



THE MANITOBA PROFESSIONAL ENGINEER

November, 1962

Bulletin of the Association of Professional Engineers of the
Province of Manitoba

FORTY-THIRD

Annual General Meeting

Thursday, November 29, 1962, 2.00 p.m.

FORT GARRY HOTEL

Reception and Dinner 6.00 p.m.

PROGRAMME

1.30 p.m. Registration Opens.
2.00 p.m. Official Opening by President
Minutes of Annual General Meeting of December 9, 1961
Committee Reports
President's Address
Secretary's Report
Auditor's Report
Appointment of Auditors
Declaration of Councillors Elected

RECESS—Coffee
Confederation
Declaration of Officers Elected
6.00 p.m. Reception
6.30 p.m. Dinner
Guest Speaker: G. B. Williams,
P. Eng., Assistant Deputy Minister
of Public Works, Ottawa.
"The Rogers Pass Story"
Ceremony of Turning Over Gavel
to Incoming President.

Bring this with you to the Meeting

Published by the Association of Professional Engineers of the Province of Manitoba
418 — 265 Portage Avenue, Winnipeg 2, Manitoba

President — R. E. CHANT, P. Eng.

Vice-President — T. E. WEBER, P. Eng.

Secretary and Registrar — O. MARANTZ, P. Eng.

The Manitoba Professional Engineer is published under the direction of the Bulletin Committee

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Vol. 5

WINNIPEG, MANITOBA, NOVEMBER, 1962

No. 4



G. B. WILLIAMS, P. Eng.

Guest Speaker — Annual Meeting

A Past President of this Association, G. B. Williams, now Assistant Deputy Minister of the Department of Public Works at Ottawa, will be the guest speaker at the annual meeting, on November 29th, at the Fort Garry Hotel. Mr. Williams will speak on the Rogers Pass Story.



President's Report

The conclusion of today's proceedings, marks the end of the tenure of office of the 1962 Council and my term of office as President of the Association of Professional Engineers of the Province of Manitoba. One of my final duties is to report on the year's activities

To some degree this task is redundant, due to the thorough reporting of your Bulletin Committee and other articles published from time to time in the Bulletin. Therefore to avoid direct repetition, I intend to comment on the events of the current year with added thoughts indicating probable future action. This is a very safe practice since I will only be an ex-officio member in the coming year. However, I have no intention of incurring the wrath of the President-elect for he will be in a position to exact his revenge.

The year cannot be marked by a list of accomplishments but in my estimation it was a busy year. The main pre-occupation over the normal business was the subject of Confederation. Council entered the year with an adverse legal opinion hampering action on the Final Report of the Engineers Confederation Commission. A suitable solution to this difficulty was worked out and after several committee meetings and a meeting of a "Committee of Council as a Whole", it became clear that a majority of the members of Council were in favour of accepting the Report with certain changes being deemed desirable.

My terms of reference at a meeting of the Presidents of the constituent bodies of The Canadian Council of Professional Engineers and at the annual meeting of Canadian Council were contained in these "desirable changes", which were concerned with the administration and the financial arrangements of the Branches. A number of points requiring negotiations with the Engineering Institute of Canada emerged from the annual meeting of Canadian Council. Attempts to negotiate on these and other differences indicated that an incompatible situation existed but all parties agreed to submit the Final Report of the Engineers Confederation Commission to their members for a ballot. This referendum is scheduled to take place between January 15 and February 15, 1963. The current Council members of this Association are in favour of a unified Profession but are divided on the form of the Con-

federation proposed. Discussions on "A Plan for Unity" are now entering their tenth year since first introduced by Mr. J. Herbert Smith, P. Eng., the President of the Association of Professional Engineers of the Province of Ontario in 1953. It is hoped that the members of this Association have maintained sufficient interest in Confederation to be informed and that you will complete your ballot when the issue is placed before you. ,

This year has been a particularly busy year for our Registrar. There has been activity with the Department of Industry and Commerce regarding the registrations of Companies and of Partnerships practising engineering. One court case was initiated against mal-practising but the action was dropped when the offensive action ceased. There are several cases of misrepresentation of which we are aware and action has been taken or is pending. These are generally in the form of a job title and when the formal job description is requested it is found that the duties do not include engineering. However, without the services of a full-time registrar only a limited amount of corrective action on these and other act violations can be taken. But regardless of the capacity of our staff we require the complete support of you, as a member of the Association, support in detecting and correcting what you or I have been in the habit of dismissing as minor infractions. You must earn your status as an engineer by your work, but you can improve and maintain that status by assuring that only those qualified to practise are allowed to use the title. The same remarks are applicable to the placement of the seal on engineering plans and works — suggest, if you are in a junior position, insist, if you are in a senior position. The Association is its members, it is not a Council and a paid executive.

In a recent issue of the Bulletin the work of the Association members on the Technology Advisory Committees of the Manitoba Institute of Technology was noted. May 1, again acknowledge their voluntary services and report the progress. The agreement between the Dominion Government and the Provincial Government on the financial arrangements for the Manitoba Institute was signed in December, 1960, and ends in April, 1963. It was therefore necessary to initiate the building programme before proceeding with the selection of the laboratory equipment and the planning of the curriculum. As far as the Engineering courses are concerned the laboratory equipment and the curriculum are now essentially completed.

The fact that the Association was requested to assist in the planning of the Institute is significant. But to make the plans effective and to control the relationship of the Technologist and the Professional Engineer, the

Association must set up a suitable method of registration for the Technologists and assist in the maintenance of their standards.

The establishment of the facilities for training technologists creates another category in technical occupations. The technologists will be better trained to fill the sub-professional work than the University graduate and the demand for graduates will be reduced. A good supply of technicians will also assist in reducing a shortage of technical manpower in that the productivity of an engineer can be increased by the effective use of technicians.

These thoughts should not create any alarm within the Profession; in the United States, a recent survey made by the Engineering Manpower Commission of Engineers Joint Council warns of the development of another engineering manpower shortage. This study also indicated the need for additional technicians, the industries surveyed were only using two technicians for every five engineers. Judging by other figures available from the Dominion Department of Labour, Canada's ratio of technicians to engineers is probably still lower and the Manitoba Institute of Technology is only planning to graduate one technician per graduating engineer. Thus, there will be a considerable passage of time before the supply will meet the requirements. There is also some concern that the technicians or technologists will assume work of a professional nature beyond that for which they are trained.

