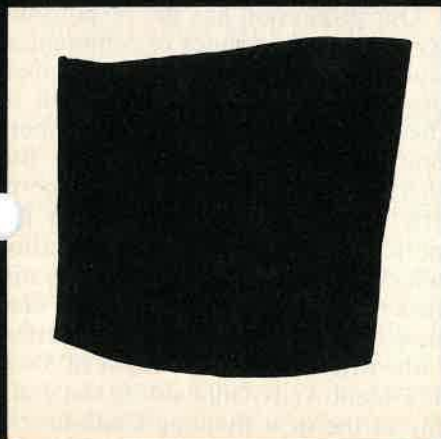
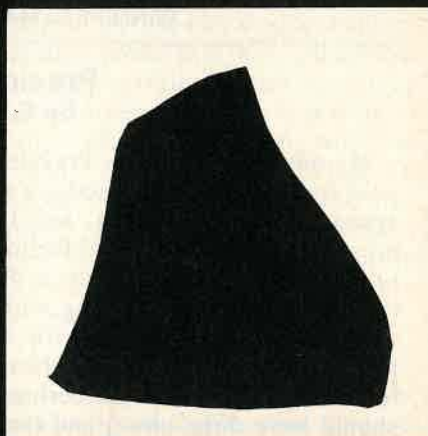


Bulletin

November

77

*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, NOVEMBER, 1977

President's Message by E.F. Glass, P. Eng.

My one year tenure as President of your Association has passed at a speed approaching that of light, and I find myself experiencing mixed feelings of relief, regret, and reassurance. Relief that the year is terminating with the Association intact and with some progress in our responses to the needs for change; regret in that perhaps we should have done more; and reassurance in my own mind that the Association and you, the members, retain the awareness and the flexibility to provide responsible engineering service to the citizens of Manitoba, as intended by the legislators of the province in 1920.

"Protection of the Public" in the work of engineering is a cornerstone of our profession. Prior to the active role as an elected member of Council I was always satisfied that this mandate was in some way related to physical safety and perhaps protection from the uninformed or irresponsible application of financial resources to engineering projects. I am now satisfied that "protection" extends far beyond such a limited definition. Accreditation of en-

gineering programs at our University of Manitoba is one example. As we emerge from an agricultural base economy to a base of industry, the requirement for qualified engineers increases, and surely it is a responsibility of the Association to be aware of the needs of the University and to assure in every way possible that the resources are made available for engineering programs and confirmatory degrees which will be accepted throughout the world.

Our profession has the responsibility to expand our lines of communication to governments — municipal, provincial, and federal. In each of these areas many of our members practise their specific disciplines. But there continues to be an absence of effective engineering inputs at policy-making stages of legislation which involve engineering. I am satisfied that your Council this year continued the progress of the past, particularly with the valuable input of Vice-President Andy Gilliland, to the drafting of the new Building Code for the province. For the first time a policy

document has been written to not only require that engineering work be done by "qualified" persons, but that evidence of such qualification be determined by registration in the Association.

Your Council of 1977 continues to be concerned over the authority presumed by the Manitoba Labour Board to define who is, and who is not practising the profession of engineering. At the Annual Meeting you will be asked to approve a resolution which will communicate to the provincial government this intrusion of the Labour Board into our jurisdiction as defined by the Engineering Act. It is our position that the legislators should not confuse the self-interests of organized labour with the responsibilities to the public of the engineering profession.

Under "responsibility to the public" I also include the need for a qualified and healthy engineering profession to provide engineering services. And this included adequate compensation and visibility of our practising engineers. The Salary Schedule Committee has continued a comprehensive study of the very difficult question of evaluating the daily work of the practising engineer, and recommending responsible levels of compensation. In addition to their work of this year, an Association-approved provincial survey is being organized for 1978. After three years of application of recommended compensation levels for the profession there is now a need to evaluate its effect throughout the province.

The increased visibility of the practising engineer through the introduction of Group and Corporate Practice legislation must remain a success for some future Council. This concept would require a senior executive professional engineer to sign an annual

"certificate of authorization" to recognize the existence of engineering functions in complex government and corporate organizations. And from this annual reminder of the presence of the professional and its requirements under the Act, its By-laws, and the Code of Ethics, each practising professional engineer would be assured of an environment consistent with personal obligations to the Association and through it to the public. Group and Corporate Practice legislation would identify with a large organization the community of interest of all practising engineers from the most recently registered through to senior engineers practising their profession in board rooms. From this visible annual reminder there will emerge a cohesiveness of all members of our profession, which in too many ways is sadly lacking. To those of you concerned about our "image" or "lack of" to the public, I suggest that a clearer defined identity within our own group should have a higher priority.

And now for words of appreciation. First to about two hundred of our membership of 2,470 who give so generously of their time to serve the profession through the twenty-two standing committees of Council. And to each of the elected members of the 1977 Council who have responded in full to their commitment to you, the membership, to maintain and expand the strength of APEM. Their contributions of time and judgment have been invaluable to me. And if you may on some infrequent occasion question the requirement for our four permanent staff members, perhaps the work of these committees, combined with the registration process will provide an acceptable reply. In APEM we are very fortunate to have a staff who, in so many ways, add that extra dimension to their own obligations which is

fundamental to the identity of a "professional". Without this service the administering of our Act and the Association by volunteers would not be possible and to each of them I extend my sincere thanks.

Perhaps one of my more satisfying experiences has been the response of our more senior members to requests

for guidance and assistance. From their executive offices they continue to willingly contribute time and wisdom to serve their profession on important committees and special studies. Thus my feeling of confidence that the Profession of Engineering in Manitoba will continue through strength and cohesiveness of purpose to serve the public of our province into the future.

Managing Director's Report

Some days are better than others. October 20 was one of the better days when I was twice reminded that the Engineering Profession is held in rather high esteem by the general public. The first reminder was a telephone call from a young home owner who wanted to be put in touch with one or more Professional Engineers. He has had such an unpleasant experience with the quality of his new home that, if necessary, he intends to take the contractor to court. He wanted an engineer to do a report detailing the faulty construction and deficiencies in his new home. He said, "I know this may be expensive, but if an engineer does the report, no one will be able to dispute it." Let's hope his faith is well founded.

The second event on October 20 was the occasion of the River East Collegiate Commencement Exercises where 293 grade XII - 1977 graduates were gathered to be honored and inspired by parents, relatives and dignitaries. In pointing out to the graduates the unlimited possibilities that lay ahead, the Chairman of the School Division Board of Trustees, in front of a 600 plus audience, declared that some of the graduates may even become Engineers, Doctors or Lawyers. I felt rather smug, at that moment, knowing that in at least one small part of the world, Engineers

were considered number one. The moral of the story could be that if you want an opinion regarding the status of the Professional Engineer in society, ask anyone but an Engineer.

