


**THE  
MANITOBA**

**P**ROFESSIONAL  
**ENG**INEER



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WINNIPEG, MANITOBA, AUGUST, 1971

## President's Message

By R. HOOD, P. Eng.

During the past several years, the engineering profession has been subjected to extensive criticism regarding the role with which we have been identified in regard to the damaging of our environment, the development of our resources, and the development of our urban centres. The criticism is primarily directed toward the narrow outlook of engineers in carrying out a single purpose of technological feasibility. In Manitoba, our profession has not gone unscathed and by our dormant posture we have in fact supported this position. In my opinion, this provides adequate evidence that the image of our profession is somewhat less than satisfactory, a situation that is completely incompatible with the proper performance of our professional responsibilities.

There is no doubt that some of this criticism is justified. However, we have in the past been able to take constructive criticism and use it for the benefit of society's objectives. Now the bulk of the criticism that is receiving most of the public exposure, primarily because it is so called newsworthy, is made by people within our profession, in other scientific professions, or by politicians who refuse in their own arguments to take anything

more than the narrow position for which they criticize us.

The real problem is caused by the inability of our elected politicians to clearly define the current and future priorities of society, and because of their inability to do so they are more than pleased to find a scapegoat. I would emphasize that the engineering profession, although it has been associated with many of the problems that society is now facing, is also providing leadership in the development of technological advances that will solve these problems. I would make it quite clear that in most instances the engineer has been able to provide adequate solutions before the problems have occurred. However, these solutions quite often are ignored by the decision makers. It is therefore necessary that we as a profession stand up and be counted.

Our urban areas will not be adequately developed without a thorough input by our profession, our resources will not be economically developed by overemphasizing the problems they may create, and we will not continue to improve our society as a whole by taking a "do nothing" approach.

As a starter to bringing the engineer's contribution into perspective, it is abundantly clear that our profession has to eliminate the internal destructive bickering constantly occurring within our profession mainly for public consumption. Rather, this effort should be applied to adequately defining these problems and determining the solution to them. Also, it would be worthwhile if greater emphasis be placed on the successes that have been achieved through the leadership of our profession.

Recently, the CCPE held its annual meeting in Halifax. I have no doubt that if our profession is to develop into a strong entity for the benefit of the future of Canada, a strong national body such as CCPE will be the only route. The problems of the profession do not recognize ethnic or geographical boundaries and are common throughout Canada. What does occur is a variation in the extent of these problems in each province and consequently in the priorities that each association places on their activities. I believe CCPE has made considerable inroads into securing a common bond for the provincial associations. However, it is abundantly clear that there is considerably more work to be done to develop the strength required in CCPE to handle the future of our profession more adequately. In this regard, it is essential that members of our Association give strong support to the activities of CCPE even though their activities may not be completely in line with our own priorities. This does not mean that we should bury our head in the sand and not contribute to the activities of CCPE, but rather recognize that the problems in Ontario and Quebec in particular have to be faced with urgent priority if the profession in Canada is going to survive.

In this mid-year issue of the Bulletin, I would like to sincerely thank all of those engineers who have actively served the Association through their diligent work on the committees. It is difficult to fully indicate the extent of these activities through reports of committees in the Bulletin, but I can assure you that there are many professional engineers in this province who, although carrying extensive responsibilities and time commitments in their private lives, in addition are contributing to the development of our Association to better serve the public through their professional activities.



RUSSELL HOOD, P. Eng.

### MANITOBA PRESIDENT ON NATIONAL EXECUTIVE

Manitoba's dynamic President, Russell Hood, was elected to the four-man Executive of the Canadian Council of Professional Engineers at the annual meeting in Ottawa in May.

Aside from his professional engineering experience, Mr. Hood brings to the post a background of service to his profession. He has served on several of this Association's Committees, has been four years on Council, one year as Vice-President and is this year's President.

He approaches problems head on, with a breadth of perspective and without preconceived bias. His enthusiasm, energy, ability to administer and delegate authority are qualities that will be an asset to C.C.P.E.

Mr. Hood could certainly not be classed as a caretaker President and we are confident that C.C.P.E. will be strengthened by the contribution of Manitoba's Australian import.

## THE MANITOBAN

The University of Manitoba student newspaper, *The Manitoban*, has not covered itself with glory in recent years for its literary achievements. It has been more aptly described as rubbish or garbage. The adolescents who produce it seem obsessed with obscenity, four letter words and drivel. Most members of the oft-taunted "establishment" got this sort of nonsense out of their systems at a much younger age, giggled about it behind the garage at age 10 and by age 15 had mastered such words as "copulate" and "diarrhea."

One of last Spring's issues was so disgusting (and so puerile) that it brought forth the wrath of the CBC, the Free Press and the Tribune, to name a few. It was read by members of the Bulletin Committee with varying reactions — disgust, revulsion, abhorrence, shame and a great deal of alarm and concern — concern that the funds of all students were being abused by a few.

Each student who registers at the University of Manitoba must pay an additional student organization fee of \$32.00, broken up as follows: building fund — \$8.00; student accident plan — \$1.00; University of Manitoba Students Union for services and programs — \$14.00; rebate to specific faculty e.g. (University of Manitoba Engineering Society) — \$9.00.

To claim that this money belongs to the students and may be used for them as they wish is a distortion of the facts. The students are paying for approximately 18% of their own tuition. The balance is coming from the taxpayers. If the money that now goes to student organizations went toward tuition, the strain on the taxpayer could be relieved.

In two eastern universities, students made a test case and refused to pay the additional fee; this resulted in a vote being taken as to whether the student organizations should continue or not. In Ottawa, the vote was in favour of continuing the student organization; in Guelph the organization was voted out of existence. Some student or students should make a test case of this issue in Manitoba. Any students who do not wish to support the *Manitoban* as it is now operated, should simply refuse to pay the additional fee. They would get considerable public support, some of it no doubt financial, to fight their case.

One source at the University estimated the salary of the editor of *The Manitoban* at between two and three thousand dollars. We contacted the *Manitoban* office to ask for the exact figure. We were referred to the finance office and there we were advised that the figure was private and confidential. "Why should we tell you what our editor gets? You wouldn't tell us what our President gets." "Yes," we replied, "we would. Both our President and our Editor receive no salary or honorarium whatsoever." We were asked why we were inquiring into this matter and replied that we were preparing an article on *The Manitoban*. This information was not well received. "If you want to write about engineering students you can," we were told, "But you are not privileged to write about the *Manitoban*." We pointed out that *The Manitoban* was privileged to write about engineers and had taken the liberty of calling some of the characters in its obscene drama engineering students, and we were told that that was different.

We next tried the President of UMSU, Mr. Hamm. He said he would give us no figures. He said the editor's salary was "a marginal type salary, you could survive on it if you had a tight belt and didn't drive a car." (What a wild ideal! Whatever would the taxpayers do with their funds if they didn't have to provide parking lots on campus for students). We inquired if the Editor's salary was sufficient to support a student throughout the the academic year, pay tuition, etc., and the reply was that it could be done if the editor was good at budgeting. He added that the salary was "now being assessed and will be going up."

Next we turned to those who have been supporting UMSU, whose money has been used to print obscene garbage and who allegedly must pay the UMSU fees whether they want to or not. We contacted several newly enrolled engineers in training, who received their degrees in May, 1971 and who supported UMSU and the *Manitoban* for at least four years. Here are their comments.

