

A. Vibent Douglas

Personal
Curriculum Vitae

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TCA DC-8

Jetliner
SERVICE

Dr. A. Vincent Douglas MBE, Ph.D., LL.D.
Professor of Astronomy at Q.U.

Born in Montreal & educated
at McGill Univ. & ^{University} U. of Cambridge

Was service in London 1915-19

President R.A.S.C. 1943-45 ?

President I.F.U.W. 1947-50

Member of I.F.U.W. Fellowships Award
Committee 1937-55

Author of life of Sir Arthur Stanley Eddington, ¹⁹⁵⁶

and of essays on astronomy and
education in Atlantic Monthly, ^{Discovery}
Hibbert Journal, and University
Quarterlies, etc.

A delegate from Canada to The Unesco conference

in Montevideo, 1954; and to the
General Assemblies of the International
Astronomical Union, 1948, 1952, 1955, 1958
and 1961.

Alice Vivert Douglas

Montreal 1894

McGill University and University of Cambridge
BA, MSc. Ph.D. LL.D. (McGill) LL.D. (Queens)
D.Sc. (University of Queensland)

War Service 1916-1919 Dept of Statistics
War Office, later Ministry
of National Service, London
1918 Jan 1. M.B.E.

Lecturer in Physics and Astronomy,
McGill University 1923-39.

Professor of Astronomy, Queen's University
1940-63
Dean of Women 1939-59

One-time convener of Scholarships Committee
Can. Fed. of Univ. Women.

Twice convener of Fellowships Award
Committee of Int. Fed of Univ. Women.

President of IFUW 1947-50.

President of Roy. Astron. Soc. Can. 1943-45

Fellow Roy. Astron. Soc. (London)

Member C.I.A.

A delegate from Canada to Unesco
Conference in Montevideo, 1954

Delegate to ^{eleven} ~~eight~~ General Assemblies
of International Astronomical Union
and to ^{twelve} ~~seven~~ Conferences I.F.U.W.

Author of life of Arthur Stanley Eddington
O.M. and three encyclopedia articles
on Eddington; and of numerous
scientific papers and of articles in
Atlantic Monthly, Discovery, Hobart
Journal and University Quarterly;
and of Chapter 24 (Scientific Writings)
in The Literary History of Canada.

A. Vibert Douglas

Born Montreal 1894

Educated McGill University, B.A., M.Sc., Ph.D.

Graduate studies: 1921-23 Cavendish Laboratory and Cambridge Observatory, Cambridge, England under Sir Ernest Rutherford and Sir Arthur Eddington. Held 1st 1002 War Memorial Scholarship 1921-22.

Research assistant 1925 summer, Yerkes Observatory, University of Chicago.

Lecturer in Physics and Astrophysics McGill University, Montreal 1920-21, 1923-39.

Dean of Women Queen's University 1939^{1/2}date; Acting-Professor Astronomy 1946^{1/2}date.

War service 1915-19 British War Office and Ministry of National Service, London, M.B. E. conferred 1918.

1942-43 Member Government Sub-committee on Post-war Problems of Women of Advisory Committee of Reconstruction.

1943-45 member of Canadian Youth Commission

Member Canadian Institute of International Affairs, Chairman Women's Section, Kingston Branch

Member of Canadian Committee of International Astronomical Union.

Fellow of Royal Astronomical Society, Canada since 1920

Member Canadian Federation of University Women and of Fellowship Award Committee C.F.U.W. 1934-44

Member of ~~award committee of International Federation of University Women~~ since 1936.

President I.F.U.W. August 1947-51.

Publications

Scientific papers: 18 in Can, British & USA journals

Essays and articles: scientific & educational, in Hibbert Journal Atlantic Monthly, University Quarterlies, Discovery, Science, etc.

Biography: Arthur Stanley Eddington, O.M. (Nelsons, 1956)

a past president of Roy. Astron. Society of Canada

A. VIBERT DOUGLAS

Born in Montreal, 1894.

Educated in English Private Schools, Westmount Academy and McGill University.

Degrees: B.A., 1920; M.Sc., 1921; Ph.D., 1926.

