.m., winds up with a shower, dons his street clothes and then heads for work. One morning recently when he dripped his way from the shower back to his locker, he found the combination on the lock to be unresponsive. Was it three times to the left and twice to the right on the 3-5-7 combination, or was it three times to the right and twice to the left? Standing in the altogether he tried right-twice, left-once, right; then left-twice, right-once, left. Then right-thrice, left-twice, right-once; left-thrice, right-twice, left-once. Back to right-twice, left-once, right. On to left-twice, left-once, left, left, left. Whatthehell. Right, right, right, left, right, left. This must all be done without the glasses which are in the locker, and to the accompaniment of the jeers and catcalls of those pulling on their socks and shorts.

Eventually the caretaking staff had to be summoned, a hacksaw was unearthed, forms were prepared and signed in triplicate waiving liability, and just as the lunch crowd was assembling our embarrassed nude Councillor got into his clothes. The combination for the lock, carefully placed in the jacket pocket, delineated the problem. The combination was 3-7-5, not 3-5-7. Or was it 7-5-3?

Irrelevant Drivel

We have it on very good authority that every issue of this Bulletin is filled with drivel. One of our members very kindly reads it from cover to cover so he will be in a position to comment.

New Members

The following have been admitted to membership as Registered Professional Engineers: R.N. Arnfield, J.I. Burki, M. Cerny, R.A. Glennie, W.C. Horsfall, A.N. Kempan, B.W.P. Mendis, A. Osman, S.K. Sengupta, J. Swierstra, S.C. Arora, M. Desilets, G.W. Neufeld, J.V. Skora, T.E.J. Kjartanson, J.R. Potvin, W. Stekman, T. Stevens, B.D. Clark, D.S. Duncan, D.V. Zieheke, G.D. Burdeny, R. J. Abernethy, E. Araneda, J.P.M. Bernardin, K.R. Boyd, N.M. Chan, C.B. Colp, I. Khalid, S.R. Kormilo, R.D. Leclerc, G. Schaub, R.S. Sherbo, G.W.R. Wark, C.S.W. Woo, W.C. Bonnett, K.D. Grant, R. J. Horsman, R. O. Johnson, L.G. Krause, W.A. McKenzie.

* * *

If ye would go up high, then use your own legs! Do not get yourselves carried aloft; do not seat yourselves on other people's backs and heads! — Nietzsche.

Letters

Dear Sir:

I was disappointed to receive the April 1978 edition of the bulletin and find it to be the smallest volume in my short memory.

I frantically searched the pages to ascertain the cause of this calamity and initially I was unable to find a single clue.

I was about to throw up my hands in despair, when I noticed we have a new Bulletin Editor. Is our recent bulletin an indication that we cannot replace Mr. Lewis as Bulletin Editor? Is it an indication we can? Perhaps the austerity program of our provincial government has affected contributions to our guiding light. Perhaps it hasn't. Perhaps our leading contributors have run out of contributions. Perhaps they haven't.

Has the arrival of 12 hours of sunshine robbed us of the desire to improve our profession and/or fellow man?

Can we assume this issue to be a harbinger of future condensed editions?

All these considerations are mind boggling.

I eagerly await the next edition of the Bulletin to have my worst fears realized.

Perhaps I should have sent this letter in time to be published in the April edition. Perhaps, then with the increased content, I wouldn't be sending this letter now.

Yours Truly,

L. Frovich, P. Eng.

Although the new editorial policy is "Quality has precedence over quantity", your letter is published anyway.
— The Editor.

* * *

He who would distinguish the true

from the false must have an adequate idea of what is true and false. — Spinoza.

There is no glory in outstripping donkeys. — Martial

Ancient Cure

A simple cure for this country's economic ills may be found in the Book of Proverbs in the Holy Bible. "Go to the ant, thou sluggard; consider her ways and be wise." If and when we have a federal election we offer this proverb as a campaign slogan to any party more interested in the state of the nation than its own state.

Male Service

Word reached us, finally, from Allan and Nancy Moffatt, now residing in Guatemala. Allan and Nancy felt right at home as soon as they arrived in Guatemala because there was a postal strike. The Moffatts took a Spanish immersion course in Antigua en route. They may have bilingualism there but they don't encourage bisexuality because Allan went to one class and Nancy to another. And how did Allan get his letter from Guatemala to Winnipeg in the midst of a postal strike? He brought it himself. We already have eight volunteers to deliver the reply.

It's Been Said Before

When asked why he parted with his wife, Caesar replied, "I wished my wife to be not so much as suspected." — Plutarch

He who reflects on another man's want of breeding shows he wants it as much himself. — Ibid.