The situation is far too complex to analyse in a few short sentences but there are at least two forms of action open to us at this time. One, to acknowledge that the future duties of the professional engineer will be up-graded and that the practicing engineer must keep abreast of advancing methods and technical developments. Despite this need it was found necessary to cancel our evening course programme this year due to the lack of support from the membership. My own field of endeavour demands that I keep up, and this requires me to cover a fairly wide spectrum of technical meetings; I am always appalled to note the lack of the young engineers present at the meetings. The other path open to us is to redouble our efforts in contacting the young people through high school counselling and by whatever avenues may be available. These remarks are directed at every member of the Association, Council members, the Public Relations Committee and the individual members. It is not a matter of selling our Profession, but it is a matter of supplying the high school graduates with accurate and sufficient information so that they can properly assess their desires and abilities. It is now more important than ever to guide those with a high general potential and an interest in a technical occupation into the ranks of the Professional Engineer.

There are many additional aspects of the year's activities that are worthy of mention but I cannot omit to report that the details of a Meritorious Award for outstanding achievement have been finalized. The presentation of the medals to the first recipients will be made this evening.

The recipients are: Mr. E. V. Caton, P. Eng.; Mr. J. W. Sanger, P. Eng.; Mr. A. J. H. Taunton, P. Eng.

The year was also marked by the retirement of three members from the official activities of the Association. They were: Mr. J. C. Gillespie, P. Eng., Editor of the Bulletin; Mr. G. Flavell, P. Eng., Member of Council; Dr. C. S. Landon, P. Eng., Past President.

The occasions were marked by ceremonial dinners and in the case of Dr. Landon a very appropriate award was presented to him for his continuous meritorious service to the Association from 1934 to 1962.

In concluding may I offer my sincere thanks to the committees for their continued hard work and contribution to the activities of the Association, to the members of Council for their co-operation and support in every aspect of our relationship, to the Secretary-Treasurer and Registrar and to the Executive Secretary for their generous support and unselfish interest in the welfare of the Association.

To you the members my thanks for the opportunity and privilege of serving as your President, it has been an interesting and gratifying experience.

R. E. CHANT, P. Eng.,
President.



Report of Secretary-Treasurer and Registrar

Report of the Secretary-Treasurer and Registrar of the Association of Professional Engineers of the Province of Manitoba for the year ending October 31, 1962.

To the President, Council and Members:
Gentlemen:

I herewith present the report of the Secretary-Treasurer and Registrar for the year 1962.

Council held 9 meetings during the year, and councillors dealt with specific problems at numerous committee meetings. The matter of Confederation alone demanded a great deal of time and study, as Canadian Council sought to bring together the views of all Associations at its annual meeting.

The activities of several committees increased, many of them due to their own initiative. The size of the Bulletin was increased; the drive for new members was maintained; the Board of Examiners devoted a great deal of time to assessment of curricula of Canadian Universities for the purposes of registration.

Registration numbered 132, and total membership now stands at 1288, for a net gain of 67, taking into account losses by transfer, etc. Council was pleased to register three applicants who qualified after years of writing examinations under the new syllabus. The enrollment of engineers-in-training was 67, and the present total is 112. The corresponding figures for engineering pupils are 19 and 25, respectively. These annual and total figures are the highest recorded to date.

Council, and the office, had occasion to deal with several cases involving individuals or companies who attempted to take advantage of the designation "Engineer" or "Engineering".

Contact with other Associations was maintained by representation at their annual meetings. President Chant attended the Ontario meeting; Mr. Tom Weber was present at the Alberta meeting; I was an observer at the Saskatchewan meeting. President Chant, Mr. Wardrop, and I attended the annual meeting of Canadian Council in Quebec City. Mr. Wardrop presided at the meeting quite effectively, and somewhat bilingually.

Mr. S. J. Borgford represented the Association for the course dealing with shielding analysis technique relative to sources of radioactivity, offered again at Arnprior by the federal government. Mr. M. N. Collison of Flin Flon, and Mr. R. Hood undertook to represent us at the Emergency Planning Course offered at Arnprior.

We again supported engineering student activities by contributing to the annual Kipling ritual, and to a dinner sponsored by the local branch of the E.I.C. and the A.P.E.M. Our scholarships and slide rule awards express our support of the engineering Faculty of the University of Manitoba.

This Association was requested to advise on the development of the Manitoba Institute of Technology, which is now under construction. Several members have given, and will likely continue to give, many hours of their time in advising on space, equipment and teaching requirements.

Our office continues to be active in assisting members and engineers-in-training to find employment, and in assisting employers who sought the services of engineers.

We regret to record the deaths of the following members during 1962: F. P. Y. Arsenault, J. S. Verner, C. D. Lill.

I would like to record my thanks to our executive Secretary, Mrs. D. L. Dunklee, for her very good work for the Association, and for the assistance given me on numerous occasions.

Respectfully submitted,

O. MARANTZ, P. Eng.,
Secretary-Treasurer and Registrar.

AUDITORS' REPORT

Winnipeg, Manitoba,
November 9, 1962.

The President,
Association of Professional Engineers
of the Province of Manitoba,
Winnipeg, Manitoba.

Dear Sir:

We have examined the accounts of the
ASSOCIATION OF PROFESSIONAL ENGINEERS
OF THE PROVINCE OF MANITOBA
for the twelve months ended October 31, 1962, and submit herewith for your information the following financial statements:

- Exhibit A Comparative Statement of Assets and Liabilities,
October 31, 1962 (October 31, 1961),
- Exhibit B Comparative Statement of Revenue and Expenditure,
Twelve months ended October 31, 1962
(Ten months ended October 31, 1961),
- Schedule 1 Investment Account,
For the twelve months ended October 31, 1962,
- Schedule 2 Schedule of Changes in Memberships,
For the twelve months ended October 31, 1962.

We report thereon as follows:

COMPARATIVE STATEMENT OF ASSETS AND LIABILITIES

Cash and Bank Balances: The cash on hand, \$54.40, was verified by actual count at date of audit. Transactions on the Bank Accounts were audited in detail for the year under review and the balances on deposit totalling \$6,701.45 were confirmed by certificate obtained direct from the Bank.

