

ROYAL METEOROLOGICAL SOCIETY  
CANADIAN BRANCH



1960-61

THE EXECUTIVE COMMITTEE  
ANNUAL REPORT FOR 1960

The National Meteorological Congress  
will be held in Montreal  
on June 6 - 7, 1961

**National Meteorological Congress**

**June 6 and 7, Montreal**

The Congress will comprise three sessions at the University of Montreal and one session, held jointly with the Royal Society of Canada, Section III, at McGill. The programme for this joint meeting (7th June, morning) will consist of five papers on the physics of precipitation, of which three will be devoted to hail. Another session will deal with the stratosphere. The topics for the remaining sessions have not been determined, but papers will be offered on numerical models, climatology and pollution. There is still room in all fields for some additional contributions, and I would welcome receiving titles and brief abstracts without delay.

As a novel feature in Canada, some of the papers will be fairly formal presentations of work recently published in the Quarterly Journal, and the discussion on them will be appearing in that Journal in a subsequent issue. The majority of the papers will be briefer contributions on work that has not yet quite reached the stage of formal publication.

Walter Hitschfeld  
Department of Meteorology  
McGill University  
Montreal 2, Quebec

15 March 1961

ROYAL METEOROLOGICAL SOCIETY

CANADIAN BRANCH

Minutes of the 20th Annual Business Meeting

The meeting was called to order by the President, Prof. J.S. Marshall, at 8:00 P.M. on Tuesday, April 19, 1960. The locale was the Faculty Club, McGill University, Montreal.

The minutes of the previous annual meeting, held in Toronto, were available to the membership. It was moved by Dr. S. Orvig and seconded by Dr. R.H. Douglas that they be adopted, carried.

The Annual Report of the Executive Committee for 1959-60 was submitted to the meeting. This report had been printed and circulated to the Branch membership. It was moved by Mr. M. Kwizak and seconded by Mr. J.M. Leaver that the report be adopted, carried

It was moved by Mr. H.M. Hutchon that the Canadian Branch fees for 1961 be set at the same figures as in 1960 and that arrangements with regard to remittances to the Parent Society remain unchanged, seconded by Mr. R. Anderson and carried.

The President referred to a letter from the Toronto Centre commenting on a publication date in the Report of the Prize Committee. This was commended to the attention of the incoming executive committee.

It was moved by Mr. H.M. Hutchon that Mr. A. High be the Auditor for 1961, seconded by Mr. D.E. Page and carried. A vote of thanks was tendered to Mr. High for his services to the Branch in 1960.

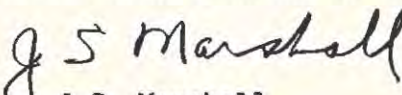
In his closing remarks the retiring President reviewed the activities of the year. A highlight is the planned Branch meeting with the Learned Societies on June 7th and 8th at Queen's University, Kingston. The President's visit and talk to each of the Centres this year is recommended as a Branch tradition. A Canadian meteorological journal remains a live issue.


The Executive Committee for 1960-61

President	- Mr. J.M. Leaver
Vice-President	- Prof. J.S. Marshall
Secretary (recording)	- Mr. B.W. Boville
Secretary (corresponding)	- Mr. R. Anderson
Treasurer	- Mr. H.M. Hutchon
Vice-President for Canada	- Dr. W.L. Godson
Councillors	- Mr. E.A. Barks (Moncton)
	Mr. L.B. MacHattie (Ottawa)
	Prof. B.W. Currie (Saskatoon)
	Mr. A.F. McQuarrie (Calgary)

Mr. J.M. Leaver, the President-elect thanked Prof. Marshall for his leadership during the initial year of the Executive's sojourn in Montreal. Mr. R. Anderson was thanked for carrying on the many duties of the corresponding secretary.

The meeting was adjourned on a motion by Prof. F.K. Hare, seconded by Mr. J.J. Gillis and carried.

  
J.S. Marshall  
President.

  
B.W. Boville  
Recording Secretary.

May 15, 1960.

### Report from the President

Following the successful meeting held in Kingston last year with the Canadian learned societies, the Canadian Branch, Royal Meteorological Society will hold similar meetings in Montreal this year on 6 and 7 June. An interesting program is planned and we hope that every member who can possibly do so will attend at least some of the sessions.

A committee on "the organization and future" of the Canadian Branch has been established.

