

SUMNER STARRFIELD

January 2017

EDUCATION:

Ph.D.	Astronomy	U.C.L.A.
M. A.	Astronomy	U.C.L.A.
B. A.	Mathematics	U.C.Berkeley

PROFESSIONAL EXPERIENCE:

2002-present	Regents Professor	A.S.U.
1980-2001	Professor	A.S.U.
1986	J.I.L.A. Fellow	University of Colorado
1985	A. W. U. Fellow	Los Alamos National Laboratory
1978-1979	Visiting Associate Professor	Steward Observatory
1975-1980	Associate Professor	A.S.U.
1972-1975	Assistant Professor	A.S.U.
1971-1972	Visiting Scientist	IBM
1969-1971	Assistant Professor	Yale
1967-1969	Lecturer	Yale
1974-1994	Visiting Staff Member	Los Alamos Nat. Lab. Astrophysics Group

HONORS:

N.A.S.A. Pre-Doctoral Trainee	1966
N.R.C./N.A.S.A. Research Associate (declined)	1967
Visiting Research Scientist, IBM	1971
Fellow Royal Astronomical Society	1973
Philips Lecturer, Haverford College	1978
S.R.C. Visiting Fellow, I.O.A. (Cambridge, England)	1978
Dean's Quality Teaching Award	1981
Association of Western Universities: Sabbatical Leave Fellowship	1985
Joint Institute of Laboratory Astrophysics: Visiting Fellow	1986
Inst. Geophys. Planet. Physics Los Alamos Nat. Lab.- Grant	1989
Invited Speaker - Astronomische Gesselschaft - Bamberg, Germany	1991
Invited Speaker - 181st Meeting of the AAS - Phoenix Arizona	1993
Invited Speaker - Evry Schatzman 70th Birthday Symposium - Paris	1993
Invited Article - Scientific American January 1995 Issue	1995
Invited Article - Scientific American Special Issue on Astronomy	1998
Fellow American Physical Society	2000
Regents' Professor - Arizona State University	2002
Asteroid 19208 Named Starrfield	2005
Chapter in Supernova Textbook (Invited)	2016

SOCIETY MEMBERSHIPS:

American Astronomical Society:

High Energy Astrophysics Division	
Publications Board	(1978-81; Chair 2002-2005)
Council	2002-2005
Astronomical Journal Editor Search	2002-2004
Astrophysical Journal Editor-in Chief Search	2005
Royal Astronomical Society - Fellow	

International Astronomical Union
 Commission 27: Variable Stars
 Commission 35: Stellar Constitution
 Commission 42: Close Binary Stars
 Astronomical Society of Pacific
 American Physical Society - Fellow
 Astrophysics Division

POST-DOCTORAL FELLOWS:

K. Despain (Supported by NSF)
 M. Shara (Supported by NSF)
 E. Sion (Supported by NSF: Visiting Associate Professor)
 J. MacDonald (Supported by NSF)
 G. Shaviv (Supported by NSF: Distinguished Visiting Professor)
 M. Politano (Supported by NSF)
 P. Hauschildt (Supported by NASA: LTSA Fellow)
 K. Vanlandingham (Supported by NASA: ADP)
 J. Aufdenberg (Supported by NSF)
 H. Vanhala (Supported by NASA: ATP Fellow)
 J.-U. Ness Chandra Fellow
 Grant Newsham (Supported by NSF)

GRADUATE STUDENTS:

G. Ferland	U. of Texas	1978, Ph.D.
A. Shankar	U. of Illinois	1988-1990, Ph.D.
J. Hestand	A.S.U. (supervisor)	1989, M.S.
S. Austin	A.S.U. (supervisor-NSF*)	1989-1994, Ph.D. 1995
P. Hauschildt	Heidelberg U. (Germany)	1989-1991, Ph.D. 1991
P. Saizar	Ohio State U. (Support by IUE*)	1988-1991, Ph.D. 1992
I. Idan (Nofar)	Technion, Israel	1990-1994, Ph.D. 1994
L. Stanghellini	U. of Illinois	1990-1994, Ph.D. 1995
K. Vanlandingham	A.S.U. (supervisor-NASA*)	1992-1997. Ph.D. 1997
G. Schwartz	A.S.U. (supervisor-NASA*)	1993-1999. Ph.D. 1999
Y. Feng	A.S.U. (supervisor-NASA*)	1993-1998
J. Aufdenberg	A.S.U. (supervisor)	1994-2000: Ph.D. 2000
S. Dwyer	A.S.U. (Supervisor)	2002-2005
J. Rohrbach	A.S.U. (Supervisor)	2002-2007
A. Petz	U. Hamburg (external reader)	2003-2005
A. Wilber	ASU (Supervisor-NSF*)	2014-2015
M. Neric	ASU (Supervisor-NSF*)	2015-2017
W. Feng	ASU (co-Supervisor)	2016-2017

(I have served on Ph.D. committees for other grad students both at ASU and elsewhere)

(*Agency providing partial support under one or more of my grants.)

I. REFEREED ARTICLES

- 1) "A Suspected Variable in NGC 7789" PASP, 77, 206-207, 1965.
- 2) "Structured Cosmological Models" Proc. Natl. Acad. of Science, Omer, G., Starrfield, S., and Kannenberg, L., 54, 657-659, 1967.