While we are concerned that there are a few qualified individuals in the Province who are not registered, the pressure remains on the staff to keep up with the flow of applications for assessment of academic qualifications. This type of application is received from applicants who work in an engineering field but who do not have an accredited Engineering degree. The variety of academic qualifications that confronts our Board of Examiners is quite astounding and requires that each application for assessment be considered on an individual basis. A few applicants in this category are immediately considered academically qualified, but the majority are confronted with a list of examinations based on the National Syllabus, issued and kept current by the Canadian Accreditation Board. The number of assessments has increased from 16 in 1972 to 67 in 1977. A very large proportion of our phone calls, pleasant and not so pleasant, deals with the considered recommendations of the Board of Examiners. Elsewhere in this issue you will note that Mr. Musick has reported that 26 applicants on the examination program sat for 45 examina-

tions. This is a 73% increase over last year, and if the trend continues, as the phone calls indicate it will, we will have to rent two examination rooms next year. (one for smokers - J.W.J.L. please note)

Our annual net membership has increased by 100 which is a drop from our record of 175 last year. To obtain this net growth, Council registered a total of 230 members as compared to 267 last year. Licences issued increased from 72 to 82; 90 Engineering Graduates were enrolled and eight members were reinstated (both years). The drop in net growth exceeds the drop in registrations and usually indicates that more members have transferred out of the Province than into the Province.

Again, I urge our members to consider very seriously the completion of reference forms for applicants for registration. These collective replies must confirm to Council that the applicant has had two years of sound engineering experience, subsequent to the receipt of his/her accrediting degree. Many replies that we receive are vague on this issue and some are almost impossible to read. When you sign a reference form concerning the eligibility of an applicant, **you are putting your reputation as a P. Eng. on the line.** Would you believe that the Practice & Ethics Committee is interested?

An unpleasant task faced by the staff each year is the write-off of members who wish to and must remain members, but who fail to pay their annual dues on time. After digging up new members from obscure places all year, it is particularly painful to the Managing Director to terminate memberships, but the Act and By-laws are very explicit on this point. If you wait until the last business day in June to pay your annual dues, something usually goes wrong.

Early in October, 1977, President Glass, Vice-President Gilliland and the writer visited some of the Engineering centres in Manitoba north of the 53rd, including Leaf Rapids, Thompson, Snow Lake and The Pas. Council remains cognizant of the fact that we are the Association of Professional Engineers of Manitoba, not the Association of Professional Engineers of Winnipeg. In total, approximately 100 members work and reside at these four centres and approximately 65% of the members attended the pre-arranged evening meetings. (A northern trip, including meetings, costs approximately the same as holding a meeting in Winnipeg where 3.5% of the members in the area turned out to consider "group practice".)

Meetings at Leaf Rapids, etc. expose your Executive to the direct concerns of members who often feel remote from the Profession. Perennial concerns include:

1. Application of the existing definition of engineering. Discussion would indicate that rather than a technical definition, engineering could better be defined in terms of education, experience, and the application of this knowledge; the element of responsibility and the attitude of the practitioner.
2. Why should I join the Association other than for the fact that the Act states that I must? We find that this question is best answered by questions such as: Do you not wish to be recognized as a P. Eng. by the public and your peers? Why did you take engineering? Why do you work at engineering? What happened to the spirit that prompted the ballad, "We are, we are, etc."?
3. Should we not have a special category of membership for Mr. X who trained half the engineers at

this plant even though he never completed his formal education? Those counter-minded are usually able to defend the status quo.

4. How effective are the Salary Schedule recommendations? Answers vary from "right on" to "not effective".

In any case, the meetings at Engineering centres away from Winnipeg appear to be appreciated. Over an eight-month period, membership at Flin Flon increased by 61%, and at Thompson 26%. Having a Council member from Thompson also helps.

Performing a service function to the public and to the members, the staff expects many phone calls which now often consume up to 40% of the working day. (That's why A.G. Bell was never registered). Some of the opening lines may help to illustrate the services: "What would an engineer charge to look at my basement?" "I would like to add a second storey to my 1924 residence and —." "I've lost my 1975 Salary Schedule booklet and I need to know my points before 3:00 p.m." "I would like to help this client but consultant X has been involved and —." "Where does it say that I can't do that in the Code of Ethics?" "I want that on the record just in case." "What happened at the 1974 C.C.P.E. meeting regarding —?" "I was just dismissed and need advice on separation settlements." "I hear you have some good bargains on insurance —." "Would you mind phoning all the committee members and remind them not to forget —." "I think we should cancel that meeting." "I have just decided to start my own company and need some advice." "What is the best Engineering Faculty in California?" "Why isn't my degree accredited?" "When I phoned two years ago you

said —." "Are my references in yet?" "Who the heck is working on my assessment?" "Why haven't you returned my last three questionnaires?" "I can't spend much time on the phone because my sewer is backing up again."

We appreciate the calls, but they are time consuming. In October, 1972 we had a staff of four and 1850 members. This October we have a staff of four and approximately 2,470 members. I am suggesting that within the next five years, we will require on staff an additional P. Eng. with appropriate support personnel. At this point in time, due to the office load, our field work and some of the follow-up work are being neglected. We have not as yet reached our \$65.00 fee ceiling as set out in By-law 32.2(a), noting that the line on fees has been held since 1972 but it would be prudent to request, during 1978, a change to By-law 32 which would raise the fee ceiling.

Council has had its usual busy year, holding four-to-six-hour monthly meetings plus special meetings, and has dealt with 227 separate agenda items. The task of the APEM President is particularly onerous and explains why second terms are rarely sought. It has been a pleasure and an education to work with the members of the Executive, the Council, and the many Committees. These are the Very Professional Engineers who keep our Profession alive and well. I remain most grateful for the continuing support of Loreen Dunklee, Monica Todd and Joan McKinley. We want you to keep the letters, cards and phone calls coming.

Respectfully submitted,

T.W. Algeo, P. Eng.
Managing Director & Registrar

Board of Examiners

Serving on the Board during the 1977 term were: K.M. Adam; J.R. Cahoon; E.A. Bridges; G.A. Morris; J. Norris-Elye; M.Z. Tarnawewky; J.S. Townsend; D.T. Anderson; J.B. Campbell; W.P. Fraser; M.P. Musick; G.W. Swift; A.B. Thornton-Trump and J.D. Wiebe.

During the year, the Board convened at four meetings to consider the academic credentials of 67 applicants. For the previous years of 1976 and 1975, the numbers of applicants reviewed were 40 and 50, respectively. Sixteen applicants were judged in possession of sufficient academic credits to be recommended for registration, with one requiring an interview to test for proficiency in English language skills. Nineteen were assessed from one to four confirmatory examinations to demonstrate their academic competence before a final recommendation is made. Ten were assigned from two to four qualifying examinations which upon a satisfactory completion will enable the Board to assess a final examination program. Nineteen were prescribed two to thirteen examinations to fulfill their academic requirements for registration. Of the remaining three, two are awaiting the result of a thesis review and interview, and one, having completed an examination requirement for a sister association, was recommended for registration.

Examinations were held during October, 1976 and April, 1977 at which time 26 individuals sat for 45 papers. Thirty-five received a pass grade and 9 of these have completed either confirmatory or final examinations. Three have been recommended for registration, while 2 who completed their program in the previous year were also recommended.

As a result of a policy passed in the

previous year permitting applicants to write, within certain constraints, University of Manitoba examinations in lieu of APEM papers, requests to do so have increased. In the past year, eight candidates took advantage of this provision.

In addition, the Board offered, upon request opinions on four applicants who would normally have been dealt with by Council. Three were recommended for registration.

The Board gratefully acknowledges the participation of the Registrar, T.W. Algeo, for his experience and insights on difficult assessments, and Mrs. J. McKinley for her secretarial duties during Board Meetings and for her determined pursuit of details and correspondence, without which a proper completion of tasks would not be possible.