Investigation and study continued during the year respecting a Canadian meteorological publication. Progress was slow, but all possibilities have not yet been exhausted. Professor J.S. Marshall was appointed to the Editorial Board of the Quarterly Journal of the Royal Meteorological Society. The similar appointment of a Canadian member to the Editorial Board of Weather is being explored. As a result of representations from the Darton Company, the terms of reference of the Darton Prizes will probably be changed. Official confirmation of these changes is expected shortly.

### The Executive Committee

The Executive Committee considered the business of the Branch on five occasions during the 1960-61 period. Distance limited attendance to the local officers. Notices and minutes were sent to Committee members.

#### Members of the Executive Committee 1960-61

President	Mr. J.M. Leaver
Vice-President	Prof. J.S. Marshall
Secretary (recording)	Prof. B.W. Boville
Secretary (corresponding)	Mr. R. Anderson
Treasurer	Mr. H.M. Hutchon
Vice-President for Canada	Dr. W.L. Godson
Councillors	Mr. E.A. Barks (Moncton) Mr. L.B. MacHattie (Ottawa) Prof. B.W. Currie (Saskatoon) Mr. A.F. McQuarrie (Calgary)
Chairman	Montreal Centre Mr. R.A. Strachan Toronto Centre Mr. K.T. McLeod (Mr. H.H. Bindon) Winnipeg Centre Mr. A.H. Lamont (Mr. J.J. Labelle)

Appointments

## Coordinating Committee for the National Meeting

Prof. W. Hitschfeld, Chairman  
 Prof. J.S. Marshall, Dr. D.P. McIntyre, Mr. M. Kwizak,  
 Mr. J.L. Galloway, Mr. G. Oddie

## Nominating Committee

Mr. J.M. Leaver, Prof. J.S. Marshall

## Prize Committee

Mr. D.E. McClellan, Chairman  
 Mr. A.G. MacVicar

## Committee on Organization

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

MEMBERSHIP STATISTICS for the Canadian Branch

	Life Fellows	Fellows	Students	Total
Jan. 1, 1960	5	329		334
Dec. 31, 1960	5	333	1	339
New members	-	19		
Resignations	-	4	Transfer to R.M.S. -	1
Suspension for non-payment of 1959 fees		-	9	

REPORT OF THE MONTREAL CENTRE

Five meetings of the Montreal Centre were held in the Faculty Club of McGill University. There was a wide range of topics this year and meetings continued to be well attended.

The following Officers were elected for 1960

Chairman	Mr. R.A. Strachan
Secretary	Miss C. Wilson
Treasurer	Mr. P.W. Summers

Meetings of the Montreal Centre, 1960

Feb 25	Some Comments and Observations from a Pilot	Capt. George Lothian, Trans-Canada Airlines.
April 19	Development of Operational Weather Radar	Prof. J.S. Marshall, McGill University.
May 19 (Annual Meeting)	Current Problems of Numerical Weather Prediction	Dr. George P. Cressman, Director of the National Meteorological Centre, Washington, D.C.
Oct 27	The Polar-Night Westerlies	Prof. F.K. Hare, McGill University.
Nov 24	Some Problems in Cloud Physics	Mr. B. Power Weather Engineering Corporation

REPORT OF THE TORONTO CENTRE

Seven meetings were held by the Toronto Centre during 1960. Attendance increased steadily during the year, with an average of 75 members and guests present at the last three meetings.

Requests for back numbers of publications of the Canadian Branch have been handled by the Toronto Centre secretary. Arrangements were made for reprinting Vol. 7, No. 4 and Vol. 8, No. 1 because of quantity requests for these issues.

Officers from June 1, 1960 were:

Chairman	Mr. K.T. McLeod - Mr. H.H. Bindon
Secretary	Mr. S.J. Buckler,
Programme Secretary	Mr. J.P. Bruce
Treasurer	Mr. T.D. Wiacek

When Mr. McLeod accepted his position with the W. M. O. Secretariat in September, his place as Chairman was filled by Mr. H. Bindon.

