



# THE MANITOBA PROFESSIONAL ENGINEER

November, 1963

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

FORTY-FOURTH

## Annual General Meeting

*Thursday, November 28, 1963, 2.00 p.m.*

FORT GARRY HOTEL

*Reception and Dinner 6.00 p.m.*

### PROGRAMME

- |  |  |
|--|--|
| 1.30 p.m. Registration Opens                           | RECESS—Coffee  |
| 2.00 p.m. Official Opening by President                | Other Business   |
| Introduction of Guests                                 | Declaration of Officers Elected  |
| Minutes of Annual General Meeting of November 29, 1962 | 6.00 p.m. Reception  |
| Minutes of Special Meeting of October 16, 1963         | 6.30 p.m. Dinner   |
| Committee Reports.                                     | Guest Speaker: Prof. George Ford,<br>Head, Department of Mechanical<br>Engineering, University of Alberta. |
| President's Address                                    | "Engineering Education"  |
| Secretary's Report                                     | Ceremony of Turning Over Gavel<br>to Incoming President  |
| Auditor's Report                                       |  |
| Appointment of Auditors                                |  |
| Declaration of Councillors Elected                     |  |

*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* — T. E. WEBER, P. Eng.

*Vice-President* — B. CHAPPELL, P. Eng.

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

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Vol. 6

WINNIPEG, MANITOBA, NOVEMBER, 1963

No. 4

## 1963 Salary Survey Report

Returns to salary questionnaires from Manitoba engineers, an increase of 88 in the current year, 1961-1962 (July to July), continued the trend established in the previous year when an increase of 100 was noted. There were 492 Manitoba engineers who reported, the increase being mainly accountable in returns from recent graduates. Although the returns of 492 for 1962 were considerably higher than the 304 of 1960 and 404 in 1961, they still represent only approximately 30% of the registered enrollment. Until a much larger percentage of members report it will be impossible to determine whether or not any one classification is being given undue consideration.

As in previous years, the report continues graphical representation in two charts, the first showing salary distribution and the second depicting correlation of salary and year of graduation.

### CHART NO. 1—

Chart No. 1 compares current distribution of engineers' salaries in Manitoba with two preceding years and with the whole of Canada for the year of the report, viz., 1962. Compared to previous years the Manitoba curve is more consistent up to 65% of those reporting. This trend, however, is not maintained and the middle bracket is lower than the trend line by about \$300. As in previous years, the gap widens between the ratio of engineers in higher salary brackets in Manitoba and those for the country as a whole.

### CHART NO. 2—

Chart No. 2, as in the past, correlates annual salaries and graduating year for all Canada and compares Manitoba median salaries with the all Canada corresponding curve. Super-

ficially, it would appear that Manitoba median salaries fluctuate more widely than those for all Canada. However, it is more likely that this is distorted by the comparatively small statistical "population" and while Manitoba returns by years of graduation are too erratic to give a smooth curve, they do indicate a 4% differential below the average for the nation. Also, it would seem that a Manitoba median trend line would begin by paralleling and then trend substantially lower than the all Canada median line. In other words, the national medial salary has increased 4% during the past year whereas the Manitoba medial salary has remained constant.

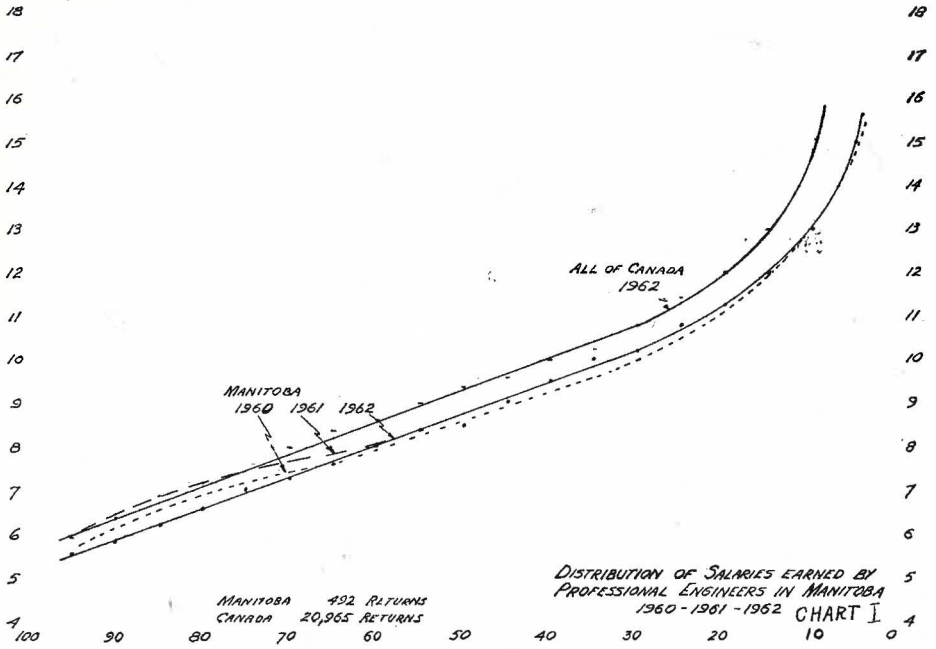
In the national report, Manitoba and Saskatchewan are combined and comparison of these combined salary returns with other regions shows that it is second lowest in the country and only 1% above the Maritime Provinces. The median salary for Manitoba alone was actually slightly below the Maritimes, indicating that local salaries are probably the lowest in Canada.

In these graphical representations, no account is taken of the level of responsibility attained. No comparisons are made with the curves published by the Canadian Council of Professional Engineers. It is very likely that the pattern for all Canada would roughly apply in Manitoba.

