VITA

ARTHUR N. COX

Position:

Los Alamos National Laboratory Fellow, Feb. 1983 - present

Coordinator, July 1986-July 1988; Serves on Several Fellows Committees

Past Positions:

Los Alamos Scientific Laboratory, Group P-1, Summer 1947

Los Alamos Scientific Laboratory, Group P-12, June 1948 to Aug. 1949

Los Alamos Scientific Laboratory, Group J-15, July 1953 to Nov. 1974, Group Leader 1957 to 1974

Los Alamos Scientific Laboratory, J-DOT, Nov. 1974 to March 1975

Los Alamos Scientific Laboratory, T-DOT, March 1975 to Feb. 1980

Los Alamos Scientific Laboratory, T-6, Feb. 1980 to present

Avco-Everett Research Laboratory, Nov. 1960 to May 1961, Leave from Los Alamos

Joint Institute for Laboratory Astrophysics, Boulder, Colorado, Member (nonresident), 1962-1973

University of California at Los Angeles, Astronomy Department, Visiting Professor, Jan. 1966 to June 1966, Leave from Los Alamos

National Science Foundation, Advisor to Program Director, Stars and Stellar Evolution Program, Nov. 1973 to Nov. 1974, Assigned from Los Alamos

Education:

B.S. California Institute of Technology, Physics, 1948

A.M. Indiana University, Astronomy, 1952

Ph.D. Indiana University, Astronomy, 1953

D.Sc. Honorary, Indiana University, 1973

Awards:

National Science Foundation Predoctoral Fellowship, 1952 to 1953

Harvard University, Summer 1952

NATO Senior Fellowship in Science, August/Sept. 1968

Fulbright Research Scholar in Belgium, Sept. 1968 to July 1969

Honors:

Asteroid 3961 named arthurcox=1962 OB

Professional Organizations:

American Astronomical Society

American Association for the Advancement of Science

International Astronomical Union Member of Organizing Committee Commissions 12 (Radiation and Structure of the Solar Atmosphere) and 27 (Variable Stars)

President Commission 35 (Stellar Constitution, India, Nov. 1985)

Society of the Sigma Xi

Leadership Positions:

LASL Test Group Commander, 1963 to 1966

Associate Scientific Deputy, JTF-8, 1966 to 1968

Committee Positions:

Chairman AEC Tamarin (Tsunami) Committee, 1963 to 1971

Chairman AEC Aircraft Use Committee, 1965 to 1969

Member JOWOG 13, 1961 to 1965

NCAR Computer Advisory Committee, 1964 to 1966

Member Nevada Test Evaluation Panel, 1971

Chairman NASA Review Panel for International Ultraviolet Explorer Proposals on Cool Stars and the Solar System, 1978

Consultant to Astronomy Survey Committee Panel on Theoretical and Laboratory Astrophysics, 1979

Review of Research Programs, Astronomy Research Section, National Science Foundation, Jan. to Feb., 1984.

Chairman, American Astronomical Society Warner/Pierce Prize Committee, 1988-1989

Member, National Academy of Sciences, United States National Committee for the International Astronomical Union, 1990-1992

Chairman Long Term Space Astrophysics Review Panel, December, 1989

Chairman Astrophysics Theory Program Review Panel, July, 1994

Member Scientific Organizing Committees:

Current Problems in Stellar Pulsation Instabilities, NASA GSFC, June 1978

Chairman, International Astronomical Union Colloquium 58, Stellar Hydrodynamics, Los Alamos, Aug. 1980

Pulsations of Classical and Cataclysmic Variables, Boulder, June 1982

International Astronomical Union Colloquium 105, Geneva, Sept. 1983

Cepheids: Theory and Observations, International Astronom ical Union Colloquium 82, Toronto, May-June 1984

President, 25th Liege International Colloquium Theoretical Problems in Stellar Stability and Oscillations, June 1984

Radiation Hydrodynamics in Stars and Compact Objects International Astronomical Union Colloquium, Copenhagen, May 1985

Advances in Helio and Asteroseismology Aarhus, Denmark, July 1986

Chairman, Scientific Organizing Committee "Stellar Pulsations- A Memorial to John P. Cox," Los Alamos, NM, Aug. 1986

Pulsating Stars and Fundamental Problems in Astronomy University of Nebraska, August 14-17, 1988

