



MEMORANDUM FOR: Director of Central Intelligence

SUBJECT : Nomination of Dr. Albert Wheelon for the  
1966 Arthur S. Flemming Award

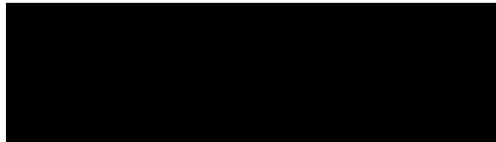
1. This memorandum transmits for your signature a letter addressed to Mr. William B. Belford, Chairman of The Arthur S. Flemming Awards Commission, nominating Dr. Albert Wheelon for the 1966 Arthur S. Flemming Award.

2. The District of Columbia Junior Chamber of Commerce sponsors annually the Arthur S. Flemming Awards Program honoring young men in the Federal service who have performed unusual and outstanding work of distinct benefit to the Government. Ten awards are made each year; five are given to outstanding young men in scientific or technical fields, and five to outstanding young men in administrative or executive fields.

3. The Agency has nominated candidates for the Flemming Awards in previous years, but we have never had an Agency winner of this award. The document nominating Dr. Wheelon was prepared by a representative of the Office of Science and Technology. Due to security considerations and the sensitivity of the Agency's functions in the field of science and technology, we could not elaborate on the scientific achievements of our candidate. For this reason it is recommended that you suggest that a representative of the Agency brief the panel of judges selecting candidates for this award if they desire more information concerning Dr. Wheelon's achievements.

4. The letter to Mr. Belford and the nominating document have been reviewed and concurred in by a representative of the Office of Security. It is recommended that you sign the attached letter to Mr. Belford and the Nomination Form for submission to the Flemming Awards Commission. The deadline for the submission of nominations is 1 December 1965.

STATINTL



Emmett D. Echols  
Director of Personnel

Attachments: A/S

30 NOV 1965

Mr. William H. Belford, Chairman  
The Arthur C. Flemming Awards Commission  
1729 H Street, N.W.  
Washington, D. C. 20006

Dear Mr. Belford:

The Central Intelligence Agency nominates Dr. Albert L. Wheelon, the Deputy Director for Science and Technology in this Agency, for the Arthur C. Flemming Awards Program.

Dr. Wheelon, a brilliant and imaginative research scientist, has had a key role in the development and direction of the Agency's scientific research and technological programs. He has an outstanding record of academic preparation, professional competence and scientific leadership in the intelligence community of the United States. He has provided leadership, both as a scientist and as an administrator, in the management of complex scientific programs during a period when the development of scientific and technological capabilities has been of critical importance to the security of our nation. I believe his outstanding contributions to the scientific intelligence efforts of the United States and to the field of science merit public recognition.

I am sure that the panel of judges selected to review nominations for the Flemming Awards will understand that security considerations surrounding many of Dr. Wheelon's achievements limit the extent to which they can be substantiated in the enclosed document. Because of this limitation, I will ask one of our senior officials to brief the panel on Dr. Wheelon's work in this Agency if more detail is desired. My thanks to you and other members of the District of Columbia Junior Chamber of Commerce for their continued efforts to give public recognition to distinguished young men in the Federal Government.

Sincerely,

Originator: \_\_\_\_\_  
Director of Personnel



ILLEGIB

W. F. Saborn  
Director

Concur: \_\_\_\_\_  
Deputy Director for Support

ILLEGIB

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Enclosure  
OP/BSL/FDC/ [Redacted] Release 2002/01/08 : CIA-RDP84-00313R000200010008-1

Distribution: O&I-Addressee 1-ER 1-Signing Official 1-Mr. [Redacted]  
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*The Arthur S. Flemming Awards Commission*

OF

The Downtown Jaycees

of

THE DISTRICT OF COLUMBIA JUNIOR CHAMBER OF COMMERCE

1966 COMMISSION

WILLIAM B. BELFORD, *Chairman*  
THOMAS E. BOYCE  
ANDREW D. BRYANT  
LEONARD M. REAMER  
ROBERT B. STOLTZ  
J. LANING TAYLOR