Man is certainly stark mad; he cannot make a worm, and yet he will be making gods by dozens. — Montaigne.

The minimum wage is the biggest cause of unemployment. — Anon.

Another Agenda, With Love

The Sports Committee met on April 18th to plan for the golf tournament. Only one member of the Committee was absent, and he with permission. Carl Kummel was Chairman, Bill Mackenzie served the sandwiches, Arnie Permut led the discussion about bikes and Al Bischoff made it plain he doesn't go near THOSE places. Joan McKinley took notes.

As the meeting opened Carl yanked the bandage off the wound inflicted when he gave blood. The first item on the agenda was a discussion of 3,5 and 10 speed bikes, and Arnie's 2-speed relic (stop and go). The second item was Paisley ties, clan plaids, and when to wear kilts.

Corkage was next. Carl reported that the golf club had advised that corkage costs were up. No letter of protest was recommended since we don't pay corkage anyway. Chicken cutlets were considered for the dinner. Al Bischoff voted in favour of them just so he could see what they looked like, but he was outvoted and roast beef won the day. Someone suggested a cake with a bunny in the centre for dessert. "A bunny?" quoth Al Bischoff.

There is a price increase of 6 2/3% over last year but the AIB has been disbanded so that was that. The Committee decided that Canadian currency would be accepted at par, but that they would prefer yen, marks or francs.

It was noted that no Sports Committee members won prizes last year, so a new category has been set up — Low net for Sports Committee member. The golf club likes an estimate of numbers prior to the event rather than during or after, so it was agreed to estimate 100 golfers, give or take 50.

Under the discussion of prizes the Love Shop was mentioned. Two members of the Committee gave detailed accounts of what could be found there, and what questions were asked (or overheard). "What's this for?"

"Does it come with batteries?" If the winner gets a gift certificate to this shop it's to be hoped we have a cameraman on hand when he goes to make his selection.

The meeting adjourned on the theme, "Since we have no golfers, we need class."

All these momentous decisions were made in two hours. — S.J.A.

* * *

As you get older your memory goes but everything else gets better. — W.B. Mackenzie, P. Eng.



Fred Kemp and Jim Linton at the Mardi Gras Ball

Computer Error

The Association office is still conducting its affairs in a very old-fashioned way, with people and not computers. This has some disadvantages for the staff because people argue with them. Someone who isn't academically qualified for registration will insist that he is; a member who hasn't paid his fees will insist that he has; someone who is in the process of trying to become registered will complain that the process is too slow; a member who actually has paid his fees and has received another invoice (after all the staff are only human) will phone to let loose a blast. All this must be absorbed by the three females and one male comprising the Association staff. It doesn't seem fair, and a new system is now going to be introduced. Without going to all the expense of installing computers, staff members are going to

cut down on all this flak, which people in computerized offices are spared. The APEM office is simply going to "assume" a computer without really getting one. Now if someone phones in and argues about his academic qualifications he can merely be told "The computer says you aren't academically qualified." Or "The computer says your fees aren't paid." Or "Your application is being processed by the computer." And legitimate mistakes will be acknowledged with "We're so sorry. It was a computer error." It will drastically curtail the number and length of irate phone calls because while a person may argue at length with a voice on the other end of a telephone, especially if the voice is young and sexy, we have all learned to accept the edict of the computer without argument.

Statistically Speaking

We are so bombarded on all sides by statistics that we decided it was time to jot some of them down. We've always assumed we were a pretty average group, without giving much thought to what that implied. So now we know. One in ten, so we are told by various authorities, falls into the following categories:

1. homosexual
2. alcoholic
3. neurotic
4. incompetent
5. unemployed
6. retired
7. wife-beater
8. socialist (or has other diseases)
9. adulterer
10. has been, is, will be, or should be in jail

Without going into all the combina-

tions and permutations, it is somewhat alarming to note that we have ten categories and ten members on Council. The Bulletin Committee, in discussing this matter, regarded it as so serious that it is planning to introduce a by-law amendment for the 1978 annual meeting increasing the number of Councillors to 11, so that we will have at least one normal member on that august group. This is something that Committees should consider as well, making sure that there is no committee composed of ten or fewer members. The Bulletin Committee is in the clear, having 17 members; or is it? Do we have 7 normal members, or 1.7 adulterers? If the next meeting you are attending is dull, jot down these categories and then proceed to try to fit the people into them, statistically speaking. — S.J.A.