Confrontation Between Stellar Pulsation and Evolution Bologna Observatory, May 1990

New Perspectives on Stellar Pulsation Dominion Astrophysical Observatory, Victoria, July 1992

Astrophysical Applications of Stellar Pulsation South African Astronomical Observatory, Cape Town, Feb. 1995

Special Expeditions:

Astronomical Observations at Pretoria, Bloemfontein, and Cape Town, Union of South Africa, 1950 to 1951

Nuclear Test Operations; Castle (1954), Teapot (1955), Redwing (1956), Plumbbob (1957), Hardtack (1958), Dominic (1962), Grapple Z (U. K. testing at Christmas Island, 1958), Milrow (Amchitka, 1969)

Solar Eclipse Observations in 1955 (Ethiopia), 1965 (Samoa), 1966 (Argentina), 1970 (San Antonio), 1972 (Spokane), 1973 (Spain), 1979 (Albuquerque)

Lecture Series:

June Institute, University of Toronto, June 1980

Astrophysical Processes in Upper Main Sequence Stars, Saas Fee, March 1983

Research Interests:

Stellar Stability and Pulsation, Stellar Opacities, Solar Eclipses, Stellar Evolution, Stellar Atmospheres, Cosmic Gamma Bursts

Listed In:

American Men and Women of Science

Who's Who in the West

Who's Who in Frontier Science and Technology

PUBLISHED WRITINGS

by

Arthur N. Cox

1. Cox, A. N. and Cousins, A. W. J. 1951, "A New Eclipsing Variable ϵ Coronae Australis," Observatory 71, 44.

2. Cox, A. N. and Cuffey, J. 1952, "Orientation Effects in Two 1P21 Photometers," A. J. 57, 8.

3. Cox, A. N. 1952, "Transfers of the North Polar Sequence to the Harvard E Regions, " A. J. 57, 159.

4. Cox, A. N. 1953, "The Transfer of the North Polar Standards to the Southern Hemisphere," Ap. J., 117, 83.

5. Cox, A. N. and Brownlee, R. R. 1953, "Photoelectric Magnitudes and Colors in NGC 6231,"Ap. J. 118, 165.

6. Cox, A. N. and Hallam, K. L. 1953, "Photoelectric Magnitude Sequences for the Magellanic Clouds," Ap. J. 118, 314.

7. Cox, A. N. 1954, "A Study of the Galactic Cluster NGC 2287," Ap. J. 119, 188.

8. Cox, A. N. 1955, "A Study of the Galactic Cluster NGC 2516," Ap. J. 121, 628.

9. Brownlee, R. R. and Cox, A. N. 1959, "Time Dependent Stellar Models," A. J. 64, 324.

10. Cox, A. N. and Brownlee, R. R. 1960, "A Time Dependent Solar Model," Mem. Royal Soc. des Sciences, Liege, 469.

11. Cox, A. N. and Eilers, D. D. 1960, "Radiative and Conductive Opacities for Stellar Mixtures," A. J., 65, 51.

12. Brownlee, R. R. and Cox, A. N. 1960, "Early Solar Evolution," A. J. 65, 484.

13. Cox, A. N., Bowers, D. L., and Brownlee, R. R. 1960, "A Method of Computing Stellar Interior Models," A. J. 65, 486.

14. Brownlee, R. R. and Cox, A. N. 1961, "Early Solar Evolution," Sky and Telescope 21, 252.

15. Cox, A. N. and Stewart, J. N. 1962, "Effects of Bound-Bound Absorption on Stellar Opacities," A. J. 67, 113.

16. Cox, A. N. and Olsen, K. H. 1963, "A Computer Program for Stellar Pulsation," A. J. 68, 276.

17. Cox, J. P., Cox, A. N., and Olsen, K. H. 1963, "Self Excited Pulsations in Stellar Envelope Models," A. J. 68, 276.

18. Cox, A. N. 1964, "Calculations of Opacities for Astrophysics," J. Quant. Spectrosc. Radiat. Transfer 4, 737.

19. Cox, A. N., Stewart, J. N., and Eilers, D. D. 1965, "Effects of Bound-Bound Absorption on Stellar Opacities," Ap. J. Suppl. 11, 1.

20. Cox, A. N. and Stewart, J. N. 1965, "Radiative and Conductive Opacities for Eleven Astrophysical Mixtures," Ap. J. Suppl. 11, 22.

