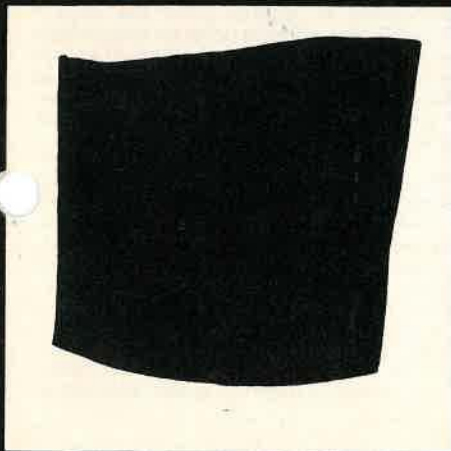


October

Bulletin

76

*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, OCTOBER, 1976

President's Message

By C. R. BOUSKILL, P.Eng.

As each of you know, the primary purpose of the Association is to ensure that the public interest is served and protected through the competent and ethical practice of engineering within the province. I am sure you are also aware that engineering projects are much more complex today than they were a number of years ago. Recognizing the responsibility our Association has toward the public interest, and recognizing that many projects require the expertise and talents of a team or group of professional engineers to be successfully and effectively completed because of the growing complexity of engineering, Council has concluded that recognition should be given to the group practice of engineering.

Council continues to be convinced that each Professional Engineer must be accountable for the professional work with which he/she is entrusted, but Council has found, as I am sure many of us have found, that in undertaking major projects each engineer shares in the success of the project with the other engineers in the group. Recent Administrative Tribunal hearings and investigations by the Practice and Ethics Committee have identified

weaknesses in overall project co-ordination and control which have proven to be most undesirable and hazardous. In order to maintain a high level of protection of the public interest, and after a detailed review of a Council sub-committee report on this subject, Council approved the principle of providing for the practice of professional engineering by a partnership, corporation, or association of persons.

You will find other articles on this subject elsewhere in this issue of "The Manitoba Professional Engineer". It is currently intended that this matter will be presented to you for consideration at the Annual General Meeting on November 26, 1976.

The Association's Vice-President, the Managing Director and I were privileged to meet with a number of Professional Engineers and potential members of the Association at Flin Flon, Lynn Lake, Leaf Rapids and Thompson in mid-September. We were all very encouraged to see signs of a growing awareness of the responsibilities which each Professional Engineer owes to the public and to his/her peers. If you have not done so recently, I encour-

age you to reread and reflect on the Act, the By-Laws and the Code of Ethics of our Association. I invite those of you who have not done so, to obtain a copy of the "Professional Practice Examination" from the Association Office, answer this "open book" test of your knowledge of the Act, By-Laws and Code, and return it to the office for marking to see how well you have done. I am sure you will find it a rewarding experience.

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COUNCIL ON THE PUCK

Council met on September 9th, 1976 from 4 till 8.30 p.m. Walter Saltzberg was out of town. Canada was playing Czechoslovakia at ice hockey, but the rest of the faithful Council were present. The elected members removed their jackets, and the humble servants of Registrar and reporter respectfully kept their jackets on.

Accounts were reviewed with suitable probing. The Receiver General appears to be one of our chief beneficiaries.

Licences, engineering graduates, transfers and new registration applications were reviewed. Special cases received extensive care and discussion in an effort to be equitable. In one case the upshot of a lengthy debate was to sustain a position taken by our Managing Director and Registrar. (Despite the title this is only one man although he smokes enough for two). In another case an applicant to membership from the North West Territories where there is no association was rejected even though the applicant was a Manitoba Engineering graduate.

Association membership at end of July 1976 was 2331. The trend is to increased membership at an increasing rate.

The Corporate Practice Committee of Council reported progress in preparing proposed changes to the Engineering Act which will be a subject of discussion in the Annual General Meeting program.

The Registrar reported affirmative responses to his initiative in soliciting support from employers by ensuring that position titles using the word Engineer do so properly and that engineering positions are filled by engineers, and that employee engineers eligible for registration are indeed registered. The response is reflected in statements of company intent and a number of individual applications to membership.

The terms of reference of the Salary Schedule Committee were considered. It is hoped to develop terms which will upgrade the present ones. Possibly compensation will be substituted for salary.

For the Pinawa constituency we record the active presence of Ray Sochaski, although at this meeting he found himself voting with the majority and seemed rather disappointed. Behaviouralists will note that Council attend the meetings despite the sandwich supper not because of it.

Hockey enthusiasts were able to see the last period of the game.