Post graduate work at Cavendish Laboratory, Cambridge, 1921-22; at the Observatory, Cambridge, 1922-23; at Yerkes Observatory, Wisconsin, 1925.

Teaching experience, McGill University, 1920-21; 1923-

War experience: War Office and Ministry of National Service, 1916-18; Khaki University of Canada, London, 1918-1919. M.B.E. Jan. 1918.

Membership in Societies: Royal Astronomical Society(London).
Royal Astronomical Society of Canada.
American Astronomical Society.
American Association of Variable
Star Observers.
Society of the Sigma Xi.

Publications:

A. Technical Papers -

1. The Absorption and Effective Range of B-Rays from Radium E.
Trans. Roy. Soc. Can., III, 16, 1922.
2. Note on the Interpretation of the Wegener Frequency Curve (in collaboration with G. Vibert Douglas),
Geol. Mag., LX, 705, 1923.
3. Progression of Stellar Velocities with Absolute Magnitude (in collaboration with Prof. A.S. Eddington)
Monthly Notices, Roy. Astr. Soc., Jan. 1923.
4. Real and Apparent Radial Velocities,
Monthly Notices, Roy. Astr. Soc., May, 1924.
5. Sizes of Particles in Certain Pelagic Deposits,
Proc. Roy. Soc. Edin., XLIII, II, 16, 1923.

6. Note on Ionization Clouds in an Expansion Chamber,
Trans.Roy.Soc.Can., III, 1924.
- 7. Spectroscopic Absolute Magnitudes and Parallaxes of
200 A-type Stars.
Journal Roy.Astr.Soc.Can., XX, Oct. 1926.
- 8. Spectroscopic Magnitudes of A-type Stars.
Astrophysical Journal, LXIV, Nov. 1926.
9. A Solution of Fault Problems,
(in collaboration with G.Vibert Douglas),
Can.Mining and Metallurgical Bull., June, 1928.
- 10. Astrophysical Estimates of Ionization Potentials
of Iron, Yttrium and Lanthanum,
Nature, June 9, 1928.
- 11. Astrophysical Estimate of Ionization Potential
of Vanadium,
Nature, April 20, 1929.
12. A Study of Eta Aquilae
(in collaboration with F.C. Henroteau).
Pub.Dom. Observatory, IX, 7, 1929.
13. Deep-sea Deposits and Dredgings,
British Museum (Nat.Hist.) Report on "Quest"
Expedition of 1921-22. Chap.XIII, 1930.
- 14. The Behaviour of the Cyanogen Band near $\lambda 4200$ in
the Spectra of Three Variable Stars,
Monthly Notices, Roy.Astr.Soc.XC, 9, Oct. 1930.
- 15. Note on the Range in Spectrum Variation of Alpha
Ursae Minoris,
Monthly Notices Roy.Astr.Soc.XC, 9, Oct. 1930.
17. Corona by Reflection from Moon
Nature July 1937
16. Analysis of Profiles of Helium Lines in Spectra of B-stars
(in collaboration with J.S. Foster) Nature Sept 15 1934

B. Articles -

1. Determination of Curvature Invariant of Spacetime,
Science, 1924.
2. Measuring the Universe,
Discovery, v.57, Sept. 1924.
3. The Winter Sky,
Journal Roy.Astr.Soc.Can., March, 1924.
4. The Summer Sky,
Journal Roy.Astr.Soc.Can., May, 1924.