Investments: Direct confirmation was obtained from your Bank to the effect that Bonds totalling \$23,400.00 par value were held for safekeeping.

GENERAL

Your accounts continue to be well maintained by your Registrar and the Executive Secretary.

We shall be glad to be of service should any further information or explanations be desired in connection with the attached accounts.

Yours faithfully,

SILL, STREUBER, MEGER & FISKE,
Chartered Accountants.

CERTIFICATE

To the Members,
Association of Professional Engineers of the Province of Manitoba.

We have audited the accounts of the Association of Professional Engineers of the Province of Manitoba for the twelve months ended October 31, 1962, and have obtained all the information and explanations we have required.

Government of Canada, Provincial and Provincial Guaranteed Bonds, par value \$23,400.00, on deposit for safekeeping purposes with the Bank of Montreal, are in accordance with a certificate from the Bank dated November 7, 1962.

Satisfactory vouchers were inspected for all disbursements.

In our opinion the attached Statement of Assets and Liabilities as at October 31, 1962, and Statement of Revenue and Expenditure for the twelve months then ended, are properly drawn up so as to exhibit a true and correct view of the state of the Association's affairs as at October 31, 1962, and the results of its operations for the fiscal year ended that date, according to the best of our information and the explanations given to us, and as shown by the books of the Association.

All transactions of the Association that have come within our notice have been within the objects and powers of the Association, to the best of our information and belief.

Winnipeg, Manitoba,
November 9, 1962.

SILL, STREUBER, MEGER & FISKE,
Chartered Accountants.

EXHIBIT A

COMPARATIVE STATEMENT OF ASSETS AND LIABILITIES

	October 31, 1962	October 31, 1961
ASSETS:		
Cash and Bank Balances.....	\$ 6,755.85	\$ 6,928.44
Investment Account:		
Government of Canada, Provincial and Pro- vincial Guaranteed Bonds, at par.....	23,400.00	20,200.00
Office Equipment, at nominal value.....	1.00	1.00
Total Assets.....	<u>\$30,156.85</u>	<u>\$27,129.44</u>
LIABILITIES:		
Deposits on Applications Pending:		
Registrations.....	\$ 606.00	\$ 642.00
Engineers-in-training.....	776.00	753.00
Engineering Pupils.....	50.00	26.00
Members' Accounts Paid in Advance:		
Annual Dues.....	15.00	15.00
License Fees.....	5.00
Examination Fees.....	1,000.00	1,095.00
Accounts Payable:		
Sundry.....	325.00	325.00
Total Liabilities.....	<u>\$ 2,777.00</u>	<u>\$ 2,856.00</u>
Excess of Assets over Liabilities.....	<u>\$27,379.85</u>	<u>\$24,273.44</u>
SURPLUS:		
Balance at beginning of Period.....	\$24,273.44	\$20,835.77
Net Surplus for Period.....	3,136.41	3,437.67
	<u>\$27,409.85</u>	<u>\$24,273.44</u>
Deduct: Premium Paid on purchase of Manitoba Hydro Electric Board Bonds....	30.00
Balance, October 31.....	<u>\$27,379.85</u>	<u>\$24,273.44</u>

EXHIBIT B

COMPARATIVE STATEMENT OF REVENUE AND
EXPENDITURE

For the twelve months ended

REVENUE:	October 31, 1962	October 31, 1961 *
Annual Dues—Current Period.....	\$17,841.00	\$16,807.50
Licenses.....	240.00	310.00
Registration Fees.....	2,640.00	2,220.00
Examination Fees.....	320.00	155.00
Miscellaneous Income.....	287.00	294.00
Special Activities:		
Spring and Fall Dances	130.52	32.75
Investment Account:		
Interest on Bonds.....	\$878.98	772.11
Interest on Savings Accounts.....	168.94	23.99
	1,047.92	
	\$22,506.44	\$20,615.35
 EXPENDITURE:		
Retiring Honorarium—Dr. C. S. Landon.....	\$ 900.00	\$ 675.00
Honorarium—Registrar, Prof. O. Marantz.....	1,200.00	900.00
Honorarium—Registrar, Dr. C. S. Landon.....	166.70
Salary—Executive Secretary.....	4,650.00	3,750.00
Office Rent.....	1,095.42	926.40
Printing and Office Supplies.....	2,786.15	3,541.97
Telephone and Light.....	374.59	304.90
Postage.....	851.22	597.09
Canadian Council Levy.....	1,714.50	1,554.53
Council and Committee Meeting Expenses.....	415.78	174.44
Annual Meeting.....	323.35	189.20
Audit Fees.....	280.00	310.00
Legal Fees.....	80.00	90.00
Certificates and Seals.....	807.95	681.91
Publication—"The Manitoba Professional Engineer".....	1,484.46	1,005.86
Public Relations.....	60.28	3.15
Travelling.....	513.40	533.30
Miscellaneous, including Safekeeping Charges, Memberships, Flowers, Telegrams, etc.....	556.07	404.31
Special Activities:		
Roster Printing Costs—1962.....	401.69	623.90
Deficit on Golf Tournament.....	34.53	67.12
Student Activities, including Graduating Class Dinner, University Scholarships, Slide Rule Awards, etc.....	840.64	677.90
	\$19,370.03	\$17,177.68
Excess of Revenue over Expenditure for year..	\$ 3,136.41	\$ 3,437.67
Net Surplus for year.....	\$ 3,136.41	\$ 3,437.67
		(*10 mos.)