Conclusion: Recommendations from the Registrar, reports from committees of Council, and decisions of previous Council meetings are three things that Council do not readily accept. While management aficionados might laugh at this lack of trust it is refreshing to hear democratic discussion free of preconceived party or clique lines. J.W.J.L.

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CORPORATE PRACTICE OF ENGINEERING

The Practice and Ethics Committee has found that there exists need for regulation of the corporate practice of engineering in the Province of Manitoba. The reason is that most projects are a group venture with a number of people supplying input. The project becomes a team effort and the team must be responsible. The need is seen to enable the Association to control this aspect of engineering practice.

In view of the need the committee has recommended to council that: —

1. The Engineering Profession Act be amended to recognize the Corporate Practice of Engineering in the Province of Manitoba and to require the licensing of partnership, corporations, Depts. of Government, and associations of persons which engage in the Practice of Engineering.
2. Authorization to practise under a group name be administered by the Association following procedures provided for by the Act.
3. Individual professional responsibility be maintained by continuing the requirement for sealing and signing of documents by individuals.
4. Group practice be defined to include all engineering groups, including consulting firms, engineering departments of industrial corporations and government engineering departments.

The foregoing recommendations are similar to those made to Council as part of the Legislative Committee Report of June, 1972. The recommendations of the Legislative

Committee on the subject were considered at a Special Meeting of Council on November 2, 1972 but the motion to have Corporate Practice recognized was defeated.

The Association's Solicitor's comment at the time regarding the Legislative Committee's recommendations reads: "This question is one which has been debated for too long. We suggest that the Ontario practice is one which recommends itself."

It was inevitable that the question would again be brought to Council because although not recognized, Corporate Practice does take place in Manitoba and further, practise by a group has been recognized by most jurisdictions in North America as being desirable. The Practice & Ethics Committee in its investigations has come to recognize the need for the Association to have disciplinary jurisdiction over practising groups as well as over individuals in order that the Public may be best served. It is very difficult to determine where individual responsibility ends, when overall responsibility belongs to a practising group. It is this realization on the part of the Committee which has prompted its recommendations to Council.

Some of the apparent advantages to the formal recognition of Corporate Practice are as follows:

1. The Association would have complete jurisdiction over the ethical aspects and the quality of engineering as practised in the Province. Firms or Agencies would be subject to suspension for acts of its employees. (eg. practising engineering without a licence) Onus would be on Corporation or Agency to ensure compliance with Engineering Profession Act.
2. Improved financial and contractual protection for client public; the personnel and financial resources of a corporation being much greater than that of an individual, in addition to the fact that the professional liability of the individual remains unchanged.
3. Practising Engineers within a group would be better protected by adequate Errors & Omissions Insurance, as would the client public. No action could be taken by the Association against an individual engineer if he/she could prove no involvement or knowledge.
4. The lines and limits of responsibility of the different people involved are not clearly defined and can vary from group to group. By having corporate practice the onus is on the corporate licensee to ensure that the project is appropriate in its engineering aspects.

The Committee understands that if Council agrees in principle with its recommendations, the exact wording required for an Act amendment would probably be arrived at by the Legislation Committee or a Special Ad Hoc Committee, followed by a review by Legal Counsel and by Council.

The need for corporate practice has been recognized in other provinces and 39 states. Alberta, Ontario, and Saskatchewan have excellent legislation that can serve as a guide to Manitoba.

F. M. FOWLER, P.Eng.
Chairman
Practice and Ethics Committee.



LYNN LAKE — LEAF RAPIDS NEWS

By I. M. PLUMMER, P.Eng.

Small meetings of the Engineers and prospective Engineers of both Lynn Lake and Leaf Rapids greeted the President, Vice-President and Registrar on their annual jaunt into the North. "Why should I become a Professional Engineer?" was the predominant question, and doubts were expressed about the relevance of the present Act to the operating sector of the Mining Industry. One particular query regards the position of the "Mine Geologist", who, in present practice, often calculates the ore reserves. Under the present Act this clearly requires a Professional Engineer, but not all Mine Geologists meet the entrance requirements.

In Leaf Rapids President Charlie welcomed two new Engineers to the ranks. These were Kin Lai, and Thomas (Ross) Thompson.

During the afternoon in Lynn Lake, while Barbara and Penny were visiting in town, the three men were taken on a tour of Sherritt Gordon's underground Fox Mine.

We all hope the visitors reached Winnipeg safely with no other damage than to Charlie's tailpipe.

South Indian Lake Flooding Footnote: Leaf Rapids is disappearing! No, not the town, but the rapids and falls after which the town is named. The lake has backed-up to the edge of the town, and has diminished the grandeur of both the falls and the rapids. The falls are hardly worth the five mile walk now.