#### Meetings of the Toronto Centre, 1960

Feb 23	Micrometeorological Research in the Geophysics Research Directorate	Dr. Mariano Estoque, Air Force Cambridge Research Laboratories.
Feb 25	Numerical Weather Prediction at the C. A. O. ; Current Projects and Future Implications	Mr. M. Kwizak, CAO, Montreal.
May 10	Freezing Nucleation	Prof. J.S. Marshall, McGill University.
June 1	Open House at Scarboro; Instrument Division, Physical Research Unit, Upper Air Training School of the Meteorological Branch, D. O. T.	
Sep 28	Meteorological and Hydrological Conferences in Europe during the summer of 1960	Dr. D. P. McIntyre, Dr. W. L. Godson and Mr. J. P. Bruce.
Oct 24	Oceanography in Canada	Dr. W. Cameron.
Nov 29	Operation of a Modern Forecast Office	Malton Staff

#### REPORT OF THE WINNIPEG CENTRE

The officers of the Winnipeg Centre for 1960 were as follows:

Honorary Chairman	Mr. D. M. Robertson	
Chairman	Mr. A. H. Lamont	- Mr. J. J. Labelle
Vice-Chairman	Mr. J. J. Labelle	- Mr. D. G. Black
Secretary-Treasurer	Mr. L. C. Oddy	- Mr. F. J. Sebastian

The Executive Committee changes were made in March when Mr. Lamont was posted overseas and Mr. Oddy to Toronto. At a social evening on March 19 suitable books were presented to mark their departure.

A highlight of the April 4 meeting, at which the President of the Canadian Branch was the guest speaker, was the presentation of the President's Prize to Messrs. A.B. Lowe and G. A. McKay for their paper "The Tornado in Western Canada" published in the Bulletin of the American Meteorological Society.

Five meetings were held during the year as follows:

Feb 12	The Dispatching of Natural Gas with Particular Reference to Weather	Mr. Petursson, Engineer - Greater Winnipeg Gas Company.
March 11	(1) Nuclear Explosions and Applications of Meteorology (2) Natural Indicators of Climate	Mr. H. Cameron, Supt. Continental Aviation Weather Services. D. O. T.
April 4	Operational Use of Weather Radar	Prof. J.S. Marshall, McGill University; Pres. Canadian Branch.
June 3	Report on A.M.S. Conference on Severe Thunderstorms held in St. Louis	Mr. A.B. Lowe DAFO, Winnipeg.
Oct 21	Panel Discussion - Meteorological Aspects of High Level Flight Operations Panel Members: Mr. F.T. Upton, AFO, Portage, Mr. A.F. Davies and Mr. J.F. McMorran, DAFO, Winnipeg, and Mr. R.M. MacKenzie, AFO Gimli.	Moderator Mr. D.G. Black, TCHQ Winnipeg.

A dinner meeting on April 4 was held in Silver Heights Restaurant. The remainder of the meetings were held at Number 2 Air Observer's School, R.C.A.F. Station, Winnipeg. The local centre is indebted to the Commanding Officer for the privilege of using the lecture room facilities.

Average attendance at the meetings was 15 to 20 with the exception of the March 11 meeting when some 40 people were present including invited military personnel. Interest remains high and our activities continue to receive the enthusiastic support of all members of the Winnipeg Centre.



Treasurer's Report for the Year ending 31 December 1960

CASH ACCOUNT

Receipts

Fees: Initiation	34.85	
1959 Fellows & Associates	17.00	
1960 Fellows & Students	3031.60	
1961 Fellows	763.58	
Bank exchange added to cheques	24.01	
Bank and Bond interest	77.09	
Sales of Publications	<u>23.99</u>	
Total Receipts		3972.12
Bank Balance 31 December 1959		<u>3782.50</u>
		<u>7754.62</u>

Expenditures

Bank charges	26.21	
Postage	163.37	
Payments to Centres		
Toronto centre	8.00	
Montreal centre	78.00	
Stationery	26.58	
Publishing costs	300.24	
Purchase of publication	9.00	
Remission of Fees to Royal		
Meteorological Society - London	5280.94	
(1959 and 1960 fees)		
Miscellaneous	<u>16.63</u>	
Total Expenditures		5908.97
Cash Balance 31 December 1960		<u>1845.65</u>
		<u>7754.62</u>

Balance Sheet as of 31 December 1960

ASSETS

Bank Balance 31 December 1960

Royal Bank of Canada	1590.34	
Bank of Montreal	<u>255.31</u>	1845.65

Bonds (Market value plus accrued interest to 31 December 1960)

\$1000 G. of C. 3 % - 1978	832.36	
\$ 300 G. of C. 4 % - 1983	<u>269.59</u>	1101.95

Inventories:

Cloud Atlases for sale		<u>9.00</u>
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Total Assets		<u>2956.60</u>
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LIABILITIES

1961 Fees paid in advance	763.58	
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Rent payable to Montreal Centre for 1960 Meetings	<u>25.00</u>	
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Net Liabilities		788.58
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Surplus 31 December 1959	2187.10	
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Deficit for 1960	<u>19.08</u>	<u>2168.02</u>
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Total liabilities and surplus		<u>2956.60</u>
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The amount remitted to the Royal Meteorological Society, London, includes their portion of the fees for both 1959 and 1960. The increase in ordinary expenditures has been mainly due to the costs of publishing the various Canadian Branch documents. This increase has been partly offset by lowered postage and stationery costs brought about by the transfer to the Royal Meteorological Society, London, of responsibility for mailing the Quarterly Journal, and Weather, together with an increase in value of the bonds.