5. ^{twm} Intensities of Time and Space (Reprinted Annual Report of Smithsonian Institute of Washington), Discovery, VI, 68, Aug. 1925.
6. Other Little Ships, Atlantic Monthly, Aug. 1925.
7. History of McGill Physical Society, McGill News, VI, 2, March, 1925.
8. Astronomy and the University, McGill News, Dec. 1925.
9. Ho Every One that Thirsteth (Thoughts from Huxley), The Canadian Student, VIII, 3, Dec. 1925.
10. College Physics, (by A. Wilmer Duff) (Book Review), Astrophysical Journal, LXIII, 2, March, 1926.
11. Astrophysics: The Riddle of Star Distances, Discovery, VII, 77, May, 1926.
12. Island Galaxies, Discovery, IX, 99, March, 1928 (Reprinted in Annual Report of Smithsonian Institute of Washington).
13. The Chemistry of the Stars, Discovery, IX, Oct. 1928.
14. The Energy of Starlight, Atlantic Monthly, Oct. 1928.
15. Cosmic Rays, Discovery, X, III, March, 1929.
16. From Atoms to Stars, Atlantic Monthly, Aug. 1929.
17. The Mystery of Motion, Discovery, X, 118, Oct. 1929.
18. A Multiple Rainbow, Journal Roy. Astr. Soc. Can., XXIII, 8, Oct. 1929.
19. The Size of the Universe (by L. Silberstein) Book Review, Journal Roy. Astr. Soc. Can., XXIV, 7, Sept. 1930.
20. Between the Stars, Atlantic Monthly, Jan. 1931.
21. The Pole Star, Journal Roy. Astr. Soc. Can., XXV, 6, Aug. 1931.

22. The 1932 Total Solar Eclipse,
Teacher's Magazine, April, 1932.
23. What we know about Stars,
Journal Roy. Astr. Soc. Can., May, 1932.
24. Meteors,
Journal Roy. Astr. Soc. Can., May, 1932.
25. Time - from the Astronomers Standpoint,
University of Toronto Quarterly (in press).
I 4 July 1932
26. Total Eclipse of Sun. 1932 Aug 31.
(A. Norman Shaw and A.V.D.) Renouf Publ. Co.
July 1932
27. The Spirit of Seeking
Hilbert Journal XXX 4. July 1932.
28. Meteors J. R. A. S. C. see 24
29. What we know about Stars J. R. A. S. C. see 23
- 28/30. Note on Reports of Observations of Total Solar Eclipse J. R. A. S. C.
- 29/31. The Total Eclipse and the Melbist Campaign
Melb. Univ. Engineering Magazine II. 1.
March 1933
- 30/32. The Calendar of the Future
Melb. News 115. 4. Sept. 1934.
31. Within her dominions supreme - a tribute to Mrs. Walter Vaughan M.D.
Melb. News June 1937
32. Women and Research Melb. News. Mar. 1938.

A. V. Douglas

(1) Intensive research has been in progress upon the electrical fields in the atmospheres of certain high temperature stars. In collaboration with Dr. J. S. Foster, and with the aid of a grant from the National Research Council. A trip to Victoria, B.C. was made in June and July, and spectrograms obtained at the D.A.C. of six stars. In the autumn and winter microphotometer traces were made of hydrogen and helium lines which show marked Stark effect. The analysis and interpretation of these curves is throwing some definite light upon the problem of the electrical fields in stellar atmospheres. Quantitative results are almost ready for publication.

(2) A renewed study is being made of the hydrogen lines in A stars from material accumulated since 1925.

(3) Much time and effort was expended in preparation for the 1932, August 31 Total Solar Eclipse, in collaboration with Dr. J.S. Foster, with a view to photographing the spectrum of the Flash and the Corona from ultra violet to infra red.

(4) Some time in March was devoted to ultra violet spectroscopy in connection with an industrial problem submitted by a large local company.

Published Papers

- (1) "Time - from the Astronomer's Standpoint":
"University of Toronto Quarterly," 1, 4, July, 1932.
- (2) "The Spirit of Seeking":
'The Hibbert Journal', xxx, 4, July, 1932.
- (3) "The 1932 Total Solar Eclipse": J.R.A.S.C., June, 1932.
- (4) "Total Eclipse of the Sun, 1932, August 31":
August, 1932. (A. N. Shaw and A.V. Douglas).
- (5) "What we know about Stars": J.R.A.S.C., June, 1932.
- (6) "Meteors": J.R.A.S.C., November, 1932.
- (7) "Notes on Reports of Observations of Total Solar
Eclipse": J.R.A.S., April, 1933.

Fidelity Orion Scan

A. VIBERT DOUGLAS

Education: B.A. (Hon. Math and Physics, Ann Molson Gold Medalist) 1920 McGill University
M.Sc. 1921 (Beta rays from Radium E)
Ph. D. 1926 (Spectroscopic Absolute Magnitudes and Parallaxes of class A stars) McGill University

World War I - Statistical work in War Office and Ministry of National Service 1916 - 18 under Sir A.C. Geddes. Introduced graphs and charts of man-power reserves - M.B.E. conferred Jan. 1 /18.