THOMPSON NEWS

By B. E. MAXFIELD, P.Eng.

On September 16, 1976, approximately 25 couples attended a reception for APEM members and guests in the INCO suite at the Burntwood Hotel.

Charles Bouskill, President, his wife Barbara, Ted Glass, Vice-President, Terry Algeo, Managing Director and Registrar and his wife Peggy attended this reception as part of their third annual tour of Northern Manitoba communities to meet with APEM members.

The men attended a separate business meeting during the evening. Charles chaired the meeting and initiated the discussion by outlining current activities and problems of the Association. Most of the subsequent discussion was on the question of licensing Corporate or Group Practice. There is considerable interest and diverse opinion on this matter and Mr. Bouskill indicated it would likely be raised on the Agenda for the Annual Meeting in November.

In my opinion, if this is to be done, Council should issue a written statement to the membership well in advance of the meeting to set out clearly, in detail, the proposed revision to the act, the problems it is intended to overcome and how it would be applied. It was apparent from the meeting here that there may be some misunderstanding as to what is intended and how it would be implemented and administered.

These annual APEM meetings in Northern Communities are promoting interest and membership in the Association and definitely should be continued.

We appreciate that it is an arduous week-long trip for the executive members and their wives and thank them for their efforts to establish and improve communications with the Northern membership.

The following INCO employees have now been registered in Manitoba:

Bryan B. Clements — Supervising Engineer, Mechanical, in the General Engineering Department.

Richard E. Wisniewski — Previously Mechanical Engineer in the General Engineering Department, presently a Supervisor in the Maintenance Department.

Malcolm C. McKenzie — Mechanical Engineer in the General Engineering Department.

LETTERS

ON TEACHING

The Editor

Dear Sir:

As one who is involved in a fairly junior way with teaching engineering courses at University of Manitoba, I was pleased to read in the last issue of 'Bulletin' the letter by F. Penner in support of the newly introduced Master of Engineering program. Certainly many of us who will be course instructors look forward with anticipation to the challenge and stimulus offered by our newly identified role in the continuing education of engineers.

I must, however, express one word of reservation. There is a place for specialists in modern engineering. Many employers identify the discipline of training in research as one of the most formative experiences in developing the specialist engineers who are valued members of their organizations. The new M.Eng. program is designed to complement the existing M.Sc. program and not to replace it. The activity of research is vital to the technical health of the profession: the University is one of the best environments in which to do research.

I should perhaps mention that I conform pretty closely with the job requirements in the advertisement quoted by Mr. Penner. I work in the University by choice, and have no reason to believe that because I have some analytical ability I would be any more or less successful if I chose to work in industry. In this context, it should be remembered that academic engineers in their contacts with students are not involved directly with day-to-day engineering problems, but rather with the training of young engineers. The job requirements and the activities we undertake are somewhat different, and in my view the emphasis which we place on sound scientific and mathematical reasoning is fully justified. Our students are of course introduced to professional engineering practices, and based on my experience in other institutions, I suggest we do this quite well.

We are charged, however, with producing not Professional Engineers, but Graduate Engineers. Further training and experience in industry are required before the title P.Eng. can be claimed. In our system, it is the responsibility of the provincial Associations to supervise, assess and license practising professional engineers. Any change in this system would require a move towards the continental European situation where course work lasts six to seven years, university faculties double in size and act as fully-fledged consulting organizations, and the university acts as the licensing body.

I don't think we want to move in that direction.

In this letter I have tried to clarify some of the conditions we work under in the university, and which make our performance and activities somewhat different from those found in an engineering office. Technical and instructional excellence are expected from us. We try and I suggest in many cases we often succeed in reaching these standards.

J. GRAHAM, P.Eng.

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COVER INTERPRETATION

The Editor

Dear Sir:

I have read with interest about your contest for interpretation of the cover of the Engineering Bulletin.

My interpretation is as follows:

Awareness is visually substantiated and evaluation is materialistically personified. Visual content and receivability show great mysticism. The piece reflects fear and induction of recall and shows awareness of clairvoyance, personification with identity of reception of thought stimulus and intelligence in relation to space comprehension.

In other words, it reminds me of sex. Why you may ask does it remind me of sex? Because I am a connoisseur of art and everything reminds me of sex.

TREBOR SEKOTS

Engineering Art Appreciation 103

P.S. Please donate one of my free subscriptions to Debbie, Age 8, and the other to the benevolent fund for ex-Bulletin editors.

Editor's Note: Mr. Sekots was formerly a member of the Bulletin Committee but we had to let him go.