January 7, 1966

MEZZANINE  
1729 H STREET, N. W.  
WASHINGTON, D. C. 20006  
392-2202

JUDGES PANEL

THE HONORABLE TOM C. CLARK  
Associate Justice  
United States Supreme Court  
CROSBY N. BOYD  
President  
The Evening Star Newspaper Company  
DR. EMORY COOK  
President, Operations Research Inc.  
DR. LLOYD H. ELLIOTT  
President  
The George Washington University  
J. W. POCOCK  
President  
Booz-Allen Applied Research Inc.  
C. R. SMITH  
Chairman, American Airlines  
J. R. WIGGINS  
Editor  
The Washington Post

Mr. Emmett D. Echols  
Director of Personnel  
Central Intelligence Agency  
McLean, Virginia

Dear Mr. Echols:

One of your nominees has been selected as a semi-finalist for the 1966 ARTHUR S. FLEMMING AWARD which annually honors the ten outstanding young men in Federal Government. A complete list of the semi-finalists is attached hereto.

On Thursday, January 27, 1966, at 12:00 p.m., in the National Lawyers' Club, third floor, 1815 H Street, N.W., Washington, D. C., the Downtown Jaycees will have a luncheon honoring the twenty semi-finalists. The cost of the luncheon is \$3.00 per person and there will be a cash bar. I am sure that you and many of your nominee's associates will desire to attend this luncheon to honor him.

Kindly contact the undersigned at Suite 400, 888 - 17th Street, N.W., for reservations.

Sincerely,

*William H. Bradford, Jr.*  
William H. Bradford, Jr.  
Subchairman  
Semi-Finals Luncheon

enc  
WHB:mp

## SEMI-FINALISTS

## ADMINISTRATIVE

1. Bonner, Richard R. Department of Army
2. Brimmer, Andrew F. Department of Commerce
3. Garthoff, Raymond L. Department of State
4. Jacobvitz, Leonard A. Atomic Energy Commission
5. Josephson, William H. Peace Corps
6. Lundegard, Robert Department of Navy
7. May, Timothy J. Federal Maritime Commission
8. Niblack, Monte R. Federal Housing Administration
9. O'Leary, John F. Department of Interior
10. Robinson, David Z. White House

SCIENTIFIC

1. Ames, Bruce N. National Institutes of Health
2. Brown, Lester R. Department of Agriculture
3. Frosch, Dr. Robert A. Office of Secretary of Defense;  
Department of Defense
4. Hawkins, Gerald S. Smithsonian Institution
5. Hess, Dr. Wilmot N. National Aeronautics & Space  
Administration
6. Murphy, Charles H., Jr. Department of Army
7. Porter, Robert W. Veterans Administration
8. Shoemaker, Eugene M. Department of Interior
9. Wheelon, Albert D. Central Intelligence Agency
10. Williams, William A. Atomic Energy Commission

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# ARTHUR S. FLEMMING AWARDS PROGRAM

Sponsored By

THE DOWNTOWN JAYCEES

of

The District of Columbia Junior Chamber of Commerce

and

THE CHESAPEAKE AND POTOMAC TELEPHONE COMPANY

THE POTOMAC ELECTRIC POWER COMPANY

THE WASHINGTON GAS LIGHT COMPANY

TO HONOR OUTSTANDING YOUNG MEN IN THE FEDERAL GOVERNMENT

## NOMINATION FORM

Any male, civilian, officer or employee of the Executive Branch of the United States Government who will not reach his fortieth birthday before January 1, 1966, is eligible for nomination in the Arthur S. Flemming Awards Program. Similar employees of the Library of Congress, the General Accounting Office, Office of the Architect of the Capitol, the Government Printing Office, the Administrative Office of the U. S. Courts, and the Botanic Garden are also eligible. A nominee may be an officer or employee in the department or field service throughout the world. Awards will be made principally for outstanding and meritorious performance during the fiscal year which ended on June 30, 1965.