#1 — was quite disgusted with the recent article in *The Manitoban*. He had heard nothing favorable about the "play." He found nothing in it to redeem it, either literarily or otherwise. He informed us that an informal poll had been taken among about 400 engineers just after this obscenity had appeared in *The*

Manitoban and the results were 2-1 in favor of the engineering students pulling out of UMSU.

#2 — had not read the article. He said he rarely read The Manitoban. Based on what little he had read, he said he thought it was just a combination of radical ideas and should be discontinued as it was not worth publishing.

#3 — felt the article was childish and a waste of time, paper and money. He felt there should be a vote of censure from the students following which the publication should be ignored.

#4 — felt that this Association should take a stand and protest against this sort of thing. He thought that the students themselves should demand a new editor. He felt that if the University Administration tried to take any disciplinary action, it would tend to make heroes of the Manitoban staff and might alienate many students.

#5 — was not too perturbed about the article, although he didn't like it. He felt that if students let themselves be bothered by writings of this nature and retaliated, that a mudslinging duel could result and "you just get down to their level." "If they want to print garbage like that they will themselves reap the consequences." He felt that probably the Manitoban staff did not have enough material for that issue and someone with a lot of time saw an opportunity to get rid of an old grievance. His view was that the students were not getting their money's worth out of the Students Union.

#6 — had not read the article. He felt that normally The Manitoban carried some good articles, perhaps because it was not subjected to any pressure. He had heard about the article in question and felt that no one should be publishing "stuff like that." He felt it could and should be stopped by putting responsible people in charge of the paper. He said he did not get much value for his UMSU fees. He didn't spend much time on campus except to go to classes and didn't have time for UMSU.

#7 — had not read the article and seldom read The Manitoban at all. He said it wasn't worth the paper it was printed on. He felt the paper should be put on a subscription basis, if you wanted to take it you could do so and pay for it, if you

didn't want to take it you didn't have to pay for it. He felt that if this system were invoked The Manitoban would probably go out of existence and he thought that would be a good idea.

The majority of the engineers in training polled felt that UMSU fees should be voluntary and not compulsory. One 1971 graduate we encountered from another faculty said he felt the students who were responsible for the article in question should be expelled from the campus and that membership in UMSU should be on a voluntary basis.

Several of those polled reported that bundles of Manitobans would be dropped off in various places on campus and that there was so little interest in the publication that often the bundles were not even untied.

If the majority of the students are opposed to having their funds abused in this manner and assuming that the administration views it with a jaundiced eye, one wonders why the situation is not corrected. If the students have so much money they can afford to throw it away on junk of this nature, then they certainly don't need an 80% subsidy from the taxpayers. If they don't have enough money to waste on obscene trash, they should make their views known on registration day and simply refuse to pay the assessment that has been so badly misused. The publishing of the kind of garbage that has emanated from campus recently reflects on the whole of the university. An institution whose survival depends on public support cannot afford to let its image fall into such disrepute.

The Board of Governors of the University and the administration have a responsibility to the taxpayers of Manitoba to provide an institution of higher learning, well staffed and well equipped to turn out graduates who can find a satisfactory place in society and make a worthwhile contribution to society. They have an obligation to the vast majority of the students on campus whose purpose is to fulfill this role to see that they can do it under the best possible conditions. They are under no obligation to let any area of the campus that is paid for by the taxpayers be turned into a distribution centre for obscenities, a parade square for placard carrying revolutionaries, bearing in mind that too much liberty results in anarchy. They are not even under any

obligation to provide parking space for students, paid for by taxpayers who ride to and from work on the bus.

One of the reasons the youth of today looks at us with such a jaundiced and disillusioned eye, is that he can see by our performance that we don't even care enough about him to discipline him. He tries to shock us into action, since no action seems forthcoming without shock, and he publishes the worst imaginable prurient trash and he gets a lot of publicity but still no action. It boggles the mind to conceive of what these misguided youths must do before we rouse ourselves and help them to grow up, before we tell them that imperfect as we ourselves may be, there are limits beyond which we will not be pushed, there are things for which we will not pay and which we will not condone, there are disciplines which they must endure and the reason for it all is that we really do give a damn what happens to them. — S.J.A.



### HOME STUDY COURSES

Home Study Courses sponsored by the E.I.C. through the University of Toronto are available in Mathematics, Applied Mathematics, Technical Subjects, Accounting, Administration, Economics, Education, English, Law, Political Science, Psychology and Statistics. For further information contact the Co-ordinator, Home Study Courses, The Engineering Institute of Canada, Room 700, 2050 Mansfield Street, Montreal 110, Quebec.



### UNICITY

With the fall elections for Unicity Council only months away, many citizens have announced their intentions to run in the forthcoming elections with the serious contenders either denying they will run, or suggesting that the provincial government may force them to run ("the present legislation to set up Unicity is bad and unless the provincial government modifies it I'll certainly run to show my displeasure of the plan"). In other words, we're in for another round of chest thumping, Francophones and Anglophones, feather strut-

tering, and "they will have to put up the money" that accompanies the ritual of electioneering. It is doubtful that the issues that brought about Unicity will be discussed. These will most certainly be lost in the Videotape re-run on the debate of Unicity that has gone on for the last few months.

For those of us that thought the election would allow for open and frank discussion about the future of Unicity, the elections will be disappointing. Perhaps we will get the Chamber of Commerce speeches about forging ahead united and watch us grow Dollars. But should we? Forty minutes across town by car. Lots of green left. Strangers still talk to each other on the street. With a concern for the quality of life this may be about as big as we want to be.

If at this election each candidate was asked "How large of a population would you like to see in Unicity in twenty years?" and the question was answered with a numerical expression, we would know whether we should get serious about "perhaps another 100,000 wouldn't matter but after that we move to Brandon." In any case the question and its connotations would make for an interesting election.

— N.P.F.



### ON THE ROSTER COVER

Last year the membership committee, hoping to instill the spirit of Manitoba Centennial year in the membership selected an eye catching cover for the roster which featured a Centennial flag.

For the 1971 Roster cover the membership committee turned to Aime Barsalou, who is a Budget Engineer in the Distribution Development Section of Manitoba Hydro and the artist who contributed the paintings for A.P.E.M. 1970 Manisphere Exhibit.

While working in Pakistan for two years in the mid sixties, Mr. Barsalou found that the 7 a.m. to 2 p.m. working schedule followed in Pakistan left him with plenty of time to paint. Since his stay in Pakistan Mr. Barsalou has actively pursued his hobby of painting and is a member of the Twenty Moods of Manitoba, a group of artists who have been striving to promote a Manitoba image in art. Mr. Barsalou

lou has exhibited his paintings with the Twenty Moods of Manitoba at The Bay, Polo Park Mall, Cross Roads Plaza, Grant Park Plaza, Zellers, the downtown branch of the Winnipeg Library, Winnipeg Hydro Showrooms, St. Paul's High School, and a number of other locations. Aime has done paintings for local business firms and his work is displayed in the Pembina Hotel and Howard's House.

Besides being actively interested in painting Aime is interested in architecture and kite building and flying. His interest in kites resulted from his stay in Pakistan where kite flying is a competitive and aggressive sport and competition flying allows you to arm and manipulate your kite so that you damage or destroy your competitor's kite in the air.