★ ★ ★

DOLORES' INTERPRETATION

Although Engineering has been the rock upon which modern civilization has been built, many people consider Engineers themselves as squares. The time has come for the profession to become a little boulder and wave the flag on their own behalf.

★ ★ ★

Editor and/or Bulletin
Committee Chairperson

Dear Person:

Rather than have my intelligence assaulted at irregular intervals, I will gladly

donate my subscription of the Bulletin to the cover contest winner or the future winner of the interpretation contest.

L. FROVICH, P.Eng.

★ ★ ★

The Editor

Dear Sir:

Please consider my interpretation of the new cover. I think it is good because it expresses how Canada sees itself today — looking into a beer glass darkly. It is the State of the Nation Speech in one succinct graphical page. my interpretation is as follows:

(a) The background is black — certainly this is the Manitoban's perception of this safe and sound undivided nation of the 80's.

(b) The royal purple square in the southeast quadrant represents governmental royalty (prime ministerial shade). When I complained to Mrs. Dunklee that this color might inappropriately represent some future prime minister she advised me that it is the intention to change this regularly. She did not say whether she meant the color or the prime minister.

(c) The irregular shaped object in the middle eastern part of the page represents the Canadian attribute 'Self Interest'. It is in the shape of an iceberg and like all icebergs, there is only 10% showing and the other 90% is hidden.

(d) The rectangular shaped object in the southwest corner is the Canadian concept of professionalism. It is somewhat square; it is not pointing in any direction and to the public is opaque. To the profession it is a half empty glass of beer.

If I win the competition please send, instead of the free subscription to the Bulletin, the other half of the glass of beer.

Yours truly,
P.Eng.
(Name submitted)

★ ★ ★

EASTERN INTERPRETATION

The Editor,

Dear Sir:

The new Bulletin cover obviously depicts the poor Engineer (the purple blob) as being caught between a rock (Gibraltar) and a hard spot.

As this is the situation in which many of us habitually find ourselves, I commend

the artist for his insight and talent. The fact that he or she is not an engineer is the more remarkable.

Yours truly,
P. W. HARVEY, P.Eng.
Toronto

Editor's Note: Almost as remarkable as the interpretation; and for the record she is a he.

★ ★ ★

ROCK

The Editor,
Dear Sir:

Gibraltar? I thought it was an ad from another insurance company.

Yours truly,
R. R. FOSTER, P.Eng.

★ ★ ★

STOP, ARRET, ARRETEZ

It is with regret that this world traveller must report on the failure of the bilingual program in the Greater Winnipeg Area. As proposed the bilingual program was intended to improve communications between the founding races of Canada. Unfortunately, the program has developed into a contest between two groups of people to see who can most aggravate the other. The success of the contest is evident, with the outcome leading to a probable division of our country.

The silliness of the bilingual program was brought home to this writer while driving in France. To most engineers involved in designing control mechanisms for the automobile driver the idea is to make the instruction simple and universal in the interests of safety. In France (the home of the French language), therefore, the word used to suggest the motorist should stop is "STOP". Similarly in Spain the word is "STOP". In the name of bilingualism we have somehow been cajoled, forced, tricked, and bribed into using "ARRET" in one section of our fair city.

Why, is the question we must ask when for the sake of safety in a country which makes no pretension of being bilingual the word is "STOP".

P.S. On the basis of intensive research the proper translation of the instruction "STOP" should be "ARRETEZ". R.C.I.

★ ★ ★

FAME ABROAD

We received several requests for permission to reproduce our Olympic cartoon and

The New Bridge, and these requests have prompted the Bulletin Committee to announce that permission to reproduce our prize-winning new cover is hereby granted.

★ ★ ★

ADAPTING

We're gradually becoming accustomed to Chairpersons, and Celsius and Metric figures, but it is going to take us a while to convert our Fairy Godmother, a Freshman at university and the Yeoman of the Guard.

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Verily though thy calculations be of surpassing accuracy thy choice of paint color pleaseth not. — An Old Consulting Proverb.