Although the sterling rate of exchange has increased in recent months, revenues and expenditures are approximately equal under the present structure of fees. In view of this, I do not propose to recommend an increase in the annual fees.

#### AUDITOR'S REPORT

I have studied the account 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 31 December 1960.

A.High  
Auditor.

#### PRIZES

The Prize Committee recommended the following awards for 1960:

President's Prize: To Prof. F.K. Hare for his paper "The Disturbed Circulation of the Arctic Stratosphere" published in the Journal of Meteorology, 1960, Vol. 17, No.1 and presented at the Montreal Centre in November, 1960.

Darton Prize: to Dr. W.L. Godson for his paper "Total Ozone and the Middle Stratosphere over Arctic and Sub-Arctic in Winter and Spring", published in the Quarterly Journal of the Royal Meteorological Society, 1960, Vol. 86, No. 369.

## NOMINATIONS

The nominating committee has presented the following slate of officers for the 1961-62 Executive Committee\*

President	Prof. R.H. Douglas
Vice-President	Prof. B.W. Boville
Treasurer	Mr. F.J. Mahaffy
Corresponding Secretary	Mr. L.W. Hubbert
Recording Secretary	Mr. C.L. Johnstone
Vice-President for Canada** on the Council of the Society	Prof. F.K. Hare
Councillors	Mr. A.F. McQuarrie (Calgary) Mr. R.V. Dexter (Halifax) Mr. L.B. MacHattie (Ottawa) Prof. B.W. Currie (Saskatoon)
Chairmen	Montreal Centre <i>N.N. Power</i> Toronto Centre <i>J.P. Bruce</i> Winnipeg Centre <i>D.M. Robertson</i>

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\* The recording secretary has received no further nominations and the above slate will be announced at the annual meeting.

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

REPORT OF THE PRIZE COMMITTEE - 1960

1. The President's Prize Committee met on 3 Feb 61 for the purpose of selecting the winners of the President's Prize and Darton Prize for 1960 and of making recommendations concerning the selection of prize winners in future years.

The committee consisted of D.E. McClellan and A.G. MacVicar.

2. The Committee considered all papers by Canadian Branch members published in a recognized journal bearing the date of the preceding calendar year and previously presented to a Canadian Branch or Centre Meeting to be eligible for the President's Prize.

3. The Committee considered all papers by Canadian Branch members published in a Royal Meteorological Society publication bearing the date of the preceding calendar year to be eligible for the Darton Prize(s).

4. The Committee reviewed the correspondence between the Canadian Branch Executive, the Weather Committee of the Parent Body of the Royal Meteorological Society, and Darton and Company. It was decided that the 1st and 2nd Darton Prizes would be telescoped into a single category entitled "The Darton Prize".

5. The Committee agreed to recommend that the President's Prize, 1960, be awarded to Prof. F.K. Hare for his paper "The Disturbed Circulation of the Arctic Stratosphere" published in the Journal of Meteorology, 1960, Vol. 17, No. 1 and presented by him at the Montreal Centre of the Canadian Branch in November 1960.

6. The Committee agreed to recommend that the Darton Prize 1960 be awarded to W.L. Godson for his paper "Total Ozone and the Middle Stratosphere over Arctic and Sub-Arctic areas in Winter and Spring" published in the Quarterly Journal of the Royal Meteorological Society, 1960, Vol. 86, No. 369.

7. The Committee made recommendations concerning the awarding of prizes. These are contained in an attachment to this report.

8. The lists of papers which were considered eligible for the prizes is attached.

*D.E. McClellan*  
D.E. McClellan. *Chairman.*  
A.G. MacVicar.

RECOMMENDATIONS REGARDING SELECTIONS AND  
AWARDING OF PRIZES BY THE CANADIAN BRANCH

1.        INTRODUCTION

The precedent concerning the awarding of the President's Prize has become well established. No major modification should be made concerning this award.