- 3) "Rate of Mass Exchange in DQ Her" APJ, 161, 361-363, 1970.
- 4) "On the Cause of the Nova Outburst" MNRAS, 152, 307-322, 1971.
- 5) "On the Cause of the Nova Outburst II: Evolution at $1.00M_{\odot}$ " MNRAS, 155, 129-137, 1972.
- 6) "On the Formation of Massive Stars and the Upper Limit of Stellar Masses" R. Larson and S. Starrfield, A&A, 13, 190-197, 1971.
- 7) "CNO Abundances and Hydrodynamic Models of the Nova Outburst" Starrfield, S., Truran, J.W., Sparks, W.M., and Kutter, G.S., APJ, 176, 169-176, 1972.
- 8) "On the Non-Spherical Structure of the Nova Nebulosity" Sparks, W.M., Starrfield, S., MNRAS, 164, 1P-3P, 1973.
- 9) "CNO Abundances and Hydrodynamic Models of the Nova Outburst II. $1.0M_{\odot}$ Models with enhanced ^{12}C and ^{16}O " Starrfield, S., Sparks, W.M., Truran, J.W., APJ Supp., (No. 216), 28, 247-270, 1974.
- 10) "CNO Abundances and Hydrodynamic Models of the Nova Outburst III. $0.5M_{\odot}$ Models with enhanced ^{12}C , ^{14}N , and ^{16}O " Starrfield, S., Sparks, W.M., Truran, J.W., APJ, 192, 647-655, 1974.
- 11) "Novae, Supernovae and Neutron Sources" S. Starrfield, J.W. Truran, and W.M. Sparks, APJL, 198, L113-L117, 1975.
- 12) "On the Total Energy Output During the Nova Outburst" J.S. Gallagher and S. Starrfield, MNRAS, 176, 53-61, 1975.
- 13) "CNO Abundances and Hydrodynamic Models of the Nova Outburst IV. Comparison with Observations" Sparks, W.M., Starrfield, S., and Truran, J.W., APJ, 208, 819, 1976.
- 14) "A Single Star Interpretation of Nova Cygni 1975" Starrfield, S, Truran, J.W., Gallagher, J.S., Sparks, W.M., Strittmatter, P.A., and Van Horn, H. M., APJL, 208, L23, 1976.
- 15) "On Interstellar Accretion and the Rejuvenation of White Dwarfs" J.W. Truran, S. Starrfield, P.A. Strittmatter, S.K. Wyatt, and W.M. Sparks, APJ, 211, 539, 1977.
- 16) "On the Enhancement of CNO Nuclei in Nova Progenitors" J. Colvin, H. M. Van Horn, S. Starrfield, and J. Truran, APJ, 212, 198, 1977.
- 17) "Copernicus Observations of Nova Cygni 1975" E. Jenkins, T. Snow, W. Upson, S. Starrfield, J. Gallagher, J. Linsky, M. Friedjung, R. Henry, W. Moos, and S. Anderson APJ, 212, 198, 1977.
- 18) "A Hydrodynamic Study of a Slow Nova Outburst" W.M. Sparks, S. Starrfield, J.W. Truran, APJ, 220, 1063, 1978.
- 19) "On ^7Li Production During the Nova Outburst" S. Starrfield, J. Truran, W. Sparks, M. Arnould, APJ, 222, 600, 1978.
- 20) "Hot CNO-Ne Cycle Hydrogen Burning: Explosive Hydrogen Burning in Novae" B. Lazareff, J. Audouze, S. Starrfield, J.W. Truran, APJ, 228, 875-880, 1979.
- 21) "The Phenomenal Outburst of Nova Cygni 1975" La Recherche, 10, 976, 1979.
- 22) "Theory and Observations of the Classical Novae" J.S. Gallagher and S. Starrfield, ARAA, 16, 171-214, 1978.
- 23) "CNO Abundances...Nova Outburst V. $1.00M_{\odot}$ Models with Low Mass Envelopes" S. Starrfield, J.W. Truran, W.M. Sparks, APJ, 226, 186, 1978.
- 24) "On the Density Structure of Bok Globules" S. Kenyon and S. Starrfield, PASP, 91, 271, 1979.
- 25) "A Model for Dwarf Novae as Progenitors of Type I Supernovae" S. Starrfield, J. Truran, W. Sparks, APJL, 243, L27, 1981.
- 26) "Two New Variable White Dwarfs: G185-32 and G191-16" J.T. McGraw, G. Fontaine, D.S.P. Dearborn, J. Gustafson, P. Lacombe, and S. Starrfield, APJ, 250, 349, 1981.
- 27) "Ultraviolet Spectroscopy of the Recurrent Nova U Scorpii During Outburst." R.E. Williams, W.M. Sparks, J.S. Gallagher, E.P. Ney, S.G. Starrfield, and J.W. Truran, APJ, 251, 221, 1981.

- 28) "Thermonuclear Processes and Accretion onto Neutron Star Envelopes: X-ray Bursters and Transients." S. Starrfield, S. Kenyon, J.W. Truran, and W.M. Sparks, APJ, 258, 683-695, 1982.
- 29) "Theoretical Radial Pulsation Analyses of DA White Dwarfs" S. Starrfield, A. Cox, S. Hodson, S. Clancy, APJ, 269, 645, 1983.
- 30) "The Discovery of Non-Radial Instability Strips for Hot, Evolved, Stars" S. Starrfield, A.N. Cox, S. Hodson, W.D. Pesnell, APJL, 268, L27-L32, 1983.
- 31) "Nonradial Instability Strips Based on Carbon and Oxygen Partial Ionization Regions in Hot Evolved Stars" S. Starrfield, A.N. Cox, R. B. Kidman, W.D. Pesnell, APJ, 281, 800-810, 1984.
- 32) "Spectral Evolution and Heavy Element Abundances in Nova CrA 1981" R. Williams, W.M. Sparks, E. P. Ney, S. Starrfield, J.W. Truran, MNRAS, 212, 753-766, 1985.
- 33) "Feige 24: Wind/Flare Accretion by a Hot DAZ1 Degenerate" E. Sion and S. Starrfield, APJ, 286, 760-762, 1984.
- 34) "Two New Color Selected Magnetic DA White Dwarfs." J. Liebert, G.D. Schmidt, E.M. Sion, S. Starrfield, R. F. Green, T.A. Boroson, PASP, 97, 158-164, 1985.
- 35) "Discovery of Oxygen in the PG1159-035 Degenerate Stars: A Direct Evolutionary Link to OVI Planetary Nebula Nuclei and Confirmation of Pulsation Theory" E.M. Sion, J. Liebert, and S. Starrfield, APJ, 292, 471, 1985.
- 36) "Recurrent Novae as a Consequence of the Accretion of Solar Material onto a 1.38M_⊙ White Dwarf" S. Starrfield, W.M. Sparks, and J.W. Truran, APJ, 291, 136-146, 1985.
- 37) "An Analysis of the Nonradial Pulsations of the Central Star of the Planetary Nebula K1-16" S. Starrfield, A.N. Cox, R. Kidman, W.D. Pesnell, APJ, 293, L23, 1985.
- 38) "On the Evolutionary State of White Dwarf's in Cataclysmic Variables and their Recurrence Times" E. M. Sion and S. Starrfield, APJ, 303, 130, 1986.
- 39) "Hydrodynamic Models for Novae with Ejecta Rich in Oxygen, Neon, and Magnesium" S. Starrfield, W.M. Sparks, and J. W. Truran, APJL., 303, L5, 1986.
- 40) "Newly Observed Degenerate Stars and Related Objects from the Praesepe, Kiso, and Case Surveys" R.M. Wagner, E.M. Sion, J. Liebert, S. Starrfield, and N. Zotov, PASP, 98, 552-555, 1986.
- 41) "A High Resolution Observation of the Line of Sight to Nova V693 Corona Austrina 1981" E. M. Sion, S. Starrfield, M. E. Van Steenberg, W. M. Sparks, E. P. Ney, J. W. Truran, and R. E. Williams, AJ, 92, 1145-1149, 1986.
- 42) "CBS 78: A Second Extremely Rare DBZ Degenerate Star with Accreted Calcium" E. M. Sion, H. L. Shipman, R. M. Wagner, J. Liebert, and S. Starrfield, APJL, 308, L67-L70. 1986.
- 43) "Pulsations of White Dwarf Stars with Thick Hydrogen or Helium Envelopes" A. N. Cox, S. Starrfield, R. B. Kidman, and W. D. Pesnell, APJ, 317, 303-324, 1987.
- 44) "Pulsational Analyses of Post Planetary Nebulae Central Stars and Degenerate Dwarfs" in Stellar Pulsation: A Memorial to John P. Cox, ed. A. N. Cox, W. M. Sparks, and S. Starrfield, (Springer-Verlag) 332-341, 1987.
- 45) "Pulsations of the DAV and DAB White Dwarfs" A. N. Cox, S. Starrfield, R. B. Kidman, and W. D. Pesnell, in Stellar Pulsation: A Memorial to John P. Cox, ed. A. N. Cox, W. M. Sparks, and S. Starrfield, (Springer-Verlag), 358-362, 1987.
- 46) "Hydrodynamic Studies of Oxygen, Neon, and Magnesium Rich Novae" S. Starrfield, W. Sparks, and J. Truran, in Stellar Pulsation: A Memorial to John P. Cox, ed. A. N. Cox, W. M. Sparks, and S. Starrfield, (Springer-Verlag), 401-407, 1987.
- 47) "Newly Identified White Dwarfs from the Case Northern Sky Survey" E.M. Sion, R.M. Wagner, J. Liebert, and S. Starrfield. Mem. S. A. It., 58, 89-97, 1987.
- 48) "Spectroscopic Observations of Novae 1986 No. 32 in M31" A. Cowley and S. Starrfield, PASP, 99, 854-857, 1987.
- 49) "The Effect of Heating from the Boundary Layer on Accretion Models for Novae and other Compact Objects" G. Shaviv and