21. Cox, A. N., Liebenberg, D. H., and Stone, S. N. 1965, "Thirty-Six Miles in the Shadow," Sky and Telescope 30, 72.

22. Cox, A. N. November 1965, "Stellar Opacities", Leaflet of the Astronomical Society of the Pacific, no. 437.

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25. Cox, A. N., Brownlee, R. R., and Eilers, D. D. 1966, "Time Dependent Method for Computation of Radiation Diffusion and Hydrodynamics," Ap. J 144, 1024.

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49. Cox, A. N. and Davis, C. G. 1975, "Mean Colors of Cepheids", Proc. of Goddard Cepheid Modeling Conference and Workshop, NASA SP-383, p. 43.

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51. King, D. S., Cox, A. N., Eilers, D. D., and Cox, J. P. 1975, "Double Mode Cepheids and U Tr A," B.A.A.S. 7, 251.

52. Cox, A. N. 1975, "Radial Stellar Stability and Pulsation", B.A.A.S. 7, 503.

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54. King, D. S., Cox, A. N., and Hodson, S. W. 1975, "On the Mass of AC Andromedae," B.A.A.S. 7, 511.

55. Cox, A. N. and Cox, J. P. 1976, "Cepheid Pulsation Theory and Multi-Periodic Cepheid Variables," Proc. of IAU Colloq. 29, Multiple Periodic Variable Stars," Reidel, Dordrecht, p. 115.

56. King, D. S., Cox, A. N., and Hodson, S. W. 1976, "On the Mass of AC Andromedae," Proc. of IAU Colloq. 29 , Multiple Periodic Variable Stars, p. 233.

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60. Cox, A. N., Hodson, S. W., and Davey, W. R. 1976, "Periodic Nonlinear Integrations - Where are the Double-Mode Cepheids?," Proc. of the Solar and Stellar Pulsation Conference, LA6544C, p. 188.

61. Hodson, S. W. and Cox, A. N. 1976, "Nonlinear Initial Value Integrations for Double-Mode Cepheid Candidates," Proc. of the Solar and Stellar Pulsation Conference, LA6544C, p. 202.

62. Cox, A. N., King, D. S., Hodson, S. W., and Henden, A. A. 1977, "The Masses of AC Andromedae, U Trianguli Australis, and BC Draconis," Ap. J. 212, 451.

63. Cox, A. N., Deupree, R. G., King, D. S., and Hodson, S. W. 1977, "Cepheid Masses Using Inhomogeneous Envelopes", B.A.A.S. 8, 559.

64. King, D. S., Cox, A. N., Deupree, R. G., and Hodson, S. W. 1977, "A Possible Solution for the Double-Mode Cepheid Mass Anomaly," B.A.A.S. 8, 559.

65. Cox, A. N., Deupree, R. G., King, D. S., and Hodson, S. W. 1977, "Revised Masses for the Double-Mode and Bump Cepheids", Ap. J. Letters, 214, L127.

66. Cox, A. N. 1977, "Observatory Report", B.A.A.S. 9, 145.

67. Cox, A. N., King, D. S., and Hodson, S. W. 1977, "Period Ratios for Double-Mode Cepheids from Linear and Nonlinear Theories," B.A.A.S. 9, 359.

68. Cox, A. N. and Deupree, R. G. 1977, "A Model of Time Dependent Convection for Pulsating Stars," B.A.A.S. 9, 359.

69. King, D. S., Cox, A. N., and Hodson, S. W. 1977, "The Masses of the Triple-Mode Pulsators AC Andromedae and TU Cassiopeiae," B.A.A.S. 9, 360.

70. Cox, A.N. 1978, "Observatory Report", B.A.A.S. 10, 209.

71. Cox, A. N. 1978, "The Anomalous Cepheid Masses," Sky and Telescope, Feb. 1978, 115.

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75. Cox, A. N. and Hodson, S. W. 1978, "Pulsation Modal Behavior of Classical Cepheids in the Hertzsprung-Russell Diagram," IAU Symp. 80, The H-R Diagram, Eds. Philip and Hayes (Reidel: Dordrecht), p. 237.

76. Cox, A. N. 1978, "The Case for Surface Helium Enhancement in Cepheids," IAU Colloq. 46, Changing Trends in Variable Star Research, New Zealand, (Eds. Bateson, Smak, and Urch), p. 318.