I extend my personal thanks and gratitude to those mentioned and to the dedicated members serving on the Board for their assistance and cooperation.

Respectfully submitted,
M.P. Musick, P.Eng.
Chairman.

Legislation

Committee members: G.R. Smith, G.R. Durnin, G.E. McLure, E.E. Lach, J.S. Hicks.

During the past year the Committee has been concerned mainly with the question of Corporate and Group Practice in Engineering.

The Committee met on several occasions to review the practice and experience of other provinces and invited interested parties representing both points of view to express their views at these meetings.

Finally in order to ensure that all of

the views were made known the Committee organized a Seminar at the Wildewood Club on September 29, 1977. Those who attended this discussion and question period left with a clearer understanding of the problems which our Association faces due to present practice, and any contemplated changes.

The Committee wishes to thank the speakers who took of their time and provided the meeting with very entertaining and meaningful presentations.

The Committee will now be in position to review all of the material presented and make its final recommendation to Council and perhaps present a resume of all this material in a subsequent edition of the Bulletin.

This has been a busy year for this committee and I would personally wish to thank the above-mentioned members of the Committee and our never-failing staff at the Association offices.

Respectfully submitted,
J.R. Spronken, P. Eng.
Chairman

Consulting Engineers

This year the Consulting Engineers Committee has dealt with a number of current matters, which pertain to the consulting engineers' everyday work.

The matter of the proposed new standard client-engineer agreement was discussed on several meetings. This agreement was prepared by a legal firm and the CCPE submitted it to the Provincial Associations of Professional Engineers for approval. Our Committee approved this agreement in principle and requested the APEM Council's approval for same.

During the course of the year CCPE questioned the usefulness of the National Committee on Consulting Prac-

tices. Our Consulting Engineers Committee went on record strongly supporting the National Committee and suggested, that it should be a standing committee of the CCPE, with appropriate funding. This Manitoba resolution was submitted to the National Committee on Consulting Practices. It was carried unanimously on the National level and was submitted to the CCPE Executive.

In order to comply with the provisions of the recently enacted Anti-Combines Legislation, a subcommittee was formed to study the required revisions to the suggested new fee schedule. A draft of this suggested new fee schedule and a guide for the selection of consulting engineers' services was discussed in great detail on several meetings of the CEC.

The Consulting Engineers Committee this year consisted of the following members: E. Weiszmann, Chairman, J. Hunter, Vice-Chairman and Secretary, W. Akins, T.W. Algeo, J.L. Babletek, G.H. Currie, H. Haak, W. Hanuschak, J. Klein, J.G. Malus, A.G. Moffatt, R. Morrison, A. Penman, L. Pokrant, B.J. Rossen, J. Sinclair, and D. Whittaker.

I wish to take this opportunity to thank the members of our Committee who gave so generously of their time and thus helped to solve some of the current problems of our profession.

Respectfully submitted,
Erwin Weiszmann, P. Eng.
Chairman

Practice and Ethics

The Practice and Ethics Committee held a total of nine meetings plus two subcommittee meetings.

Two complaints were received during the year. One complaint was from

the public and the other was from two fellow engineers.

The complaint from the public was due to confusion regarding a consulting service and drafting service offered by the same firm. The Practice and Ethics Committee advised the Professional Engineer concerned that in future he should show a more definite distinction between the two services.

The other complaint concerned the actions of a Professional Engineer while appearing as an expert witness. This case involved seven meetings of the Committee plus studying considerable court transcription. It was necessary for the Committee to determine whether the present Code of Ethics is applicable under these circumstances. The help of our legal counsel was sought and it was finally decided that the Code of Ethics is not always compatible with the Adversary System.

Many members think of the Practice and Ethics Committee as being a disciplinary body. They are reminded that the Committee would prefer to advise the members before a complaint is received instead of after.

I would like to take this opportunity of thanking the members of the Practice and Ethics Committee for their support. I would also like to thank Mr. Algeo for acting as Secretary to the committee, and also his staff for the duties they performed.

The members of the Practice and Ethics Committee for 1977 were as follows: L.A. Buhr, P. Eng., Vice-Chairman; V.S. Buckler, P. Eng.; D.A.J. Ennis, P. Eng.; W.H. Finnbogason, P.Eng.; F.M. Fowler, P.Eng.; R. Hood, P.Eng.; and F. Penner, P.Eng.

Respectfully submitted,
C.R. McIntyre, P.Eng.
Chairman.

Public Relations

The main highlight of P.R. Committee activities this year was participation in the Manitoba Municipal Secretary-Treasurer Association (MMSTA) Convention in Winnipeg, on May 3rd. The A.P.E.M. was permitted to participate in panel discussions with members of the M.M.S.T.A. Both organizations benefited from a mutual exchange of information, thanks to the efforts of S. Donison, P. Eng., T.W. Algeo, P.Eng., B. Loewen, P.Eng., and W. McKay, P.Eng.

Mr. Wilf Chislett, Public Relations Consultant for the A.P.E.M., prepared a news release on incoming 1977 President, Ted Glass and placed paid newspaper advertisement in the local paper after the election of President Ted Glass as President and Andy Gilliland as Vice-President.

The Public Relations Committee is still working on a pamphlet on the Engineering Profession and we hope to get it published in the near future.

Your Chairman wishes to thank the following members of the Committee for their contribution and time: S. Donison, P.Eng.; G.S. Langman, P.Eng.; R.R. McKibben, P.Eng.; D. Pashniak, P. Eng. D.J. Scott, P. Eng., D.F. Whalley, P. Eng. Also, a special thank you to Loreen Dunklee, Monica Todd and Terry Algeo of the A.P.E.M. staff.

Respectfully submitted
W.P. Wolfe, P. Eng.,
Chairman

Sports

The kickoff event of the 1977 sports season was the Annual Bonspiel, held early in January at the Granite Curling

Club, although a few hardy rinks had their early morning exercise at the Highlander then dashed frantically back to the Granite for lunch. Thirty rinks battled for top honours. The Presidents' Cup went to the rink of Bob Friesen, Keith Walker, Einar Solmundson and Glen Hermanson.

On a beautiful day in late June, Elmhurst hosted a record turnout of 124 golfers at the A.P.E.M. Tournament. Dave Oppenheimer won the Landon Cup for lowest gross score, with the Sullivan Cup (low net award) going to Ed Lepinski. Mrs. Dunklee won the "Angel of Mercy" award for providing cookies and chocolate bars for the famished golfers at the tenth tee.

My thanks to committee members Ted Parent, Bill MacKenzie and Ron Gordon for their part in organizing the very successful events this year. Special thanks to Joan McKinley, our very capable committee secretary, for her invaluable assistance, and to Mrs. Dunklee for her unerringly accurate and inevitably entertaining Bulletin reports on our Association's sports activities.

Respectfully submitted,
Carl Kummen, P. Eng.,
Chairman.

University Liaison

The purpose of the Committee is to provide a formal and positive relationship between practising Engineers and the academic staff of the Faculty of Engineering of the University of Manitoba.

In addition to maintaining and developing our regular program of support, the highlight of the year was the decision made at the last annual meeting of the APEM to donate the sum of \$10,000. to the Faculty of Engineering,

in recognition of the Centennial of the University of Manitoba.

During the months that followed, discussions were held between representatives of the Committee and the Faculty in order to develop a suitable recommendation for the allocation of the funds.