- S. Starrfield. APJL, 321, L51-L53, 1987.
- 50) "A Model for the 1987 Outburst of The Recurrent Nova U Scorpii" S. Starrfield, W. M. Sparks, and G. Shaviv. APJL, 326, L35-L38, 1988.
 - 51) "Hot Subluminous Stars and Blue Objects in the Case Low Dispersion Northern Survey I." R.M. Wagner, E.M. Sion, J. Liebert, and S. Starrfield. APJ, 328, 213, 1988
 - 52) "On the Composition Dependence of TNR Models for the Recurrent Nova: U Scorpii" J. W. Truran, M. Livio, J. Hayes, S. Starrfield, and W. M. Sparks. APJ, 324, 345, 1988.
 - 53) "Accretion onto Main Sequence Stars I: The Transient Phase" G. Shaviv and S. Starrfield. APJ, 335, 383-393, 1988.
 - 54) "A High Dispersion Spectrum of PG1159-035" J. Liebert, D. Husfeld, R. Wehrse, F. Wesemael, and S. Starrfield, AJ, 97, 1440-1450, 1989.
 - 55) "Theoretical Studies of Cataclysmic Variables" S. Starrfield, in Proc. Supercomputer Symposium, ed. L. P. Kartashev and S. I. Kartashev, (I. S. I.: Florida), p. 295-302, 1989.
 - 56) "CBS128: A New Magnetic Degenerate with a 65 Megagauss Surface Field" R. A. Saffer, J. Liebert, R. M. Wagner, E. M. Sion, S. G. Starrfield, AJ, 98, 668, 1989.
 - 57) "Abundances in the Hot DZ Star: CBS 127: How Efficient is Hydrogen Screening?", E. M. Sion, G. L. Hammond, R. M. Wagner, S. Starrfield, and J. Liebert APJ, 362, 691, 1990.
 - 58) "The Cause of the Pulsations of the White Dwarf Component in V471 Tau", L. Stanghellini, S. Starrfield, and A. N. Cox, A&A, 233, L13-L16, 1990
 - 59) "Observations and Predictions of EUV Emission from Classical Novae" S. Starrfield, J. W. Truran, W. M. Sparks, and J. Krautter, in Extreme Ultraviolet Astronomy, ed. R. Malina and S. Bowyer (Pergamon: New York), p. 168-176, 1991.
 - 60) "PW Vul: A Nova with Nearly Solar Abundances", P. Saizar, S. Starrfield, G.J. Ferland, R. M. Wagner, J. W. Truran, S. J. Kenyon, W. M. Sparks, R. E. Williams, and L. L. Stryker, APJ, 367, 310-320, 1991.
 - 61) "The Production of ^{26}Al in Nova Outbursts", I. Nofar, G. Shaviv, and S. Starrfield, APJ, 369, 440-450, 1991.
 - 62) "Post-AGB Non-radial Instability Strips", L. Stanghellini, A. Cox, and S. Starrfield, APJ, 383, 766-778, 1991.
 - 63) "Multi-wavelength Observations of Nova LMC 1990 No. 2: The First Extragalactic Recurrent Nova" S. N. Shore, G. Sonneborn, S. Starrfield, M. Hamuy, R. E. Williams, A. Cassatella, and H. Drechsel, APJ, 370, 193-197, 1991.
 - 64) "Optical Identification of the X-ray Source GS 2023+338 as V404 Cygni", R. M. Wagner, S. Starrfield, S. B. Howell, T. J. Kreidl, S. J. Bus, A. Cassatella, R. Bertram, and R. Fried, APJ, 378, 293-297, 1991
 - 65) "Spherically Symmetric, Expanding, NLTE, Model Atmospheres for Novae During Their Early Stages", P. Hauschildt, R. Wehrse, S. Starrfield, G. Shaviv, APJ, 393, 307-328, 1992.
 - 66) " ^{22}Na and ^{26}Al Production in Nova Outbursts", S. Starrfield, J. W. Truran, M. Politano, W. M Sparks, I. Nofar, and G. Shaviv, in Nuclear Physics, (Proc. of a Conference to Honor W.A. Fowler), ed. D.N. Schramm and S. Woosley, Physics Reports, 227, p223-234, 1993.
 - 67) "A Multiwavelength Study of Nova QU Vul 1984", P Saizar, S. Starrfield, G. J. Ferland, R. M. Wagner, J. W. Truran, S. J. Kenyon, W. M. Sparks, R. Williams, and L. L. Stryker APJ, 398, 651-664, 1992.
 - 68) "A Prediction of the γ -ray Flux from Nova Her 1991" S. Starrfield, S. N. Shore, W. M. Sparks, G. Sonneborn, J. W. Truran, M. Politano APJL, 391, L71-L74, 1992.
 - 69) "GQ Muscae; Discovery of a Supersoft X-ray Source Nine Years After a Nova Outburst", H Ogelman, M. Orio, J. Krautter, S. Starrfield NATURE, 361, 331-333, 28 January 1993.
 - 70) "Periodic Photometric Variability of the Black Hole Binary V404 Cygni", R. M. Wagner, T. J. Kreidl, S. B. Howell, S. Starrfield, APJL, 401, L97, 1992.