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**A FURTHER TEN
COMMANDMENTS**

(Received in a blinding flash burned on the cork wall in the Association Board Room, after the Bulletin Committee had consumed two bottles of Bordeaux Superieur)

11. Thou shalt pay thy fees on time and without whimpering. (quibbling is allowed.)
12. Thou shalt not defile the building, nor violate the lobby area, nor dip into the architectural budget, through frivolous use of space for boilers, transformers or structure, except as may be contained in a shoe box.
13. Thou shalt insist that the wishes of the architect, reasonable and otherwise, are transmitted to the manufacturer as interpreted by the engineer, with the usual request for eternal guarantee in perpetuity (except for labour and parts), whichever comes first.
14. Thou shalt pay thy consultant's fees promptly and in full, without quibbling (whimpering is allowed), so he can continue to wear ties with his shirts and be the envy of all other engineers.
15. Thou shalt remember the theories taught thee in physics and do not cannonball into five feet of water at Brereton lake when the lake level has dropped four feet.
16. Thou shalt maintain engineering traditions of estimating at half the eventual cost.
17. Thou shalt maintain engineering traditions of having at least three spelling mistakes per paragraph, irregardless of length.

18. Thou shalt wear a thick-soled left shoe to discourage any leaning in that direction.

19. Thou shalt review the bid of any contractor seen wandering around the site smiling.

20. Honour thy Bulletin Committee, revere their august presentations and do not criticize the Bulletin regardless of content or political inclination.

21. Thou shalt abide by the regulations of the A.I.B. and in recognition of this fact we have increased the number of commandments by ten percent.

c.c. Moses.



THE POST OFFICE QUESTION

Many people have been wondering how the post office under the very noses of such a strong bureaucracy as the A.I.B. can come forth with 25% price hikes concurrently added to the price of postage. As we all know such price hikes must be justified. Since the post office is like any other government agency, whether it be a crown corporation or simply another appendage of Big Brother, no explanation is forthcoming from them to the plebian masses.

Being a resourceful lot we have researched the whole thing very carefully and found the answer. In fact we can take little personal credit since the answer came from an American comedian who didn't have the nose to be a reporter for the Bulletin Committee, Bob Hope. He found out that the reason for 10c postage is that it takes 6c to mail the letter and 4c storage charges. Our findings concur with Mr. Hope's analysis. We can only surmise that the future 2c increase is to compensate for the storage of letters mailed today which should by the current standards still be in storage when the new postal rates come into force.

R.A.K.



LEARN TO SPEAK

The Winnipeg Chapter of the Institution of Electrical and Electronic Engineers will be holding a meeting entitled "Engineers Can Be Good Speakers" presented by Rob McMillan, P.Eng. and Ron Blicq, Senior Member of IEEE. The 1½ hour talk will concentrate on how to prepare and present a technical paper and conduct a technical briefing. It will cover:

- 1) preparation of speaking notes, equipment, visual aids, and one's self
- 2) practice
- 3) developing good platform techniques.

A film "the Slide Talk" will be shown for the first time in Winnipeg.

The meeting for which there is no admission charge will be held: —

Wednesday, November 3, 1976, at 8:00 p.m., Black Lecture Theatre, Room FM-7, Red River Community College, 2055 Notre Dame Avenue, Winnipeg.



MAY I SAY WHO'S CALLING?

From time to time when we place a business call, the switchboard operator says, "May I say who's calling?" and, since we're always put through upon identification, this has led us to wonder (a) who he's hiding from and (b) what are the possible replies to the question.

We can't offer anything but speculation in answer to the first question, but we can and do submit a list of responses, in no particular order. Perhaps one should just run down the list to see which reply is the most effective. (this might also give a clue to (a)).

"May I say who's calling, please?"

No!
His parole officer
His mistress
His boy friend (for architects)
A bailiff
The Bulletin Editor
APEM fee collector
Dun & Bradstreet
Credit Investigation Bureau
Pussycat Massage Parlour
Income Tax Default Division

Other suggestions are invited and will be submitted to the Cover Contest Editor for appraisal.



WHAT DID HE SAY?

Socios en el venidero predictable van a recibir su factura sobre la cuota anual. Se ruega pagarla prontamente. El estímulo usual en el idioma inglés no se publicara en esta significante ocasion, ya que dicho método se ha probado inefectivo é inproductivo.

Espanol, el estilo de la Inquisicion.

Les membres recevront bientôt leur fracture pour les frais annuels. Veuillez payer le plus tôt possible. L'annonce habituelle en Anglais ne sera pas publier parce qu'elle a été trouvée inutile.

Français Parisienne.

Wanachama watapata cheti cha ada dwa mwaka hii karibu ya sasa. Tafadhali pereke fedha sasa hivi. Kuumbusha ya kawaida ya kiingereza sitapigwa chapa mwaka hii kwa sababu zina kazi bure kabisa.

Kiswahili cha jikoni

Mitglieder werden bald ihre jährliche Bescheinigung der Union Beiträge erhalten. Bitt, bezahlen prompt. Dieses gewöhnliche Daran-Erinnern wird dieses Jahr nicht veröffentlicht, weil es als "ineffective" angesehen wird.