World War II - education and see Activities (4) and (5)

Research at Cambridge - (1) Cavendish Lab. Under Rutherford 1920 - 21. Measurement of heat from weak radioactive source. (forestalled by Kapitza)
(2) Cambridge Observatory under Eddington 1921 - 22. Stellar velocities

Research at Yerkes Observatory - 1925, 4 months - spectroscopic absolute magnitudes and parallaxes.

Research at McGill 1923 - 39 (as Lecturer in Physics and Astrophysics) see papers on physics and astrophysics; at Queen's 1939 to date as acting Professor of astronomy within Department of Mathematics) see paper on astrophysics.

Publications Scientific papers 18, (7 in collaboration) Scientific and educational articles 72, Book reviews 43, Book (in Press) Eddington (Thos. Nelson and Son, Edin.) (manuscript approved by Professor W.M. Smart, Glasgow and Professor Herbert Dingle, London)

Activities - in addition to University lecturing for 33 years

1. President Royal Astronomical Society of Canada 1943 - 1945
2. President International Federation of University Women 1947 - 1950
3. Member or chairman I.F.U.W. Committee for Award of International Research Fellowships 1937 - 1954
4. Member Government Committee on Postwar Problems of Women. (Advisory Committee on Reconstruction) 1942 - 43.
5. Member Canadian Youth Commission 1943 & 45.
6. Delegate of Canada to General Conference of UNESCO in Montevideo, 1954.
7. Member of National Committee of International Astronomical Union and delegate to I.A.U. Assemblies in Zurich 1948, Rome 1952, Dublin 1955.
8. Member of Royal Astronomical Society of Canada, American Astronomical Society, Am. Assoc. of Variable Star Observers, and Fellow of Royal Astronomical Society (London). Member of Can. Institute of International affairs.

A. VIBERT DOUGLAS

Born - Montreal, 1894

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Graduate Studies: 1921-23 Cavendish Laboratory and Cambridge Observatory, Cambridge, England, under Sir Ernest Rutherford and Sir Arthur Eddington. Held first I.O.D.E. War Memorial Scholarship 1921-22.

Research assistant, 1925 summer, Yerkes Observatory, University of Chicago.

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War Service: 1915-1919, British War Office and Ministry of National Service, London. M.B.E. conferred 1918.

1942-43, Member, Government Sub-Committee on Post-War Problems of Women of Advisory Committee on Reconstruction.

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World War II — education and see Activities (4) and (5)

Research at Cambridge — (1) Cavendish Lab. ^{under Rutherford} 1920-21. Measurement of heat from weak radioactive source. (forestalled by Kapitza) (2) Cambridge Observatory under Eddington 1921-22. Stellar velocities

Research at Yerkes Observatory — 1925 4 months — Spectroscopic absolute magnitudes and parallaxes.

Research at McGill, ^{lecturer} in Physics and Astrophysics 1923-39 1923-39 ^{papers on physics and astrophysics;} at Queens 1939 to date ^{acting Professor of} ~~astrophysics~~ ^{within} Department of Mathematics ^{see paper on} (astrophysics and

Publications Scientific papers 18 (7 in collaboration)
 Scientific and educational articles 72
 Book reviews 43

Book (in press) Eddington (Thos. Nelson and Son, Eding) (manuscript approved by Professor W.M. Smart, Glasgow and Professor Herbert Dingle, London)

Activities in addition to University lecturing for 33 years
 1. President Royal Astronomical Society of Canada 1943-1945
 2. President International Federation of University Women 1947-1950

3. Member or chairman IFUW. Committee for Award
of International Research Fellowships 1937-1954

4. Member Government Committee on Postwar Problems
of Women. (Advisory Committee on Reconstruction)
1942-43

~~5.~~ ~~Member~~
6. Delegate ~~for~~ Canada To General Conference of
UNESCO in Montevideo, 1954

7. Member of National Committee of
Delegate of Canada to International
Astronomical Union, and delegate to IAU.
Assemblies in
Zurich 1948, Rome 1952, Dublin 1955.