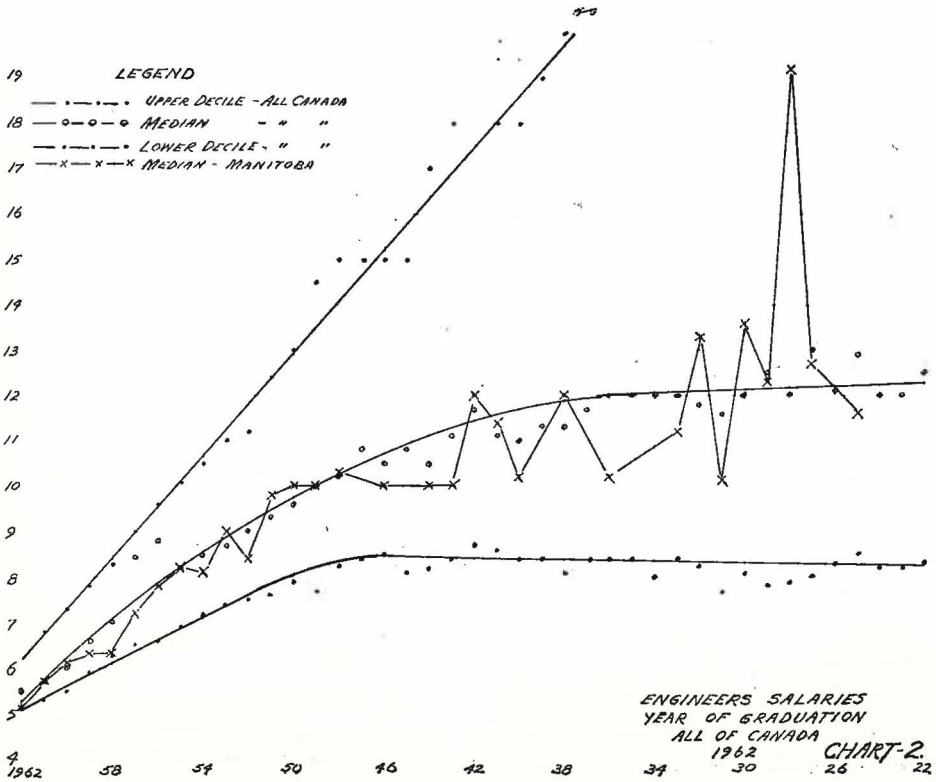
There are possibly numerous reasons for Manitoba being a depressed area for engineers' salaries:

- (a) Locally a relatively small percentage of engineers is employed by large industries and the preponderance of engineering work is done to the east and to the west of us and these areas which are more highly industrialized seem prepared to pay

ANNUAL EARNINGS IN THOUSANDS OF DOLLARS



ANNUAL EARNINGS IN THOUSANDS OF DOLLARS



a higher cost for engineering services. Moreover, there is a greater competitive demand for engineers in all categories and a higher percentage in the higher salary ranges.

- (b) The classification guide of Engineering Responsibility Levels published by the Canadian Council of Professional Engineers has not been adopted in Manitoba while it has found fairly wide acceptance in British Columbia, Ontario and Quebec.
- (c) Some categories of engineering are sparsely represented in Manitoba such as mining and metallurgical, which, on an average, command a higher level of remuneration than the civil, electrical and mechanical categories which predominate in Manitoba. It is possible this alone could account for the entire differential.

In accord with suggestions made in the last annual report, an effort is being made to obtain more data for comparison with other professions. There are considerably more factors in the total economic picture, however, and these cannot be ignored when comparisons outside the profession are undertaken. For example, a disproportionate number of engineers are salaried, employee-professionals compared to other professions except those in administration both in industry and commerce, as well as in all government levels. Therefore, for instance, fringe benefits complicate any effort at comparisons.

The preliminary report of the Department of Labour in the Professional Manpower Bulletin of May, 1963, provides some interesting comparative data and graphical representation. This bulletin is based upon a selected sampling of 16,000 architects, engineers, scientists and veterinarians. There were 7,118 replies in the mechanical, electrical and civil field from which the weighted median annual salary was \$9,050.

The weighted median annual salary for 1962 for Manitoba, from 483 replies, was \$9,060. These figures, although presented for what they are worth are of doubtful meaning since a median cannot be used to obtain an over-all total of dollars earned, but it may be an indication that the median salaries in Manitoba are on a par with those in the same field in other provinces.

Median annual earnings (excluding self-employed) were as follows in descending order:

	1962	Gain Over	
	Median	1961	Increase
	\$	\$	%
Architects	9,900	400	4.2
Engineers	9,200	400	4.5
Natural Science	8,800	400	4.8
Veterinary Medicine	8,500	500	6.3
Forestry	7,900	300	3.9
Agriculture	7,400	600	8.8

We believe the failure to have local engineering classifications better aligned with the Classification Guide may be an additional reason for apparently lower salaries in Manitoba. It is strongly recommended that local engineers direct attention to this in negotiating salary adjustments. If we are to accurately determine whether or not Manitoba is an area of depressed salaries, consideration must be given to categorizing engineers when returns are made. Investigation would be required to find out whether this would be feasible in other provinces. The results should be valuable when considering salary adjustments.

The Canadian economy is said to be buoyant, the demand for engineers in specialized, selected categories is still very strong. To the extent that Manitoba mirrors changing conditions elsewhere its engineers seem to share in the generally favourable conditions if not completely in step with the rest of Canada, at least on a trend that can be labelled improving.

Respectfully submitted,

GEO. C. DURHAM, P. Eng.,  
 F. GORD. DENSON, P. Eng.,  
 D. S. G. ROSS, P. Eng., Chairman.



**BULLETIN COMMITTEE**

Four issues of "The Manitoba Professional Engineer" were published this year.

The Committee continued to report on Council meetings, and the publication of general interest technical articles on Manitoba projects has been maintained. Interest in these articles was demonstrated by local business firms and the Winnipeg Free Press to the extent of requests for extra copies of the Bulletin.

A new undertaking this year has been the series of interviews with pioneer members of the Association. As well as providing good reader interest material, these interviews have served to provide a contact with Association affairs for some of our older and less active members.

The cost of publication of the Bulletin has remained within the amount authorized in the budget.