- 71) "IRC +10420: A Cool Hypergiant Near the Top of the HR Diagram", T. J. Jones, R. M. Humphreys, R. D. Gehrz, G. F. Lawrence, F-J Zickgraf, H. Mosely, S. Casey, W. J. Glaccum, C.J. Koch, R. Pina, B. Jones, K. Venn, S. Starrfield, APJ, 411, 323, 1993.
- 72) "UV Continuum Variability and Visual Flickering in the Peculiar Object MWC 560" A. G. Michalitsianos, M. Perez, S. N. Shore, S. P. Maran, M. Karovska, G. Sonneborn, J. R. Webb, T. G. Barnes, M. L. Frueh, R. J. Oliverson, and S. Starrfield, APJL, 409, L53, 1993.
- 73) "The Evolution of the 4 μ m to 14 μ m Spectrum of V1974 Cygni" R. Gehrz, C. Woodward, M. A. Greenhouse, S. Starrfield, D. H. Wooden, F. C. Witteborn, S. A. Sandford, L. J. Allamandola, J. D. Bregman, and M. Klapisch, APJ, 421, 762, 1994.
- 74) "The Heating of Nova Ejecta by Radioactive Decays of the β -Unstable Nuclei" S. Pistinner, G. Shaviv, and S. Starrfield, APJ, 437, 794-801, 1994.
- 75) "The Early Ultraviolet Spectral Evolution of Nova Cygni 1992" S. N. Shore, G. Sonneborn, S. Starrfield, R. Gonzalez-Riestra, T. B. Ake, AJ, 106, 2408-2428, 1993.
- 76) "The Early Bolometric Evolution of Nova Cygni 1992" S. N. Shore, G. Sonneborn, S. Starrfield, R. Gonzalez-Riestra, and R. Polidan, APJ, 421, 344-349, 1994.
- 77) "Non-LTE Model Atmosphere Analysis of Nova Cygni 1992" P. H. Hauschildt, S. Starrfield, S. Austin, R. M. Wagner, S. N. Shore, G. Sonneborn, APJ, 422, 831-844, 1994.
- 78) "Evolutionary Sequences of Very Hot, Low Mass, Accreting White Dwarfs with Application to Symbiotic Variables and Ultra-soft Low Luminosity X-ray Sources" E. M. Sion and S. Starrfield, APJ, 421, 261-268, 1994.
- 79) "Hydrodynamic Studies of Accretion onto Massive White Dwarfs: ONeMg-Enriched Nova Outbursts. 1. Dependence on White Dwarf Mass" M. Politano, S. Starrfield, J. W. Truran, W. M. Sparks, and A. Weiss, APJ, 448, 807-821, 1995.
- 80) "The Early Ultraviolet, Optical, and Radio Evolution of the Soft X-Ray Transient GRO J0422+32", C. R. Shrader, R. M. Wagner, R. M. Hjellming, X. H. Han, and S. Starrfield, APJ, 434, 698-706, 1994.
- 81) "X-ray Observations of the Black Hole Binary V404 Cyg in Quiescence", R. M. Wagner, S. Starrfield, T. J. Kreidl, S. Howell, and R. Hjellming, APJL, 429, L25-L28, 1994.
- 82) "The Early Spectral Evolution of Nova Cassiopeiae 1993" Hauschildt, P. H., Starrfield, S., Shore, S. N., Gonzalez-Riestra, R., Sonneborn, G., and Allard, F. AJ, 108, 1008-1015, 1994.
- 83) "Ultraviolet Detection of Dust Formation in Nova Cassiopeiae 1993" Shore, S. N., Starrfield, S., Gonzalez-Riestra, R., Hauschildt, P. H., and Sonneborn, G. NATURE, 369, 539-541 (16 June 1994), 1994.
- 84) "Element Abundances of Classical Novae", J. Andrea, H. Drechsel, and S. Starrfield A&A, 291, 869-889, 1994.
- 85) "Some Remarks About Nova Spectroscopy and Photometry" S. Pistinner, G. Shaviv, P. H. Hauschildt, and S. Starrfield APJ, 451, 724-738, 1995.
- 86) "The Physics of Early Nova Spectra" P. Hauschildt, S. Starrfield, S. Shore, F. Allard, E. Baron APJ, 447, 829-847, 1995.
- 87) "Rosat X-ray Observations of Nova Cygni: The Rise, Decline, and Fall of the Brightest Supersoft X-ray Source" J. Krautter, H. Ögelman, S. Starrfield, R. Wichmann, and J. Trumper, APJ, 456, 788-797, 1996.
- 88) "On the Interpretation of the Ultraviolet Spectra of Symbiotic Stars and Recurrent Novae. II The 1985 Outburst of RS Ophiuchi" S. N. Shore, S. J. Kenyon, S. Starrfield, and G. Sonneborn, APJ, 456, 717-737, 1996.
- 89) "Nova V351 Puppis 1991: A Multiwavelength Study of the Nebular Phase" P. Saizar, I. Pachoulakis, S. N. Shore, S. Starrfield, R. E. Williams, and E. Rotschild, MNRAS, 279, 280-292, 1996.
- 90) "Hubble Space Telescope Observations of Cool White Dwarf Stars: Detection of New Species of Heavy Elements" H. Shipman, ..., S. Starrfield, ... AJ, 109, 1231-1238, 1995.
- 91) "The Effects of Fe II NLTE on Nova Atmospheres and Spectra" P. H. Hauschildt, E. Baron, S. Starrfield, and F. Allard, APJ, 462, 386-403, 1996.