Hauen Deutsch

Le facture annuel de l'association des Ingeneures est preparez maintenant. Payez vous vitement. Le message asualment en Anglais est discontinue cette année parce-qui el ne'st pas effectif.

Quebecois de Prince Albert.

For those still not getting the message translations are available at the office. And we regret having to omit various and sundry accents, except in the Kitchen Swahili which doesn't use accents.



BIRDS OF A FEATHER FLOCK

Another campaign is being unleashed to the poor suffering group out there. In case you don't know who the poor suffering group is folks, it's you and me. I don't want to disparage any cause championing something as close to my heart as free enterprise and I won't, because believe me, on a group as right-wing as your Bulletin Committee a few bottles of wine would never cool the ire that left-wing espousals by one of its own would raise.

However it is quite all right to see that humour can be found, even in the trenches, as we fight back the banzai onslaught of government against us poor suffering groupies. As we sit in our respective foxholes eating our C-rations compliments of the egg marketing board, the Canadian Wheat Board, the Vegetable Marketing Board, the hog marketing board, et cetera (to borrow a phrase previously attributed to the one and only Eugene Whelan) we mused over the choice by the Insurance Federation to use the symbol of a dove being freed to create a visual image for their campaign which is

titled "Free Free Enterprise." Approximately a year ago there was the campaign saying much the same thing. However the symbol then was a little red hen.

There can be little doubt of the gender of the little red hen. As all bird lovers know the most beautiful in colour and plumage with the aviary symbol for free enterprise is a male hence, while I have never confirmed this, I'm sure the dove being freed is a male.

Now as you can see the far sighted Bulletin committee is very quick to note the possibilities and has speculated on where that dove is going with its freedom. One thing for sure, it is a good bet to say it won't be looking for an Eagle who could very quickly devour this symbol of free enterprise for Canada. After being eaten we all know what is left so it is safe to say that this is not what the dove's intent is.

Since the dove has been confined by government decree we are quite sure it will go to where it will be safest. Since Peter (bilingually speaking) Trudeau has said the state has no place in the nation's bedroom then what better place to go to hide. And who might our virile young dove find there? You guessed it, a little red hen who has something about being bread or was it making bread? (it has been a year and the memory dims) Anyway, since this is a family magazine you will note how I will quickly jump to the results. I have thought long and hard to try and come up with something wise and sage about the results of this scene; a wild evening of fun and games. I even tried to show you that a little hope could have been created in this soap opera type episode stolen from a long running series called The Birds and The Bees.

One of the fundamental rules of writing is to know your audience. Since the majority of readers are engineers then it is quite likely that the outcome is going to be rather anticlimatic. As we all know when you put two birds together the result is always the same. Another egg is laid. R.A.K.



A Little Child Shall Lead Us and We Suspect One Does

It is very inspirational and gives one a sense of witnessing the actions of great statesmen to see various government representatives fighting over the operation of lotteries. It is also heart-warming, indeed almost heart-rending, to see our tax dollars spent on such tender commercials as the one for Loto Canada.

HELLO, OTTAWA

Come in, Ottawa! This is Western Canada calling! Do you know we're here? It's our guess that Mr. Trudeau has spent more time in jet aircraft in the last year than he has spent in Western Canada and that Ms. McTeer's spouse has spent more time in Paris, France, than he has in Western Canada.

★ ★ ★

PAPER! GET YOUR PAPER HERE!

Our Exalted Past President Doug Grimes has gone on to bigger and better positions and loftier decisions. He became our official delegate to the Canadian Council of Professional Engineers, whose headquarters is in eastern Canada (naturally). According to a Minute of recent proceedings our very own Doug proposed a motion:

"RESOLVED that the constituent members of CCPE provide for a CEMC Bulletin subscription booth and the required staff of one person at their own annual meetings in each of the provinces for a trial period of one year in order to increase the subscriptions to the Manpower Bulletins.

(This motion does not require ratification)"

The Bulletin Committee nominates Doug Grimes for this challenging, bilingual, 12-month position and we hope the period isn't as much of a trial as the motion suggests. Council took sterner action and replaced him with Charlie Bouskill as our CCPE rep.

★ ★ ★

APPLESAUCE

Have you been troubled by kilopascals? They're units related to gravity. Gravity is a force like politics. It keeps us on the planet earth and frequently in a confused state.

