

ROYAL METEOROLOGICAL SOCIETY

CANADIAN



BRANCH

THE EXECUTIVE COMMITTEE
ANNUAL REPORT FOR 1961

ROYAL METEOROLOGICAL SOCIETY

CANADIAN BRANCH

Minutes of the 21st Annual Business Meeting, May 11, 1961

The meeting was called to order by the President, Mr. J.M. Leaver, at 8.00 P.M., in the Faculty Club, McGill University, Montreal.

The minutes of the 20th Annual Business Meeting, held April 19, 1960, at the same locale, were available to the membership. It was moved by Mr. D.E. McClellan and seconded by Mr. A. Robert that they be adopted; carried.

The Annual Report of the Executive Committee for 1960-61 was submitted to the meeting. This report had been circulated to the Branch membership. A motion for adoption was made by Mr. M. Kwizak and seconded by Mr. B. Brown; carried.

Mr. H.M. Hutchon surveyed the financial situation of the Branch which was found to be in a healthy state. In view of this, Mr. Hutchon moved that the Canadian Branch fees for 1961-62 be set at the same figure as in 1960-61; seconded by Mr. A. Robert; carried.

It was moved by Mr. H.M. Hutchon that Mr. A. High be the Auditor for 1961-62; seconded by Mr. R. Anderson; carried. At the same time, a vote of thanks was tendered to Mr. High for his services to the Branch during the past years.

In the course of his remarks the retiring President stated that his two years on the Executive had proven both interesting and educational. He expressed the hope that other members of the Branch, when asked to serve on the Executive in future years, would do so gladly. Mr. Leaver then welcomed the new Executive.

The Executive Committee for 1961-62

President	- Prof. R. H. Douglas
Vice-President	- Prof. B. W. Boville
Secretary (corresponding)	- Mr. L. W. Hubbert
Secretary (recording)	- Mr. C. L. Johnstone
Treasurer	- Mr. F. J. Mahaffy
Vice-President for Canada	- Prof. F. K. Hare
Councillors	- Mr. R. V. Dexter (Halifax)
	- Mr. L. B. MacHattie (Ottawa)
	- Prof. B. W. Currie (Saskatoon)
	- Mr. A. F. McQuarrie (Calgary)
Chairmen	Montreal Centre
	Toronto Centre
	Winnipeg Centre

Professor R.H. Douglas, the president-elect, addressed the meeting and, on behalf of the new executive and the Branch members, expressed a vote of thanks to the retiring executive for its fine works of the past years.

The meeting was then adjourned by the new president.

J.M. Leaver
President

B. W. Boville
Recording Secretary.

Royal Meteorological Society Awards for 1961

(a) Napier Shaw Memorial Prize - \$100 - Dr. C.O. Hines, Defence Research Board, Ottawa, for his essay "The Upper Atmosphere in Motion". This prize is awarded triennially by competition (open to all, without restriction of nationality) for the best essay on a selected topic for which certain specifications are laid down; the topic on this occasion was "The Upper Atmosphere". The Award was made by the Royal Meteorological Society, London, as its annual meeting in April; in Dr. Hines' absence, it was accepted on his behalf by the High Commissioner for Canada, the Honourable G.A. Drew, Q.C.

(b) The Hugh Robert Mill Award, with Bronze Medal - Prof. J.S. Marshall, Chairman, Dept. of Meteorology and Macdonald Professor of Physics, McGill University. This prize is awarded biennially for original research into rainfall either as a meteorological phenomenon, or in relation to climatology, agriculture, water supply, water power, or other application. The award was made by the Royal Meteorological Society, London, in April, Prof. Marshall being unable to be present.

(c) The Darton Prize - Book tokens, 9 guineas - Prof. Walter Hitschfeld, Dept. of Meteorology, McGill University. This is one of two such prizes, offered annually through the generosity of Messrs. Darton and Co. Ltd., one of which is awarded upon recommendations of the Canadian Branch. The Branch recommended Prof. Hitschfeld for his contribution, as co-author, to the paper "Radiative Transfer in the Lower Stratosphere due to the 9.6 μ Band of Ozone" (in the Quarterly Journal of the Royal Meteorological Society, October 1961). The award was made by the Royal Meteorological Society, London, in April, Prof. Hitschfeld being unable to be present.