Consulting Engineers Top Goal

Contributions to community services funded through the United Way by Winnipeg's Consulting Engineers surpassed their suggested goal for the fourth consecutive year, this time by 19.32% , with 1977 contributions increasing by 30% over those made in 1976. The United Way recognized five firms as having been outstanding supporters, four receiving the Gold Award and one receiving a Bronze Award in appreciation of their generosity. Gold Award winners were A.E. Burstein & Associates, G.H. Currie Associates, Block McLellan & Associates, and L.P. Williams & Associates. Scouten Mitchell Sigurdson & Associates won the Bronze Award.

* * *

If the world seems cold to you, kindle fires to warm it. — Larcom.

If the world's a vale of tears, smile till rainbows span it. — Ibid.

Contest

The following appeared on an enclosure that came with recent water bills, and is printed in its entirety:

Temporary Water Supply

A customer requiring an emergency water supply should contact his District Office to discuss alternatives before a problem arises — cost to be borne by the customer.

We invite your interpretations of this notice. The winning interpretation will receive a gallon of distilled water which he can use as an alternative before he runs out of the regular, cost to be borne by the winner.

Absence Makes the Heart, Or Does It?

At recent meetings Council has been deliberating on the subject of Meeting Attendance, and a motion by George Spencer seconded by John Lewis to the effect that "Council adopt a policy whereby a person ceases to be a member of a Committee after the absence from more than three consecutive meetings without consent" was considered, 'deferred', re-considered. And defeated, we are happy to report.

Attendance at a meeting may indicate nothing but (a) nowhere else to go (b) interest in obstructionism (c) addiction to the sandwiches. Some of our best Bulletins (and we'll be the judge of that) are put out as a result of poorly-attended meetings, and one of our reporters with obvious aptitude has as yet never inhibited his talents by attending a meeting. (He has served the Committee well for 6 years.)

Actually we suspected that this was a plot on the part of Messrs. Spencer and Lewis to put the Bulletin out of business, something they could point to with pride come election time.

We thought we'd been very fair in our comments about George Spencer and John Lewis and published splendid pictures of both. Perhaps it's best to ignore them. — S.J.A.

* * *

Silence is the most perfect expression of scorn. — Shaw.

Power tends to corrupt; absolute power corrupts absolutely. — Lord Acton.

The Birds and Bees

See page 18 for an in depth article on the Birds and the Bees.

What For Fore!

John Fulton had the longest drive. He came in from Thompson. No one really needed to yell 'Fore' all day long because so few golfers hit the ball more than a few feet at a time. Rick Muzeen won the best-dressed golfer prize for his fire-engine red checked outfit, which he said was designed so he could be seen and not hit.

As he headed off on the tenth Eric Willms announced, "I'm going to be a terror on the back nine." We won't divulge how many strokes a 'terror' makes. Arnie Permut was in good shape, having started the day off with three miles of jogging. Wally Rooke was not quite so athletic. He said he had decided to golf in metric because it was shorter that way.

Merv Robinson was temporarily the centre of attraction because the foursome behind aimed at him and missed. Tim Stratton is going to practise his aim; he hadn't expected so much distance because he had never before hit a shot over 35 yards. It's tedious following behind the highways engineers because they are checking the shoulders as they proceed.

Jerry Kruk used local knowledge and played up 10 instead of down 9, in order to avoid the crowds. This strategy kept him out of the prizes. Doug Dawson tried to auction off his place at the 10th tee but there were no takers. Messrs. Pudsey and Muller solved the lost-ball problem by proceeding only 20 feet at a time. Guy Arnott managed to keep his eye on the ball and stay out of the rough by employing the same system.

Mr. Baseball of Hydro (Bill Tishinski) and Ken Williamson tried to play a serious game, which wasn't too easy with Councillor Lewis in their foursome. Blair McLenaghan stopped

in a vulnerable place long enough to be hit by a passing bird, which was the only bird Blair saw all day. Vic Becker played one entire hole without ever being on the fairway or in the rough.

Some people ran out of steam in the later stages. Fred Kemp ran out first, missed the first 9, completed the second 9. Councillor Gary Filmon took time out from setting a good example to other City Councillors long enough to take in the golf.

Prize donors who helped make the tournament a success were BACM, Dominion Bridge, Inland Cement, W.L. Wardrop & Associates, Reid Crowther, Mumford Medland and Westeel-Rosco Ltd.

Roman Christiuk won the prize as the most honest golfer with a total of 181. The big winner of the Landon Cup for low gross was Bob Farish and judging by the applause it was a very popular win. Harold Wilson, Bruce McPhail and Gordon Marshall came next. Ed Lepinski won the low net prize and the Sullivan Cup for the second year in a row, followed by Ken Fallis and Harris Wilson.