77. King, D. S. and Cox, A. N. 1978, "Double-Mode Dwarf Cepheid Periods and Masses," IAU Colloq. 46, Changing Trends in Variable Star Research, New Zealand, (Eds. Bateson, Smak, and Urch), p. 336.

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79. Cox, A. N., King, D. S., and Hodson, S. W. 1978, "Theoretical Periods and Masses of Double-Mode Dwarf Cepheids," Ap. J. 228, 870.

80. Cox, A. N. 1979, "Cepheid Masses from Observations and Pulsation Theory," Ap. J. 229, 212.

81. Hodson, S. W., Stellingwerf, R. F., and Cox, A. N. 1979, "TU Cassiopeiae Periods and Amplitudes," Ap. J. 229, 642.

82. Cox, A. N. and Hodson, S. W. 1979, "Theoretical Models of Double-Mode Dwarf Cepheids," B.A.A.S. 10, 633.

83. Cox, A. N., King, D. S., and Hodson, S. W. 1979, "Metallicism and Pulsation-Theoretical Results," B.A.A.S. 10, 634.

84. Cox, A. N., Hodson, S. W., and King, D. S. 1979, "Linear Theory Period Ratios for Surface Helium Enhanced Double-Mode Cepheids," Ap. J. Letters, 230, L109.

85. Cox, A. N. 1979, "Observatory Report", B.A.A.S. 11, 197.

86. Cox, A. N., King, D. S., and Hodson, S. W. 1979, "Theoretical Pulsation of Metallic-Line Stars," Ap. J. 231, 798.

87. Hodson, S. W. and Cox, A. N. 1979, "Nonlinear Calculations for Bump Cepheids," Conference on Nonradial and Nonlinear Stellar Pulsation - A Workshop. Lecture Notes in Physics (Springer-Verlag) 125, 134.

88. Cox, A. N. and Hodson, S. W. 1979, "A Nonlinear Study of AI Velorum", Conference on Nonradial and Nonlinear Stellar Pulsation A Workshop, Lecture Notes in Physics (Springer-Verlag) 125, 41.

89. King, D. S., Wheeler, J. C., Cox, A. N., Hodson, S. W., and Cox, J. P. 1979, "Pulsation of High Luminosity Helium Stars", Conference on Nonradial and Nonlinear Stellar Pulsation A Workshop. Lecture Notes in Physics (Springer-Verlag) 125, 161.

90. Cox, A. N., Hodson, S. W., and Starrfield, S. G. 1979, "The Periods of ZZ Ceti Variables," Conference on Nonradial and Nonlinear Stellar Pulsation A Workshop. Lecture Notes in Physics (Springer-Verlag) 125, 458.

91. Michaud, G., Montmerle, T., Cox, A. N., Magee, N. H., Hodson, S. W., and Martel, A. 1979, "Helium Abundance Anomalies and Radiative Forces in Stellar Envelopes," Ap. J. 234, 206.

92. Cox, A. N., Hodson, S. W., and King, D. S. 1979, "Modal Behavior for RR Lyrae Variables," B.A.A.S. 11, 729.

93. Hodson, S. W., Cox, A. N., and King, D. S. 1979, "Theoretical Period Ratios for the RR Lyrae Variable AQ Leonis," B.A.A.S. 11, 729.

94. King, D. S., Cox, A. N., and Hodson, S. W. 1979, "The Periods of BL Herculis Stars," B.A.A.S. 11, 730.

95. Starrfield, S. G., Cox, A. N., and Hodson, S. W. 1979, "Radial Pulsation Analysis of DA Dwarfs," Proc IAU Colloq. 53, Univ. of Rochester, p. 382.

96. Cox, A. N. 1979, "Theory of Stellar Pulsations", Reports on Astronomy (Reidel, Dordrecht), 2, p. 134.

97. Cox, A N. 1979, "Effects of Opacity and Composition on Stellar Evolution," Reports on Astronomy (Reidel, Dordrecht) 2, p. 180.

98. Hodson, S. W. and Cox, A. N. 1980, "The Periods and Amplitudes of TU Cas," Goddard Conference on Current Problems in Stellar Pulsation Instabilities, NASA-TM-80625, p. 25.

99. Cox, A. N. 1980, "A Discussion of Cepheid Masses", Goddard/Los Alamos Conference on Current Problems in Stellar Pulsation Instabilities, NASA-TM-80625, p. 69.