(d) The President's Prize. By tradition a book, the award is made by the Canadian Branch to Prof. B.W. Boville and Dean F.K. Hare, both of McGill University, for their joint paper "Total Ozone and Perturbations in the Middle Stratosphere", published in the Quarterly Journal of the Royal Meteorological Society, October 1961.

Report from the President

Following the pattern set in the past two years, the Canadian Branch, Royal Meteorological Society, plans to meet again with the Canadian learned societies on June 6 -7 at McMaster University, Hamilton. Joint sessions are being planned with the Royal Society of Canada and with the Canadian Association of Physicists, and it is hoped that as many Fellows as possible will attend the meetings.

As the Treasurer points out in his report, revenue available to the Branch through membership fees has declined conspicuously during the last year. Of the ten dollar annual subscription, three guineas are forwarded to the Parent Society. In January, 1961, this amounted to \$ 8.84 , and in January 1962 to \$ 9.30. At present, then, the Branch has a net income of 70¢ per capita only 60% of that of a year ago. This places the Branch in an unfavourable position with respect to support and extension of Centre activities. The Executive hesitates to draw on capital assets which, we feel, should be preserved intact against future needs arising from a possible re-organization and development of a publishing policy. Under these circumstances, the Executive recommends to the Annual Meeting an increase in the annual subscription for the year 1963, from \$ 10 to \$ 12. This recommendation is made with reluctance, but is considered necessary if the Branch is to meet its responsibilities.

The Executive Committee

The Executive Committee met five times during the 1961 - 62 period.

Members, 1961-62

President	Prof. R.H. Douglas
Vice-President	Prof. B.W. Boville
Secretary (recording)	Mr. C.L. Johnstone
Secretary (corresponding)	Mr. L.W. Hubbert
Treasurer	Mr. F.J. Mahaffey
Vice-President for Canada	Dean F.K. Hare

Councillors	Mr. A. F. McQuarrie (Calgary)
	Mr. L. B. MacHattie (Ottawa)
	Mr. R. V. Dexter (Halifax)
	Prof. B. W. Currie (Saskatoon)

Chairmen	Montreal Centre	Mr. N. Powe
	Toronto Centre	Mr. J. Bruce
	Winnipeg Centre	Mr. J. J. Labelle

Committees

Nominating Committee

Local members of the Executive Committee

Prize Committee

Mr. J. M. Leaver
Mr. C. Penner

Committee on Organization

Prof. J. S. Marshall (Chairman)
Dr. W. L. Godson
Prof. P. A. Sheppard, Consulting member in the
United Kingdom.

Planning Committee, National Meetings

Mr. P. Johns (Chairman)
Dr. W. L. Godson
Prof. R. H. Douglas
Mr. D. E. McClellan

MEMBERSHIP STATISTICS, 1961

	Fellows	Life Members	Students	Total
31 Dec., 1960	333	5	1	339
Elected	30			
Transferred	2			
Resigned	1			
Suspended	11			
31 Dec. 1961	353	5	1	359

REPORT OF THE MONTREAL CENTRE

Six meetings of the Montreal Centre were held during 1961, five at McGill University and the Annual Meeting at the new offices of the Meteorological Branch of the Department of Transport at Montreal's International Airport. The speakers were from McGill University and the Department of Transport, with the exception of General J.J. George of Eastern Airlines, who made the journey from Atlanta, Georgia, to speak at the Montreal Centre on December 7. The meetings continue to be well attended.

The following officers were elected for 1961

Chairman	Mr. N. Powe
Secretary	Miss C. Wilson
Treasurer	Mr. L.A. Hillgartner

Meetings of the Montreal Centre :

January 26	A Progress Report on Snow	Prof. K.L.S. Gunn McGill University
	The Freezing of Supercooled Drops	Prof. E.J. Stansbury McGill University
February 23	Statistics in Meteorology	D.E. McClellan A. Eddy Central Analysis Office Canadian Meteorological Branch
March 28 (Annual Meeting)	The Ozonosphere, Gateway to the Upper Atmosphere	Dr. W.L. Godson Canadian Meteorological Branch
May 11	The Ice Storm of 25-26 February 1961	Prof. B.W. Boville Prof. K.L.S. Gunn Prof. R.H. Douglas McGill University W.L. Gutzman Central Analysis Office Canadian Branch

November 7	Weather Reporting from Remote Weather Stations	G. B. Salmon Meteorological Inspector Montreal District Dept. of Transport Prof. S. Orvig McGill University
December 7	Operational Practices and Problems in Predicting Clear Air Turbulence	J. J. George Eastern Airlines

REPORT OF THE TORONTO CENTRE

Eight meetings were held by the Toronto Centre during 1961. The March meeting was a dinner meeting attended by 60 members and wives. Attendance at the remaining meetings varied from 40 to 80.