- 92) "V1974 Cygni 1992: Optical and Ultraviolet Evolution and Analysis" S. J. Austin, R. M. Wagner, S. Starrfield, S. N. Shore, G. Sonneborn, and R. Bertram, *AJ*, 111, 869-898, 1996.
- 93) "The Hot Winds of Novae", P. H. Hauschildt, S. Starrfield, E. Baron, F. Allard, in "Proceedings of IAU Conference #152: Astrophysics in the Extreme Ultraviolet", ed. S. Bowyer and R. F. Malina (Kluwer:Dordrecht),413-418. 1996
- 94) "The X-ray and EUV Turnoff of GQ Mus and V1974 Cyg", S. Starrfield, J. Krautter, S. Shore, I. Idan, G. Shaviv, and G. Sonneborn, in "Astrophysics in the Extreme Ultraviolet", ed. S. Bowyer and R. Malina (Kluwer: Dordrecht), 419-424, 1996
- 95) "Optical and Ultraviolet Spectrophotometry of the ONeMg Nova V838 Hercules 1991", K. Vanlandingham, S. Starrfield, R. M. Wagner, S. N. Shore, G. Sonneborn, *MNRAS*, 282, 563-579, 1996.
- 96) "Modeling the X-ray Development of Nova V1974 Cygni" S. N. Shore, S. Starrfield, G. Sonneborn, and R. Gonzalez-Riestra, *APJ Letters*, 463, L21-L24, 1996.
- 97) "Non-LTE Model Atmosphere Analysis of the Early Ultraviolet Spectra of Nova OS Andromedae 1986" Schwarz, G. J., Hauschildt, P. H., Starrfield, S., Baron, E., Allard, F., Shore, S. N., and Sonneborn, G., *MNRAS*, 284, 669-684, 1997.
- 98) "Evolutionary Sequences for Novae Using New Nuclear Reaction Rates and Opacities" S. Starrfield, J. W. Truran, M. C. Wiescher, and W. M. Sparks, *MNRAS*, 296, 502-521, 1998.
- 99) "Elemental Abundances for Nova V693 Corona Austrinae 1981" K. Vanlandingham, S. Starrfield, R. M. Wagner, S. N. Shore, and G. Sonneborn, *MNRAS*, 290, 87-98, 1997.
- 100) "On the Spatial Distribution and Occurrence Rate of Galactic Classical Novae" Hatano, K., Branch, D., Fisher, A., and Starrfield, S., *MNRAS*, 290, 113-118, 1997.
- 101) "Spatially Resolved Spectra of Nova V1974 Cygni 1992 with the Goddard High Resolution Spectrograph" Shore, S. N., Starrfield, S., Ake, T. B., and Hauschildt, P. H. *APJ*, 490, 393, 1997.
- 102) "Abundance Analysis of the Slow Nova PW Vulpeculae 1984" Schwarz, G. J. Starrfield, S., Shore, S. N., and Hauschildt, P. H. *MNRAS*, 290, 75-86, 1997.
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U.; Beacom, J. F.; Szczygiel, D.; Pojmanski, G.; Brimacombe, J.; Bersier, D.; Woodward, C. E.; Starrfield, S. G.; Hartman, D.

- 153) ATEL 6203 2014 "Spectroscopic Classification of ASASSN-14bd" Wagner, R. M.; Kaur, A.; Porter, A.; Wilber, A.; Prieto, J. L.; Holoien, T. W.-S.; Shappee, B. J.; Stanek, K. Z.; Kochanek, C. S.; Davis, A. B.; Jencson, J.; Basu, U.; Beacom, J. F.; Szczygiel, D.; Pojmanski, G.; Brimacombe, J.; Bersier, D.; Woodward, C. E.; Starrfield, S. G.; Hartmann, D.
- 154) ATEL 6219 2014 "ASAS-SN Discovery and Spectroscopic Classification of a Type Ia Supernova in SDSS J130814.58+620201.2" Holoien, T. W.-S.; Wagner, R. M.; Kaur, A.; Porter, A.; Wilber, A.; Prieto, J. L.; Shappee, B. J.; Davis, A. B.; Stanek, K. Z.; Kochanek, C. S.; Jencson, J.; Basu, U.; Beacom, J. F.; Szczygiel, D.; Pojmanski, G.; Brimacombe, J.; Bersier, D.; Woodward, C. E.; Starrfield, S. G.; Hartman, D.
- 155) ATEL 6249 2014 "Spectroscopic Classification of ASASSN-14bf and ASASSN-14ca" Prieto, J. L.; Porter, A.; Kaur, A.; Wilber, A.; Shappee, B. J.; Holoien, T. W.-S.; Stanek, K. Z.; Kochanek, C. S.; Davis, A. B.; Jencson, J.; Basu, U.; Beacom, J. F.; Szczygiel, D.; Pojmanski, G.; Brimacombe, J.; Bersier, D.; Woodward, C. E.; Starrfield, S. G.; Hartmann, D.
- 156) ATEL 6275 2014 "Spectroscopic Confirmation of ASASSN-14bq and ASASSN-14br as Cataclysmic Variable Stars" Wilber, A.; Kaur, A.; Porter, A.; Wagner, R. M.; Woodward, C. E.; Starrfield, S. G.; Hartmann, D.
- 157) ATEL 6413 2014 "First high resolution ultraviolet (HST/STIS) and supporting optical spectroscopy (CHIRON/SMARTS, HRS/SALT) of V1369 Cen = Nova Cen 2013" Shore, S. N.; Schwarz, G. J.; Walter, F. M.; Crawford, S.; Woudt, P. A.; Williams, R. E.; Mason, E.; Izzo, L.; Page, K. L.; Osborne, J. P.; Ness, J.-U.; Starrfield, S.; Woodward, C. E.; Vaisanen, P.; Marang, F.; Crause, L.; Tyas, L.
- 158) ATEL 6624 2014 "Spectroscopic Confirmation of Recent ASAS-SN Transients as Cataclysmic Variable Stars" Kaur, A.; Porter, A.; Wilber, A.; Wagner, R. M.; Woodward, C. E.; Starrfield, S. G.; Hartmann, D. H.
- 159) ATEL 6669 2014 "Identification of a New Candidate Outbursting AM CVn System from ASAS-SN" Wagner, R. M.; Kaur, A.; Porter, A.; Wilber, A.; Woodward, C. E.; Starrfield, S. G.; Hartmann, D. H.; Davis, A. B.; Holoien, T. W.-S.; Simonian, G.; Stanek, K. Z.; Kochanek, C. S.; Shappee, B. J.; Prieto, J. L.
- 160) ATEL 7208 2015 "The Probable M31 Stellar Merger Now Has a Late K or Early M Spectrum" Wagner, R. M.; Starrfield, S. G.; Wilber, A.; Kochanek, C. S.; Dong, Subo; Prieto, J.-L.; Adams, S.
- 161) ATEL 7217 2015 "Optical Spectroscopy of GK Per (Nova Per 1901) during the 2015 Outburst" Wilber, A.; Neric, M.; Starrfield, S.; Wagner, R. M.; Woodward, C. E.
- 162) ATEL 7339 2015 "Optical Spectroscopy of Nova Ophiuchi 2015 (PNV J17291350-1846120)" Danilet, A. B.; Holoien, T. W.-S.; Wagner, R. M.; Woodward, C. E.; Starrfield, S.; Wilber, A.; Walter, F.; Shore, S.
- 163) ATEL 7606 2015 "PNV J00424253+4115139 - A Luminous Fe II-class Nova in M31" Neric, M.; Wilber, A.; Wagner, R. M.; Starrfield, S.; Woodward, C. E.
- 164) ATEL 7609 2015 "Classification of ASASSN-15js and ASASSN-15kk as Normal Type Ia Supernovae" Porter, A.; Wilber, A.; Neric, M.; Wagner, R. M.; Starrfield, S.; Woodward, C. E.
- 165) ATEL 7627 2015 "Classification of ASASSN-15la as a Normal Type Ia Supernova" Porter, A.; Wilber, A.; Zinn, J.; Wagner, R. M.; Neric, M.; Prieto, J. L.; Holoien, T. W.-S.; Stanek, K. Z.; Starrfield, S.; Woodward, C. E.
- 166) ATEL 7655 2015 "Optical Spectroscopy of V404 Cyg During the Recent X-ray and Optical Activity" Wagner, R. M.; Woodward, C. E.; Starrfield, S.
- 167) ATEL 7725 2015 "Fast Optical Photometry of V404 Cyg at the MDM Observatory" Terndrup, D.; Wagner, R. M.; Starrfield, S.