At the May meeting of Council, the following motion was passed:

"The Association of Professional Engineers of the Province of Manitoba (APEM) offers to establish at the University of Manitoba a fund of \$10,000 in recognition of the University's Centenary.

The fund and the interest earned thereon are designated to enhance and promote the development of engineering within the Faculty of Engineering in ways that cannot normally be financed through regular budgetary channels. The intent of the donors is that the benefits that will inure and accrue to the Faculty of Engineering will be shared, so far as may be practicable, with professional engineers, students, staff, and the public generally. For example, the fund might be used to bring to the Faculty a distinguished visitor for the purpose of delivering a series of lectures or conducting a series of seminars in selected areas of engineering. In such a case, the proceeds of the fund might be used to defray the expenses incident to the visit.

The administration of the fund will be at the instance of a committee consisting of the Dean (Chairman) and the Heads of Departments of the Faculty of Engineering.

The Faculty Council of the Faculty of Engineering shall have the right to make such changes in the description noted above as changed conditions make necessary pro-

vided that the general intent of the donors, namely, the development of engineering, is maintained."

Some explanation of why this particular form of allocation of funds was chosen is in order.

From the outset, the guiding principle was to develop a scheme which would be mutually acceptable and beneficial to both the APEM and the Faculty of Engineering, not only in the short term but in the longer term as well.

The first part of such an objective is relatively easy to achieve as there are numerous "one shot" alternatives available. The second part, however, is somewhat more difficult, bearing in mind the limitations of the funds available, the rate of obsolescence of hardware, the rapidly declining positive impact from a "one shot" alternative. In addition, there is a predisposition on the part of conventional funding sources to invest in "hardware". From the Faculty's point of view, a more meaningful need exists for financial support in a form which will facilitate a flexible, imaginative, and ongoing program, as outlined in the motion. It is this kind of program which most satisfactorily satisfies the longer term objectives of both the Faculty and the APEM.

It is the hope and expectation of the APEM that this gift will serve as a catalyst to assist in the support and further development of even better relationships between the APEM and the Faculty of Engineering and promote better understanding between the engineering community and the public at large.

Members of the Committee for 1977 are: J.W.J. Lewis, R.W. Haywood, R.M. Fraser, W.R. Newton, G. Grief, W.R. McQuade, P.A.R. Lowe, W.P. Beley and E.T. Cheong.

Councillor Johnson has provided us with guidance and we are indebted to Mrs. Dunklee for her understanding and assistance.

Respectfully submitted,
R.J. Karras, P. Eng.
Chairman

Brandon Area

A rather quiet year was experienced around the Brandon area. Late in 1976 R. Blicq from Red River Community College, well known lecturer and expert in communications skills, bestowed some of his knowledge upon thirty attendees at Assiniboine Community College.

In March the President, Terry Algeo, and three councillors participated, along with a modest group of Brandon engineers, in a reception and communications meeting at the Red Oak Inn.

Currently the committee chairman and the President are planning a technical meeting for late November. We are anticipating experts from the field of engineering and environment to present two views on the Garrison Diversion. Plans include an open invitation to the public; the meeting will be sponsored by APEM.

Further involvement for Brandon engineers will include careers in engineering in the local school division. Development of a bibliography of career information and data for careers in engineering in Manitoba must be seriously considered by the Association or by the technical societies in Winnipeg so that professional engineers can become more evident in the secondary schools and in the communities outside Winnipeg.

Respectfully submitted
T.E. Tymofichuk, P. Eng.
Chairman



Bill Beley, Richard Johnson, Paul Lowe and Laura Philip (Dean Wedepohl's Secretary) prove that it's possible for four people to have their picture taken without blinking — at the luncheon at which the APEM donated its \$10,000.00 to the Faculty of Engineering to commemorate the University's centennial.

Bulletin

Pursued policy of having a mixture of reports from the Association's leaders, reasonably factual reporting, and trivia. Some people like it, some don't.

Our printers for fifty years have retired, and we now have new printers and new larger print.

We have not succeeded in getting audience participation by way of unsolicited reports from committees, but there have been some welcome letters to the editor.

The Culture and Good Taste citation is awarded to the Membership Committee for excellence in the membership roster cover.

Members of the Bulletin Committee are on the masthead. Our Dowager Den Mother, Mrs. Dunklee, did all the work.

Respectfully submitted,
J.W.J. Lewis, P. Eng.
Editor

Social Committee

The Social Committee plans the Annual Spring Dance, decides on the theme, engages an orchestra, chooses the menu and undertakes the arduous and often very time-consuming task of tasting and selecting the wine.

During the balance of the year the Committee members are models of social behaviour for all to emulate. In order for you to know whom to emulate we submit the names of the Committee members: P. Stewart-Hay, R.J. Linton, D.A. Farlinger, J.B. Rowley, D.C. Sexton, G.A. Pratt, W.N. Sullivan, R.J. McRae, R.C. Mills, R.R. Foster, F.A. Roberts, G.A. Knoll, B.K. Johnston. Pragmatic Loreen Dunklee kept us in line (except during wine-tasting sessions) and ornamental Monica Todd did the work.

Respectfully submitted,
P. Stewart-Hay, P. Eng.
Chairman

Salary Schedule

The Committee has been pursuing several objectives this year. In addition to the preparation of revised salary curves for 1978, two additional tasks were undertaken, namely:

1. To prepare a SALARY SURVEY QUESTIONNAIRE for the APEM membership. This questionnaire will help correlate actual salaries to the points system of job evaluation and in addition will analyze fringe benefits available to the APEM engineers. It is proposed to issue this questionnaire by mid 1978 in order to utilize and publish results in conjunction with the 1979 salary schedules.
2. To review the point system of job evaluation for the ENGINEERS IN ENGINEERING EDUCATION.

At the time of writing our salary schedule report and salary survey proposal are in the hands of Council. It is hoped that the implications of these can be discussed at the forthcoming Annual Meeting.

With the impending removal of the AIB constraints on salaries on the one hand and the depressed economy on the other, this coming year will prove to be critical in terms of whether the engineering community will manage to gain some lost ground or at least not suffer further losses relative to the increases in the cost of living. Look Out!

Respectfully submitted,
R.K. Shemie, P. Eng.
Chairman.

Membership Committee

The Fourth Year Engineering Student Dinner held in November, 1976 was a great success with 149 people in attendance. Arrangements were made for the dinner to be held again at the Montcalm Motor Hotel on November

3, 1977 highlighted by guest speaker Judge R.E. Trudel.

The Mentor Program is still being utilized by those Engineering Graduates who are working for firms which do not employ Professional Engineers. It would appear from the decline of members on this program that more Engineering Graduates are seeking jobs with firms who employ Professional Engineers or who are in contact with Professional Engineers of other firms through their business.

A 1977 Roster has been published and circulated to all members and it might be interesting to note that our APEM Roster gives more information on each of its members than any other Provincial Engineering Association Roster. Our thanks to the Bulletin Committee for allowing us to use their cover for our Roster. It seemed redundant to hold another cover contest, so the Membership Committee used one of the Bulletin Committee's non-winning rejects for its 1977 Roster cover.

The Committee is again lending its support to Dr. John Shewchuk and his colleagues at the University of Manitoba in setting up his 1977-78 Lecture Series for the Fourth Year Engineering Students. The guest speakers from other professional associations and engineers in industry were well received in this past year's series and the students can look forward to another interesting program this season.