Don Mulder won the low front 9 prize, and Dave Oppenheimer the low back 9. The prize for the most entertaining performance, ten strokes on the first hole, went to Doug Dawson.

In the complaint department Ernie Hanson, Glenn Morris, Al Snyder, John Shewchuk, Ray Chant, Gerry Clayton and Jack Atchison cried foul when there were no Oreos at the 10th tee. The girl guides were there with cookies, but if there were any Oreos they were long gone before this group arrived on the scene. Art Sparling noted that his cookie had a hole in it. The girls will have to clean up their act. The list of people who got prizes

for birdies was so long it was decided to mention only those with three or more birdies, and this group did not include Bob Zimmerman, Brian Shavers, Fred Davies, Dennis Swanhill, Frank David, Dave Selleck, Ken Fallis, Bill Collier, Rick Muzeen, Don Mulder, Bruce McPhail, Ken Williamson, Gordon Marshall, Larry Brophy. Al Bischoff wasn't spectacular on the course but he certainly was firing golf balls around the dining room in fine fashion.

President Gilliland was between visits to the CCPE meeting in Newfoundland and the Alberta annual meeting, and Vice-President Richard Johnson presented the cups to the deserving winners. He frightened his audience temporarily by announcing that he was going to quote from the Encyclopaedia Britannica, but as it turned out both the Encyclopaedia and Professor Johnson had some very entertaining comments about golf.

Joan McKinley looked after the registration desk and got sunburned. Monica Todd manned the cookie concession and likewise. Carl Kummen, the Sports Committee Chairman, kept his troops in line — Al Bischoff, Arnie Permut, Vic Becker and Landis Krause. And Bill Mackenzie kept Carl in line.

It looks easy from where Blair McLenaghan absorbs the bird droppings, Mike Saxton makes a superb drive, Dale Woodruffe lays down a 10 foot drive, and Cy Cartwright chews on his cookies, and later on where the bridge and poker players get serious and everyone is saying "cheese" for Ben Rogers. But in the back rooms there is a lot of work to be done and the boys on the Sports Committee haven't even threatened to go on strike unless they can win some of the prizes.

There were 132 golfers, a broad term

applied even to the shenanigans of Ed Pentland, Art Round, Norm Ulyatt, Ron Houghton and Larry Buhr. — S.J.A.

Wine, Conversation and Song

A rose is a rose is a rose, and by any other name. Tut, tut, to the rest of you guys, and thank goodness our Council 'meets'. The notices refer to 'Council meetings', and the Minutes specify 'meetings.'

But while we have abandoned Smokers, in recent times we have had notices of Workshops, Seminars, Symposiums (Symposia) and no Conferences. Definitions follow:

Smoker — Smoking-concert.

Meeting — A meeting is a meeting is a meeting, and some of them go on even longer than that

Conference — A place to confer

Confer — To consult together (Maybe we should try this)

Workshop (Metric it was) — A place where things are made or repaired

Seminar (Group Practice) — Conference of specialists

Symposium (Liability) — After dinner drinking party with music, dancers or conversation; any drinking party

Bacchanalia (Social Committee Special) — Drunken revelry

So it would seem that a Meeting with an exchange of ideas becomes a Conference, a Conference of specialists becomes a Seminar, a Seminar with a bar becomes a Symposium and a Symposium without the conversation becomes a Social Committee Special. Pay close attention to your next notice. A symposium has great possibilities. — S.J.A.

(With Apologies to "The Greeks Had A Word For It" from an unidentified source.)

The Birds and the Bees and the Amoebas

For where's the state beneath the
firmament

That doth excel the bees for govern-
ment. — Seigneur du Bartas.
(1544-1590)

Loyal be to loyal friends;
Make them pay you dividends;
Work, like the industrious bee,
Your friends and foes impartially. —

Hoffenstein

When daisies pied and violets blue,
And lady-smocks all silver-white,
And cuckoo-buds of yellow hue
Do paint the meadows with delight,
The cuckoo then, on every tree,
Mocks married men. — Shakespeare.

We like the eagles, were born to be
free. Yet we are obliged, in order to
live at all, to make a cage of laws for
ourselves and to stand on the perch. —
Wm. Bolithe.