A collection of approximately twenty of Aime's paintings is presently being displayed in the Manitoba Hydro cafeteria at 820 Taylor Avenue. For a look at Aime's paintings and the other amenities that hydro has to offer, the reader is encouraged to come down to 820 Taylor. And of course bring an architect. — N.P.F.



## OUR CANDLE ON A CANDLESTICK ENGINEERS IN COMMUNITY SERVICE

As announced in the June issue, the Bulletin Committee is going to follow an admonition from the Sermon on the Mount: "Neither do men light a candle, and put it under a bushel, but on a candlestick; and it giveth light unto all that are in the house. Let your light so shine before men that they may see your good works."

To quote from the June issue again, "We have good reason to be very proud of the contribution of engineers to the community." The good works performed by engineers are manifold and varied. This will be the first in a series of articles about our own members and their activities after their engineering duties are done. After you have read the entire series, then let us know what you think needs doing to improve the image of the professional engineer. We think you will agree with us that all we have to do to see what the image is, is to look, like practical engineers, at the facts.

Our President, Russell Hood, Manitoba Manager of Underwood McLellan and

Associates, is a member of the Board and Chairman of the Building Committee of Victoria Hospital. Our Vice-President Stewart Barkwell, a member of the Quarter Century Club of Canadian General Electric, was Cub Master and Scout Master for 9 years, has been a Sunday School teacher, Elder and Member of the Board of Stewards of St. Andrews River Heights Church, for two years he was a hockey coach at River Heights Community Centre and for over 20 years he has been a blood donor, having given 46 contributions.

A Past President of the A.P.E.M., J. Hoogstraten, Dean of the Faculty of Engineering at the University of Manitoba, is Chairman of the Building Committee of the Winnipeg Art Gallery and Chairman of the Building Committee of the Royal Winnipeg Ballet.

Allan G. Moffatt, Vice-President of Reid Crowther & Partners, was a member of the Facilities Committee for the Pan-American Games in 1966-67, he is Immediate Past President of the Community Planning Association of Canada, Chairman of the Archbishop's Commission on Renewal for the Anglican Church in the Diocese of Rupertsland for 2 years, Member of the University Chaplains Advisory Committee of the University of Manitoba, Member of the Corporation of St. John's College of the University of Manitoba and a member of the Board of Directors of the Winnipeg Symphony Orchestra.

Douglas R. Grimes, Director of W. L. Wardrop & Associates, is Vice-President of the Lions Club of Riverside, a member of the Board of Stewards of St. Vital United Church, a member of the Building Committee of Norberry Community Club actively involved in planning and building a new clubhouse, and is Past Chairman of the 100th Group Committee of the Boy Scout Movement. R. A. Jeske of Manitoba Hydro has worked with both Cubs and Scouts, is current Chairman of the Westminster United Church Child Care Centre, Past Chairman of the Board of Stewards and was for many years Chairman of the Board of Stewards of Westminster United Church.

Richard J. Jewell, of Ripley, Klohn & Leonoff and the staff of this publication, has been appointed one of Canada's field hockey umpires for the Pan American Games at Cali, Columbia, in August, 1971. Like our President, he is bilingual (having come from Australia) and uses such ex-

pressions as "fortnight" so he should have no more difficulty being understood in Cali than he and Mr. Hood encounter in Canada.

R. K. Rendall, a public health engineer with the Province of Manitoba, is Secretary of the University of Manitoba Engineering Alumni Association, is a Coach of the Kirkfield-Westwood Community Club Peanut League and is a blood donor. J. F. Scaife, City Engineer of St. James-Assiniboia has been active in Kiwanis and is a blood donor.

G. C. Cartwright, Industrial Development Engineer with Manitoba Hydro, is Manager of Playground A of the Sir John Franklin Community Club, Past President of William Osler Home and School Association, Chairman of the House Softball League at River Heights Community Club and Coach of Playground C Hockey. He is Past President of the University of Manitoba Engineering Alumni Association, Past Chairman of the River Heights Community Club and has been active in Kinsmen. R. R. Zimmerman, Manitoba Manager of Perma Engineered Sales Ltd. organized the Westwood Baseball Community Club, has been active in Kinsmen, coached a midget baseball team and is a blood donor.

C. H. Templeton, President of Templeton Engineering Co., served for 15 years as a Director on the Executive Committee of the Children's Hospital, is a former Vice-Chairman of the Board of Governors of the University of Manitoba, former Vice-Chairman of the University and Community Council of the University of Manitoba, former Chairman of the Manitoba Division of the Community Planning Association, former Chairman, Manitoba Division, American Public Works Association, and a Member of the Working Group on Architecture, Building Materials and Construction, Canada-USSR Mixed Commission. He is Chairman of the Centex Committee on Building Materials and Systems Building Research.

In the summer of 1970 when employment opportunities for students were very limited, Templeton Engineering Company hired two engineering students and part of their duties consisted of contacting other firms who might need some student help to assess the situation, find out where possible jobs were and put other students in touch with them. One student, whose salary was again paid by Templeton Engineering Co., was assigned to this

task in the summer of 1971. He organized the University and Community Council effort of trying to stimulate jobs for students, and he acted as co-ordinator between such organizations as the University and Community Council, the Chamber of Commerce and other interested groups. Carson Templeton says he has never yet been mistaken for a locomotive engineer. We can believe it.

From the foregoing it will be seen that those listed come from various phases of engineering and it can also be seen that engineers are represented in diverse places—the ballet, symphony, art gallery, hospital boards, community clubs, church organizations, youth groups, cubs, scouts, service clubs, blood donor clinics.

We rather doubt that the members we have listed in this article, and will list in subsequent articles, are very worried about the image of the professional engineer. They are too busy serving mankind to have much time left to wonder what kind of an impression they are making.—S.J.A.



### NO LONGER MEMBERS

Effective July 1, 1971, the following persons whose names appear in the current issue of the roster of Professional Engineers of Manitoba are no longer registered in the Province of Manitoba:

R. A. Betancur, W. G. Brander, T. C. Chen, R. S. Crawford, N. E. Damas, L. E. Fisher, O. N. C. Florea, J. E. Franklin, W. P. Ivey, R. C. Kruger, C. T. Lount, W. I. Lowe, C. F. Lunn, J. A. Mackenzie, K. H. Meislitzer, S. Mindess, R. Nakamura, H. D. Plunkett, B. W. Robinson, R. D. Stott, R. W. Suderman, J. D. Thompson, K. K. Verma, H. F. Wheaton, R. Wyka, G. R. Frazer, T. L. Gill, B. W. Milne, L. A. Morris, D. Ramnarine.

## NOTICE

Be sure to come to the  
ANNUAL MEETING  
for the  
BIG SURPRISE!

## GREEN CONCRETE

In May, the following note appeared in the "Short takes" column of a Winnipeg newspaper: "The engineers have finally achieved their dream — concrete grass on Portage Avenue."

I don't know how other engineers feel about this sort of remark but I personally resent this misconception that the news media take delight in foisting on the public.

When do they mention that engineers take part in the development of parks and treed areas within the City? When is it pointed out that water systems and irrigation systems which keep the city green are designed and maintained by engineers?