Speakers on the Engineering Profession are still being requested by Guidance Counsellors to speak to High School students on Career Day. Tony Eshmade or one of his colleagues, with the aid of the Association's Engineering film, are always willing to attend these "Career Days" to enlighten the students on the profession of engineering.

The varied duties have been capably carried out by G. Yuill, M.G. Hammond, P.V. Johnson, O. Foulkes, S.E. Solmundson, E. Pentland, A. VanCraynest and A.F. Eshmade. My special thanks to Monica Todd for her dedicated assistance to the Committee.

Respectfully submitted,
B.J. Wopnford, P. Eng.
Chairman

Junk Mail

The first page of the Roster carries the following notation: "This Roster is published for the use of A.P.E.M. members only and its use by an unauthorized person or company is forbidden."

Regularly the office receives requests from individuals or companies wishing to obtain a copy of the Roster for advertising or soliciting. The requests are refused, and the above notation is quoted.

Recently someone who called to ask for a copy of the Roster so he could mail some material on his product (in the electrical field) was told the Roster was not available for that purpose, and he replied that it didn't really matter if the office wouldn't send him a copy because he could get it from a friend who was a member.

If your mail box is filled up with unsolicited junk mail, don't blame us. Blame your friends. And don't think we don't know when the Roster is being misused because there is a name in it that can't be located anywhere else.

Shall We Join the Ladies

The Professional Engineers Wives Association has elected its Executive for the 1977-78 year. Mrs. George Pratt is the President and Mrs. Bryan Norrie

is 1st Vice-President. The husbands of these two ladies have received extensive and very valuable experience on the Association's Social and Annual Meeting Committees, and they may indeed have been called in as consultants during the selection of wines for the Membership Wine and Cheese social held at the home of Mrs. A.W. Gilliland in September.

In October a luncheon was held at the Birchwood Inn, together with a fashion show, which gave the ladies ideas on how to spend the allowance allocated by their husbands for haute couture, or sowed the seed of asking for an increased allowance so the couture could be a little hauter.

A Brunch and Card Party will be held on November 22nd, at the Winnipeg Winter Club, at which the ladies can wear the new fashions made possible by generous increases in their clothing allowances. A report on these latest designs will appear in our next issue, if this reporter isn't incapacitated by some chintzy irate husband.
— Anon.

New Members

The following have been admitted to membership as Registered Professional Engineers: A.W. Bischoff, K.G. Boyko, W.D. Brown, A. Clark, M.B. Sinha, K.N. Sontag, D.G. Andres, A.J. Booker, R.F. Dacombe, D.A. Emberley, P.M. Fung, D.G. Gibson, V.D. Gupta, V. Langer, P.K. Leung, L.R. Nilsen, D.M. Olinyk, M.R. Patel, D.A. Stewart, D.W. Chung, T.Y. Tang, G.M. Karlik, D.C. Card, A.R. Friesen, M. Gulamhussein, R.J. Van Kleek, R.J. Kowal, V.C. Leung, L.F. Loschiavo, J. Marak, A.R. Morrison, W.D. Pooles, S.C. Sharma, K.J. Thorsteonsson, J.K. Reichert.



President Glass hands the Association's University Centennial donation to Dean Wedepohl.

Council Meeting October 18, 1977

By T.G. Miller, P. Eng.

Along with Yankee baseball victories and Prime Ministers birthdays, there was an APEM Council Meeting held on Tuesday, October 18, 1977. The meeting got underway at 4:00 P.M. with all Councillors present except Fred Jost.

A crowded looking, 19 item Agenda was approved, then eagerly delved into by the members.

The first item discussed was a meeting with Senior engineers at Manitoba Telephone System held September 12. The purpose was to enlist their support in administering the Engineering Profession Act. The MTS officials raised age-old questions regarding the definition of professional engineering as compared with engineer-

ing technology. Council resolved that a follow-up letter would be forwarded to the officials present offering APEM assistance.

Accounts for September, licences, re-instatements, and transfers were all approved as listed.

Our famous Salary Committee (represented by Reuben Shemie) made an appearance at 5:40 to present to Council their report containing next year's recommendations. The details therein caused a lengthy debate over such subjects as salary comparisons with other provinces, currently unfavourable market for engineers, and a historical (1961 to 1971) decline in Engineering salaries. The Anti-Inflation Board caught the blame for the gap between

actual surveyed salary levels and the Salary Curve we have become familiar with over the last three years. One problem highlighted was that the recommendations conflict with the AIB limitations, but Council resolved that the Salary Structures Recommendation merely represents what the Association calls "fair compensation" for the practice of Engineering and should not come under AIB attack directly. It was finally moved and carried by majority vote to accept the Report.

A motion to review the shape of the salary curve with the Committee was entertained later when Mr. Clement pointed out possible problems in the future with cumulative percentage additions to the current straight line relationship.

The proposed Salary and Fringe Benefits Survey was also presented by Mr. Shemie. Council reviewed the questionnaire which the Committee had drafted for this survey and questioned the need for the Fringe Benefits portion. Council approved finances to continue with the Survey, but decided to postpone acceptance of the questionnaire and resolved that the final questionnaire would be subject to the approval of the Council.

Ignoring the sequence of the Agenda, Council next discussed two items for the up-coming Annual Meeting. Ted Glass reported that Justice J.F. O'Sullivan has been invited to speak to the membership in the afternoon session on the subject of the role and obligations of a professional when appearing as an expert witness. Council also decided to prepare for presentation at the Meeting a resolution which would object to the portion of the Labour Relations Act which gives the Labour Relations Board the authority to decide who is practising engineering.

Next, the subject of Admissions was considered. Councillors agreed after lengthy discussions that the reference form was not specific enough and must be revised. It was also decided that the real purpose behind the entrance requirements must be identified before revising them.

A report from the Board of Examiners was reviewed and accepted next, containing no less than 38 cases of aspiring Professional Engineers.

Items for the upcoming C.C.P.E. meeting on November 17 were covered. Council discussed the question of whether a P. Eng. residing in one province and registered in another should be entitled to participate in the Engineers Insurance Plans.

Recognizing time limitations (already two hours past the Bulletin Committee recommended 8:00 P.M. deadline), Council decided to table items from the agenda including the possible change of the Seal inscription "Registered Engineer" to "Professional Engineer". Council expressed a word of thanks to John Spronken for the organizing of the Group Practice Meeting in September.

The final item on the Agenda brought forth was the possibility of changing By-Law 32.2 which allows automatic removal of Members from the roll for non-payment of dues after June 30. Walter Saltzberg pointed out that members are billed six months in advance of this final deadline, (Chargex only gives you one month).

Unsung Hero

You won't read about it in the common press but this has been a year free from floods. Let's give credit where it's due, to Dave Brown, P. Eng., Dikes Commissioner.

Group Practice Seminar

By K.M. Jardine, P. Eng.

The Association continued to flail about in confusion on the Group Practice question at the September 27 seminar at the Wildewood Club. More than 50 engineers attended the meeting at which a panel debated both sides of the question. Speaking in favor were Frank Fowler, Ted Glass and Doug Grimes while the negative position was taken by Bill Greenfield, Ray Sochaski and Dean Gould.