A wonderful bird is the pelican,
His bill will hold more than his belican,
He can take in his beak
Food enough for a week,
But I'm damned if I see how the heli-
can. — Merritt

His imagination resembled the

wings of an ostrich. It enabled him to
run, though not to soar. — Lord
Macaulay

A bird came down the walk;
He did not know I saw;
He bit an angle-worm in halves
And ate the fellow raw. — Emily Dick-
inson

It is natural that women should like
the birds whose domestic affairs can
be observed under the eaves; they love
the sweetest singers, the brightest
plumage, the species not too shy to be
seen at close range. For them the wad-
ers and swimmers, the awkward of leg,
the harsh of cry, the wild of soul, have
seldom the same appeal. But that
which flees from men, that will men
have. Women of all people ought to
understand this, but they do not, quite.
— D.C. Peattie.

Home life as we understand it is no
more natural to us than a cage is
natural to a cockatoo. — Shaw.

Amoebas at the start
Were not complex;
They tore themselves apart
And started Sex. — Guiterman.

Flin Flon News

By F.S. Gira, P. Eng.

Work was progressing on schedule
at the Snow Lake Mill site. The con-
struction workers on strike and tying
up projects in Winnipeg also have rep-
resentatives picketing the Mill site.
The effort expended maintaining the
construction schedule during the se-
verely cold weather of January and
February appears wasted as now the
suitable weather slips by.

The crusher building is erected and
completely sheeted in. Installation of

mechanical and electrical equipment
was underway with the 30' x 48' Jaw
Crusher and 25-ton overhead crane in-
stallations completed. Delivery of a 7'
Symons Crusher, its installation and
the installation of vibratory screenin-
g facilities will complete the list of major
equipment requirements.

Steel erection for the concentrator
building was progressing but heavily
dependent upon structural deliveries
and foundation completions. Roof
sheeting had also just begun.

The \$26 million 3800 ton per day mill is being constructed in Snow Lake to process ore mined in the area. Hauling concentrates to Flin Flon rather than raw ore will reduce the railway transportation considerably with an additional rail usage decrease benefit resulting from the elimination of a backhaul of suitable material for mine backfill. Mill tailings will be used.

The concentrator is much smaller in area than the Flin Flon Mill and could fit into one corner of the existing facility. It has been designed to take advantage of improved technology such as continuous on-stream analysis of ore, concentrates, and other mill products. Use of an Enviro-clear classifier system can produce separation rates of two to thirty times faster than conventional thickeners while at the same time achieving superior clarity, effluence and high solid underflows. Because of this faster separation rate, the space needed can be decreased to 1/10 of that required for conventional thickener. The main flotation cells are to be 7½ times as large as those currently used in Flin Flon and the largest ball mill will handle four times the capacity of any present Flin Flon ball mill.

Engineering for the Mill complex is being handled by Wright Engineers Limited of Vancouver.

Engineering of any required concentrate car unloading and handling facilities in Flin Flon and modifications to mine ore handling facilities for truck haulage in Snow Lake is being handled in-house.

Convocation(s)

The largest number of graduates in the history of the Faculty received their degrees from Dean Martin Wedepohl at the May convocation this year. Former Editor Ray McQuade at-

tended seven convocations in all, in his capacity as Chairman of the Board of Governors. Our Vice-President Richard Johnson attended six convocations as Provost of the University of Manitoba.

We noticed Murray Kay, P. Eng. darting down from the bleachers to take a picture of James Arthur Murray Kay, as he walked by in his gown, clutching his degree in Civil Engineering.

In the 99th Annual Convocation publication, the names of those receiving degrees in Engineering are followed by the names of those receiving the Certificate in Management and on this list we found the names of Kenneth Roy Dyck, Oswald Pedde and Councillor John Wilfred James Lewis.

For ten years William Alexander Robertson Johnston, B.Sc. E.E. 1951, worked as an Engineer by day and attended University classes by night. And at this year's Convocation he received the degree of Bachelor of Arts. Surely an outstanding achievement. — S.J.A.

Memberships Transferred

The following have transferred their memberships to other Associations: M. Sidiropoulos, M.T. Sulatisky, R.G. Radley, P.K. Leung, W.M. Thompson, H.W. Kron, J.M. MacBride, S.A. Barakat, S.A. Elgazzar, K. Ganeson, R.G. Farrand, R. Gregory, W.K. Mann, C.B. Foy, W.D. Clevette, C.A.F. Walton, B.D. Simmons, R.C. Wong, J.E. Partridge, R.F. Celeven, S.G. Roy, P.M. Tighe, W.S.K. Cheung, K.A. Phillip, S. Tilkeeratne, E.F. Hill, L.A.C. Hill, R.A. Harris, A.A. Fergusson, A. Vermette, A.M.A. Nawwar, M.M. Vijay, J. Szezar, G.N. Hodges, J.K. Erskine, T. Mor.

Who's Who?