100. King, D. S., Hodson, S. W., and Cox, A. N. 1980, "Triple-Mode Cepheid Masses," Goddard Conference on Current Problems in Stellar Pulsation Instabilities, NASA-TM-80625, p. 97.

101. Davis, C. G. and Cox, A. N. 1980, "Theoretical Mean Colors for RR Lyrae Variables," Goddard/Los Alamos Conference on Current Problems in Stellar Pulsational Instabilities," NASA-TM-80625, p. 293.

102. Cox, A. N. 1980, "Recent Theoretical Results for Cepheid Pulsations", Highlights of Astronomy 5, 487.

103. Cox, A. N., King, D. S., and Hodson, S. W. 1980, "Theoretical Period Ratios for RR Lyrae Variables and AQ Leonis," Ap. J. 236, 219.

104. Cox, A. N. 1980, "Observatory Report", B.A.A.S. 12, 209.

105. Simon, N. R., Cox, A. N., and Hodson, S. W. 1980, "Modal Selection in Pulsating Stars," Ap. J. 237, 550.

106. Cox, A. N. and Hodson, S. W. 1980, "Linear and Nonlinear Pulsations of β Cephei Stars," Stellar Hydrodynamics, IAU Colloq. 58, 12-15 August, Los Alamos, Sp. Sci. Rev. 27, 323.

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110. Hodson, S. W., Cox, A. N., and King, D. S. 1980, "Nonlinear Calculations of BL Herculis Stars," Stellar Hydrodynamics, IAU Colloq. 58, 12-15 August, Los Alamos, Space Sci. Rev. 27, 503.

111. Cox, J. P., King, D. S., Cox, A. N., Hodson, S. W., Hansen, C. J. 1980, "Pulsations of the R Coronae Borealis Stars", Stellar Hydrodynamics, IAU Colloq. 58, 12-15 August, Los Alamos, Space Sci. Rev. 27, 529.

112. Newman, M. J. and Cox, A. N. 1980, "One-Dimensional Hydrodynamics of Asteroid-Neutron Star Collisions," Space Sci. Rev. 27, 591.

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114. Newman, M. J. and Cox, A. N. 1980, "Collisions of Asteroids on Neutron Stars as a Cause of Cosmic Gamma-Ray Bursts," Ap. J. 242, 319.

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117. Cox, A. N., Hodson, S. W., and Shaviv, G. 1980, "Do Red Dwarf Stars Have Radiative Cores?," B.A.A.S. 12, 832.

118. Starrfield, S., Cox, A. N., and Hodson, S. W. 1980, "The Discovery of a Radial Pulsational Instability Caused by Carbon Ionization," B.A.A.S. 10, 850.

119. King, D. S., Cox, A. N., and Hodson, S. W. 1980, "The Effect of Opacities on the Periods and Period Ratios of BL Herculis Stars," B.A.A.S. 12, 864.

120. Hodson, S. W. and Cox, A. N. 1980, "Fourier Analysis of Theoretical Velocity and Light Curves for BL Herculis Stars," B.A.A.S. 12, 864.

121. Colgate, S. A. and Cox, A. N. 1981, "Observatory Report", B.A.A.S. 13, 207.

122. King, D. S., Cox, A. N., and Hodson, S. W. 1981, "Linear and Nonlinear Studies of BL Herculis Variables," Ap. J. 244, 242.

123. Cox, A. N., Shaviv, G., and Hodson, S. W. 1981, "On the Ratio of Mixing Length to Scale Height in Red Dwarfs," Ap. J. 245, L37.

124. Hodson, S. W. and Cox, A. N. 1981, "Theoretical Velocity and Light Curves for Classical Bump Cepheids," B.A.A.S. 13, 523.

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126. Cox, A. N., Hodson, S. W., and Clancy, S. P. 1982, "Linear and Non- linear Theory Study of Alpha Virginis," Proc. of Workshop on Pulsating B Stars, Nice, June 1981, p. 365.

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128. Cox, A. N. 1982, "Nonradial Pulsations of Upsilon Orionis and A Supergiants," Proc. of Workshop on Pulsating B Stars, Nice, June 1981, p. 359.

129. Hodson, S. W., Cox, A. N., and King, D. S. 1982, "The Masses and Pulsations of BL Herculis Variables," Proc. of IAU Colloq. 68, Dudley Observatory, p. 363.

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