I wish to express appreciation for the efforts and support of the members of this Committee, for the regular contributions of Flin Flon correspondent M. N. Collison, and for the expert general managing of Association Secretary, Mrs. D. L. Dunklee.

Respectfully submitted,

I. W. THOMAS, P. Eng., Editor  
 and Chairman, Bulletin Committee.

**AUDITOR'S REPORT**November 7, 1963.  
Winnipeg, Manitoba,

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, 1963, and submit herewith for your information the following financial statements:

- Exhibit A Comparative Statement of Assets and Liabilities,  
October 31, 1963-62,
- Exhibit B Comparative Statement of Revenue and Expenditure,  
Twelve months ended October 31, 1963-62,
- Schedule 1 Schedule of Investment Account,  
Twelve months ended October 31, 1963,
- Schedule 2 Schedule of Changes in Members' Roll,  
Twelve months ended October 31, 1963.

We report thereon as follows:

**COMPARATIVE STATEMENT OF ASSETS AND LIABILITIES**

*Cash and Bank Balances:* The cash on hand, \$50.57, 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 \$7,266.56 were confirmed by certificate obtained direct from the Bank.

*Investments:* Direct confirmation was obtained from your Bank to the effect that Bonds totalling \$25,400.00 par value were held by them 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.

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

**CERTIFICATE**

We have audited the accounts of the Association of Professional Engineers of the Province of Manitoba for the twelve months ended October 31, 1963, and have obtained all the information and explanations we have required.

Bonds totalling \$25,400.00 par value on deposit for safekeeping purposes with the Bank of Montreal, are in accordance with a certificate from the Bank dated November 6, 1963.

Satisfactory vouchers were inspected for all disbursements.

In our opinion the attached Statement of Assets and Liabilities as at October 31, 1963, 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, 1963, 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 7, 1963.

SILL, STREUBER, MEGER & FISKE,  
Chartered Accountants.

## EXHIBIT A

## COMPARATIVE STATEMENT OF ASSETS AND LIABILITIES

October 31

ASSETS:	1963	1962
Cash and Bank Balances .....	\$ 7,317.13	\$ 6,755.85
Investment Account:		
Bonds, at par (Schedule One) .....	25,400.00	23,400.00
Office Equipment, at nominal value .....	1.00	1.00
Total Assets .....	<u>\$32,718.13</u>	<u>\$30,156.85</u>
 LIABILITIES:		
Deposits on Applications Pending:		
Registrations .....	\$ 602.00	\$ 606.00
Engineers-in-training .....	745.00	776.00
Engineering Pupils .....	68.00	50.00
Members' Accounts Paid in Advance:		
Annual Dues .....		15.00
License Fees .....		5.00
Examination Fees .....	1,035.00	1,000.00
Accounts Payable:		
Sundry .....	325.00	325.00
Total Liabilities .....	<u>\$ 2,775.00</u>	<u>\$ 2,777.00</u>
Excess of Assets over Liabilities .....	<u>\$29,943.13</u>	<u>\$27,379.85</u>
 SURPLUS:		
Balance at beginning of Year .....	\$27,379.85	\$24,273.44
Excess of Revenue over		
Expenditure for Year (Exhibit B) .....	2,563.28	3,136.41
	<u>\$29,943.13</u>	<u>\$27,409.85</u>
Deduct:		
Premium Paid on purchase of		
Manitoba Hydro Electric Board Bonds .....		30.00
Balance at end of Year .....	<u>\$29,943.13</u>	<u>\$27,379.85</u>

## EXHIBIT B

COMPARATIVE STATEMENT OF REVENUE  
AND EXPENDITURE

Twelve months ended October 31

REVENUE:	1963	1962
Annual Dues — Current Period .....	\$19,308.00	\$17,841.00
Licenses .....	320.00	240.00
Registration Fees .....	2,320.00	2,640.00
Examination Fees .....	200.00	320.00
Miscellaneous Income .....	248.00	287.00
Investment Account:		
Interest on Bonds .....	\$1,045.98	878.98
Interest on Savings Accounts .....	155.64	168.94
	<u>1,201.62</u>	
	<u>\$23,597.62</u>	<u>\$22,375.92</u>
EXPENDITURE:		
Retiring Honorarium—Dr. C. S. Landon .....	\$ 900.00	\$ 900.00
Honorarium—Registrar, Prof. O. Marantz .....	1,200.00	1,200.00
Honorarium—		
Substitute Registrar, Dr. C. S. Landon .....	125.00	
Salary—Executive Secretary .....	4,680.00	4,650.00
Pension and Unemployment Insurance .....	402.96	252.96
Office Rent .....	1,105.44	1,095.42
Storage Space .....	123.50	
Printing and Office Supplies .....	3,110.63	2,786.15
Telephone and Light .....	361.22	374.59
Postage .....	748.89	851.22
Canadian Council Levy .....	2,414.00	1,714.50
Council and Committee Meeting Expenses .....	413.95	415.78
Annual Meeting (*including Bulletin) .....	869.18	323.35
Audit Fees .....	285.00	280.00
Legal Fees .....	67.00	80.00
Certificates and Seals .....	837.00	807.95
Publication—		
“The Manitoba Professional Engineer” .....	1,609.50	1,484.46
Public Relations .....		60.28
Travelling .....	732.75	513.40
Miscellaneous, including Safekeeping Charges, Flowers, Telegrams, etc. ....	359.48	303.11
Special Activities:		
Spring and Fall Dances .....	55.85	Cr. 130.52
Roster Printing Costs .....	Cr. 66.00	401.69
Deficit on Golf Tournament .....	16.45	34.53
Student Activities, including Graduating Class Dinner, University Scholarships, Slide Rule Awards, etc. ....	682.54	840.64
	<u>\$21,034.34</u>	<u>\$19,239.51</u>
Excess of Revenue over Expenditure for Year (Exhibit A) .....	<u>\$ 2,563.28</u>	<u>\$ 3,136.41</u>