For those of us who haven't been deeply involved in the previous debates an introductory definition of what group practice means would have been helpful. One of the speakers pointed out that there is a definite distinction between group practice and corporate practice. The distinction was never clarified and the two terms were used interchangeably all evening.

The designation of the two teams as the pros and the cons gave the positive side a psychological advantage which they followed up with strong well-reasoned argument. Mr. Fowler explained how modern-day division of responsibility makes it difficult to determine which individual is responsible for a certain action. He cited as examples the gap between design and field supervision, engineering teams used for complex works, and the engineering application of equipment designed by other Engineers. In such cases the corporation, already financially responsible, should also be held responsible for Engineering competence.

Ted Glass was concerned about "Executive Engineers as Corporate decision makers" and those Engineers "buried in corporate anonymity". He sees Group Practice as a method of giving balanced protection and responsibility to both groups.

Doug Grimes sees Group Practice as a means whereby a designated Engineer in any working group would be responsible for seeing that all engineering functions are adequately managed by a responsible Engineer. In case of Engineering failure the designated Engineer would be answerable if responsible Engineers are not adequately assigned. Where a responsible Engineer is adequately assigned he is of course answerable for his work. Thus the corporation controls the individuals within itself.

Ray Sochaski got in the first licks for the negative side. He worried that group practice would allow individual Engineers to follow corporate policy wherever it might lead without fear of being held responsible. He asked the very pertinent question "How do you enforce registration and how do you discipline a corporation?" These problems, he said, were particularly difficult with regard to government agencies. If enforcement and discipline are not intended, is the group practice exercise worthwhile? Ray believes that, since recourse against corporations is presently available through the courts, corporate practice is a low priority item.

Dean Gould stated that group practice would be demeaning to the Employee Engineer. His incentive for excellence in his work would be diminished moving his status towards that of a technician. At a time when professional status in general is in question no move should be made to weaken the present position. Dean said that the credibility and reputation of our foremost Engineering consultant firms are based on the performance and integrity of individuals. A corporation cannot take on these personal attributes.

Bill Greenfield is convinced that corporate practice will heighten the dilemma faced by some Engineers in the conflict between duty to the corporation and duty to the public. He feels that corporations may use their corporate licence to hide unprofessional conduct on the part of its individuals. Although the intent of group practice is to strengthen the profession, the result will be to weaken it.

During the discussion it was pointed out that corporate practice has been adopted in all other provinces and most states and that group practice already exists in Manitoba but just needs to be made legal. There was very little information, however, as to whether all provinces have the same form of group practice legislation and whether it is accomplishing the goals intended.

Verbal Yoga

By J.W.J. Lewis, P. Eng.

The Seminar on Group Practice was held at the Wildewood Club on Thursday, September 29, 1977. The object of the seminar was to debate the desirability or not of establishing a requirement for group practice and corporate practice. This corporate or group practice would mean that where a project is carried out by a group of engineers, one engineer is legally identified as the "Designated Engineer".

The chosen format of the meeting was to have a moderator flanked by three proponents of group practice and three opponents. Attendance at the meeting was 60.

The moderator was John Sprönken, a good choice. He is ambidextrous and smokes two pipes, in series, in parallel and sometimes one at a time. The meeting was conducted in a typical engineering fashion with politeness, courtesy, and reason, with disregard of the moderator's time guide lines. Panelists speaking pro were Frank Fowler, Ted Glass, Doug Grimes, and speaking against were Bill Greenfield and (bless them for their brevity) Ray Sochaski and Dean Gould. The onus on the proponents was to show why new regulations are required, while those opposed had to show the reasons were not valid.

ON THE ONE HAND, regulated group practice is a desirable addition to our act because it would ensure identifiable accountability of who is responsible in multi-disciplinary projects. Under the existing rules, the practice and ethics committee have been unable to identify the culprit in cases where the culprit is a non-existent co-ordinator, and this co-ordination gap has been the result of a failure. If there were a "Designated Engineer", it is argued that he would ensure that there were no gaps, thus failures would be averted.

- Questions of liability and costs of liability insurance would be alleviated.
- The use of the seal would be enhanced because the "Designated Engineer" would ensure that project participants seal their work. Work here is not just design but includes all project work from start through construction, erection, and commissioning.
- Manitoba Consultants would be able to command business that is presently sent out of the province.
- 43 out of 50 states allow or require corporate practice.
- 8 out of 11 Associations allow cor-

porate practice. One is silent and two, including Manitoba, disallow corporate practice.

— We already have group practice. The question is should we control it.

ON THE OTHER HAND the present act is unenforceable in part so why bring in more rules that cannot be enforced. Who can envisage Government departments, the Hydro or Telephones conforming to group practice rules? The answer is that the rules will not be enforced for them.

— The naming of one engineer as being responsible detracts from the responsibility of the other project participants, thus the use of the seal is depreciated. This leads to further devaluation of the status of the practising engineer to the position of being just another employee.

— The reason so much consulting work goes out of the province is poor salesmanship on the part of Manitoba consulting firms.

— Just because other jurisdictions have corporate practice does not make it good.

ON BOTH HANDS it is agreed protection of the public is the object of the act. Parity of responsibility and authority is necessary.

ON NEITHER HAND our Legal Counsel spoke at great length indicating that when something goes wrong the public likes to see someone take the rap. This is believed to have a deterrent effect and discourage the same thing happening again.

ON BOTH FEET there was an hour of active discussion from the audience. The question of "how" was raised but not fully answered as the terms of reference of the meeting related to the desirability of group practice only.

Although there was the usual good

attendance from Council, I feel that recently graduated engineers would be impressed that Bill Clement was interested enough to come from Thompson but many management engineers from the public sector did not attend. Meanwhile back at the ranch Cassius Clay won on rounds.

Letters

In a letter to President Glass following the presentation of the Association's cheque for \$10,425.00 (\$10,000.00 plus interest) to the University of Manitoba in honour of the University's centennial, Dean Wedepohl wrote as follows:

On behalf of the Faculty of Engineering and the University of Manitoba, I wish to thank you and the members of the A.P.E.M. most sincerely for your donation of \$10,425, in this, our centennial year.

It is a most symbolic event, because it reflects a warmth and cordiality by the A.P.E.M. to the Faculty. It is essential for a faculty of engineering to have close, friendly cooperation with its professional association and I rest assured that this has been achieved and that it will grow in strength in the years to come.

You may rest assured that we will do our best to put the donation to good use. Your suggestion that part of the fund be used to invite a distinguished speaker to Manitoba is an excellent one and will benefit not only the Faculty, but the professional community as well.

I should be most grateful if you would arrange to convey my sentiments to the members of the A.P.E.M., perhaps through the medium of the Bulletin.

Yours sincerely,

L.M. Wedepohl, Dean.

Historical Notes

We are indebted to Wally Rooke for a copy of the Saturday May 13, 1865 issue of The Nor'-Wester (Red River Settlement). J.B. Holmes' new store advertised its offering as "groceries, hardware, cutlery, perfumery, Yankee notions . . . and a fine stock of liquors at wholesale, comprising Scotch and old Bourbon Whiskey, St. Croix Rum, Cognac Brandy." First prize in the Provincial ploughing match was a Birdsall's patent combined clover huller, thresher and cleaner.

Obituaries were very succinct, a complete item reading "Mr. Cobden is dead."