SCHEDULE ONE

INVESTMENT ACCOUNT

For the twelve months ended October 31, 1962

Investments held	Par Value	Market Value
November 1, 1961.....	\$20,200.00	\$19,212.75
Add:		
Purchase of Province of Manitoba 4¾% Savings Bonds, due April 1, 1972.....	\$1,200.00	
Purchase of Manitoba Hydro Electric Board 5½% Bonds, due November 15, 1982.....	\$4,000.00	\$ 5,200.00
		\$25,400.00
Deduct:		
City of Winnipeg 3% Debentures, due November 1, 1961, redeemed.....	\$ 2,000.00	
Investments held October 31, 1962.....	\$23,400.00	\$22,158.25

INVESTMENT PORTFOLIO
as at October 31, 1962:

	%	Maturity	Par Value	Market Value	Interest Income
Government of Canada..	2¾	1967-68	\$ 500.00	\$ 455.00	\$ 13.74
Government of Canada..	4¼	1972	500.00	473.75	21.24
Government of Canada..	4½	1983	13,200.00	12,259.50	594.00
Province of Manitoba....	5	1971	1,000.00	1,000.00	50.00
Province of Manitoba....	4¾	1972	1,200.00	1,200.00
Province of Manitoba....	3	1965	3,000.00	2,790.00	90.00
Manitoba Hydro Electric Board.....	5½	1980-82	4,000.00	3,980.00	110.00
			\$23,400.00	\$22,158.25	

Interest Income transferred to General Account.....	\$ 878.98
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SCHEDULE TWO

SCHEDULE OF CHANGES IN MEMBERSHIP

For the twelve months ended October 31, 1962

Members on Roll, November 1, 1961.....	1,221
Add:	
Reinstatements.....	9
Registrations.....	121
Transfers.....	14 144
	1,365
Deduct:	
Written off for non-payment of dues, etc.....	26
Members Deceased.....	3
Transfers.....	35
Resignations.....	13 77
Members on Roll, October 31, 1962.....	1,288
Regular Members.....	1,280
Life Members.....	8
	<u>1,288</u>

Committee Reports

This year at the Annual Meeting, Committee Reports will not be read. They are presented herewith for the information of members and Committee Chairmen will be available at the Annual Meeting to answer any questions.



SOCIAL COMMITTEE

This year, as in past years, the Social Committee has attempted to obtain the attendance of as many members of the Association as possible at our social functions, namely the Annual Dinner and Dance and the Fall Frolic.

On Friday, February 16th, 1962, the 33rd Annual Dinner and Dance was held in the Skyview Ballroom at the Marlborough Hotel in Winnipeg. The format of the evening included before-dinner cocktails, the dinner, followed by dancing which included a period of entertainment. A total of 450 people attended this function. The committee was disappointed in the attendance which had dropped from 509 persons the year before. Consequently this committee is studying new ways to improve this function and among them are tentative plans to hold the next function at the Royal Alexandra Hotel.

The Fall Frolic was held at the Albany Room of the Assiniboine Hotel on Friday, October 19, 1962. The dance followed the usual procedure of dancing, awards and smorgasbord. An added attraction that was received very well was the Engineers' Wives Chorus Line. There were 260 people in attendance, compared to 246 people at the previous year's function.

This year, also, Council has given the Social Committee the Annual Meeting to supervise. Your committee is now engaged in arrangements for this affair.

I would like to thank the following members of the committee for their enthusiastic support and efforts on your behalf: L. S. Earp, Vice-Chairman, V. W. Chorley, C. R. Pike, G. C. Booth, M. E. Coutts, R. O. Jonsson, J. E. Scotten, D. R. Grimes, R. S. Crawford, L. R. Campbell.

Your Executive Secretary, Mrs. M. L. Dunklee, has throughout the year been a tremendous help in the success of our social functions, and on behalf of the committee, I would like to thank her for her valued assistance.

Respectfully submitted,

A. G. BURROWS, P. Eng.,
Chairman.

STUDENT LIAISON COMMITTEE

The Student Liaison Committee was set up in the Spring of 1962 and held an initial meeting with student representatives shortly thereafter.

Terms of reference are still being negotiated. The Committee will consider past Association participation in student activities and will make recommendations regarding future participation.

During the past 12 months this Association participated in the following student activities:

In the Fall of 1961 a contribution of \$113.50 was made toward the cost of a dinner meeting for students sponsored by the E.I.C.

A contribution of \$50.00 was made to the University of Manitoba Engineering Society for their publication *The Slide Rule*.

The Association assumed the financial responsibility for lunches served to students and members at the ceremony of the Kipling Ritual.

Two scholarships totalling \$500.00 were presented.

Assistance was given to students in obtaining summer employment.

The Public Relations Committee, on behalf of the Association, presented three slide rules to students entering first year engineering this Fall.

It is anticipated that there will be no specific projects sponsored directly by the Association with the students but that support and assistance can be given through existing undergraduate organizations.

Action will be taken to publicize among students the function and purpose of the Association of Professional Engineers of the Province of Manitoba and the areas where services can be provided for students if sufficient interest indicates this would be desirable.

Committee members include E. F. Mackenzie, W. N. Isberg, R. C. Sommerville (Association members) and H. Wackman, B. Watson and D. Brown (Student members).

Respectfully submitted,

C. R. PIKE, P. Eng.
Chairman.

PUBLIC RELATIONS COMMITTEE

Every member of every organization leaves some definite impression of that organization with everyone he meets. Your Public Relations Committee is able to pursue individual facets of informing the general public about the Engineering Profession, but it is up to every one of us to show and say what we are, day by day, at every opportunity. Every member of the Association is an active member of the Public Relations Committee.

In January, an article covering the history, requirements and opportunities in Engineering was carried on the Teen Page of the Free Press. Response to the article was excellent as noted by the many requests for further information which came into the Association office. An interview on CJAY-TV's career guidance program later in the year, however, had a very poor response.

Career guidance talks were continued, and a trial talk was given using a National Film Board filmstrip on Engineering. It was felt that this filmstrip was not too well suited for our use and work was started on a new Speaker's Kit. This will include a locally made filmstrip, the equivalent in slide form, and a recorded commentary. The preparatory work has been completed and it is expected to have the kit ready early next year.

For the second year, the Association presented slide rules to the top three students entering Engineering at The University of Manitoba. These are engraved with the recipient's name and the case is embossed with the A.P.E.M. crest. This year's winners will be in attendance at the Annual General Meeting and will have the slide rules officially presented at that time. They are:

Horst D. Pacher
Horst E. Wichert
Terry H. Deutscher

This year has also seen the integration of effort of the A.P.E.M. Public Relations Committee and the E.I.C. Public Relations Committee on matters concerning both groups.