## SCHEDULE ONE

## SCHEDULE OF INVESTMENT ACCOUNT

Twelve months ended October 31, 1963

	Par Value	Market Value
Investments held November 1, 1962 .....	\$23,400.00	<u>\$22,158.25</u>
Add:		
Purchase of The Huron & Erie Mortgage Corporation, 5% Debenture due March 1, 1968 .....	\$ 2,000.00	
Investments held October 31, 1963 (Exhibit A) .....	<u>\$25,400.00</u>	<u>\$24,249.00</u>
Investment Portfolio as at October 31, 1963:		
	% Maturity Par Value	Market Value Interest Income
Government of Canada...	2¾ 1968 \$ 500.00	\$ 466.87 \$ 13.74
Government of Canada...	4¼ 1972 500.00	475.63 21.24
Government of Canada...	4½ 1983 13,200.00	12,226.50 594.00
Province of Manitoba.....	5 1971 1,000.00	1,000.00 50.00
Province of Manitoba.....	4¾ 1972 1,200.00	1,200.00 57.00
Province of Manitoba.....	3 1965 3,000.00	2,880.00 90.00
Manitoba Hydro Electric Board .....	5½ 1982 4,000.00	4,000.00 220.00
The Huron & Erie Mortgage Corporation 5 1968	2,000.00	2,000.00 .....
	<u>\$25,400.00</u>	<u>\$24,249.00</u>
Interest Income transferred to General Account .....		<u>\$ 1,045.98</u>

## SCHEDULE TWO

## SCHEDULE OF CHANGES IN MEMBERS' ROLL

Twelve months ended October 31, 1963

Members on Roll, November 1, 1962 .....	1,288
Add:	
Reinstatements .....	20
Registrations .....	116
Transfers — In .....	23
	<u>159</u>
	1,447
Deduct:	
Written off for non-payment of dues, etc. ....	15
Members Deceased .....	9
Transfers — Out .....	39
Resignations .....	28
	<u>91</u>
Members on Roll, October 31, 1963 .....	<u>1,356</u>
Regular Members .....	1,348
Life Members .....	8
	<u>1,356</u>

## Social Committee

As in previous years the function of the Social Committee during 1963 has been to arrange the Annual Spring Dance and the Fall Frolic, and to handle the hotel arrangements for the Annual Meeting. Twelve committee meetings were held during the year in this regard.

The Spring Dance was held at the Royal Alexandra Hotel on Friday, March 15, 1963, and this year took the form of a supper dance rather than a dinner dance as had been the custom during previous years. Dancing commenced at 9:00 in the Crystal Ballroom and the Banquet Room and a buffet supper was served in the Colonial Room and the Tea Lounge from 10:30 until the conclusion of the dance at 1:00 a.m. Three hundred and fifty-two people attended this function.

In his report last year, Al Burrows, the Past Chairman of this Committee, noted that the attendance at the Spring Dance had been decreasing and that the Committee was studying changes which would improve this function.

A review of comments received from members following the previous dances indicated that the major source of dissatisfaction was the standard of food and service received at the hotel where this function was held in recent years. Since the Committee's previous complaints to the hotel management in this regard had not produced a desired improvement, it was decided that this year's dance should be held at the Royal Alexandra Hotel where the food and service had been found to be satisfactory on previous occasions.

Unfortunately, neither the Crystal Ballroom nor the Banquet Room at the Royal Alexandra Hotel can accommodate the number of people attending this function and it was necessary to divide the party between the two rooms. This arrangement was dictated by the facilities available and the Committee recognizes that it would be more desirable to have the whole group together throughout the evening. Until a larger ballroom, together with a high standard of food and service are available for this function, a compromise is necessary.

The decision to hold a buffet style supper dance rather than the customary dinner dance was also dictated by the facilities available at the hotel and their previous commitments to other groups.

It is hoped, however, that the facilities available for next year's dance will permit either a supper dance or a dinner dance to be held. Although the Committee would have preferred to have had a dinner dance this year, a con-

siderable number of members expressed preference for the supper dance and consideration will be given to following this format next year. The comments received from members attending this year's dance indicated satisfaction with the food and service and the general consensus appears to favour continuing to hold the Spring Dance at the Royal Alexandra.

It is felt that the attendance was reduced this year because of the conflict with other functions being held on the same evening and to the proximity of this dance to the Engineers' Wives' annual party. We would have preferred a date in February had it been possible to reserve the hotel at that time and we feel that the attendance would have been considerably higher. A tentative booking has been made at the Royal Alexandra for February 7th and we look forward to an increased attendance at next year's dance.

The Fall Frolic was held on Friday, September 20th, 1963, at the Copacabana. The evening commenced with cocktails at 7:00 and a dinner of barbecued beef was served between 8:00 and 9:00. Dancing commenced at 9:00 and continued until 1:00 a.m. Entertainment consisted of the awards presented to deserving members of the Association and a "fashion show" presented by members of the Social Committee, ably assisted by members of the audience. Attendance was 170 compared with last year's number of 260.

The Fall Frolic was very successful, although the Committee was disappointed in the quality of the food served and the drop in attendance. The facilities of the Copacabana are well suited for a function of this type and consideration will be given to holding next year's dance at this location.

The Committee is now completing arrangements for the Annual General Meeting to be held at the Fort Garry Hotel.

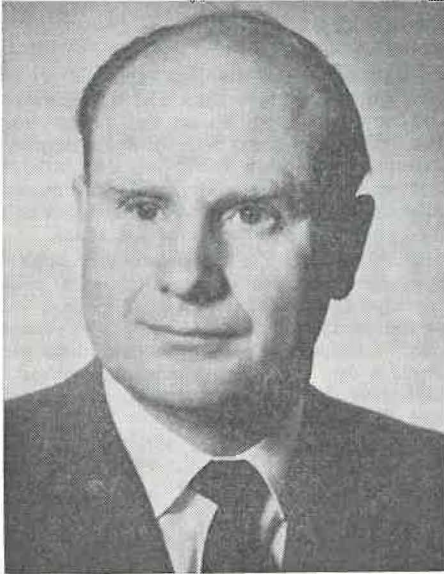
I would like to thank the following members of the Committee for their enthusiastic support and efforts on your behalf: V. W. Chorley, Vice-Chairman; C. W. Alexander; A. G. Burrows; L. R. Campbell; R. S. Crawford; M. E. Coutts; C. A. Roylance; D. R. Grimes; R. O. Jonasson; J. E. Scotten.