If salt must be used to maintain safe winter driving conditions and we believe that people's safety does still count, it naturally prevents grass from growing. In that case some grass must be eliminated and replaced with concrete. This is simply the best solution available. Nobody considers it an ideal solution, and nobody, even engineers considers it the answer to their dreams. — R.M.S.



## LEGISLATION COMMITTEE REPORTS

Only four Councillors were present at the start of the May meeting. With Councillor Barkwell presiding, minutes and accounts were approved, one licence issued, three Engineers in Training admitted, five transfers granted, sixteen registrations and two reinstatements processed all in record time.

President Hood arrived just in time to greet a delegation made up of Don Sampson, Chairman of the Legislation Committee and Ed Klassen, Chairman of the Employee-Engineers Committee. Both Chairmen wished clarification of the resolutions arising from the Special Meeting of Council.

Basically the intent of Council's motions was to have Professional Engineers to continue to be granted exclusion under the Labor Relations Act and to have a brief prepared in support of this position. The brief will be used in the event that the Provincial Government proceeds with changes in the Labor Relations Act this

year. It was agreed that the Legislation Committee will prepare this brief and keep the Employee-Engineers Committee fully informed.

Council also agreed that the Employee-Engineers Committee should proceed with its brief on collective bargaining. This brief is intended for the consideration of Council and the A.P.E.M. membership.

Council then discussed the review of the Professional Engineers Act by the Legislation Committee. It was agreed that a copy of the present Act and By-laws be sent to all members living in Manitoba and that the membership be advised of the changes under consideration by the Committee. In this way, the Committee hopes to get some feed-back from the membership concerning the new Act.

— R.A.H.



## LETTERS TO THE EDITOR

The Editor:

Dear Sir:

We do not wish to belabour any correspondence regarding Mr. Keating's letter to the Edmonton Journal regarding his idea of an anti-terrorist Bill.

Mr. Noyes' reply stating he resented the use of "P. Eng." after Mr. Keating's name was a very stupid mistake. In my opinion, Professional Engineers have NOT been LOUD enough in the past. We have been too reticent in expressing views, good or bad, about any topic. I believe it is for this very reason that we engineers are finding ourselves behind the 8-ball today with regard to many current problems such as Pollution Control, Collective Bargaining, Professional Ethics, Administration of the so-called Engineers Act in all provinces, etc. We have just not expressed our views long enough nor loud enough.

Keating has done a good thing—maybe it's time we stood up and got counted.

Incidentally, I do agree with his very frank ideas regarding the treatment of such law breakers. In my book there is no room in any country for radicals such as the F.L.Q. types that aroused the whole country last October. These people are nothing but parasites and vermin and are only fit for immediate destruction at

no cost to the law-abiding taxpayer. When one gets lice in the hair, one immediately takes steps to **eliminate** them.

Yours very truly,  
Angus G. MacKenzie, P. Eng.,  
Calgary, Alta.

The Editor:

Dear Sir:

I enjoy the Bulletin so much that I must express my appreciation. Someone (and it must be you, Mr. Editor) is doing an outstanding job of mixing facts, information, and good humor. I look forward to receiving each copy.

Your contributor, S.J.A., is very clever in that he has the knack of expressing common sense in a light and amusing manner. Please thank him for me.

Sincerely,  
John O. Galloway, P. Eng.,  
Calgary, Alta.

#### BULLETIN HOT AIR

The Editor:

Dear Sir:

An item entitled, "Rape, Toilets and Worms," in the June issue of the APEM bulletin concluded with, "Twenty percent of the hot air we get here (polluted or otherwise) comes up from the U.S. (the balance comes to us directly from Ottawa)." While reserving comment on the quality of the article as such, I would like to take exception to the foregoing quotation. I believe at least some of the "hot air" comes to us directly through the APEM bulletin.

Recent issues of the bulletin have placed a great deal of emphasis on enhancing the public image of the professional engineer. Somehow, we expect the "forty beers" image on which many engineers coast through university, to be suddenly transformed by Cinderella-like magic into an image of dedicated public service, the instant we are injected into the mainstream of society. Are we so naive as to believe that by tacking P. Eng. to our names and using the bulletin to tell people (mainly ourselves) how great we are, we will impress others with the idea that engineers are the living example of social responsibility. No doubt it should amuse the politicians to find that they don't have a monopoly on this kind of "hot air." If in

fact it is our objective to tell the world how wonderful though "shy and reticent" we are, then we should employ professional P.R. consultants who specialize in blowing bubbles.

I don't doubt that there are many engineers who are actively engaged in serving their fellow man, both professionally and socially and to them I apologize. However, I do not believe that as a group, engineers present a particular example to follow in this respect.

Most engineers wear the iron ring that marks their profession; but how many actively practise the calling that it symbolizes or the high ideals that it represents? How many engineers enjoy the prestige their academic standing affords but fail to recognize the accompanying responsibility to serve the public? Aren't we too often more interested in the money it can earn for us? How many engineers are intolerant of so-called subordinates who are earning more than they, even though the high salary was earned by many years of working through the ranks? Do we turn our backs on charity drives because in the words of one engineer, "Anyone who doesn't work, shouldn't eat either?" Are we involved in promoting community sporting and cultural activities? What is our attitude to the intrusion into our affluent residential communities of apartments, town houses and government housing projects and the resulting "invasion" of our schools and playgrounds by working-class children? Do we shout about the increasing crime rate, and ignore or even condone in our own ranks the frank dishonesty with respect to expense accounts, unreported income and other seemingly socially acceptable crimes? I could mention many other things but I think perhaps the situation I have implied could best be summed up by referring to the bulletin committee report in the June issue. In a quotation from the Sermon on the Mount, the writer admonishes us to "Let your light so shine before men that they may see your good works." By terminating the quotation at this point, the writer brings about a complete reversal of the intent of the passage which goes on to say, "and glorify your Father which is in heaven." Completed, the passage is meaningful in that it asks us to serve without thought to bringing acclaim to ourselves. In fact, if we were to add the entire Sermon on the Mount to the "Calling of the Engineer" and the "Faith of the Engineer" and make these a rule of life

and practice, it would amount to the most dynamic public relations effort any professional group has ever experienced.

Quite frankly, at the expense of sounding self-contradictory, I believe very much in the idea of public relations with respect to my profession. As I am interested in the work of other professions and trades, I am sure other people are interested to know what engineers are doing. Many harmful misconceptions such as the "forty-beers" reputation and the idea that engineers are a group of individuals with no soul; who live in a world of steel and concrete, must be cleared away. This would enable them to get involved in community life without having to overcome a raft of suspicions. However, much as the efforts of the bulletin committee are to be acknowledged, this cannot be accomplished by a small publication staff, struggling vainly to get members involved in their own affairs. Why must one-fifth of our publication be written by one person? Apathy, that's why! And I'm partly responsible. Please forgive me.

Let's get involved; even if it means a few sore muscles once in a while, or a little lack of sleep; perhaps even a few dollars of our abundance.

Yours truly,  
A. J. Poetker, P. Eng.

#### OUR ROLE IN UNIVERSITY AFFAIRS

Editor, The Bulletin:

Dear Sir:

I have just read an advance copy of an article by S.J.A. about The Manitoban (the University of Manitoba student newspaper), and would now like to throw in a few comments of my own for consideration:

1. I agree that the particular issue of The Manitoban you described was pure pornography. But it was no more offensive than many previous issues (although not all have contained pornography).