It is largely as a result of the wholehearted co-operation of both groups that our major goal has been achieved. After a slow start with interviews, the C.B.C. has granted fifteen or thirty minutes (whichever will serve us best) in which to present a television program outlining the history, educational requirements, growth, and diversity of Engineering effort in Manitoba. A producer has been assigned to assist the two Committees in the preparation and presentation of this program. The basic content and format have been agreed upon and work is presently under way to film the de-

sired sequences. While no firm date or time has been chosen as yet, it is expected that it will be shown early in the coming year. We will keep you posted.

We feel a great deal has been accomplished this year and thanks for this are due to Mrs. Dunklee, President Chant, and the many Councillors and members who gave so much of their time and effort.

Respectfully submitted,
R. R. DUTKA, P. Eng.,
Chairman.



BOARD OF EXAMINERS

BOARD MEMBERS, 1962

ELECTRICAL

R. A. Johnson
S. B. Anderson
C. E. Pontifex
G. W. Swift

CIVIL

M. J. Lupton
A. J. Carlson
E. Dolhun

MECHANICAL

D. W. Craik, Secretary
A. H. Pask
C. P. Bennett
C. R. Bouskill

GEOLOGICAL

G. A. Russell,
Chairman
B. Wilson

The present board has agreed to continue to January, 1963, at which time a revised membership will be recommended to Council.

APPLICATIONS

During 1962, which was marked by a drastic decrease in applications for registration, your board held two meetings. Six applications were processed as compared with twenty applications in the previous year. In the period from February 26th, 1962, to October 15th, 1962, only one application was received.

EXAMINATIONS

Examinations were held in April, 1962, and were conducted in space made available by the University of Manitoba on the Fort Garry campus. The system worked extremely well due to the concerted efforts of your Secretary and Registrar, Mr. Oscar Marantz and your Executive Secretary, Mrs. Dunklee.

Twenty papers were written with 13 passes and 7 failures. This is a considerably better "passing average" than in previous years. As reported in the last annual report of the board, examinations are now held only once a year — in April — instead of twice a year.

ACCEPTABLE CANADIAN CURRICULA

Mr. L. M. Nadeau, Executive Secretary of The Canadian Council of Professional Engineers has continued his activity in the field of

securing more uniformity in the acceptance of engineering curricula.

Your board, throughout the year, has continued its assessment of various curricula across Canada. There has been a marked tendency towards a narrowing of courses of study towards specialization or even super-specialization. Wherever it was believed that specialization had become too narrow — with the elimination of important engineering studies — recognition was not accorded. Recognition was also withheld in the case of curricula which, while masquerading under the name of engineering contained insufficient instruction and training.

REVISION OF EXAMINATION SYLLABUS

A committee has been set up by Canadian Council to revise the 1959 Syllabus of Examinations, said revision to become effective in 1964. If any members of the Association have thoughts in regard to this revision, they are invited to submit same — by letter — via the Association office.

ACKNOWLEDGMENTS

Once again it is my pleasure to acknowledge the staunch performance of your Executive Secretary, Mrs. Dunklee — often in the face of quite exasperating situations. My warm thanks also to the faithful members of the board who always come out to meetings on those evenings chosen by the chairman which nearly always turn out to coincide with some sort of meteorological catastrophe. Our thanks also to the Secretary and Registrar — Professor Oscar Marantz — our "go-between" with Council — for his assistance and co-operation.

Respectfully submitted,
 GEORGE A. RUSSELL, Chairman,
 Board of Examiners.



ARCHITECT-ENGINEER COMMITTEE

The Joint Architect-Engineer Committee by Agreement with the Manitoba Association of Architects is composed of three representatives from each Association. In 1960 the Council of our Association agreed that the Engineers on this Committee would be

- (1) A member of Council
- (2) A consulting engineer appointed by Council from the Consulting Engineers Committee
- (3) A member appointed by the Council from the membership at large.

The Chairmanship of the Committee alter-

nates on a yearly basis. During 1962, Mr. J. E. Whenham representing the architects, was Chairman. The members were V. Sobkowich and R. Gemmel from the M.A.A. and J. L. Greer, J. F. Mills and T. E. Weber from the A.P.E.M. Messrs. Greer and Mills retired from the Committee in July and were replaced by Messrs. L. E. Hurwitz and W. L. Bunting.

At the request of the National Joint Architect-Engineers Committee we submitted a report through the respective Manitoba Councils on the following points:

- (1) Architect-Engineer partnership
- (2) Practice by partnerships and limited liability companies within each Profession
- (3) Relationship of engineers or architects with manufacturers and with suppliers of materials
- (4) Engineers retaining architectural consultants as against retaining them as employees; and the reverse procedure of architects retaining engineers as employees as against retaining engineering consultants.

The Committee at its October meeting completed a report dealing with the place of the architect and engineer in the current hospital building program in rural Manitoba. This report is presently being considered by the Councils of both Associations.

During the past year the discussions at the Committee meetings have been both frank and deliberate. It is an agreed opinion of all members of the Committee that through the reports of the joint committee problems of mutual concern may be resolved and presented to both Councils so that an integrated policy is followed by both Associations in dealing with the public.

Respectfully submitted,
 T. E. WEBER, P. Eng.



MEMBERSHIP COMMITTEE

The first activity of the 1962 membership committee was a meeting with a group of approximately 50 Engineering students at the Fort Garry campus at noon on March 5. On short notice Dr. C. S. Landon replaced the speaker, Mr. W. J. Adams, who, because of illness, was unable to attend. Considerable interest in the Association was indicated by the students.

Mr. T. E. Weber spoke to a group of approximately 100 members of the graduating class in the Engineering Building at noon on

March 20. Again, the meeting was highly successful as evidenced by the lively question and answer period which followed the talk.

Dean A. E. Macdonald, Dr. Landon, Professors R. E. Chant and O. Marantz and members of the Committee attended both meetings.

An information sheet outlining the function, aims and benefits of the Association was prepared to assist the speakers in preparing their talks. It is suggested that copies of this sheet be made available to speakers, at future meetings of this type.

The Committee wishes to emphasize the importance of these meetings with engineering students. It is felt that recent increases in enrollment of Engineering Pupils and Engineers in Training are largely due to them.