Your Executive Secretary, Mrs. Dunklee, contributed greatly to the success of the Social functions and I should like to express the gratitude of the Committee for her valued advice and generous assistance throughout the year.

Respectfully submitted,

L. S. EARP, P. Eng., Chairman.

## ANNUAL MEETING GUEST SPEAKER



GEORGE FORD, P. ENG.

Prof. George Ford, Head, Department of Mechanical Engineering, University of Alberta, will speak on Engineering Education following the dinner at the Annual General Meeting on November 28, 1963, at the Fort Garry Hotel.

Prof. Ford received the degree of B.Sc. in Civil Engineering from the University of Alberta, the degree of M.Sc. in Civil Engineering from the University of Alberta in 1946, and the degree of Ph.D. Mechanical Engineering, Division of Applied Mechanics, Stanford University in 1948. He has been a member of the teaching staff at the University of Alberta since 1942, and was appointed Head of the newly established Department of Mechanical Engineering in 1959.

He is a member of the Association of Professional Engineers of Alberta, has served on their Council and is currently President.



### ENGINEERING TECHNICIANS COMMITTEE

#### COMMITTEE MEMBERS:

C. M. Hovey, B. Chappell, A. H. Pask, A. Penman, H. W. Grant, M. DelBegio, A. C. Warrender (Chairman), J. W. A. Godfrey.

The Engineering Technicians Committee was originally formed a number of years ago to

study the relationship of the professional engineer and the engineering technician and recommendations were made to council. With the completion of their report in 1958-59, the committee became inactive.

With the increasing interest and activity in the engineering technician training, our committee was reactivated this year.

President Tom Weber attended a meeting in Toronto, April 6th, called by the Association of Professional Engineers of Ontario to discuss certification of engineering technicians and technologists. A brief report on this meeting appeared in the August, 1963, issue of The Professional Engineer.

Our Committee suggested to council that the Association of Professional Engineers of the Province of Manitoba should give further study to the advisability of the APEM fostering and participating in a registration program for technicians and technologists.

Approval to make this study was received from Council on September 6th. The Committee is now currently studying the Engineering Technicians Associations formed and sponsored by the Association of Professional Engineers in British Columbia, Alberta, Saskatchewan and Ontario. We hope to have a recommendation in the hands of council by 1964.

Members of our committee plus others appointed by council have been acting on the advisory boards of the new Manitoba Institute of Technology. The advisory boards assisted in the selection of equipment, drawing up course curricula, etc., and were very active during the winter of 1962-63. Courses in civil, mechanical, electrical and electronics engineering technology were offered this year. One hundred and forty-eight students have been registered in the first year course.

Respectfully submitted,

A. C. WARRENDER, P. Eng.,  
Chairman.



### SPORTS COMMITTEE

The activity of the sports committee for the past season was confined to the presentation of the Annual Spring and Fall Golf Tournaments. These tournaments have both proved themselves once again to be very popular and there would seem to be no reason for any change. However, the Sports Committee would be pleased to receive any suggestions for improvement or for extension of sports activities.

The Spring Golf Tournament attracted 121 participants with Ken Williamson turning in the low score of 84. In the Fall, 82 golfers left their TV sets to attend the Golf Tourna-

ment and one of the sports committee members, Siggie Goodbrandson won the low gross and N. A. Mackenzie won the Sullivan Cup.

I would like to thank the members of my committee, Siggie Goodbrandson, Bob Byers and Doug Ross for their willing assistance in making these tournaments a success. I would also like to extend my appreciation to Mrs. D. L. Dunklee for her able assistance.

Respectfully submitted,

R. E. GOTTFRED, P. Eng.,  
Chairman.



**LEGISLATION COMMITTEE**

Two meetings of the Legislation Committee were held in 1963 at which consideration was given to three problems referred to it by Council.

1. The amount of biographical information on candidates which should accompany ballots for election to Council.
2. The advisability of reducing the present requirements for Life Membership, Honoris Causa, in the Association.
3. The advisability of establishing a special class of membership for retired engineers.

In each case recommendations were returned for Council's consideration. No changes in legislation were recommended by your Committee on its own initiative during the year.

Your committee comprised Messrs. Barkwell, Magill, Noonan, Roper, Storey, Young and myself.

Respectfully submitted,

R. T. HARLAND, P. Eng.



**MEMBERSHIP COMMITTEE**

As in previous years, the main activity of the Membership Committee involved meetings with the Engineering classes at the University of Manitoba. This year, for the first time, the meetings were sponsored jointly by the Membership Committee and the Student Liaison Committee.

At noon on February 28, Mr. L. A. Bate-man addressed a group of approximately 100 second and third year students in the Engineering Building. Mr. W. J. Adams spoke to a group of approximately 50 graduating students in a noon meeting on March 6. These meetings were attended by Mr. T. E. Weber, Association President, Professor W. F. Riddell, Act-

ing Dean of Engineering and members of both the Membership and Student Liaison Committee.

Although the students at both meetings exhibited considerable interest in the Association, there has been a decrease in the Engineer in Training enrollment, part of which may be attributed to a reduction in the number of graduates. The Committee recommends that a more concerted effort be made to acquaint prospective graduates with the function and activities of the Association and suggests that the hurried one hour noon meeting should be replaced by a longer, less formal session that would permit more discussions between students and the Association members present.

In May a branch of the Committee was established in The Pas. It is felt that with increasing numbers of Manitoba engineers being located outside of Winnipeg, similar small "contact committees" should be established in such centres as Brandon, Dauphin, Pinawa and Flin Flon.

Registration figures for 1963 (with the corresponding figures for 1962) are.

