

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

TORONTO, JANUARY 5, 1917

THE ANNUAL MEETING OF THE SOCIETY

will be held in the

ROOMS, 198 COLLEGE STREET, TORONTO

on Tuesday Evening next, (January 9th, 1917), at 8 o'clock.

The Election of Officers and Members of Council for 1917 will be held and the Reports from the various Centres will be presented. Kindly endeavor to be present.

The next meeting will be the Annual At-Home, on Tuesday evening, January 23rd, the announcement of which will be sent you.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



THE TORONTO
HOSPITAL
FOR CONSUMPTIVES



E. A. Hodgson B.S.

Harrison Observatory

Ottawa

ast

Secretary
R.A.S.C.



UNDER THE AUSPICES OF THE

Royal Astronomical
Society of Canada

A Course of Three Lectures on

“Elementary Astronomy”

will be given by

PROFESSOR C. A. CHANT

on FEBRUARY 6, 13, 20, 1917, at 8 p.m.,
in the PHYSICS BUILDING of the
UNIVERSITY OF TORONTO

The Public Cordially Invited to Attend

Elementary Lectures on Astronomy

The course will consist of three lectures, serving as an introduction to Astronomy, and they will be illustrated by lantern slides and various models. The subjects will be as follows :—

LECTURE I., TUESDAY, FEBRUARY 6.

The sphere formed by the sky ; the apparent motions of the sun, moon and stars every day ; of the moon every month ; of the sun every year ; how the sky is mapped ; explanation of right ascension and declination ; how to identify the stars by the use of the star-maps ; why the stars change with the seasons. (Star-maps will be supplied).

LECTURE II., TUESDAY, FEBRUARY 13.

The moon ; its daily motion, rising and setting ; its motion each month ; meaning of phases, and how produced ; why the full moon is high in winter and low in summer ; the 'old moon in the new moon's arms' ; when the moon can 'hold water' ; harvest moon and hunter's moon ; its influence on the weather ; its appearance in the telescope ; occultations of stars ; eclipses of sun and moon.

LECTURE III., TUESDAY, FEBRUARY 20.

The planets ; how to distinguish them from the fixed stars ; why they appear to go forward, stand still and go backward at times ; why Venus is sometimes an evening, sometimes a morning, star ; when to look for Mercury ; phases shown by Mercury and Venus ; appearance of the planets in the telescope.

The Royal Astronomical Society of Canada

WINNIPEG CENTRE

WINNIPEG, MAN.

Feb. 24, 191*7*

You are invited to attend a ^{Regular}_{Special} Meeting of the above Society to be held in the University Building, Broadway, at 8.15 o'clock, on Wednesday evening.

Feb. 28, 191*7*

LECTURER:

Prof. L. A. H. Warren, F.R.A.S.

SUBJECT:

Nebulae

Yours faithfully,

FRANK POWELL

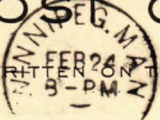
President

J. W. CAMPBELL

Secretary, 203 Furby St.

CANADA POST CARD

THE ADDRESS TO BE WRITTEN ON THIS SIDE



SAVE, SAVE, SAVE
AND
BUY WAR
SA
PERT



Mr. Ed. Hodgson,
Sec. of R.A.S.C.,
Ottawa.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of this Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on Tuesday Evening next, (March 6th, 1917), at 8 o'clock.

Paper for the evening by

J. PATTERSON, M.A., Meteorological Office, Toronto,

on "**LONG RANGE FORECASTING AND OTHER WEATHER ILLUSIONS.**"

The lecturer will deal.--1st. Briefly with the History of Meteorology and trace the origin of the most popular weather proverbs and show weather conditions to be due to the operations of physical laws.

2nd. The results of investigations of the upper atmosphere and how they have changed meteorological theories in regard to cyclones and anti-cyclones and of the weather generally. The lecture will be illustrated.

Next following meeting, March 20th.

The Public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



Private Post Card



\$25.00 FOR \$

BUY WAR
SAVINGS
CERTIFICATE

E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada

TORONTO MEETINGS, 1917

ROOMS, 198 COLLEGE STREET, TORONTO

The Regular Meeting of this Society will be held in the
PHYSICS BUILDING, UNIVERSITY OF TORONTO
on Tuesday Evening next, (March 20th, 1917), at 8 o'clock.

Paper for the evening :—

"THE MYTHOLOGY OF THE STARS."

by **REV. ROBERT NORWOOD, M.A., London, Ont.**

(Author of "The Witch of Endor," "Aldebaran," etc.)

This celebrated orator and poet will review some of the Stellar Myths with which everyone should be familiar, and which have constituted the chief features of many ancient and modern religions and are still the subjects of much classic art and poetry.

A delightful evening is anticipated. Come and bring your interested friends.

Next following meeting, April 3rd.

A. D. WATSON,

President.

J. R. COLLINS,

General Secretary.