In June, a list of all University of Manitoba engineering graduates was received from The University of Manitoba Alumni Association. This was compared with the list of registered professional engineers, in an attempt to locate engineers who were eligible for registration but were not registered. Approximately 15 such engineers were invited to join the Association. The response from those contacted was quite limited.

The membership committee was responsible for the publishing of the 1962 Membership roster. In conjunction with the preparation of the roster a new, more complete, questionnaire was printed and mailed to the membership. The new roster has been compiled from the returned questionnaires, where possible, and otherwise from the old mailing list. The Association mailing list is now being expanded to include the degrees and employers of all members. Future editions of the rosters will be compiled from the mailing list. To ensure the accuracy of future rosters, members are requested to notify the office immediately of any change of address or employment.

Registration figures for the period from January 1 to October 15, 1962, are (1961 figures in brackets):

	1962	
Registrations	132	(111)
Engineers in Training	67	(52)
Engineering Pupils	19	(9)

The members of the Committee wish to thank the Association Secretary, Mrs. M. L. Dunklee for her assistance throughout the year, and especially for her work in connection with the publishing of the membership roster.

Respectfully submitted,

G. A. MORRIS, P. Eng.,
Chairman.

THE BULLETIN COMMITTEE

The Bulletin Committee held 10 regular meetings this year, and also 6 meetings for proof reading. Bulletin reporters attended all meetings of Council, notes of these meetings being published in the paper.

Four issues of The Manitoba Professional Engineer were published, the final issue this year containing all committee reports, Auditors' statement, and the reports of the President and the Registrar. This was done for two reasons, in order that members attending the annual meeting could have all this information in one convenient form, and also to provide members with opportunity to study these reports prior to the annual meeting.

Due to larger number of copies of the Bulletin required by increased membership, and increases in printer's costs due to the change in format, Council approved an increase in budget from \$1200 to \$1500.

The Committee wishes to take this opportunity to point out to members that comments or suggestions regarding the Bulletin, or Association affairs in general, are always most welcome. Unfortunately communications from the membership are few and far between.

Members of the Committee this year were Messrs. R. C. Sommerville, I. W. Thomas, C. R. McBain, G. R. Kirk, K. Hallson, B. Whitfield, A. W. Bell, G. A. Tough and E. Dolhun, with J. C. Gillespie the Committee Chairman.

On behalf of Editor Gillespie, now resident in Boston, Mass., I would like to thank all the members of this Committee for their efforts this year, and also to thank Flin Flon correspondent M. N. Collison for his regular newsletter.

Respectfully submitted,

I. W. THOMAS, P. Eng.,
Managing Editor.



1962 SALARY SURVEY REPORT

The annual decrease in returns from Manitoba, reported at previous annual meetings seems to have been reversed. Returns in the 1961 survey numbered 404 which was 100 more than in the previous year. This may only reflect an increase in the number of registered engineers, rather than a change in interest or growing dissatisfaction.

The graphical representation followed previously has been continued in this report for the sake of continuity and comparison. Two charts are included.

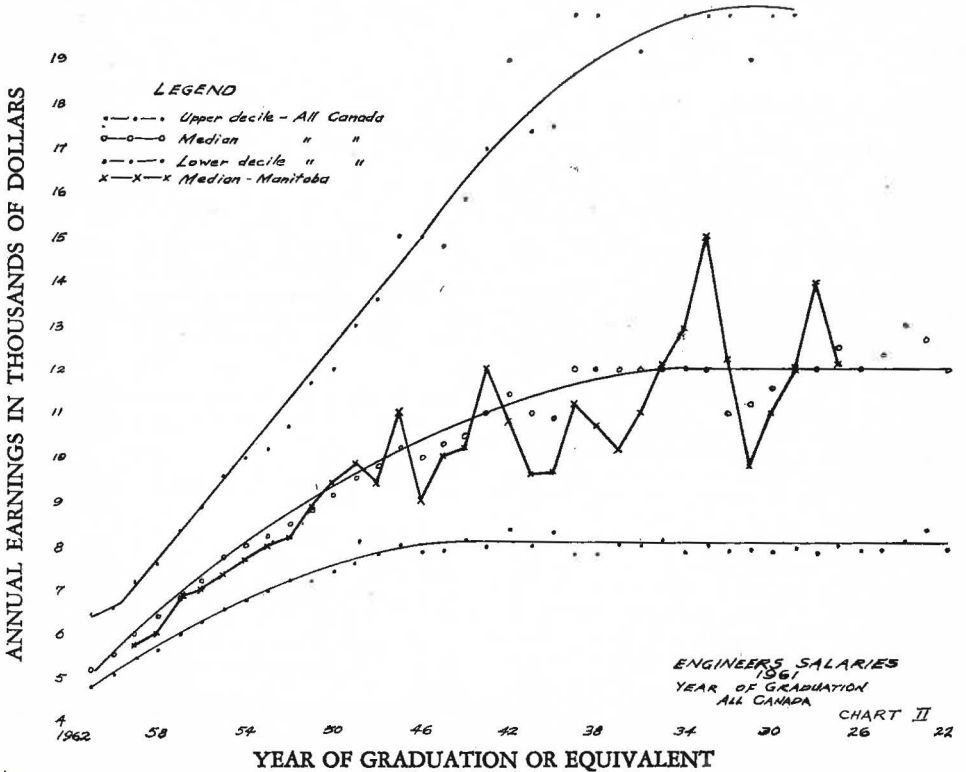
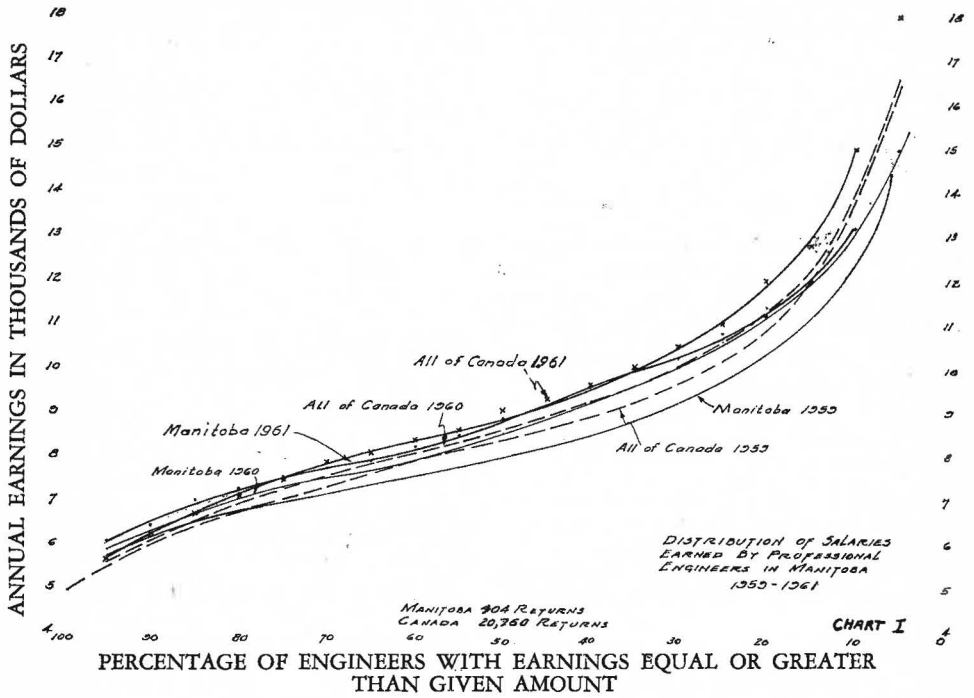