	1963	1962
Engineering pupils	16	19
Engineers in Training	39	67
Registrations members	116	132
Transfers in	22	14
	138	146

The members of the Committee wish to thank Mrs. D. L. Dunklee for her assistance throughout the year.

Respectfully submitted,

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



**CONSULTING ENGINEERS COMMITTEE**

The Consulting Engineers Committee has centered its activities during this past year on the terms of reference received from Council, namely:

1. Revision of the fee schedules,
2. A revision of the Engineering Act.

The members of the Committee were chosen from both consulting engineering companies and companies which periodically employ consulting engineers and the members are as follows:

S. Buckler, A. O. Dyregrov, J. L. Greer, R. Hugo, L. Hurwitz, A. A. Laughlin, G. E. McLure, A. G. Moffatt, R. E. Scouten.

At the beginning of the year sub-committees were established within the Committee framework to review and draft suggested revisions to:

1. Preamble to the Fee Schedule
2. The Fee Schedule to be used in providing engineering services to Owner-Clients.
3. The Fee Schedule to be used in providing engineering services to Architects.
4. The Engineering Act.

Approximately 20 meetings will have been held during the year to review these subjects and a surprising number of hours have been spent by the Committee members both in and out of committee meetings. The committee intends to submit within its term of office a recommended draft of the proposed Fee Schedule relating to Consulting Engineers and Owner-Clients and suggested revisions to the Engineering Act for Council's review and action.

Respectfully submitted,

A. G. MOFFATT, P. Eng.,  
Chairman.

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### PUBLIC RELATIONS COMMITTEE

The presentation of the annual slide rule awards to the top students entering Engineering at The University of Manitoba was made by President T. E. Weber. This year four awards were made instead of the usual three, because of the excellent scholastic records of the students. The recipients this year were

P. D. Grout, B. W. T. Leach, G. W. Pacher, G. E. Vettors.

Presentation was made at the Engineering Freshie Banquet in order to provide the three-fold opportunity of honoring these students in the presence of their fellow students, stressing the importance of scholarship, and acquainting the students with the function of the A.P.E.M. On your behalf we would like to extend another round of congratulations to the four winners.

It is hoped that the members have noticed the increased number of newspaper articles and radio and television programs which have used Engineering and its many projects as either a basis or a part of their subject matter. Your Committee can claim no credit, but we feel the membership can take some satisfaction from the growing awareness of the Engineering Profession in the public mind, and in the minds of those responsible for the material in these media.

With a return of the school season it is expected speakers will once again be requested by various guidance counsellors all over the

Province. In the past we have had to refuse some out-of-town requests for speakers because of the distances involved. If you would be willing to help your profession and the high school students in your area, please contact the Association office. We'll supply all the material you'll need and ask you to supply an evening at your convenience.

Respectfully submitted.

R. R. DUTKA, P. Eng.  
Chairman.

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### BOARD OF EXAMINERS

#### MEMBERS—

S. G. Anderson, C. P. Bennett, C. R. Bouskill, A. J. Carlson, D. W. Craik, E. Dolhun, G. A. Russell, G. W. Swift, C. E. Pontifex, M. J. Lupton (Secretary), A. H. Pask (Chairman).

#### APPLICATIONS—

The number of new applications for which the Board was requested to evaluate the credentials, was relatively low compared with past years. Five were reviewed this year, compared with six last year and twenty in the previous year.

#### EXAMINATIONS—

Examinations were held in April, 1963, at the University of Manitoba. Thirty papers were written, resulting in fifteen passes and fifteen failures. One applicant passed the last of his examinations and has been registered. For the successful carrying out of this work, thanks are due to the Registrar, Mr. O. Marantz, and the Executive Secretary, Mrs. Dunklee, and those members of the Faculty of the University of Manitoba who prepared and marked the papers.

#### ACCEPTABLE CURRICULA—

A number of curricula across the country have been assessed. Recognition has not been granted in a few cases.

#### REVISION OF SYLLABUS OF EXAMINATIONS—

The Syllabus of Examinations adopted by all of the Associations and the Corporation in 1959 is being reviewed. Some revisions are being recommended, but it is not expected that the changes will be as great as in 1959.

#### ACKNOWLEDGMENTS—

We are most appreciative of the work of Mrs. Dunklee, who, besides taking care of the

immense detail of applications and examinations, always has immediate information when it is required. Also, in this regard, my personal thanks are due to my predecessor in this office, Prof. G. A. Russell, who has been most helpful in guiding a new chairman. Thanks, also to Board Members who have attended meetings, even with relatively short notice; we have had meetings with full attendance.

Respectfully submitted,

A. H. PASK, P. Eng., Chairman.

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### REPORT OF SECRETARY-TREASURER AND REGISTRAR

To the President, Council and Members.  
Gentlemen:

I herewith present the report of the Secretary-Treasurer and Registrar for the year ending October 31, 1963.

Council held 12 meetings during 1963, and they were generally well attended. The membership of this Association should be given credit for electing a Council that was so keen, and critical, in its examination of the year's activities. The Confederation issue was still with us but only as a matter for summing up by the President for the purposes of the vote on its fate.

Council made no less demands on the time of the various committees; the contribution of so many members, who must be fairly well occupied otherwise, is impressive. We are aware that Canadian Council is increasing its activities, some of which are related to the uniformity of standards set by the Associations. This may, in the future, reduce the demands we make on our committees. However, the development of national committees, such as an Examining Board or one dealing with the accreditation of engineering colleges, will likely create a need for regional representatives.

Registrations this year were 116, bringing the total membership to 1356. This represents a net gain of 68, taking into account losses by deaths, transfers, etc. Only one applicant qualified for registration on the basis of written examinations. The enrollment of engineers-in-training was 39, bringing the present total to 99. It is thought that this low figure is largely a reflection of the reduced number of graduates, and it may also reflect the number of graduates who remain in this province. The enrollment of engineering pupils is still low, for all our efforts to impress them with the purposes and functions of this Association.