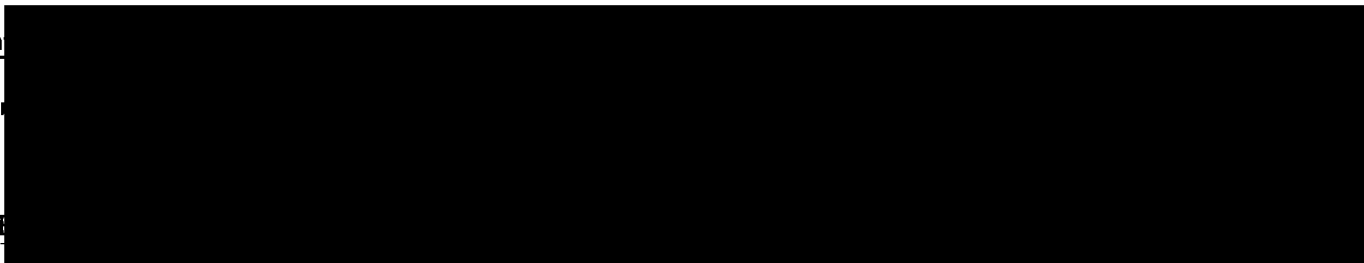
PLEASE TYPE

Full Name of Nominee Albert Dewell Wheelon

Present  
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Date of

Wife's



Present Employment Location Central Intelligence Agency

Title of Present Position, Classification and Salary Deputy Director for Science and Technology

\$27,000 per annum, Senior Executive Pay Scale, Level IV

Award to be considered for: scientific  administrative

Education, Degrees, Etc.:

Leland Stanford University - B.Sc. Engineering Science, 1949

Massachusetts Institute of Technology - Ph.D. Theoretical Physics, 1952

Participation in Other Activities (Civic, Fraternal, Religious, Professional, Etc.): Dr. Wheelon is a member of the American Physical Society, the Institute of Radio Engineering, the American Geophysical Union, and the Cosmos Club in Washington, D. C.

Published Work: Over and above his classified contributions to the National Ballistic Missile and Intelligence Programs, Dr. Wheelon has published some thirty technical papers in learned scientific journals. (See attached.)

**Next 1 Page(s) In Document Exempt**

## PUBLISHED TECHNICAL PAPERS

Albert D. Wheelon

A. Radiowave Propagation Research

1. "Inversion of Radio Wave Absorption Data to Establish Ionospheric Properties. I. Nondeviative Absorption, Albert D. Wheelon, Journal of Research of the Nat. Bureau of Standards, Vol. 67D, No. 6, Pages 699-705, Nov.-Dec. 1963
2. "Amplitude Distribution for Radio Signals Reflected by Meteor Trails. I and II", A. D. Wheelon. NBS Journal of Research, Part D 64, 449-454 (September 1960), and 66, 241-247 (June 1962).
3. "Relation of Turbulence Theory to Ionospheric Forward Scatter Propagation Experiments," A. D. Wheelon. NBS Journal of Research Part D 64, 301-309 (July 1960).
4. "Radio-Wave Scattering by Tropospheric Irregularities," A. D. Wheelon, NBS Journal of Research Part D 63, 205-233 (September 1959).
5. "Radio Scattering by Tropospheric Irregularities," A. D. Wheelon. Journal of Atmospheric and Terrestrial Physics 15, 185-205 (1959).
6. "Theoretical Research on Tropospheric Scatter Propagation in the United States 1954-1957," H. Staras and A. D. Wheelon. IRE Trans. P.G.A.P. AP-7, 80-87 (January 1959).
7. "Refractive Corrections to Scatter Propagation," A. D. Wheelon. Jour. Geo. Res., 62, 343-349 (September 1957).
8. "Diurnal Variations of Signal Level and Scattering Heights for VHF Propagation," A.D. Wheelon. Jour. Geo. Res. 62, 255-266 (June 1957).
9. "Radio Frequency and Scattering Angle Dependents of Ionospheric Scatter Propagation at VHF," A. D. Wheelon. Journ. Geo. Res. 62, 93-112 (March 1957).
10. "Frequency Correlation of Line-of-Sight Signal Scintillations," R. B. Muchmore and A. D. Wheelon, IEEE Transactions on Antennas and Propagation, Volume AP-11, No. 1, Pages 46-51, January 1963.