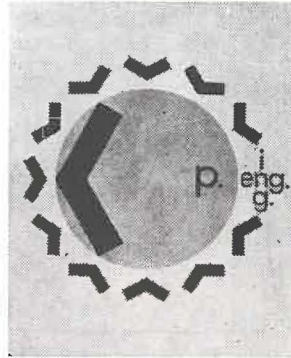
Recently in the IN magazine (Inco Limited) reference was made to gravity as a force having an SI unit known as the newton, "a newton being a force which, when applied to a mass of one kilogram, will accelerate the mass at a rate of one metre per second during each second (1m/s/s)". They suggest that "to experience the feel of a force of one newton, place a mass of 100 g (a small apple) on the palm of your hand; the weight you feel is a force of about one newton (1N)" They don't say that it has to be a Newton apple, but such a suggestion might assist in fixing the term in one's mind and could lead to the understanding of the dimensions of another term. That is the unit of pressure known as the pascal, defined as the pressure exerted

over an area of one square metre by a force of one newton evenly distributed over the area. That is like making applesauce from the Newton (apple of course) and spread applesauce over a square metre strudel. That's not much pressure to us, but to an ant that could be mighty sticky.

We live under an atmosphere that creates a pressure on us. That pressure for an ant is equivalent to 101,325 layers of applesauce on the strudel. For our use we use the kilopascals (101.325 kPa) So when you hear the weatherman call for a fine day with the barometric pressure at 102.2 kilopascals you know he's not talking "applesauce", but it might help with the understanding. —E.A.S.

★ ★ ★

C.C.P.E. NEWS



The following message has been received from C. J. Moull, P.Eng., President of the Canadian Council of Professional Engineers:

MESSAGE FROM THE PRESIDENT

"In the course of my involvement with professional engineers across the country, I'm asked periodically 'What is C.C.P.E.?', 'What does it do for engineers in Canada?'

"In an attempt to answer such questions and as general information for the members of your Council and staff, I have asked the General Manager of C.C.P.E. to develop and issue the attached summary of the Objects, Functions and Achievements of C.C.P.E.

"While the details contained in this bulletin may answer some questions, it may very well generate others. If such is the case, please feel free to write to me and I will respond directly.

"In order to assist your Association/Order membership in achieving a better understanding of what the Canadian Council is all about. I would urge you to publish the attached bulletin in whole or in part in your provincial journal.

C. J. MOULL, P.Eng.,
President.
9/08/76"

The text of the "Objects, Functions and Achievements of C.C.P.E." runs to nine single spaced typewritten pages and so unfortunately it will not be possible to publish the entire report in the APEM Bulletin.

Following are three sections in their entirety, and an outline of the balance. The whole text is available for perusal in the APEM offices.

THE CANADIAN COUNCIL OF PROFESSIONAL ENGINEERS ITS OBJECTS, FUNCTIONS AND ACHIEVEMENTS

What is the Canadian Council of Professional Engineers?

The Canadian Council of Professional Engineers is a federation of the eleven provincial and territorial associations of professional engineers in Canada. Through its constituent associations it groups all of Canada's 80,000 professional engineers and it has become generally recognized as the national voice of the profession. It has no individual members, has no authority over its constituent associations and can only act in matters of policy with the consent of these associations.

Purpose and Objects of the Council

To establish and maintain a bond between the provincial and territorial Associations and Order of professional engineers in Canada, and to assist them in:

- coordinating and standardizing their activities; promoting and maintaining high standards in the engineering profession; promoting a knowledge and appreciation of engineering and of the engineering profession and enhancing the usefulness of the profession to the public; promoting the advancement of engineering and related education; generally carrying out their various objects and functions.

To act on behalf of and to present the views of its constituent associations and organizations in matters that are national or international in scope.

To act in respect of other matters of a Canada-wide nature concerning the engineering profession, either alone or together with other bodies.

WHY A NATIONAL ORGANIZATION FOR ENGINEERS? National Representation, Interprovincial Relations, Coordination, Efficiency, Relations with other National Groups, International Relations.

WHAT THE COUNCIL DOES FOR PROFESSIONAL ENGINEERS - Canadian Accreditation Board, Canadian Engineering Manpower Council, Administration of Professional Engineers' Act, Provincial Legislation, Federal Legislation, National Representation, Cooperation with other societies, Welfare.

COST OF CCPE TO INDIVIDUAL ENGINEERS

The Council operates on the lowest per capita contribution of all national professional groups in Canada. Its current cost to individual members is \$3.20 per year as part of their provincial Association/Order annual dues.

The current annual budget of CCPE is of the order of \$250,000.

* * *

Engineering in the Backfield

The practice and ethics committee are to be commended for their untiring efforts in exposing the illegitimate practice of our profession. But they must be turning a blind eye to the most flagrant of violations. We refer to the recent headline in a local newspaper "Ralph Brock Engineers Convincing Victory". Obviously he has been practising.