- 168) ATEL 7862 2015 “SOFIA Observations of Dust Formation in Nova V5668 Sgr (2015 #2)” Gehrz, Robert D.; Evans, Aneurin; Woodward, Charles E.; Keller, Luke; Helton, L. Andrew; Shenoy, Dinesh; Banerjee, D. P. K.; Physical, N. M. Ashok; Starrfield, Sumner G.; Schwarz, Gregory; Wagner, R. Mark; Krautter, Joachim; Eyres, Stewart; Rushton, Mark; Liimets, Tiina; Mohamed, Shazrene S.
- 169) ATEL 8587 2016 “Swift observations of the early development of the 2016 eruption of the recurrent nova LMCN 1968-12a (OGLE-2016-NOVA-01)” Darnley, M. J.; Kuin, N. P. M.; Page, K. L.; Osborne, J. P.; Schwarz, G. J.; Shore, S. N.; Starrfield, S.; Williams, S. C.
- 170) ATEL 8615 2016 “Super-soft X-ray emission on day 6.4 from nova LMC N1968-12a strongly suggests a very high mass white dwarf” Page, K. L.; Osborne, J. P.; Darnley, M. J.; Henze, M.; Kuin, N. P. M.; Schwarz, G. J.; Shore, S. N.; Starrfield, S.; Williams, S. C.
- 171) ATEL 8626 2016 “BVRI photometry of the recurrent nova LMCN 1968-12a during the 2016 eruption with the SARA-CT telescope” Kaur, A.; Hillwig, T. C.; Keel, W. C.; Henson, G. D.; Hartmann, D. H.; Starrfield, S.; Wagner, R. M.
- 172) ATEL 8817 2016 “Optical Spectroscopy Confirms PNV J17355050-2934240 is a Fe II-type Classical Nova” Frank, S.; Wagner, R. M.; Starrfield, S.; Woodward, C. E.; Neric, M.

VII. CONFERENCE AND SPEAKING ACTIVITIES

INVITED TALKS AT CONFERENCES:

Cambridge Conference on Cataclysmic Variables-1975
 Physics of Compact X-ray Sources-Aspen-1975
 First Workshop on Novae and CV's Illinois-1976
 CNO Elements in the Universe-Grenoble, France 1976
 Novae and Dwarf Novae-Paris 1976
 Astrophysical Sites of element Production-Aspen-1976
 Third Annual Workshop on Novae and Dwarf Novae-1978
 U. of Arizona Workshop on Stellar Variability-1979
 White Dwarfs and Related Stars-Rochester 1979
 Fifth Annual Workshop in Cataclysmic Variables 1980
 Santa Cruz Conference on Nucleosynthesis-1980
 Santa Cruz Conference on Cataclysmic Variables-1981
 U.C. San Diego conference on X-ray Transients-1981
 J. Greenstein's 75th Birthday Symposium-Caltech-1984
 L.S.U. Cataclysmic Variable Conference-1984
 KPNO Workshop on Degenerate Dwarfs and Cataclysmic Variables -1985
 Radiation Hydrodynamics-Copenhagen, Denmark 1985
 Bamberg Cataclysmic Variable Star Symposium-1986
 New Directions in Nucleosynthesis-Paris 1986
 Scientific Accomplishments of the International Ultraviolet Explorer Satellite-London -1986
 Stellar Pulsation- A memorial to John P. Cox-1986
 Second Conference on Faint Blue Stars- Tucson-1987
 11th North American Workshop on CV's-Aspen-1987
 Multiwavelength Observations of Novae-Taos-1987
 The Thermonuclear Theory of the Nova Outburst-Heidelberg-1988
 EUV Emission in Astrophysics- Berkeley 1989
 Multiwavelength Studies of Novae-Madrid 1989
 Stellar Atmospheric Studies of Novae in Outburst-Madrid 1989
 The Thermonuclear Runaway Model of the Nova Outburst- Madrid 1989
 Thermonuclear Runaway Models for the Nova Outburst-Santa Fe 1989
 Ultraviolet Studies of Cataclysmic Variables-Toulouse 1990
 Theoretical and Observational Studies of Novae-Bamberg (AG) 1991
 Second GRO Science Conference (Annapolis, MD)-1991
 LMC Workshop (Heidelberg)-1992
 Paris Nucleosynthesis Wkshop - 1992
 181st Meeting AAS at Phoenix, AZ - 1993
 2nd Haifa Workshop on Cataclysmic Variables-Eilat, 1993.
 Physical Processes in Astrophysics - Paris 1993.
 Workshop on Nova Cyg 1992 -AAS Meeting Minn, Minn. 1994