Six meetings were held by the Centre executive during the year. The decision was made to offer the help of the Toronto Centre to the Commission for Agricultural Meteorology during their July sessions to be held in July 1962 in Toronto. As a result, the Toronto Centre with Dr. A. Thompson as organizer, is assisting CAGM in the arrangement of a full day's session to be devoted to the presentation of meteorological papers in the field of agricultural meteorology.

During 1961, 25 applications for membership in the Society were forwarded to the Branch secretary.

Officers from June 1, 1961 were

Chairman	Mr. K. P. Bruce
Treasurer	Mr. T. L. Wiacek
Secretary	Mr. S. J. Buckler
Programme Secretary	Mr. R. E. Vockeroth

Meetings of the Toronto Centre

January 24	Symposium on Low Visibility Concepts and Measurements as Applied to Aviation	S. Lantigua H. Hopson E. Estelle W. Eggert
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February 28	Optical Studies of Turbulence near the Ground	Dr. J. Portman Univ. of Michigan Research Institute
March 29	Looking at the IGY	Prof. J. T. Wilson Past President I. U. G. G.
April 25	The McGill Dept. of Meteorology and its Role in Canadian Life and Letters.	Prof. F. K. Hare McGill University
May 30	Symposium on Automation	H. Cameron B.S.V. Cudbird H.H. Bindon
September 28	The influence of Topo- graphy on High Level Turbulence	Dr. J. Clodman
October 24	The Pacific Science Congress 1961, and Hawaii.	C.M. Penner.
November 28	Studies of Currents in the Great Lakes	Prof. R. E. Dean Univ. of Toronto Great Lakes Institute

REPORT OF THE WINNIPEG CENTRE

Seven meetings were held during the year; two of these were dinner meetings.

Officers during 1961 were

Honorary Chairman	Mr. D.M. Robertson
Chairman	Mr. J. J. Labelle
Vice Chairman	Mr. D.G. Black
Secretary-treasurer	Mr. F.J. Sebastian.

Meetings of the Winnipeg Centre

January 23	Variations of Ultra-Violet light from the Sun by Observation of Changes in the Concentration of Atmospheric Ozone	Dr. W. L. Godson
March 24	Composite Tornado Charts	Mr. B. Lowe
April 21	Impact of Doppler on the Measurement and Forecasting of Upper Winds	W. C. K. Greenaway
June 13	Report on the A. M. S. Meeting, Chicago	Mr. E. Dexter
	Report on a Visit to USAF Meteorological Training School at Chanute AFB, Illinois	Mr. R. Armstrong
September 11	The Tenth Pacific Science Congress	Mr. C. Penner
October 20	Storm Rainfall for Spillway Design	Mr. G. McKay
December 5	Meteorological Aspects of Canada's Great Lakes Research Programme	Mr. J. P. Bruce

Treasurer's Report for the Year ending 31 December 1961

CASH ACCOUNT

Receipts

Fees; Initiation	75.00	
1960 Fellows	169.35	
1961 Fellows	2505.48	
1962 Fellows	40.00	
Bank Exchange added to cheques	13.19	
Bank and Bond Interest	94.38	
Sales of Publications	21.43	
Receipts from National Meteorological Congress	<u>52.12</u>	
Total Receipts		2970.95
Bank Balance Dec. 31, 1960		<u>1845.65</u>
		<u>4816.60</u>

Expenditures

Bank charges	16.83	
Postage	45.00	
Payments to Centres		
Toronto	54.36	
Montreal	25.00	
Winnipeg	4.75	
Stationery	14.23	
Publishing costs (including N. M. C.)	160.83	
Remission of Fees to Royal Meteorological Society London (1960 and 1961 fees)	2693.30	
Miscellaneous	<u>13.20</u>	
Total Expenditures		3027.50
Bank Balance Dec. 31, 1961	1808.61	
less cheque outstanding	<u>19.51</u>	
Cash balance Dec. 31, 1961		<u>1789.10</u>
		<u>4816.60</u>