We contributed again to the luncheon for

the graduating students who participated in the Kipling Ritual by sharing the costs with the Engineering Alumni Association. We had the satisfaction of presenting the two annual scholarships, and several slide rules, to exceptional engineering students.

The opportunities to exchange ideas with provincial and national bodies were increased slightly this year. President Weber attended the annual meeting of the Ontario Association, and a special meeting in Toronto of all Associations to consider the problems of organization of technicians. Mr. Chappell represented us in Saskatchewan and I attended the Alberta annual meeting. President Weber, Mr. Wardrop and I were present at the Canadian Council meeting in Ottawa in May, and Mr. Weber attended a special meeting of Canadian Council in October.

Our office found employment for a number of our members and engineers in training, and expresses its willingness to co-operate with employers who seek the services of engineers.

We regret to record the deaths of the following members during 1963: J. W. Battershipp; S. J. Butcher; J. F. Cunningham; A. E. Macdonald; J. D. Mishtak; W. M. Scott; H. R. Urie and D. R. Walker.

I would like to express my thanks to Mrs. Dunklee, our Executive Secretary, for her assistance during the year, and my appreciation for her loyalty and devotion to the Association.

Respectfully submitted,

O. MARANTZ, P. Eng.,

Secretary-Treasurer and Registrar.

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### AIRPORT TERMINAL TOUR

A tour of the new Airport Terminal is being arranged for members of the Winnipeg Branch, E.I.C., the Manitoba Association of Architects and the Association of Professional Engineers of the Province of Manitoba, on Thursday, December 5, 1963, at 8:00 p.m. Assembly area — south end waiting area, mezzanine floor. Wives welcome. Guides provided.

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### 1964 ANNUAL DUES

This Association will collect no E.I.C. fees during 1964. Those joint members who have been remitting both A.P.E.M. and E.I.C. fees to the Association should not follow this practice in 1964. A.P.E.M. fees should be remitted to the Association as usual and E.I.C. fees should be remitted directly to E.I.C. headquarters at Montreal.

# President's Report

The work and activities of the Association during the past year are set out in detail in the reports of the various committees carried in this The Annual Meeting issue of the Manitoba Professional Engineer. The regular issues of the Bulletin have kept the membership informed on the month to month items dealt with by Council, the governing body of the Association, in the column "Council Meeting". It is through this media that the members can become well informed on the issues before the Association and present their views either through the Bulletin or directly to the Council members. As the Association grows communication with the members will become more difficult, we should, therefore, encourage this interchange of ideas at this time so that the pattern will grow with us.

The role of the Association in the community has widened this year by the appointment of representatives on the Manitoba Winter Works Committee, the newly formed Metro Design Committee and the Construction Committee of the Winnipeg Chamber of Commerce. As well as these new positions we continued to have representation on the Metro Building Code Committee and the special committee on Concrete Specifications of the Concrete Manufacturers Association.

The Manitoba Institute of Technology registered its first classes this fall. At last year's Annual Meeting it was reported that the Association had representatives on the Curricula Advisory Committees. Through our Technicians Committee continuing contact is being maintained with staff at the Institute. Our interest must, however, now extend to the students and the graduates.

The Technicians Committee following a review of the progress for the registrations of technicians and technologists in Alberta, British Columbia, Ontario and Saskatchewan recommended to Council that a program of registration be sponsored in Manitoba. Council accepted this recommendation and the Committee is presently preparing a program for the consideration of Council. As the graduates from the Institute take their positions in industry they will naturally be looking for status within their field and I am convinced that we must take the lead in providing the facilities for the registration of Engineering Technicians and Technologists. The program, however, should be aimed at the ultimate formation of an Independent Society of Technicians and

Technologists with representation on the Examining Board from this Association.

The vote in June of this year was the climax of the long drawn out negotiations over whether Confederation between the Canadian Council of Professional Engineers and the Engineering Institute of Canada would be effected in accordance with the Report of the Engineers' Confederation Commission. The members of the Engineering Profession in Canada rejected Confederation, however, I do not feel that this decision means the loss of the basis for a strong unified voice for the Engineering Profession in Canada.

At a special meeting of Canadian Council held in Toronto on October 28th and 29th, 1963, a program for action was discussed and approved by delegates from the eleven associations. As this program is developed the Canadian Council will become a strong body representing the Professional Engineers in Canada both in the national and international fields. The C.C.P.E. does not propose to, nor should it enter the technical side of the Profession but provision has been made in the overall program for co-operation with and the co-ordination of the Technical Societies serving the Profession. The development of this program will require additional funds, however, I am sure this Association and the others across Canada will be prepared to provide the finances for an efficiently operated Council to ensure a strong, powerful and respected organization.

Over the past two years Council has discussed the need for and value of the Co-operative Agreement between the Engineering Institute of Canada and the Association. At a special meeting of the Association held on October 16th, 1963, it was decided that it would be in the best interests of both parties to terminate the Agreement. The Engineering Institute of Canada has agreed and the termination date will be December 31st, 1963.

This then has been a year of decision for the Association and now that the course has been decided on we must move ahead in close co-operation with C.C.P.E. and the Technical Societies to ensure that the Profession will grow in stature and receive the esteem and confidence of the general public.

In closing I wish to acknowledge the many members who man our Committees, they have given freely of their time and have made sure that Council has been kept up-to-date with their views and those of other members of the

Association; the Council members who have carefully and deliberately discussed every question and have been most helpful in all respects; the Secretary-Treasurer and Registrar for his support and Mrs. Dunklee, our Executive Secretary, who is so keenly interested in the work of the Association.

It has been a high honour to have served as your President, and a very rewarding experience. It is with thanks to you, the members, for providing this opportunity to serve that I relinquish the office of the President of the Association of Professional Engineers of Manitoba.