2. I doubt very much whether the student body is particularly interested in or materially affected by pornography, or by the revolutionary material that is constantly being published. Students who are interested in that type of material, read it; those who are not, do not. It is as simple as that.

3. The Manitoban contains very little news about the University of Manitoba. Most space is devoted to ideology, the Vietnam war, persecution, and similar topics that mainly pertain to the U.S. This alone turns many students away from their newspaper.

4. The revolutionary type of student (and there are revolutionary academic staff, too) is constantly searching for ways to become a martyr, persecuted by the Establishment. Condemnation of The Manitoban seems to offer him this opportunity.

5. There are those in the university community who profess that the only reason a university exists is to preserve academic freedom. (They are certainly not in the majority, but they comprise quite a sizeable number.) Their definition of "academic freedom" is such that they assume it justifies all of their actions, from publishing pornography, demanding increased salaries, and not writing exams, to practising free sex.

6. The university is an isolated community. Only a few of its staff make the effort to integrate with other people in the province. The remainder fail to keep in touch with the changing times and conditions of the province.

7. Students in general are not radicals. Most are remarkably mature and sincerely interested in getting an education (although frequently bewildered by both the teaching staff and the apparent lack of usefulness of some of the things they are taught).

As practising engineers we have a responsibility to our universities and to the young people who are trying to learn our profession. There is little point in you and me sitting on our slide rules crying about what is wrong with the university. We need to get out and do something about it.

#### HOW?

Ask yourself what the university's role is in passing on our profession: What do you want taught? How can we build the experience of previous generations into what is being done at the university? Why do they still teach some of the subjects they do (subjects that we have learned from experience should have been de-emphasized or eliminated)? What kinds of jobs can we find them when they graduate? And so on.

Our role must be to show students that we are interested in them and the courses they are taking. When they are aware of our interest, they will automatically take the right action. (When activists padlocked the employment centre a few years ago, the engineering students took matters into their own hands and broke the blockade by force. Had the administration tried the same approach, undoubtedly a very serious, noisy situation would have developed.)

I believe that arbitrary censorship of The Manitoban will not only cater to attention-craving activists, but also eliminate any opportunity for the students to shape their own action. A far better course is for the older generation to show an interest in the university and the students, to exchange ideas with the staff and students, and to establish a dialogue (not our usual pontifical monologue) with the students. The students, in their turn, will look after the content of their newspaper.

Yours very truly,  
C. H. Templeton, P. Eng.

#### LET MEMBERS ELECT THE PRESIDENT

The Editor:  
Dear Sir:

With election time for Councillors once again near at hand, I think it is timely to question whether the present system that we have of electing the President of the Association is the best way and question whether it is democratic. With the present system, a vice-president is elected from the councillors elected and normally this person is then promoted to president the following year. Thus the vice-president and president are elected by Council.

Recent comments by Mayor Juba and Prof. Lloyd Axworthy of the University of Winnipeg regarding the election of the mayor for the proposed Unicity are applicable to our case. Both these people feel that in order to make the mayor receptive to the wishes of the people and to ensure that the people believe that the mayor is speaking for them on all major issues, the mayor must be elected by the people rather than by the 48 member Council.

The argument has been raised that a councillor would have the necessary experience and background to carry out the functions of president and that a person elected by the membership may be totally

inexperienced. This argument is true but it is seldom used in elections. In the recent leadership convention of the N.D.P., there was no doubt that David Lewis had much greater experience in the political field than the runner-up James Laxer. However, in the final analysis what seemed to count was not the experience but the views of the individual.

At the present we have no idea as to what are the views of the president on major matters except what is written in the Bulletin.

I would like to propose the following:

1. We continue to elect the councillors in the present manner.
2. The president should be elected by the entire membership.
3. One month prior to the elections, there should be an election night at which the presidential candidates would state their views and answer questions. People seeking a position on Council would also be in attendance to answer any queries.
4. When election ballots are sent to the membership, a summary of each person's background and views should be included. Each candidate would present his views in one paragraph.

Let's have some stimulating discussions for a change and let's have open elections so that we know where the candidates stand on such issues as:

- (a) Restricting the enrollment into engineering faculties.
- (b) The role of unions in the profession.
- (c) An upgrading of the fee schedule to bring us into line with the other professions and to prevent us from lagging behind bricklayers, carpenters, plumbers and other non-professional people.
- (d) The role of the profession. Should we simply be a governing body? Why not spend money on advertising and public relations?
- (e) Protecting the individual from his employer when that individual objects strongly against a decision made by his employer. The present Code of Ethics should be clarified as we are becoming more and more

aware of our social responsibility.

The present system of elections will only serve to perpetuate the existing dol-drum in which the profession finds itself and will further alienate the membership.

W. M. Veldman, P. Eng.

**Editor's Note:** There are advantages and disadvantages to both systems. Canadians do not vote for the Premiers nor their Prime Ministers. Americans vote directly for their President but they can end up with a President whom Congress does not support. There is a certain amount of democracy in our own existing system which is governed by by-laws all of which are approved by a majority of the members and any of which may be amended at any time by a majority of the members. It is interesting to note that the Association's current President headed the polls when he last ran for Council.



### DEMOCRACY QUESTIONED

One member contacted us to say he would not agree with the editor's admonition in the last issue that we accept "a democratic decision concerning collective bargaining." He suggested that with the present make-up of membership being dominated in numbers by the employee engineer, it is possible that a democratic decision by a majority vote may not be according to the spirit of the Act and added that the function of the Association is to uphold the Act, not to act as an employment agency or bargaining unit.



### EGGS AND DISTRIBUTION TRANSFORMERS

When the unscrupulous competitors cut their distribution transformer prices all the manufacturers did the same. Soon the less efficient factories dropped from the race. No tears were shed.

When the unscrupulous competitors cut their egg prices, the Department of Agriculture bought up eggs to keep the prices high. No ecologist spoke up, though chicken farming is a notably noxious industry.

With artificially maintained high prices, where was the Department of Consumer Affairs and what of the war on inflation. Clearly a conundrum for newly formed Information Canada. At Information Canada the customer is treated with great courtesy, even though the answer may not be completely satisfactory. The Department of Agriculture has an objective to keep farmers in business at reasonable profit so that they will remain consumers. Consumers Affairs job is to see that producers are giving us products at prices we can afford to pay.

The real answer comes from a reader who points out that distribution transformers are not in the same category as motherhood, apple pie and farming. Boil it how you may, the yolk is on the consumer.  
— J.W.J.L.



### MANITOBA CITY

When Caesar set up his government in Gaul he divided it into three parts. When Napoleon organized his empire, the number of parts corresponded neatly with the number of available relatives. Manitoba is fragmented into 230 municipalities and 18 local government districts.

By a process of carefully selecting the worst features of the British and American government systems, Winnipeggers pay for local and metro governments, provincial and federal parliaments and a senate on the side.

The provincial government proposes to amalgamate the local and metro governments. If we can afford to do so, it looks like a logical move. But why stop there?

Since the population of Manitoba is equivalent to that of a medium-sized city, do we really need a pretentious parliament and cabinet when a mayor and council would do to run the whole province. In deference to the age of the common man, the senior councillors could still entitle themselves "Honorable" since the puffery costs nothing.

By renationalizing provincial governments to one level, we could have fewer than 100 elected representatives instead of over a thousand. If we can afford uni-city, why not uni-province. — J.W.J.L.