11. "Aperture-to-Medium Coupling on Line-of-Sight Paths: Presnel Scattering," E. Levin, R. B. Muchmore, and A. D. Wheelon. IRE Trans. P.G.A.P., AP-7, 142-146 (April 1959).
12. "Relation of Radio Measurements to the Spectrum of Tropospheric Dielectric Fluctuations," A. D. Wheelon. Jour. Applied Physics, 28, 684-693 (June 1957).
13. "Line-of-Sight Propagation Phenomena - I. Ray Treatment," R. B. Muchmore and A. D. Wheelon. Proc. IRE, 43, 1437-1449 (October 1955)
14. "Line-of-Sight Propagation Phenomena - II. Scattered Components," R. B. Muchmore and A. D. Wheelon. Proc. IRE, 43, 1450-1458, (October 1955).
15. "Near-Field Corrections to Line-of-Sight Propagation," A. D. Wheelon. Proc. IRE, 43, 1459-1466 (October 1955).

#### B. Ballistic Missile and Space Research

1. "Free Flight of a Ballistic Missile," A. D. Wheelon. Jour. Am. Rocket Soc., 29, 915-926 (December 1959).
2. "Midcourse and Terminal Guidance," A. D. Wheelon. Chapter 26, Pg. 26-01 to 26-32 in "Space Technology," edited by Howard Siefert, John Wiley, 1959.
3. "Maximum Range of a Projectile in Vacuum on a Spherical Earth," Leon Blitzer and A. D. Wheelon. Am. Jour. Physics, 25, 21-24 (January 1957).
4. "Perturbations of a Satellite's Orbit Due to the Earth's Oblateness," Leon Blitzer, Morris Weisfeld, and A. D. Wheelon. Jour. of Applied Physics, 27, 1141-1149 (October 1956).
5. "Oblateness Perturbations of Elliptical Satellite Orbits," (Letter), Leon Blitzer and A. D. Wheelon, Jour. Geo. Res., 28, 272 (February 1957).

#### C. Turbulence

1. "Spectrum of Turbulent Fluctuations Produced by Convective Mixing of Gradients," A. D. Wheelon. Physical Review, 105, 1706-1710 (March 1957).

2. "Space-Time Correlations in Stationary Isotropic Turbulence," G. Munch and A. D. Wheelon. *Physics of Fluids*, 1, 462-468, (November 1958).

D. Applied Mathematics and Miscellany

1. "On the Summation of Infinite Series in Closed Form," A. D. Wheelon. *Jour. Applied Physics*, 25, 113-118 (January 1954).
2. "Note on the Summation of Finite Series," A. D. Wheelon, *Jour. of Math. and Physics*, 34, 182-186 (October 1955).
3. "A Note on the Solution of a Non-Linear Transonic Flow Equation," John T. Robacker and A. D. Wheelon. *Jour. of Math. and Physics*, 35, 321-322 (October 1956).
4. "Gravitational Deflection of Photons with Non-Vanishing Rest Mass." (Letter), A. D. Wheelon. *Physical Review*, 85, 383 (January 1952).

E. Books:

1. "Table of Summable Series and Integrals Involving Bessel Functions," A. D. Wheelon, Now in press with Holden-Day Publishers, San Francisco.