International news indicated President Lincoln had been shot (dateline April 15, 1:30 A.M.) and General Lee had surrendered "on the 9th ult."

Farm land was for sale on Point Douglas, and a 30 foot long house with "nine acres broken out and fenced" was for sale in Portage la Prairie.

The most interesting item for Engineers is the following one headed "Public Works" and outlines the situation in pre George De Pauw and Siggie Goodbrandson days. "Broken bridges and badly-arranged faggot roads, usually coupled with uncharitable remarks upon those whose duty it is to keep them in repair.

"Now, we are convinced that in very many cases these remarks are entirely uncalled for, so far as any real neglect is implied, for we all know that the road-masters on their certainly not large salaries, cannot be continually riding through their districts watching for broken planks and fallen embankments, and in view of these facts it becomes the duty of every one to inform the road-masters of any imperfection. We had occasion to notice, on a recent visit to the lower part of the

Settlement two broken bridges, and upon informing the road-master, we received an explanation of the cause in the one case, and a promise of immediate attention to the other; and this would be the case, we are confident, in all like circumstances.

There is, however, another — the Ferry Department of the public works — in which we cannot promise so ready a redression of grievances, and it may be that there is a deep, and possibly wise reason for this. The Ferry nuisance may be kept a nuisance to serve to throw into stronger relief the perfection of the other departments; or it may possibly be neglected through sheer ignorance of the facts; and acting on this latter supposition, we have now to inform the Ferry Guardians —

1st. That the Red and Assiniboine Rivers are now, and have been for some time, open.

That large numbers of persons on foot and with animals, are daily crossing; or would cross if they could.

That the means of transportation at present consists of one boat, rotten; one canoe, leaky and muddy; two assistants, small boys; and one Ferryman, drunken.

That the public generally, and ourselves as their representatives, pronounce the whole affair — Boats, small Boys, Mud, and Ferryman, — to be an unmitigated nuisance.

Having now given our opinion, we feel more amiable, and will suggest one other reason why the ferry is not attended to; for bad as it is, it is still better to a person wanting to cross, than either swimming the river or going round, and therefore we suggest — merely suggest — as a reason why the other scow is left uncaulked on the beach, that no ropes are stretched, the

idea that the guardians wish to encourage the use of home products. We can, it is true, buy manilla or hemp-rope; but why buy it when we have shaginappe? Pitch and oakum are procurable, but dear; why then spend the money which might otherwise be held as a reserve fund to feed the Sioux, when blue clay has been found in the case of the present canoe to answer all purposes — that pliable and easily-procured material being at once pitch and oakum. But to thus economize domestic materials, time is required. Blue clay is not to be got till the river falls. Shaginappe is not the work of a moment — even suppose the knives and hides at once procured, it will still take some time to chew enough of it to stretch over the two rivers.

We must wait, then — wait and hope, that when blue clay can be got, when the shaginappe is chewed, that again the boats may ply from shore to shore, secured to the faithful shaginappe, which will remain a triumph of skill and a stretched warning to all foreign, and therefore bad innovations.

Now, Gentleman of the Ferry, a serious word with you. The present arrangement cannot go on. You will have to do something to remedy the present state of things. If you cannot maintain the ferry properly, give it up and do not let it remain as it is. A Gentleman recently proposed a bridge of Boats, and we have reason to think that the Company and others would give pretty freely towards an enterprise of this sort. Act on this suggestion, for it is a wise one, and we think that by offering terms liberal enough, some enterprising individual would undertake to build such a bridge and maintain it, and thus free you from the care of a concern which you have doubtless found as much of a nuisance as have the public."

Presentation to Engineering Faculty

The new era of communication and co-operation between the Faculty of Engineering and the Engineering profession was sealed and blessed at an impressive presentation ceremony held at the Ramada Inn.

The occasion was the presentation in honor of the centennial of the University of \$10,000 to the Engineering faculty from APEM. President Glass, in his presentation remarks emphasized that although the donation was intended to be used for the enrichment of the Engineering program there are no strings attached. He said that the objective of the profession was to provide future Engineering services in Manitoba of a quality equal to that anywhere in the world.

In responding, Dean Wedepohl thanked the Association for the hand of friendship which was extended to him on his arrival in Manitoba. He stated strongly his recognition of the benefits that are being and will be enjoyed, from close association and friendship between the two groups. He sees the generous donation as a symbol of that friendship.

The University President, Dr. Campbell, was present along with many faculty members, APEM councillors and members of the University Liaison committee. The consensus: this is money well spent. — K.M.J.

Congratulations to Alan Ross Friesen and Andrew Clark who obtained a mark of 100% on the professional practice examination required of all applicants.

On Getting Elected

There are not many jobs for which the perk/work ratio is as low as that of an APEM councillor. This being the case, one would expect a universal lack of enthusiasm on the part of those seeking election to Council. Such is the nature of men, and Engineers, however, that once they've agreed to run they truly want to win.

Winning is not always that easy. Integrity, responsibility, intelligence, enthusiasm, service to the Association, even good looks and charisma are not important factors. What is important is knowing people. Engineers apparently have difficulty bringing themselves to vote for someone they don't know personally — faults and all.

As a corollary, it has also been observed that consulting Engineers will vote for a consulting Engineer even if he represents the fiercest of competitors. It is also probably true that Government Engineers tend to vote for Government Engineers simply to represent their situation on council.

All of this has an unfortunate side effect. Consultants and Engineers working for organizations with large Engineering staffs find it much easier to get elected than do those in small companies. Even the published platforms seem to have little effect on swaying voters. Perhaps a "meet the candidates" seminar would help even out the odds. — K.M.J.

Images

Polishing the Mirror Is Not the Solution

From time to time we still find ourselves challenged with the question: "What is an engineer?" Understandably, we hear it from "outsiders": labour boards and laymen and lawyers; but what is surprising is that

we are hearing it more often from our professional engineering colleagues. All of which would be simply interesting if it indicated only some technological navel-gazing or a particularly philosophical period in the development of the identity of a major profession. But it is asked seriously and not always in a constructive or supportive way; it is sometimes asked to challenge the appropriateness of an individual's professional status.

One would think that, after several hundred years of development, we would not be asking one another who we are. Nor does the fact that the last fifty years have witnessed almost incomprehensible changes in professional responsibilities explain it away. I suspect that such an excuse only illustrates our ability to rationalize and not much else — except perhaps to display our ignorance.

So, what does explain this?

The definition lies not in our stars but in ourselves, not in any general or explicitly philosophical pursuit of the answer on our part but through the simple process of completing and signing a deceptively simple form declaring our individual opinions AS PROFESSIONALS that a graduate or other applicant for registration HAS COMPLETED A PERIOD OF SUITABLE ENGINEERING EXPERIENCE.

I am not suggesting that we do this improperly or carelessly; it is usually done carefully with a full understanding of the professional responsibilities involved. And it is not a random process; the opinions reflect province-wide, national and perhaps even international standards of what constitutes professional engineering. It may have a provincial bias but I doubt if, statistically, our sense of professional standards differs much from that in To-

ronto, Minneapolis, London or Paris. I suppose, occasionally, someone completes one of the reference forms assuming that as long as the dates are correct, someone else will judge the appropriateness of the experience, and sometimes that's true. The staff of the Association does its best to vet the responses and draw to Council's attention any potentially questionable cases and, from time to time, the Council questions a referee as to his intent. It finds it very difficult indeed to question a referee's professional opinion; to the extent of my knowledge, it never has.