## SEX, PORNOGRAPHY AND OBSCENE STUFF

An Open Letter to Prime Minister Trudeau

Dear Pierre:

We have just heard over the CBC that the publication *The Georgia Strait* has been given \$15,000.00 in government grants to assist it with its operations. As we understand it, its "operations" consist of the distribution of pornography and obscene literature on the west coast and because its publishers are young, it has qualified for this benevolence under the Opportunities for Youth Program.

Here we are, struggling along on the budget set for us by Council, with apparently not two things standing in the way of our getting in on this government Santa Claus treatment. You probably don't think we are young enough and we haven't been very pornographic. But we are quick to mend our ways and jump at the opportunity for government handouts. At its very last meeting Council enrolled 17 new engineers in training, and almost all of them are under 25. As to qualifying under the "Obscene Literature" clause in the terms of reference for your munificence, we've got some good writers and we could turn out some pretty sexy stuff. To give you an indication of our potential in this direction, we sent our research department out after the facts of life of the bedbug, a subject heretofore untouched by the *Georgia Strait*. This will be an exclusive scoop. It's pretty heady stuff, Pierre, and we will give you a brief preview of what is to follow in our series "The Sex Life of the Bedbug," in the hope that the preview will qualify us for at least a \$5,000.00 advance. We are indebted to Howard Ensign Evans who wrote "Life on an Unknown Planet" for much of our information and will share any grants with this distinguished author.

Now how does this grab you for sexy stuff? When the male bedbug mates with the female he leaves a scar, so the next bug (or etymologist) who comes along can tell if she is a virgin or not. Worse still, each succeeding male who mates with the female leaves another scar, so it is possible for an eager Cassanova to count up the number of his predecessors. (The women's libs ought to take this sort of sexy census taking under advisement.)

These creatures are real sex deviates. They are heterosexual, homosexual, bisexual and will even mate with an inanimate object.

Some of our top writers will soon have all this material sorted out and ready for publication, so you can see that *The Manitoban* doesn't have a monopoly on pornography in this area. We could even use some six letter words like "Fuddle Duddle" to spice things up. Ken Jardine on our Committee has a dandy beard and maybe we could persuade him to join the revered transient youths on his holidays and hitchhike back and forth from Winnipeg to Brandon peddling copies of our publication. Further, my hair is now longer than yours and I am wearing beads to the office two days a week. So how about it, Pierre. We'd be glad to put a few sexy bits in each issue if it means we'll get government support. And we could be doing our members a service as well. They may long ago have learned about the birds and bees but they might not have been up-dated on bedbugs and cockroaches, and other brothel-dwelling creatures.

When you requisition the cheque, would you please ask Edgar to make it payable directly to the Bulletin Committee. As has often been said by our members, our Council is a bunch of old fogies. After all Allen Lansdown didn't finish his schooling until 1964. It's also very doubtful if our Council reporter could make a pornographic report on any of their meetings. Their jokes revolve around such unobscene topics as the President's accent and what he means by "Monday week." Also they have put this notation on the masthead of our publication which reads: "Opinions expressed are not necessarily those held by the A.P.E.M. or the Council of the A.P.E.M." So if we qualify for a grant for pornography, they really don't deserve a slice of it.

Yours truly,

Bulletin Committee.

P.S.—Please send the cheque by September 10th. The Bulletin Committee has an annual barbecue the second week of September and the Editor has also always wanted a Carribean cruise.

—S.J.A.

## S.T.O.L. AIRPORT FOR WINNIPEG

It has been estimated that if all the multi-million dollar public buildings and apartment blocks announced in Winnipeg in the last ten years had, in fact, been built side by side, the line would extend from the corner of Portage and Main to Headingley. The most recent announcement has been that of a roof for the Winnipeg Stadium, and as always this was given the appropriate fanfare.

In this instance our public officials seem to be getting their nourishment the way calves do, since Toronto and Edmonton are already not building covered stadiums. Thus there is little to be gained by Winnipeg's joining the list of cities not constructing these stadiums.

However, a simple way to save face is at hand. Since the proposed roof is flat, rather than dome-shaped, it would be possible to permit short take-off and landing aircraft such as the Twin Otter to use the roof, if the roof trusses were strengthened slightly. By proceeding with this modest revision in the plans, our politicians could announce Canada's first S.T.O.L. airport. There is surely much more status in being the first city not to build a S.T.O.L. airport than in being the third city not to build a covered stadium.

We'd better hurry though, since Ottawa and Montreal may soon announce S.T.O.L. airports of their own. — R.A.H.



## GOLF, BRIDGE AND BAREFOOT HIJINKS

It was a big day for Al Macatavish. He won the Landon Cup, symbolic of low gross golfing and added to it the honour of playing 18 holes with Vice-President Barkwell, who is living proof that the old adage "Nice guys finish last" is a lot of malarkey. Harold Wilson had the second low gross score, followed by Larry Greer. Past Chairman of the Sports Committee Gordon Kirby won the low net prize, followed by Vic Becker and Bill Lynn. Bill Lynn and Canadian Johns Manville have been donating a prize to the Spring and Fall golf tournaments as far back as records go, which is 1956, and Bill was so excited at winning someone else's donation that he celebrated by organizing a game of barefoot golf in the dark, while

Frank Fowler and some of the more sedate members of the Association played bridge in the clubhouse.

Don Miller did wonders for the image of the professional engineer by arriving in white slacks, brown blazer with brass buttons, yellow shirt and striped tie. Very mod—then he got into his golf togs, orange shirt and red hat. Not so mod. However, Al Bischoff saved our image on the links and won the prize as the best dressed golfer, wearing a white hat, mauve shirt and two-tone mauve and purple Rivieras. Wow!

At half time Ed Pentland came into the clubhouse for refreshments with Terry Algeo, George Reshaur came in with Bill Nesplak, and George Pratt came in with a woodtick. George Reshaur said there were no woodticks at all on the fairways and it had taken George Pratt quite a while to locate the one he caught. Ken Jardine spent his half-time break trying to explain the hole where he lost three balls and carded 6.

All the scores were fed into computer Bud Christie who came out with instant answers and all the players were sent off to the first tee by Bob Jeske and as a reward for appearing to do most of the work, these were the only two members of the Sports Committee who went prizeless. Chairman Terry Monastyrski and Bob Gottfred won the hidden holes and Bill Gobert, who didn't play at all, won a prize to honour his birthday. The Bill Lynn liquid trophy went to the most honest golfer, E. L. Carriere.

Art Sparling looked very spry as he started off with Jim Warrener, Larry Kay, and E. G. Kurtz but after 18 very long, long holes, he came into the clubhouse looking very weary and commented "Not only does it seem like the longest day, of the year, it actually is."

Eric Glew donated several prizes on behalf of Texaco and then was unable to participate in the tournament himself due to pressure of business. E. V. Graham and J. Remington came in from Pinawa for the tourney.

President Hood proved that he can hand it out as well as take it as the 42 diners absorbed his after-dinner wit. He pointed out that only former, current or potential members of the Sports Committee won any prizes (Al Macatavish's draft notice

is in the mail). He also pointed out that it would be Bob Byers' last tournament. Bob took the day off from Underwood McLellan to golf, while Russ Hood held the fort and only arrived at Elmhurst in time for the dinner. Apparently in that short time U & M discovered they could function without Bob and by the time the Fall tournament rolls around he will be in Grenada.