The changes suggested by the Parent Society and the Canadian Branch Executive involved the telescoping of the first and second Darton prizes. This suggestion met with the unanimous approval of the Committee.

It was noted that there is an increasing tendency for awards to be made to members of the Society who are engaged primarily in research endeavor. The gap in scope and depth of background shown in papers written by the "research" group as compared to papers written by the "operational and administrative" group was clearly evident. It was felt that the Canadian Branch should encourage papers written by members who are not engaged primarily in research activities. The problem could be resolved by the addition of a new prize which would be restricted to members who are primarily engaged in operational and administrative duties.

It was apparent that in some years many papers were eligible for the Society's award, while in other years only a few papers were eligible. If the eligible period is extended to two years, it was felt that greater freedom would be given to the Prize Committee in making their selections.

At present, the Prize Committee shoulders the entire responsibility for ensuring that all eligible papers are considered for awards. Revised administrative procedures to broaden this responsibility load should be devised.

2.        The Committee recommends that all papers by Canadian Branch members published in a recognized journal in the preceding two calendar years and previously presented to a Canadian Branch or Centre meeting and which have not previously been awarded a prize by the Canadian Branch, shall be eligible for the President's Prize. This prize shall be considered the senior prize awarded by the Canadian Branch of the Royal Meteorological Society.

3. The Committee recommends that all papers published by Canadian Branch members published in a Royal Meteorological Society publication in the preceding two calendar years and not previously awarded a prize by the Canadian Branch, shall be eligible for the Darton Prize.

4. The Committee recommends that all technical and sub-technical papers by Canadian Branch members, whose routine duties are primarily outside the research field, published in a recognized journal or in a publication of the Meteorological Branch, in the preceding two calendar years and which have not previously been awarded a prize by the Canadian Branch, shall be eligible for the NEW Prize.

5. The Committee recommends that as an aid to the establishment of the eligibility lists, each Centre should be required to send to the President of the Branch by February 1st each year, a list of papers by their Canadian Branch members published in a journal bearing the date of the previous calendar year. A list of speakers and topics at each Centre meeting during the previous year should also be forwarded to the President.

PAPERS ATTACHMENT

Papers eligible for the President's Prize 1960.

<u>Author</u>	<u>Title</u>	<u>Presentation</u>	<u>Publication</u>
W.I. Godson	Total Ozone and the middle Stratosphere over Arctic and Sub-Arctic areas in Winter and Spring.	Toronto Canadian Br. May 1959	Quarterly Journal R.M.S. July 1960
J.L. Galloway	The Three Front Model, the developing depression and the occluding process.	Kingston Canadian Br. June 1960	Weather Sept 1960
F.K. Hare	The disturbed State of the Arctic Stratosphere.	Montreal Montreal CR. Nov 1960	Journal of Meteorology Feb 1960
R.E. Mann and M. Katz	Air Pollution Levels associated with a 49-hour inversion at Detroit-Windsor.	Kingston Canadian Br. June 1960	Bulletin of A.M.S. May 1960
C.L. Mateer and W. Godson	The vertical distribution of atmospheric ozone over Canadian Stations from umkehr observations.	Kingston Canadian Br. June 1960	Quarterly Journal R.M.S. Oct 1960
K. Allington, B.W. Boville and F.K. Hare	Mid-Winter Ozone Variations and Stratospheric Flow over Eastern Canada.	Kingston Canadian Br. June 1960	Tellus August 1960

*B.W. Boville*

Papers eligible for the Darton Prize.

*The observation Stratospheric station Montreal Centre Fall '59,*

*Aug 1960  
Journal of  
11/12.*

From the Quarterly Journal.

- April 1960 - F.K. Hare - "Summer Circulation of the Arctic below 30 km."  
July 1960 - W. Godson - "Total Ozone and the middle Stratosphere over arctic and sub-arctic areas in winter and spring."  
October 1960 - Mateer and W. Godson - "The vertical distribution of atmospheric ozone over Canadian Stations from umkehr observations."



PAPERS ATTACHMENT

From Weather

- January 1959 - R.A. Hornstein - "Congealed and Liquefied Speech."  
June 1959 - O. Johnson - "The Development of a Cumulus Cloud over a  
Prairie Grass Fire."  
March 1960 - J.L. Knox - "A Remarkable Analogue."  
Sept 1960 - J.L. Galloway - "The Three Front Model, the developing  
depression and the occluding process."