So the operative definition is basically that used by the membership, reflecting the changes in society's expectations of the profession as it PER-

CEIVES them but most importantly thereby defining at any one time what it believes to be SATISFACTORY PROFESSIONAL ENGINEERING.

As in most democratic processes, the explicit explanation of how the constituents arrive at a conclusion or, equally, what that conclusion actually is — in this case, the definition of engineering — is very difficult, if not impossible, to identify. Nevertheless, if we wish to 'improve our image' or argue for ourselves a more respected and acknowledged place as a profession, we must remember that.

"Quality is never an accident. It is always the result of intelligent effort. There must be the will to produce a superior thing." — R.A.J.



At the \$10,000.00 luncheon, Dean Wedepohl, Jack Karras (Chairman, University Liaison Committee), Dr. Campbell (University President), and President Ted Glass in the foreground. Background dozers, eaters and thinkers include Councillor Rudy Isaak, Editor John Lewis, Councillors Denson and Bouskill, Registrar Algeo, Board of Governors Chairman Ray McQuade.

Council Struggles with National Policy

At the September 12 meeting a CCPE policy statement on the utilization of Canadian Engineering Services was given close attention by Council. The paper points out that Canadian Engineering capability is "strong, competent and versatile". It recommends that all government assisted projects should specify the use of Canadian Engineers. Council agreed with this but turned down a recommended requirement that firms carrying out work in Canada for Canadian projects must be owned by Canadian Engineers.

A questionnaire prepared by a task force evaluating the Canadian Council of Professional Engineers (CCPE) activities was completed by a select committee headed by President Glass to indicate the Manitoba position. The questionnaire indicates that Manitoba feels CCPE essential particularly for the Accreditation Board, Manpower Council, Syllabi of Examinations and National Committees. The committee feels that Public Relations and political lobbying should be high on the CCPE list of essential services. They should provide a high-profile national voice for the profession in Canada.

In evaluating the present performance of CCPE the committee was highly critical, rating much of the work of CCPE as marginal or deficient.

A personal questionnaire response was also submitted to the task force by a past president but it was not clear whether any other individuals had an invitation or opportunity to influence the study in this way.

The meeting handled the usual host of other business and was preceded by a meeting with Senior Engineers of the Manitoba Telephone System to dis-

cuss the practice of Engineering and the use of Engineering titles in that organization. — K.M.J.

Licences Issued

R.D. Adams (Alta.), B.R. Aikman (B.C.), G.F. Bourassa (Sask.), R.A. Campbell (Alta.), P.C. Ellard (Ont.), W.D. Hall (Sask.), F.D. Larson (Alta.), H. Nussbaum (B.C.), K. Nyhus (Alta.), D.E. Rice (Alta.), A. Smerek (Alta.), A.R. Veevers (Alta.), B.F. Webster (B.C.), H.R. Salisbury (Sask.), L.J. Torok (Ont.), R.R. Borden (Alta.), A.R. Drummond (Ont.), F.I.L. Dyke (Ont.), T.J. Ecsedi (Ont.), J.W. Fry (Alta.), E. Irish (U.S.A.), N.W. Ledray (Sask.), S.R. Switzer (Alta.), J.C. Wilkinson (Sask.)

Engineering Graduates Enrolled

R.A. Armstrong, K.G. Babb, R.P. deLhorbe, J.S. Heuvel, R.D. Kitson, S.R. Lipa, K.G. Katieshin, T.A. McLelwain, J.W. Pesto, R.A. Porath, P.G. Porpiglia, N. Ying-Yan Tam, D.J. Taniguchi, J. Vos, C.A. Walker, R.G. Winkler, D.E. Carr, D.B. Cutliffe, M.H. Lean, R.T. Leczynski, W. Marusenko, W.J. Mazyłowski, A.W.F. Ruban, F.J.L. Waggoner.

Engineering Alumni Dinner

The 57th Annual Dinner Meeting of the Engineering Alumni Association will be held on Thursday, December 29th, 1977, at the Winnipeg Squash Racquet Club, 275 Stradbroke Avenue. Cocktails: 6:00 p.m., Dinner: 7:00 p.m., Cash Bar. Tickets at \$11.00 each are available from Ross Adamson at 946-7363.

Think This Over

Annual dues for 1977 for architects are \$175.00, for pharmacists \$160.00, for dentists \$400.00.



**Coming
Event**

**Curling Bonspiel
January 10, 1978**





Monica Todd and Joan McKinley in the APEM office.



**Coming Event
Spring Dance
March 11, 1978**



Coming Events

WEDNESDAY, NOVEMBER 9, 1977, "Application of Discrete Power Control to an Isolated DC System", by Bill Buhr of Manitoba Hydro. Meeting at noon Pembina Hotel.

WEDNESDAY, NOV. 16, 1977. "Hermes Satellite Program in Canada" by Mr. J.W.B. Day, Manager, Communications Systems Engineering with the DOC. This communications Chapter meeting will be held at 8:00 p.m. in Room 604 of the MTS Building, 489 Empress Street.

Thursday November 17	12 Noon	Wildewood Club 761 North Drive	The Cumberland Marsh Project Mr. D. McIntyre, Ducks Unlimited	CSCE
Thursday November 17	8:00 p.m.	Manitoba Hydro Bldg., 820 Taylor Ave., Conf. Rm. A	Advanced Industrial Water Management Systems Dr. R.A. Gallop, Univ. of Manitoba	CSME
Thursday November 24	9:00 - 4:30 Regis. 8:30 - 9:00	Winnipeg Inn	E-Con '77 An all day conference on the Economics of Energy featuring 12 speakers. Keynote speaker, M.A. Crowe, Chairman, National Energy Board. — Registration and Luncheon \$25.00 —	EIC
Friday November 25			APEM Annual meeting	
Tuesday December 6	12 Noon	Wildewood Club 761 North Drive	Gas Pipeline Routes in the Yukon Dr. K. Adam, Templeton Engineering	CSCE & CSME
Wednesday December 7	12 Noon	Wildewood Club 761 North Drive	Pile Load Capacities in Cemented Glacial Till in the Winnipeg Area Mr. A.F. McClellan, Block McClellan & Associates	CGS

FIFTY-EIGHTH

ANNUAL GENERAL MEETING

Friday, November 25th, 1977

WINNIPEG INN**PROGRAMME**

- 10:00 a.m. Registration
- 10:30 a.m. Official Opening by President
Announcement of Early Bird Draws
Introduction of Head Table
Minutes of Annual Meeting of November 26, 1976.
Declaration of Councillors Elected
Reports
Auditors' Report and Appointment of Auditors
Draft Budget
Nominating Committee Appointments
Resolutions
Greetings from other Associations and CCPE
- 11:30 a.m. Reception
- 12:00 Luncheon
Introduction of Head Table
Presentation of Awards
Declaration of Officers Elected
The Gavel Ceremony and the Presentation of the President's Certificate will take place at the dinner.
- 2:00 p.m. Annual Meeting Continues
Mr. Justice J.F. O'Sullivan will speak on the role of a Professional Engineer acting as an expert witness — the responsibility and obligations.
Salary Recommendations for 1978
Other Business
- 6:00 p.m. to 1:00 a.m. Reception, Dinner, Dance

Bring this Programme to the Meeting.