Private Post Card



\$25.00 FOR \$21.15
BUY WAR
SAVINGS
CERTIFICATES



E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada

WINNIPEG CENTRE

WINNIPEG, MAN.

Mar. 31, 1917

You are invited to attend a ^{Regular}_{Special} Meeting of the above Society to be held in the University Building, Broadway, at 8.15 o'clock, on Wednesday evening.

Apr. 4, 1917

LECTURER:

J. W. Campbell

SUBJECT:

The Calendar.

Yours faithfully,

FRANK POWELL

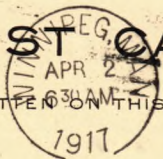
President

J. W. CAMPBELL

Secretary, 203 Furby St.,

CANADA POST CARD

THE ADDRESS TO BE WRITTEN ON THIS SIDE



HELP TO
WIN THE WAR
BUY WAR
SAVINGS
CERTIFICATES



Mr. E. A. Hodgson,
Sec. of R. A. S. C.,
Ottawa,
Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of this Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on **Tuesday Evening next, (April 3rd, 1917), at 8 o'clock.**

Paper for the evening :—

"TELESCOPES FOR ALL AND HOW TO MAKE THEM." (Illustrated).

by **JOHN SATTERLY, M.A., D.Sc., University of Toronto.**

Next following meeting, April 17th.

The Public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



Private Post Card



E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of this Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on Tuesday Evening next, (April 17th, 1917), at 8 o'clock,

Paper for the evening :—

"STELLAR PARALLAX."

by **ALLAN F. MILLER, Toronto.**

Parallax : General and Special Definitions. Principle of Aristarchus. Reminiscences of Work done in Toronto in 1882. Investigators of Stellar Parallax and Methods Employed. The Heliometer. Photographic Methods.

Next following meeting, May 1st.

The Public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



TORONTO. ONT.
APR 14
10-7
1917

Private Post Card



E. A. Hodgson, Esq.
Dominion Observatory
Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of this Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on Tuesday Evening next, (May 1st, 1917), at 8 o'clock.

Paper for the evening :—

"ASTRONOMY FOR BEGINNERS."

by **REV. D. B. MARSH, D.Sc., F.R.A.S., Pickering, Ont.**

The speaker will deal with the care and use of the instruments and observations most useful for beginners. The address will be illustrated.

Next following meeting, May 15th.

The Public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



Private Post Card
TORONTO, ONT.
APR 28 1917
5-AM.

\$25.00 FOR
BUY V
SAVIN
CERTIFIC



E. A. Hodgson, Esq.
Dominion Observatory
Ottawa, Ont.

The Royal Astronomical Society of Canada

TORONTO MEETINGS, 1917

The Regular Meeting of this Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on **Tuesday Evening next, (May 15th, 1917), at 8 o'clock.**

Paper for the evening :—

"THE SOLAR ROTATION,"

by **RALPH E. DeLURY, B.A., Ph.D., Dominion Observatory, Ottawa.**

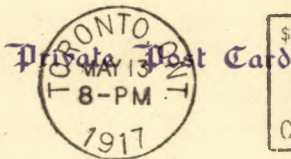
A short history of the work on the problem of the rate of the sun's rotation will be given ; and the results of various series of spectroscopic measurements of the rate will be discussed with reference to the effect of scattered light in lessening such measures. The address will be illustrated.

Next following meeting, May 29th.

The Public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



\$2500 FOR \$21
BUY WAR
SAVINGS
CERTIFICATE



E.A.Hodgson, Esq.
Dominion Observatory
Ottawa, Ont.

The President and Council of the



Royal Astronomical Society of Canada

(Guelph Centre)

Request the pleasure of your company to a free Lec-
ture in the Public Library Lecture Room on

Thursday Evening, May 17th, 1917.

at Eight o'clock

Subject:—"LIGHTNING."

By PROF. W. H. DAY, O. A. C.

In this lecture the speaker will show a number of experiments with electrical apparatus illustrating a few fundamental principles in electricity. He will then apply these to show the origin of the electric charge in the thunder cloud and to account for lightning phenomena, and the behaviour of the current during discharge. He will then further apply the principles and perform experiments to show that it should be possible to prevent or control the lightning flash by proper conductors, and finally present results of investigation to show that lightning rods, properly installed, actually are almost perfect protection against lightning.

Prof. Day has made an extensive study of this subject, performing many experiments with apparatus designed by himself and has, with the co-operation of various insurance companies, gathered statistics of great value with regard to the protection afforded by properly installed rods.

The meeting is open to the public and all interested are cordially invited to be present.

MR. JAS. DAVISON, Hon. Pres. MR. H. J. B. LEADLAY, Pres.

MR. J. McNIECE, Sec.-Treasurer

MR. R. F. BENNETT, Recording Secretary



SA
YOUR MONEY
LEND IT TO YOUR
COUNTRY



Ernest A. Hodgson Esq.,
Secretary Roy. Ad. Soc. Can.,
Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of this Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on Tuesday Evening next, (May 29th, 1917), at 8 o'clock.