Chart I shows distribution of salaries earned by engineers in Manitoba for 1959, 1960 and 1961 and the corresponding curves for all of Canada. This chart reveals that a higher proportion of engineers in Manitoba earned less than \$7,500.00 than did their corresponding numbers for all of Canada. For the middle income bracket, between \$7,500.00 and \$9,000.00 a lower proportion, and between \$9,000.00 and \$10,000.00 Manitoba appears to be in step, but lags behind in the high end of the scale. This continues a trend and seems to accelerate since 1959 for in that year the proportions in Manitoba were consistently lower than for the country as a whole.

Chart II reveals no change in pattern, with recent graduates in Manitoba averaging less salary than is shown for the whole nation, but for reasons which can be explained, the survey tabulates no return for Manitoba graduates more recent than 1959.*

Although complacency seems to have become evident among engineers in Manitoba, as borne out by the very incomplete returns to salary survey questionnaires, it may be unfair to attribute the incompleteness of data to this fact.

However, those interested should review current thinking about compensation of executives, businessmen and highly-trained non professionals. In this regard, the abstract included in this report may be of interest as exhibiting a correlation which has not received much attention by this Association.

For this reason, before concluding, the Committee would like to submit to Council a recommendation for review of the terms of reference, or more specifically, of the objective of the Salary Committee. There would appear to be a lack of concern among registered members with the relative compensations of Manitoba engineers and those in other areas. But, in lieu of that, there may be merit and some interest in studying salaries in another frame of reference. By way of illustration, reference is made to the aforementioned brief abstract from Harvard Business Review for September-October, 1962, which is included as Exhibit 3 herewith. Also, in the same general thought trend, the 3rd annual 'Survey of Executive Salaries and Fringe Benefits of Local Publicly Owned Electric Utilities' by the American Public Power Association, also exhibits compensation in relation to size and various comparators, such as annual gross revenue, sales volume, capacity, peak demand, number of customers, number of employees. Each of a number of executive echelons, including Chief Engineers, is studied in six ranking categories. Unmistakable correlation is demonstrated in this study.

It is not intended here and now to advo-

cate a complete departure from the report form which has found complete acceptance heretofore. But, perhaps the professional interests of the membership could be served in a re-appraisal of the function of this committee in future.

*Returns received only from fully registered engineers with two years' experience.

Respectfully submitted,

F. G. DENSON, P. Eng.
D. S. G. ROSS, P. Eng.



CONSULTING ENGINEERS COMMITTEE

Seven well-attended meetings were held during the year and considerable progress was made in accomplishing the objectives listed below.

The Committee was composed of six individuals representing consulting engineering firms, and three individuals representing companies or agencies which periodically engage consulting services, as follows:

Members from Consulting firms—S. Buckler,
A. O. Dyregrov, J. L. Greer, M. Mindess,
A. G. Moffatt, C. H. Templeton.
Members from employing firms—R. Hugo
A. A. Laughlin, G. E. McLure.

One of the main objectives of the group was to formulate new "Schedules of Minimum Fees to be Charged by Consulting Professional Engineers", for services to both Owner and Architects.

The present fee schedules were last revised in 1935. They are outdated and require considerable revision to bring them in line with modern Consulting Engineering requirements, and to keep pace with today's higher operating costs. The Associations of the Provinces of Ontario and British Columbia, where the majority of Consulting Engineers in Canada are registered, have already revised their schedule.

The Provinces of Newfoundland and Quebec are in the process of changing their fee schedules.

There are three major sections of the fee schedules to be considered:

1. GENERAL SECTION

- (a) The Preamble
- (b) The Code of Ethics
- (c) The Duties of an Engineer

2. The Time Basis Section

3. The Percentage Basis Section

Preliminary drafts of these sections were

drawn up by the Committee for further study and review.

The newly adopted fee schedules of British Columbia and Ontario and the proposed revisions to the fee schedules of Newfoundland and Quebec have been reviewed. The changes proposed in the Manitoba schedule are in line with the changes adopted by these other provinces.

Recommendations have been sent to Council requesting that priority be given to the revision of the fee schedules. It should be noted that the adoption of such revised schedules can be accomplished by Council without the requirement of amending the "Engineering Profession Act". It is the intention of this Committee to have a draft of the proposed new fee schedule ready for approval by Council before May, 1963.

Several years ago, your Committee alerted Council that a large number of engineering drawings were being issued without an Engineer's Seal. This Committee has again reviewed the situation. Considerable improvement is noted; however there is still evidence that many unsealed plans are being issued. It is strongly urged that all members of the Association aid Council in the enforcement of the act by reporting all violations that come to their attention.

The Consulting Engineers Committee believes that there is need to review the "Engineering Profession Act".

Some examples requiring revision would include the definition of what constitutes engineering, and the inclusion in Schedule A of such items as air conditioning, factories, electronics, radar, television, works related to atomic energy, etc.