Abano-Terme Workshop on CV's -Padova, Italy 1994
 Maryland October Conference on Nucleosynthesis: 1995
 American Physical Society, Indianapolis, May 1996
 Institute for Nuclear Theory- UW, August 1996
 Role of Small Telescopes in Modern Astronomy-Flagstaff October 1996
 The Formation of Pre-Solar Grains - St. Louis, November 1996
 The 13th North American CV Workshop - Grand Teton's 1997
 The Second Oak Ridge Conference on Atomic and Nuclear Physics 1997
 Physical Processes in Astrophysical Fluids 1998 (invited paper but could not attend-ill)
 A meeting to Celebrate the 60th Birthday of Brian Warner: April 1999-Oxford
 Notre Dame Nuclear Physics Workshop: June 1999
 Fourth Tetons Conference on Stars, Galaxies, and the ISM: Jackson Hole 2000
 Second ASCI Conference on Astrophysical Flashes: Chicago 2000
 Nuclei in the Cosmos 2000: Aarhus Denmark 2000
 Two Years of Chandra: 2001: Washington DC
 Workshop on Nuclear Physics at the Limit of Stability, 2002 Michigan State U. (APS-DNP)
 Stellar Rotation: 2002 Cancun, Mexico
 Neutron Stars on Fire, Princeton 2003
 Cosmic Explosions in Three Dimensions, Austin 2004
 Tours Workshop on Nuclear Astrophysics, Tours, France, 2006
 Keele Workshop on RS Oph - Plenary Talk, 2007
 HEAD Meeting, Los Angeles, 2008
 Minnesota Nova Workshop, 2009
 Swift 5year meeting - Penn State 2009
 American Physical Society: Washington DC 2010
 HEAD Meeting, Kona, Hawaii 2010
 National Astronomy Meeting, Liverpool, 2010
 Asiago Workshop on Symbiotic Binaries 2011
 Liverpool Nova Workshop 2012
 Capetown Symposium on Classical and Recurrent Novae 2013
 Asymmetrical Planetary Nebulae 6 2013

CONTRIBUTED PAPERS AT CONFERENCES:

19th Liege Conference on Stellar Hydrodynamics-1974
 Evolutionary State of FG Sge-Santa Cruz-1974
 American Astronomical Society 1978, 1979, 1980, 1981, 1982, 1983, 1985, 1987, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014
 Internation UltraViolet Explorer Workshop-1982, 1984, 1986, 1988, 1990
 Boulder Workshop on Stellar Pulsation- A Memorial to John P. Cox-1986
 New Directions in Nucleosynthesis-Paris -1986
 Kitt Peak Workshop on Dwarf Spheroidal Galaxies-1982
 New Developments in Nucleosynthesis (Fowler Nobel Symposium) 1983
 Cosmochronology- U.C. Boulder 1985
 Kitt Peak Workshop in Internal Constitution of Stars-1987
 White Dwarf Colloquium- Dartmouth- 1988
 Physics of Classical Novae-Madrid -1989
 The 12th North American Workshop on Cataclysmic Variables-Santa Fe-1989
 Evolution in Astrophysics-IUE Astronomy-Toulouse -1990
 Current Studies in Pulsation- Bologna- 1990
 Second GRO Science Conference -Annapolis, MD, 1991
 Vina del Mar CV Workshop- 1991
 LMC Workshop -Heidelberg Germany - 1992
 Compton Centennial Workshop - 1992
 2nd Haifa Workshop on Cataclysmic Variables-Eilat, 1993.
 Technion Conference on Assymetrical Planetary Nebulae 1994
 HEAD Workshop, NAPA Valley California, 1994
 EUVE Science Workshop, Berkeley, CA 1995
 Cool Stars 9: Florence Italy, 1995
 10th European Workshop on White Dwarfs: Blanes, Spain June 1996
 Fourth Compton Symposium - Williamsburg, VA May 1997
 13th North American CV Workshop, Grand Tetons, WY June 1997
 The Second Oak Ridge Conference on Atomic and Nuclear Physics 1997

The Second International Conference on Laser Astrophysics - March 1998
Unsolved Problems in Stellar Astrophysics-STSci- May 1998
UV Astrophysics Beyond HST, Boulder, CO - August 1998
Aspen Workshop on SN Ia progenitors. June 1999
Cosmic Explosions- University of Maryland-October 1999
HEAD Conference Hawaii 2000
Two Years of Chandra, Washington DC Sept 2001
Classical Nova Explosions, Barcelona, Spain, 2002
Supernova Ia Conference in Garching, Germany August 2002
Origin and Evolution of the Elements, Pasadena 2003
3-D Signatures in Stellar Explosions, Austin 2003
Cool Stars 13, Hamburg Germany 2004
A Workshop on Type Ia Supernovae and Cosmology, U, Washington, 2004
KITP SN Ia workshop; UCSB 2007
EuroWD, Barcelona White Dwarf Workshop, 2008
Chandra decade meeting – Boston 2009
5 Years of Swift - Penn State. 2009
HEAD Meeting - Rhode Island 2011
IAU Symposium 281-Padova Italy 2011
ALMA Workshop - Hawaii 2013
HEAD meeting - Chicago 2014
APS -Japan Hawaii --2014
Hot Wiring the Transient Universe- 2015

ORGANIZATION OF CONFERENCES OR SYMPOSIA:

First Workshop on Novae and Dwarf Novae-III. 1976
Physics of Compact X-ray Sources Aspen 1975
Third Annual Workshop on Novae and Dwarf Novae-1978
Women at the Frontiers of Space-1978
U. of Arizona Workshop on Stellar Variability-1979
White Dwarfs and Related Stars-Rochester 1979
Stellar Hydrodynamics-Los Alamos 1980
Santa Cruz Conference on Cataclysmic Variables-1981
Los Alamos Workshop on RS Oph 1986
Bamberg Cataclysmic Variable Symposium 1986
Stellar Pulsation-A Memorial to John P. Cox - 1986
12th North American CV Workshop - Santa Fe 1989
Nova Cygni 1992 Topical Workshop: 181st Meeting AAS at Phoenix, AZ, 1993
2nd Haifa Workshop on Cataclysmic Variables-Eilat, 1993.
Minneapolis Topical Session on Nova Cyg 1992 - Minn. 1994
Padova Workshop on Cataclysmic Variables - Italy, 1994
13th North American CV Workshop-Grand Tetons, WY, June 1997
The Second Oak Ridge Conference on Atomic and Nuclear Physics 1997
The Fourth Teton Conference on Galaxies and the ISM: Jackson Lake Lodge: 2000
Cosmic Evolution: A conference in Honor of Jean Audouze and James Truran, Paris 2000
The Barcelona Nova Conference: Barcelona May 2002
Dust in the Universe: Minneapolis 2005
V838 Mon: Canary Islands 2006
RS Oph Redux, Keele, UK 2007
Renaissance in Studies of Novae, Hawaii, 2010
5 Years of Swift, Clemson - 2011
Capetown Symposium on Classical and Recurrent Novae 2013
Swift Conference: 2015
Cospar CV conference Istanbul, Turkey 2016