Respectfully submitted,

T. E. WEBER, P. Eng.,  
President.

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### ARCHITECT-ENGINEER COMMITTEE

In October, 1962, the Joint Architect-Engineer Committee submitted a report to the Councils of the Manitoba Association of Architects and our Association in respect to the position of Engineers and Architects in Hospital Construction program in Manitoba. This report recommended that a meeting be arranged with the Minister of Health at which a joint-delegation would present in detail the need for proper architectural and engineering design and supervision for the construction of hospitals. This report was accepted in principle by both Councils, however, before such a meeting could be held a request was received by the M.A.A. from the Manitoba Hospital Commission to attend a meeting with the Commission to discuss the construction program.

This meeting was held early in February and the President of the M.A.A. with the concurrence of our Association presented the joint report. As a result of this meeting and subsequent discussions with officials of the Commission the following Section was placed in the booklet for "Procedures relating to Hospital Construction and Renovation Projects" issued by the Manitoba Hospital Commission.

#### SELECTION OF ARCHITECTS—

Following approval of the Functional Program by the Commission, the Governing Board should select an architectural firm capable of providing complete professional services. The firm selected should provide assurance that necessary engineering services will be available through the firm or through consulting engineers. Structural, mechanical, plumbing and electrical engineering services are required for all phases of the work through schematic drawings, sketch plans, working drawings and supervision stages.

The Committee reviewed a proposal under which the two Associations would issue a bulletin setting out in detail the position of the Architect and Engineer in respect to various types of projects. The projects would be grouped indicating where the Architect or Engineer should act as the prime Consultant and whether the retention of the other profession was essential or not. The Committee decided that at this time not to recommend that a bulletin of this form be issued jointly by both Associations and, therefore, no further action was taken.

The Committee is presently reviewing the "Proposed Interprofessional principles of practice for Architects and Engineers" as prepared by the National Joint Architect-Engineer Committee.

The Committee was composed of Messrs. V. Sobkovich, R. Gemmel and J. Whenham from the M.A.A. and Messrs. W. J. Bunting, L. E. Hurwitz and T. E. Weber from the A.P.E.M.

Respectfully submitted,

T. E. WEBER, P. Eng.,  
Chairman.

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### FLIN FLON NEWS

By M. N. COLLISON, P. Eng.

G. H. Kent, P. Eng., along with his wife, Kay, just recently returned from a three-week trip to the eastern States and Canada. They visited Gettysburg, Pa., Washington, D.C., Ottawa, Montreal and Quebec. George reports they had an excellent trip and that the scenery in that part of the country was extremely beautiful.

W. A. Morrice, P. Eng., was very successful recently in a hunting trip, in that his freezer is now full of Moose meat.

Frank Gira, P. Eng., along with his wife and year-old son, spent the month of September touring and sight-seeing in Toronto, Sarnia, Detroit and Chicago, as well as a second honeymoon stop-over at Niagara Falls. Your reporter was there on his first honeymoon and can only accept Frank's word that it is an ideal place for a second one.

Ethel and I were in Winnipeg for several days. We saw the third and fourth World Series games, played some golf, shopped, and enjoyed the play, "Private Lives", at the M.T.C. We returned to Flin Flon via Regina, stopping to see the Saskatchewan River Dam, and Saskatoon, where we visited our two children who are attending the University of Saskatchewan.

E. Austin, P. Eng., has just returned from a business trip to New York and Toronto.

## ASSOCIATION SPECIAL MEETING

A Special Meeting of the Association of Professional Engineers of the Province of Manitoba was held on October 16, 1963, to discuss a proposal that the A.P.E.M. should terminate the Joint Agreement with the E.I.C.

Since Council has the authority to take this action without reference to the members, the meeting served mainly to inform Council on the feelings of the membership to the question.

The Joint Agreement was designed for conditions where, as far as practicable, there would be a common membership in the E.I.C. and the A.P.E.M. Possibly these conditions prevailed at the time the Agreement was made, but now that nearly 900 of the 1300 A.P.E.M. members do not belong to the E.I.C., none of the main reasons for the existence of the Agreement applies.

The main points of the Agreement considered that there should be effected:

- (a) A common membership in the two groups. The decline in A.P.E.M. members of the E.I.C. over the past few years leaves doubt as to whether this can ever again be achieved.
- (b) A simplification of fee collecting arrangements. We are advised that the reverse is the case. Collection of E.I.C. fees and correspondence in this regard cost the A.P.E.M. considerable time and money annually.
- (c) A co-ordinated management.

The A.P.E.M. councillors who form the majority of the E.I.C. Management Committee can take little action to co-ordinate activities of two groups with such a minor common membership. In addition, the amount of time demanded of these Council members for the dual role is unreasonably heavy.

During discussion it was suggested that, in the event of the formation of a self administering E.I.C. group in Winnipeg, the Association would favorably consider financial support for joint meetings, presumably by use of funds saved by elimination of E.I.C. fee collecting.

It was also remarked that the additional cost to the E.I.C. of collecting their fees directly would be very small, since the E.I.C. have now installed I.B.M. equipment at headquarters. A suggestion that the A.P.E.M. Executive Secretary be similarly mechanized was received with a silence frigid enough to drive the proposer out into the night.

After further discussion, during which one member unjustly accused a speaker of being

out of order, and subsequent to the defeat of an amendment proposed by a legal minded group, the meeting approved of Council's advising the E.I.C. of intention to terminate the Joint Agreement.—I.W.T.

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M. N. COLLISON, P. Eng.

During a recent Bulletin Committee meeting, a remark was passed regarding the reliability of the author of the "Flin Flon News," known to the Committee as the "Flin Flon Correspondent."

To our horror, we realized that this gentleman had never been recognized to the extent of inclusion on the masthead. We have a Foreign Correspondent who doesn't correspond, presumably due to acquisition of new interests (female) and an Editor who does little but pass the work to the other slaves, so the least we could have done would have been to include Mr. Collison on the Staff list.

Our apologies, Sir, and after the present Editor has been fired, no doubt the new man will have this omission corrected.

Since 1957 Mr. Collison has never failed to provide his excellent news column for each issue of the Bulletin, and the present Committee wishes to take this opportunity to acknowledge his efforts, with thanks.—I.W.T.