And this situation is long standing. Not many years ago the Association unsuccessfully attempted to lure into the fold a Bomber quarterback who reportedly has all the qualifications for membership.

However, the nub of the problem is the woeful lack of Universities who offer degrees in football victory engineering in Canada, in order to qualify this lucrative and heroic group. Courses could be easily designed around those excellent textbooks:

"Gridironing" by Quinton Furze, and
"Inflation in Football" by Manuel Pump.

K.M.J.

* * *

Congratulations to Reinhard Emil Guinter Sprenger who recently became registered and obtained 100% on the examination.

A.P.E.M. FLASH

MANITOBA SUPER SPY REVEALS TOP SECRET CANADIAN GOVERNMENT MAIL SORTING COMPUTER PROGRAM TO BULLETIN REPORTER

Note Delay is over and done the Post Office's usual 3 week delay

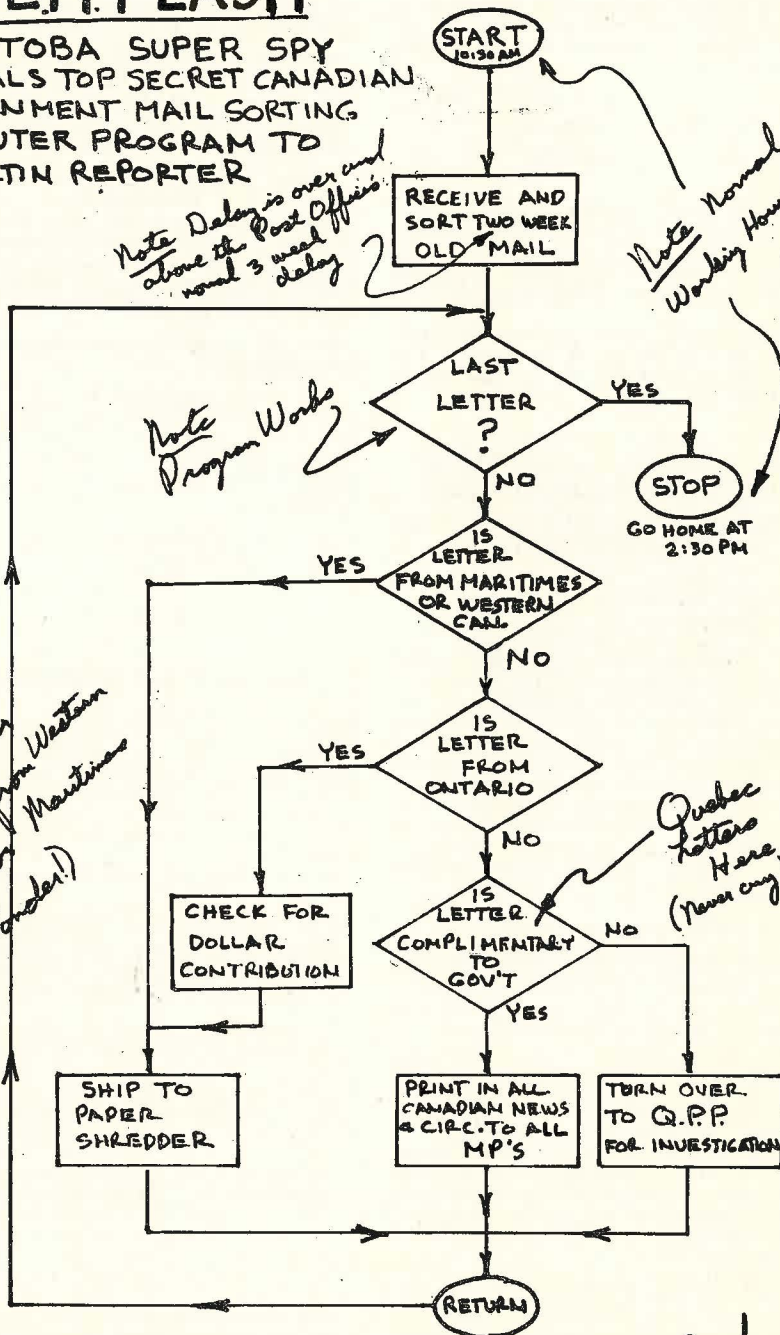
Note Normal Working Hours

Note Program Works

STOP
GO HOME AT 2:30 PM

Note Never any money from Western Canada or Maritimes (No Wonder!)

Quebec letters have (never any money)



advised