Paper for the evening :—

"AN HYPOTHESIS OF MAN'S RELATION TO THE SUN,"

by **J. M. WILLIAMS**, Hamilton, Ont.

Next following meeting, last for season, June 12th. Open Air Meeting with
Telescopes.

The Public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



Private Post Card



\$2500 F...
BUY WA
SAVING
CERTIFICA



E. A. Hodgson, Esq.
Dominion Observatory
Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The last Regular Meeting of this Session will be for Observation with Telescopes on
UNIVERSITY CAMPUS

in front of the Main Building, near Convocation Hall,
on Tuesday Evening next, (June 12th, 1917), beginning at 8.30 o'clock.

A number of Telescopes will be provided.

The large telescope in the tower of the Meteorological Observatory, by courtesy of the Director, will also be available, in charge of Mr. Blake.

Objects to be viewed :

Saturn

CONSTELLATIONS—Leo, Virgo, Scorpio, Bootes and Lyra.

The Public cordially invited.

Should the weather prove unfavorable the Meeting will be held on Wednesday night.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



HELP
WIN THE WAR
BUY WAR
SAVINGS



E.A.Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada

TORONTO MEETINGS, 1917

The First Regular Meeting of the Fall Term will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on Tuesday Evening next, (October 9th, 1917), beginning at 8 o'clock,
REPORTS OF OBSERVATIONS DURING THE SUMMER AND
NOTES AND QUERIES BY THE MEMBERS

You are requested to come prepared to contribute something to the discussion of the evening.

The Program for the balance of the Session will be forwarded to the members in a few days.

Next following Meeting October 23, 1917.

The public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



HELP TO
WIN THE WAR
BUY WAR
SAVINGS
STAMPS



F. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of the Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on **Tuesday Evening next, (October 23rd, 1917)**, beginning at **8 o'clock**.

Paper for the evening by

REV. C. V. PILCHER, M.A.,

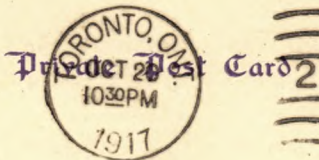
on "**Early Recollections of the Stars.**"

Next following Meeting November 6, 1917.

The public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of the Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO

on **Tuesday Evening next, (November 6th, 1917)**, beginning at **8 o'clock**.

Paper for the evening by

A. F. HUNTER, M.A.,

on "**Special Forms of Halos and Rainbows.**" (Lantern Illustrations)."

The paper will illustrate and explain a series of optical phenomena of the atmosphere seen in Central Ontario, typical or representative of the region. Amongst other forms the paper will describe particular examples of:

1. The great white horizontal circle through the sun and moon (reflexion).
2. The "mock sun" and its close ally, the colored arc in the zenith (refraction).
3. Distorted halos of refraction and of reflexion.
4. The elliptic or circumscribed halo.
5. The "sun pillar."
6. The horizontal rainbow.

Next following meeting November 20, 1917.

The public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



E.A.Hodgson, Esq..

Dominion Observatory

Ottawa, Ont..

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of the Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on **Tuesday Evening next, (November 20th, 1917)**, beginning at **8 o'clock**.
Paper for the evening by

PROFESSOR C. A. CHANT,
on "**Planispheres and How to Use Them.**"

The object of the Celestial Planisphere is to represent the sky at any hour or day of the year.

By simple means it is possible to determine the time on any date when a star will rise or set or be on the meridian; How long it will be above the horizon and much other information.

Planispheres of various types will be exhibited and the method of construction will be explained.

Mr. Paterson found it impossible to be present next Tuesday night, as per program, and an exchange of papers has been arranged with Professor Chant. Mr. Paterson will give his paper on "Aristarchus, The Ancient Copernicus," on the night of December 4.

The public cordially invited.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



HELP THE UNITED
FREE
HOSPITAL
FOR CONSUMPTIVES



E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of the Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on **Tuesday Evening next, (December 4th, 1917)**, beginning at **8 o'clock**.

Paper for the evening by

JOHN A. PATERSON, K.C., M.A.,
on "**Aristarchus, The Ancient Copernicus.**"

The public cordially invited.

Next following Meeting December 18, 1917.

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



HELP THE TOR
FREE
HOSPITAL
FOR CONSUMPTI



E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.

The Royal Astronomical Society of Canada
TORONTO MEETINGS, 1917

The Regular Meeting of the Society will be held in the
ROOMS, 198 COLLEGE STREET, TORONTO
on **Tuesday Evening next, (December 18th, 1917)**, beginning at **8 o'clock**.

Paper for the evening by

A. F. MILLER,
on "**Stellar Parallax,**" (II.)

The public cordially invited.

Next following Meeting will be the **ANNUAL MEETING, JANUARY 15th, 1918.**

A. D. WATSON,
President.

J. R. COLLINS,
General Secretary.



Private Post Card

HELP THE TORONTO
FREE
HOSPITAL
FOR CONSUMPTIVES



E. A. Hodgson, Esq.

Dominion Observatory

Ottawa, Ont.