SESSION CHAIR OR DISCUSSION LEADER:

Third Annual Workshop on Novae and Dwarf Novae-1978
White Dwarfs and Related Stars-Rochester 1979
Santa Cruz Conference on Nucleosynthesis-1980
Santa Cruz Conference on Cataclysmic Variables-1981
Fifth Annual Workshop on Cataclysmic Variables-1980

American Astronomical Society 1981, 1982, 1983, 1985
 Bamberg Cataclysmic Variable Symposium 1986
 Stellar Pulsation-A Memorial to John P. Cox-1986
 The Physics of Classical Novae-Madrid-1989
 12th North American CV Workshop-Santa Fe 1989
 Albuquerque Meeting of the American Astronomical Society-1990
 Seattle Meeting of the American Astronomical Society-1991
 181st Meeting AAS at Phoenix, AZ - 1993
 2nd Haifa Workshop on Cataclysmic Variables-Eilat, 1993.
 Padova Workshop on Cataclysmic Variables - Padova, 1994
 185th Meeting AAS at Tucson, AZ - January 1995
 10th European Workshop on White Dwarfs-Blanes-June 1996
 North American CV Workshop-Grand Tetons, WY, June 1997
 The Second Oak Ridge Conference on Atomic and Nuclear Physics 1997
 Unsolved Problems in Stellar Astrophysics-STSci- May 1998
 American Astronomical Society: Atlanta 2004
 Tours Conference on Nuclear Physics and Astrophysics 2006
 Renaissance in Studies of Novae, Hawaii, 2010
 Asiago Workshop on Symbiotic Binaries, 2011
 Capetown Symposium on Classical and Recurrent Novae 2013
 AAS 227 Kissimmee Florida 2016

SEMINARS AND COLLOQUIA:

1971

University of Maryland
 Arizona State University
 IBM-TJ Watson Research Center
 Lawrence Livermore National Laboratory

1973

California Institute of Technology
 IBM TJ Watson Research Center

1974

UC Irvine
 UCLA
 U. of Illinois
 Los Alamos National Laboratory

1976

University of Rochester
 University of Arizona
 Washington University of St. Louis
 Los Alamos National Laboratory
 IBM TJ Watson Research Center

1977

Lawrence Livermore National Laboratory
 University of California at Santa Cruz- Lick Observatory
 University of California at Berkeley
 University of Illinois

1978:

Los Alamos Scientific Laboratory
 University of Arizona
 University of Minnesota
 Cambridge University
 Tel Aviv University
 Max Planck Institute fur Astrophysik
 Cambridge University-Institute of Astronomy
 Hamburg Observatory

1979:

Philips Lecturer-Haverford College
 University of Arizona
 Arizona State University

1980:

Lawrence Livermore Laboratory
University of California at Santa Cruz
University of California at Berkeley

1981:
Scottsdale Center for the Arts (4 lectures)
Los Alamos National Laboratory
E.G.G. Science

1982
Los Alamos National Laboratory
E. G. G. Science
Arizona State University

1983
The Technion- Haifa Israel (Two Talks)
University of Illinois
Arizona State University

1984
University of Kansas (two talks)
University of Texas (two talks)
Los Alamos Scientific Laboratory

1985
Utah State University (two talks)
Jet Propulsion Laboratory
Los Alamos Scientific Laboratory
University of Illinois
University of Minnesota
University of British Columbia
Universtiy of Washington-Seattle
Dominion Astrophysical Observatory-Victoria

1986
University of Colorado-Boulder (4 Talks in Spring)
University of Wyoming
Villanova University
University of Arizona
Space Telescope Science Institute
University of Maryland

1987
University of Heidelberg
Arizona State University
Los Alamos Scientific Laboratory

1988
Los Alamos National Laboratory
The Technion
University of Heidelberg

1989
Goddard Space Flight Center
UCLA
Lowell Observatory
National Radio Astronomy Observatory
University of Minnesota

1990
Los Alamos National Laboratory
University of Heidelberg (2 talks: Supported by an IBM fellowship)
University of Arizona

1991
MPI for Physics and Astrophysics: Garching
University of Heidelberg
University of Nebraska
Ohio State University

1992
Villanova University
Institute of Astrophysics- Paris
Arizona State University

University of Chicago

1993
 AAS Meeting-Phoenix AZ
 AAVSO Annual Meeting-Berkeley, CA
 UC San Diego
 Space Telescope Science Institute

1994
 Theoretical Astrophysics Colloquium-U of Arizona
 University of California at Berkeley

1995
 University of Chicago
 University of Wisconsin
 University of Texas

1996
 University of Washington
 University of Oklahoma
 University of Minnesota
 MPI, LSW-Heidelberg

1997
 University of Chicago
 Los Alamos National Laboratory
 University of Georgia

1998
 University of Arizona
 Oak Ridge National Laboratory

1999
 UNC-Chapel Hill
 University of Arizona
 Michigan State University

2000
 University of Chicago
 University of Aarhus
 Villanova University

2001
 Northwestern University
 Space Telescope Science Institute

2002
 University of Washington, Seattle
 University of Minnesota, Minneapolis

2003
 Arizona State University
 Institute for Advanced Study
 University of Texas
 UC Berkeley
 Duke University
 UNC-Chapel Hill

2004
 University of Washington, Seattle
 University of Minnesota

2005
 Arizona State University
 Los Alamos National Laboratory
 Michigan State University

2006
 Arizona State University
 Ohio State University
 University of Ohio
 University of Arizona

2007 UC Santa Barbara
Keele University, UK
University of Minnesota

2008 University of Washington

2009 Penn State
University of Minnesota

2010 Liverpool John Moores University
Sofia Observatory

2011 University of Padova
Clemson University (canceled due to illness)

2012 Liverpool John Moores University

2013 University of Minnesota

2014 Clemson University (2 talks)
University of Washington
Arizona State University (2 talks)

2015 Arizona State University
Lowell Observatory

2016 Notre Dame