Balance Sheet as of 31 December , 1961

ASSETS

Bank Balance at December 31, 1961		
Royal Bank -	1477.62	
(Montreal Airport)		
Bank of Montreal - Toronto	<u>311.38</u>	1789.10
Bonds (Market Value plus accrued interest to Dec. 31, 1961)		
\$ 1000 G. of C. 3-3/4% - 1978	879.86	
\$ 300. G. of C. 4-1/2% - 1983	<u>283.87</u>	1163.73
Inventories	Nil	
Total Assets		<u><u>2952.83</u></u>

LIABILITIES

Portion of 1961 fees payable to RMS London	399.43	
1961 Fees paid in advance	40.00	
1962 Account payable (Montreal centre-rental charges)	<u>28.00</u>	467.43
Surplus Dec. 31, 1960	2168.02	
Surplus for 1961	<u>317.38</u>	2485.40
Total Liabilities and Surplus		<u><u>2952.83</u></u>

The net surplus of \$ 311.48 for 1961 compares favourably with the small deficit incurred in 1960. This was mainly due to a substantial reduction in postage and publishing costs.

Excluding postage the net cost of the National Meteorological Congress in June was only \$ 42.71.

The financial position of the Canadian Branch will be seriously affected by the change in foreign exchange rates on the Canadian dollar which occurred in recent months. Out of each \$ 10. fee the sum of 3 -3-0 must be remitted to the parent Society, the balance being retained for our own use. This balance has declined from \$ 1.30 per member in September 1960 to \$ 0.70 at the present time. Assuming a stable exchange rate for 1962 the projected income of the Canadian Branch does not appear sufficient to cover necessary expenses.

AUDITOR'S REPORT

I have studied the accounts of the Canadian Branch of the Royal Meteorological Society, and am satisfied that the Treasurer's Report presents a proper statement of the Branch's financial status as of December 31, 1961

A. High
Auditor

PRIZES

The Prize Committee has recommended the following awards for 1961 :

President's Prize : To Prof. B. W. Boville and Dean F. K. Hare for their paper " Total Ozone and Perturbations in the Middle Stratosphere" published in the Quarterly Journal of the Royal Meteorological Society, October 1961.

Darton Prize : To Prof. Walter Hitschfeld for his contribution , as co-author , to the paper "Radiative Transfer in the Lower Stratosphere due to the 9.6 Band of Ozone" , published in the Quarterly Journal of the Royal Meteorological Society, October 1961.

The Prize Committee recommends that, in order to facilitate its work, a notice be distributed to all members in December of each year requesting that they forward to the Secretary information on papers which they have presented and subsequently published, which would qualify for either prize and which they wish considered for an award.

NOMINATIONS

The following slate is presented for the 1962-63 Executive Committee *

President	Prof. B.W. Boville
Vice-President	Prof. R.H. Douglas
Treasurer	Mr. F.J. Mahaffy
Corresponding Secretary	Mr. L.W. Hubbert
Recording Secretary	Mr. L.C. Johnstone
Vice-President for Canada **	Prof. J.S. Marshall
Councillors	Mr. R.V. Dexter (Halifax) Prof. R.W. Longley (Edmonton) Mr. L.B. MacHattie (Ottawa) Mr. J.B. Wright (Vancouver)
Chairmen	Montreal Centre <i>RA Perry</i> Toronto Centre <i>Dr J. C. ...</i> Winnipeg Centre

*Martin H.Q. [Signature]
Forest Office
HMC [Signature]
[Signature]*

* No further nominations having been received , the above slate will be announced at the Annual Meeting.

** Nominated by the Executive Committee to the Council of the Society.

National Meteorological Congress

June 6 and 7, at McMaster University, Hamilton

Arrangements have been completed by Dr. Godson for the special sessions of the Branch to be held in conjunction with the Royal Society of Canada and the Canadian Association of Physicists.

The former session, on the morning of June 6, will be a Symposium on Dynamic and Thermal Linkages between Successive Atmospheric Layers. Three speakers will discuss interactions between the ionosphere and lower atmospheric levels, between the stratosphere and troposphere, and between the atmosphere and ocean. The latter session on the morning of June 7, is to be a Symposium on Upper Atmosphere Physics, with eight papers scheduled. Programs have yet to be completed for the remaining two Branch sessions.

The final Program, including the two Branch sessions will be announced at a later date. Details of accommodation and registration are to be found on the enclosed forms.