In view of the emphasis being placed on the use of "Professional Engineer", it would be desirable to amend Item 19 so that the individual seal records the words, "Registered Professional Engineer" rather than "Registered Engineer".

The Consulting Engineers Committee recognizes the exacting demands that will be required in undertaking a revision of the Engineering Profession Act and the opposition which may be encountered. However, it is an obligation that must be met.

The Act, as drafted in 1920, also does not satisfactorily accomplish its function of protecting the public against breaches of ethics and incompetent design and because of its inadequacy does not foster enthusiasm in the Association's administration of the Act.

For these reasons, we have recommended

that consideration be given to amending the Engineering Profession Act.

Respectfully submitted,
G. E. McLURE, Chairman.



Council Meeting

Council met at noon October 16th, with President Chant and Councillors Landon, Chappell, Hoogstraten, Adams, Borgford, Marantz and Weber present.

Seven Engineers in Training were enrolled and eight engineers were registered. One registration of an applicant who had completed examinations of the B.C. Association was deferred until he submits a satisfactory thesis. Council then discussed the consistency of Association requirements for a thesis by applicants who write the examinations. Requirement of a thesis has been governed by the recommendation of the Board of Examiners.

Annual Meeting Committee reports will be published in the Bulletin, and Committee Chairmen will present a brief summary at the Annual Meeting to provide for questions from the membership.

The Nominating Committee recommended that future ballots should be accompanied by a precis of the engineering experience of the candidates, in addition to information presently provided. Due to lack of time before this year's election, the matter was laid over for study for next year.

Council referred to the Legislation Committee the suggestion of the Awards Committee that the age limit for award of honorary life membership be reduced from 70 to 65, and also referred to that Committee a further suggestion that retired members over 65 be allowed reduced membership fees or a courtesy mailing privilege.

President Chant noted that to accommodate other Associations, the proposed ballot on the Report of the Confederation Commission will probably be postponed until between January 16th and February 16th, 1963. Council then discussed a proposal to suggest to Canadian Council that a questionnaire be included with the ballot so that members of all Associations could indicate their interest in any other form of Confederation or Unity. Since Confederation will be on the Agenda for the Annual Meeting, each member of Council was asked to prepare a short paragraph on his individual stand on Confederation.

A Tribune editorial on the Community Chest campaign was discussed. The article noted contributions by professions and implied that in Winnipeg only 15 engineers contributed a total of \$455.00 in 1961. A letter to the Edi-

tor will be sent pointing out the error in these statistics, since it appears that to the Community Chest people government engineers and employee engineers do not count as "engineers."

After discussion by Council of the problems connected with non-registered engineers, the meeting adjourned at 2:15 p.m.



Dr. Landon to Retire

Dr. Landon has announced his intention to retire from active participation in the affairs of the Association at the end of his current term on Council.

It was fortunate for this Association, and for the engineers of Manitoba, that Dr. Landon resisted the efforts of The University of Manitoba Medical School to enrol him, and that instead he registered as an undergraduate in the first class of Engineering at The University of Manitoba, graduating with that class in 1911.

After graduation he was superintendent of street paving for the City of Winnipeg, and then Special Engineering Assistant to the Chief Engineer of the Greater Winnipeg Water District.

He served overseas during World War I with the 12th Battalion, Canadian Railway Troop.

After the war he served with the Highways Branch of the Provincial Government and later with the Dominion Government. He was also a Commissioner for the Greater Winnipeg Water and Sanitary Districts.

Dr. Landon joined the Association during its first year of existence in 1920, and was the 70th engineer admitted to membership.

The contribution he has made to this Association over the past 42 years is unequalled. He piloted the affairs of the Association from his own office and from his home until 1956, when the present office in the Avenue Building was opened. He was Registrar from 1934 until 1960, and was elected President in 1961.

In 1957 The University of Manitoba conferred on him the degree of Doctor of Laws, Honoris Causa. Those who know him know that the honour was well merited. No one has done more for the engineering fraternity in Manitoba.

Dr. Landon is an engineer and a gentleman of whom this Association has long been proud, and the members owe him a debt of gratitude that can never be repaid nor even adequately expressed. — I.W.T.

Fall Frolic

On Friday evening, October 19th, the Albany Room of the Assiniboine Hotel resounded to the war dance of 260-odd engineers and wives or girl friends. This reporter was mildly surprised to note an unusual trend. At the early hour of 9:30, large numbers of people were actually out on the floor dancing and the attendance at the bar could at no time be described as a crowd. Engineers as a class must either be reforming or developing ulcers.

Perhaps the Social Committee could consider some floor prizes at future dances. Ken Hallson's version of the "Butterfly" dance could only be described as inspired, and Bob Kirk's quiet twist deserved some recognition.

Among the notables attending, who were introduced by M.C. Al Burrows, were Sullivan Cup winner Al Mattick, former bachelor of the year Ben Fast (still a bachelor) and Evan Mackenzie, now an obscure husband. Then Tom Weber received mention for his 100-yard dash in 1939 at Portage Collegiate, and Mrs. Al Moffatt was noted as Canada's most attractive female camper (She drives the kids while hubby flies).

Craig Sommerville, volunteer stand-in for Safe Driving Award Winner Bill Finnbogason, accepted the award for Bill. This consisted of essential equipment for safe defensive driving, crash helmet, goggles, and safety belt.

Mac Coutts received the Social Committee Award for his heroic stand when wounded by a broken club at the Fall Golf Tournament. He received a football helmet, and large economy size plastic club and ball for future tournaments.

C. V. Antenbring was winner of the Academy Award. The "Oscar", soundly fabricated from reinforcing bar and steel angle was most impressive. However, one got the impression that the card on it "Courtesy Dominion Bridge" was no accident.

Andy Baracos took the Man of the Year Award. When obtaining supplies for the soils lab, Andy was seen in a drug store, purchasing 12 dozen articles of the same kind. When asked why he required so many, Andy replied, "For educational purposes." This brought down the house!

At intermission the Engineers' Wives Chorus Line put on a very spirited and competent "Charleston." Thunderous applause demanded an encore. The performance was much appreciated and was a welcome addition to the evening.

Altogether, a most enjoyable evening. Thanks, Social Committee.—I.W.T.