Councillor Lou Earp who had planned to attend the dinner, spent both the golfing and dinner hours in his office due to pressure of business. However, rumours that Terry Monastyrski, also of Reid Crowther, who spent the entire day at Elmhurst would be joining Bob Byers in Grenada were denied.

Gerry Kruk won top honours for the fastest round. He turned his card in at 11:15 a.m.

Ron Houghton announced after the golf that he was so hungry he could eat a horse, so one less steak was prepared and while the other golfers enjoyed their succulent T-bones, Ron sat patiently waiting for his equine feast.

The Sports Committee looks forward to seeing all golfers at Breezy Bend in the Fall, including the foursome of Reshaur, Nesplak, Pratt and Woodtick. — S.J.A.



### THIS IS NOT TO CERTIFY . . .

Those engineers who have been concerned about the status and public image of their profession have been given further reason for concern. Recently the Association office received a request from a party who required a letter stating that he was NOT qualified for membership. Sort of an application for non-enrollment.

At first glance it appears that being an engineer was such a drawback to this person that he wished credentials of non-qualification. Could it have been for a job application or was he just trying to impress his girl friend?

Do you suppose he was a bona fide engineer trying to cover his tracks? This could be the beginning of a counter-technological revolution.

The request was turned down by the office but Council should not neglect the possibility of charging a fee (say \$25.00)

for non-membership. The market is almost unlimited.

As it turned out, the information was needed for admittance to a federally sponsored educational program. Perhaps this is an indication that our central government sees engineers as completely educated and not in need of any further training — not a bad image! — K.M.J.



### STAFF APPOINTMENT

R. M. Stokes, P. Eng. is pleased to announce the appointment of Carson H. Templeton, P. Eng. to the Bulletin Committee. Mr. Templeton will replace Richard Jewell who has been transferred to Vancouver, and will take over the categories of student protests, collective bargaining, government appointments and the high cost of dying.

While he does not have a degree in journalism, it has been noted that he is never at a loss to describe a situation in a few succinct phrases that could hardly be classified as euphemistic and we look forward to articles in his bold witty style of expression. He will bring to our columns his own inimitable style of bilingualism, which will no doubt be understood by engineers more readily than that proposed by the Prime Minister. Who else, for instance, would have recently assailed S. J. Armstrong with "Are you the offspring of unwed parents who is producing all this right-wing excrement for the Bulletin?"



### ADVANCED EDUCATION

When planning expansion of your qualifications, bear in mind the increased understanding of business possible through the Banff School of Advanced Management.

The course is a tough, regimented attack on Management Policies and Marketing, Financial Accounting and the national and international aspects of the business environment. It is not an easy course, but well worth the time and effort.

There are two sessions a year of six weeks' duration — January to March and October-November. There is a growing fraternity of two thousand graduates of

B.A.S.M., sponsored by the Universities of Alberta, British Columbia, Manitoba and Saskatchewan. Your company may be glad to get rid of you for six weeks and sponsor the fee. They may even find you're expendable—so if you'd care to take the implied risk and broaden your horizons, contact the Bulletin Committee for a Brochure and application form.



### POST-GRAVE SECURITY

Various levels of government have managed to provide us with fairly comprehensive cradle to grave security (at great expense to ourselves) but the post-grave status has been virtually ignored by all but revenue collectors. In his recent Budget, Mr. Benson announced that he was taking his sticky fingers off our estates, which he had been taxing and then sharing the wealth with the provinces. This situation will not likely last long but during the hiatus anyone who schedules his departure may find that he is able to leave to whom he chooses the money he has worked for and saved all his life, paid taxes on and paid taxes on the interest thereon.

Many of us may miss the boat, however, as Mr. Schreyer's cries of anguish over Mr. Benson's announcement could be clearly heard renting the summer air, and he is no doubt busily putting fly paper on Mr. Cherniak's fingers so that when Mr. Benson lets go he can descend on our life's savings. Naturally it would have been more palatable to have Mr. Benson go on doing this unpleasant work but in view of the estimated loss of revenue to Manitoba it would seem likely that some measures will be taken to move in when Mr. Benson vacates the field before too many of us peg out.

Since no one else seems inclined to offer post-grave security the Bulletin Committee is going to recommend to Council that the Association take over the field for its own members only. Once the estate taxes have been levied in Manitoba, it will then not only be more expensive to live here than in Alberta, but it will also be more expensive to die here. We, therefore, propose to form a Diers Anonymous club. Fortunately our Registrar has his own plane which we can use for charter flights and when a member feels a bit frail, we can airlift him to Alberta. If he revives and recovers enough strength to

return to Manitoba and face the high income taxes here so much the better. If he does not recover, he can depart this life as a resident of Alberta and leave his hard-earned funds to whomever he pleases.

What with no sales tax (Alberta) and considerably lower income and corporation taxes, (Alberta and B.C.) it is small wonder that the populations of Alberta and B.C. are growing by leaps and bounds. Our prognosis is that their graveyards will also be growing at the same rate. — S.J.A.



### LARCENY GOES MOD

A recent newspaper account reported two cases in which computer operators and programmers had embezzled funds by manipulation of computer output. The opinion was given that there is more undetected thievery of this kind being practised than is generally believed.

To be a crook in these days requires more and more training. If Jean Val Jean were living today his family would starve to death while he learned how to steal the loaf of bread.

But the shattering thing about the news article is what its effect will be on man's faith in the computer. Computers are thought to spew forth only pure fact, compiled in logical sequence, with no qualifications—the only reliable source of truth. And we find now that they lend themselves to lying, cheating, stealing and embezzlement. Now that they are on the road to crime who knows where it might end?

It is a well known and oft expressed fact that engineers involve themselves less in lawless activity than any other known group of people (with the possible exception of engineers' wives). It would do engineers well, however, to take this new character of the computer into account. Maybe this is a way to revive a lost cause or bolster a faltering thesis. Perhaps padding estimates, skirting questions, introducing red herrings or even simply proving a point would be given credence if supported by the unchallengeable computer.

For example, our California colleagues in Transportation Engineering, under

great pressure from the auto pollution fighters, computed that to provide the present level of highway transportation service, using horses, it would be necessary to dispose daily of one ton of animal waste per person.

Most people will agree that this is a lot of horse manure. — K.M.J.



### SWINGERS VERSUS SQUARES

In the June Newsletter of the Manitoba Association of Architects acknowledgment was made of the article in the June Bulletin entitled "The Squares Versus the Swingers" in which the interior decor of our common board room was the subject.

In their comments the Architects state: "Whether or not Architects are 'swingers' is a subject of continuing controversy, but the term 'square' in its greyest context is generally accepted as an apt term for an Engineer."

We are not aware of the reason for this uncalled for and unsolicited compliment. It is particularly surprising in view of the source. It can only be surmised that the habit that Engineers have of always giving a "square" deal and of always looking you "square" in the eye has finally been noticed by the Architectural fraternity. It is also probable that note has been taken of the engineering propensity for the right angle and an ability to see the equal importance of all sides of a question.

The reference to grey color is probably meant to convey the idea that Engineers do not make immediate claims to purity represented by white, nor are they in any way black-hearted.