5. Member Canadian Youth Commission
1943-45

8. Member of Royal Astronomical Soc. ^{of Canada}, American
Astronomical Society, Am. Assoc. of Variable Star
Observers, and Fellow of Royal Astronomical Soc. (London).
Member of Can. Inst. of International Affairs.

14 copies.

McGill University

LL.D. Citation 6, November, 1960.

Mr. Vice-Chancellor:

It is a particular pleasure to present to you Allie Vibert Douglas, Professor of Astronomy at Queen's University.

Thrice graduate of McGill, Dr. Douglas was for seventeen years a member of our Faculty. For twenty-one years she has been on the Faculty of Queen's, and until a year ago Dean of Women in this, our sister university.

Throughout her career, Dr. Douglas has made notable contributions in the areas of Physics and Astrophysics, has written widely on various educational topics, and is the biographer of Sir Arthur Eddington.

All of this and more is in the record. What cannot be written is the quality of her leadership both as Dean of Women at Queen's and in various International Committees. In the former, she has been an inspiration to generations of students. In the latter she has worked consistently for educational opportunities for young people everywhere. As President of the International Federation of University Women and as Canadian delegate to UNESCO and other conferences, she has brought honour to Canada.

In the name of the Senate, Mr. Vice-Chancellor, I ask you to recognize the achievements of this daughter of McGill in the realms of science, education and international understanding, by conferring on her the degree of Doctor of Laws, honoris causa.

Allie Vibert Douglas M.B.E., B.A., M.Sc., Ph.D.,
Professor of Astronomy at Queen's University and author of the
biography of Sir Arthur Eddington O.M., lectured in physics and
astrophysics for 17 years at McGill and in astronomy and astro-
physics for 21 years at Queen's, being Dean of Women at Queen's
1939-59.

Scientific papers number 18 and articles on scientific and
educational topics in Hibbert Journal, Atlantic Monthly,
Discovery, the University Quarterlies, etc., number over 50.

War Service 1915-18 in the War Office and Ministry of National
Service, London, and 1940-44 on a Canadian Government Committee
on Reconstruction and on Canadian Youth Commission.

International Work on the award of research fellowships 1937-1955;
as President of the International Federation of University Women
1947-50; as a delegate from Canada to the Unesco Conference in
Montevideo 1954; with World University Service in Canada and at
3 European Seminars; as a member of the International Astronomical
Union; past president Royal Astronomical Society of Canada.

LL.D. McGill 1960 October 6.

L.L.D. McGill 1968 Oct 6

Allie West Douglas M.B.E., B.A., M.Sc., Ph.D.

Professor of Astronomy at Queen's University
and author of the biography of Sir Arthur Eddington O.M.
lectured in physics and astrophysics for 17 years at McGill
and in astronomy and astrophysics for 21 years at Queen's
being Dean of Women at Queen's 1939-59.

Scientific papers number 18 and articles on scientific
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Discovery, the University Quaterlies, etc. number
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War Service 1915-18 in the War Office and Ministry of
National Service, ^{London,} and 1940-44 on a ^{Can't} Government Committee
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in Montevideo 1954; with World University Service in
Canada and at 3 European Seminars; as a member
of the International Astronomical Union.
Past-president Royal Astronomical Society of Canada.

Dr. A. Vibert DOUGLAS, M.B.E., Ph.D., LL.D., D.Sc.

Professor ^{Emeritus} of Astronomy at Queen's University

Born in Montreal

Educated at McGill University and University of Cambridge

War service in London 1915-19

President Royal Astronomical Society of Canada 1943-45

President I.F.U.W. 1947-50

Member of I.F.U.W. Fellowships Award Committee 1937-55, 64-65,

Author of life of Sir Arthur Stanley Eddington, O.M., 1956

and of essays on astronomy and education in Atlantic

Monthly, Discovery, Hibbert Journal, and University

Quarterlies, etc.

A delegate from Canada to the Unesco conference in Montevideo,

1954; and to the General Assemblies of the International

Astronomical Union, ^{1952,} 1948, 1952, 1955, 1958, ~~and~~ 1961, 1964

and 1967.