Being square-shooters, Engineers should return this compliment by designating a geometric shape representative of Architects. Perhaps a parallelepiped or truncated pyramid would be acceptable. We think a sine curve in its swingiest context would be apt. — K.M.J.

### CONFERENCE ON THE SOCIAL RESPONSIBILITY OF THE ENGINEER

The multidisciplinary conference on the Social Responsibility of the Engineer sponsored by the A.P.E.M., E.I.C. Winni-

peg Branch, and the University of Manitoba will be held in the new UMSU Building at the University of Manitoba, December 2, 3, and 4, 1971.

Conference organizers stated the conference would follow a workshop seminar format with a keynote speaker, panel discussion, and group participation in seminars. When questioned whether the keynote speaker would be a western Minister of Public Works and Transportation, organizers refused comment stating that the registration brochure with full details would be in the mail in late October. Readers can obtain further information on the conference by contacting R. E. Y. Wickett, Extension Division, University of Manitoba, Winnipeg 19; Manitoba. Mr. Wickett can be reached at 474-8207.

— N.P.F.



### CONSULTING ENGINEERS PLEASE NOTE

It is becoming more common for engineers to be requested to review the work of a fellow engineer.

A situation recently reviewed by the Practice and Ethics Committee has prompted the committee to request that all consulting engineers review the Professional Engineers Code of Ethics, paying particular attention to section 6.5 which states—

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



### DEGREE WILL BE REGISTRATION REQUIREMENT BY 1977

From The Reporter  
(Published by the A.P.E.O.)

For many years APEO has conducted an examination program, to enable those whose academic qualifications fall short of the requirements for registration, to meet these requirements through passing examinations set annually by the Association. Admission to the examination pro-

gram has, in the past, been granted to persons possessing qualifications which at least would admit them into the first year of a four-year engineering course at an Ontario university i.e. senior matriculation or its academic equivalent.

The Council of the Association has now taken the decision that an engineering degree shall be adopted as an essential requirement for admission to the pre-registration examination period, with the understanding that confirmatory examinations will be required of all applicants presenting degrees from courses not recognized for complete exemption.

The foregoing is considered to be the final objective of an orderly and planned program of evolution of seven years duration, to enable those persons who plan eventually to attempt to enter the engineering profession in Ontario to plan their future educational endeavour accordingly.

A brief synopsis of the seven-year phasing-in plan is given below, however, those interested should refer to the official plan, copies of which are available from the Registrar, APEO, 236 Avenue Rd., Toronto 5, Ontario.

1971 — Persons now in program unaffected.

New entries into examination system will be on the same basis as in the past. Examinations must be completed by 1978.

1972 — As for 1971.

1973 — Applicants must have Engineering Technologist qualifications.

Examinations must be completed by 1978.

1974 — As for 1973.

1975 — Applicants must possess qualifications for entry into 3rd year of a recognized engineering course.

Examinations must be completed by 1978.

1976 — Applicants must possess qualifications for entry into the 4th year of a recognized engineering course.

Examinations must be completed by 1978.

1977 — Applicants must possess an Engineering Degree. If such degree is not from a specifically recognized university

engineering course, "confirmatory examinations" will be required.



## ADAM BEFORE EVE

By "Hubertus Junius"

For many years, the maids have claimed  
The oldest of professions;  
And Engineers have not assumed to  
question these obsessions.  
But now the time has come to state  
In accents most emphatic,  
The Engineer was first, you know,  
Though somewhat less ecstatic.

Long 'ere village, town or cote  
Had seen its first beginning,  
When maids were fair and dumb, I fear,  
And earned their living spinning,  
The Engineer began to build  
And change the roads to streets  
By building houses on each side,  
And other structural feats.

And busy archeologists,  
While digging through the past,  
Are prone to favor Engineers  
And place the maidens last.  
This obvious chronology  
All other claims defeats —  
How could there be street-walkers,  
Till someone built the streets!

Excerpt from "Tech-Talk"  
September, 1953.



You'd think that since the Department of Health has declared cigarette smoking to be a no-no and banned advertising, that the Department of Regional Economic Expansion would have stopped giving grants to cigarette manufacturers and that the Department of Agriculture would have stopped subsidizing the production of tobacco. Or would you?

Premier Bourassa has scuttled the plans for patriating the constitution. Does this imply that he's in favor of stronger ties with Great Britain?

How many are faced with my problem of deciding how to spend my three dollar saving under the Autopac insurance?

Webster's dictionary says an "engine driver" is one who drives an engine. It is sometimes said that with some people engineers are confused with engine drivers, and that a public relations program could clear this up. In the minds where there is such confusion, is there likely to be much fertile ground in which to sew seeds of clarification?

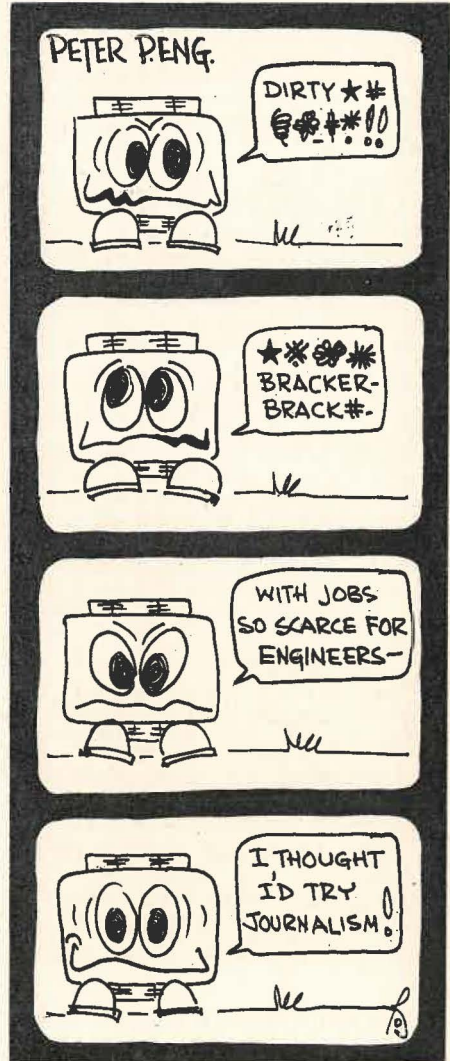
Some public relations experts came to see us and said they could get us time on the open-line radio shows. As we understand it, the contributors to these shows already have selected their heroes and idols and it is questionable whether we want to compete with them for the attention or support of the people whose mentality is stimulated by the utter inanity and banality of these programs.

One of our more perspicacious members has pointed out that there is one advantage to the post office's system of moving service backwards and postage upwards. The former does make it possible to delay a few decisions.

Welcome engineers to the ranks of those who are contributing to unemployment insurance. It should be a great comfort to you to know that you are now able to support those who do not work both through welfare and unemployment insurance payments. And if you should find yourself in the ranks of the unemployed it won't be necessary for you to use your savings or clip your coupons. The rest of us will look after you until you get settled again.

There was a time when leadership meant having foresight and courage and giving inspiration to the masses. Now it means putting your ear to the ground to find out what the masses are thinking and then running out two steps in front of them with the ideas.

Here in Manitoba the 5% sales tax is not levied on such necessities as frogs legs and chocolate covered bees, but it is levied on luxuries like laundry soap and shoes.



## MOVING?

PLEASE let us have your change of address