

SAUL J. ADELMAN

Department of Physics
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CURRENT POSITION: Professor of Physics, The Citadel (Aug. 22, 1989 - to date)

PAST POSITIONS:

Associate Professor of Physics, The Citadel (Aug. 23, 1983 to Aug. 21, 1989)
NRC-NASA Research Associate, NASA Goddard Space Flight Center (Aug. 1, 1984 - July 31, 1986)
Assistant Professor of Physics, The Citadel (Aug. 21, 1978 - Aug. 22, 1983)
Assistant Professor of Astronomy, Boston University (Sept. 1, 1974 - Aug. 31, 1978)
NAS/NRC Postdoctoral Resident Research Associate, NASA Goddard SpaceFlight Center (Aug. 1, 1972 - Aug. 31, 1974)

EDUCATION: Ph.D. in Astronomy, California Institute of Technology, June 1972; Thesis: A Study of Twenty-One Sharp-lined Non-Variable Cool Peculiar A Stars, December 1971 (*Dissertation Abstracts International* 33, 543-13, number 77-22, 597)

B.S. in Physics with high honors and high honors in physics, University of Maryland, June 1966

ACADEMIC HONORS: Phi Beta Kappa Phi Kappa Phi
 Sigma Pi Sigma Sigma Xi

Summer Institute in Space Physics at Columbia University 1965

NDEA Title IV Fellowship 1966-69

ARCS Foundation Fellowship 1970-71

Citadel Development Foundation Faculty Fellowship 1987-93

Faculty Achievement Award 1989, 1997

Governor's Award for Excellence in Scientific Research at a Primarily Undergraduate Institution 2011

OBSERVING EXPERIENCE:

Guest Investigator, Dominion Astrophysical Observatory 1984-2018

Guest Investigator, Hubble Space Telescope 2003-05, 2011-18

Participant in the Smarts Consortium to use the CHIRON Echelle Spectrograph 2013-18

Visiting Astronomer, Complejo Astronomico El Leoncito 1994-2010

Visiting Astronomer, Kitt Peak Observatory 1972-82, 85, 89, 91, 93-95, 2012-13

Guest Investigator, FUSE Satellite 1999-2008

Guest Investigator, Hale Observatories 1973-80

Guest Investigator, Princeton Telescope on the Copernicus Satellite 1974-75

Guest Investigator, International Ultraviolet Explorer Satellite 1980, 82-87, 89-96

Guest Investigator, Multi-Mirror Telescope 1986

Guest Investigator, Voyager UVS 1993

Guest Investigator, Hipparcos Satellite 1995-97

Guest Investigator, TNO 2007-10

AREAS OF SPECIALIZATION AND EXPERIENCE: Chemically peculiar and normal main sequence band B, A, and F stars, coude spectroscopy, CCD spectrophotometry, abundance analyses, line identification techniques, space astronomy, space exploration and technology, horizontal-branch stars, photoelectric photometry, automatic telescopes, S stars, A type supergiants

TELEVISION PRODUCTION: Associate Producer, "The Perfect Stargazer", South Carolina Educational Television Network, January 1990, won a Bronze Award at 1991 Houston International Film and Video Festival

PHOTOGRAPHIC EXHIBIT

David Calvin Reynolds Heisser's Charleston – Addlestone Library, College of Charleston, February – August 2009

OTHER EXPERIENCE:

President, International Astronomical Union Commission B6 Astronomical Photometry and Polarimetry, August 2015-August 2018
Vice President, International Astronomical Union Commission 25 Astronomical Photometry and Polarimetry, August 2012 -August 2015
Member, Scientific Organizing Committee, Working Group on Peculiar A Stars, 2013 - 2018
Member, Scientific Organizing Committee: Non-LTE line formation for trace elements in stellar atmospheres, July 30 - 4 August, 2007
Member, Library Services, Committee 2010-13, Chair 2011-2012, Secretary 2012-2013
Member, Scholarship Committee 2008-2010
Member, Faculty-Tenure and Promotion Committee 2005-07
Member, Faculty Research Committee 2006-07, 2001-05
Member, Faculty Sabbatical Committee 2004-2005, 2012-15
Member, Committee on Committees 2013-2015
Chair, Scientific Organizing Committee: Workshop on ATLAS12 and Related Programs, July 2005, Trieste, Italy
Member Editorial Board Baltic Astronomy 2002-2007
Member, Scientific Organizing Committee, IAU Symposium 224, "The A-Star Puzzle", July 2004, Poprad, Slovak Republic
Charleston Chapter Sigma Xi, Vice President 2000-01, 2008-08, President 2001-02, Member Executive Committee 2000-2018
Campus Director, South Carolina Space Grant Consortium, March 1997 - 2012
Chairman, Scientific Organizing Committee, 5th Vienna International Workshop on Model Atmospheres and Spectrum Synthesis, Vienna, 1995
Co-Chairman, Scientific Organizing Committee, JD 15 and JD 16 at the 22nd General Assembly of the International Astronomical Union, The Hague, 1994
Co-Chairman, Scientific Organizing Committee, Hot Stars in the Halo, Schenectady, NY 1993
Member, Scientific Organizing Committee, IAU Commission 14 1991-97, 2000-06, Secretary 2000-03
Member, Scientific Organizing Committee, IAU Commission 25 1991-2003
Chair, Citadel Faculty Employment Committee 1991-93.2005-07
Member, Program Committee, Fourth International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas 1992
Chairman, Scientific Organizing Committee, Automated Telescopes for Photometry and Imaging, a Joint Meeting of Commissions 9 and 25 at the 21st General Assembly of the IAU, Buenos Aires 1991
Member, Scientific Organizing Committee IAU Working Group on Standard Stars 1988-1991
Member, Scientific Organizing Committee CCD's in Astronomy II. New Methods and Applications of CCD Technology, Charleston, SC 1990
Co-Chairman, Scientific Organizing Committee, New Directions in Spectrophotometry, Las Vegas, NV 1988
Chairman, Scientific Organizing Committee Workshop on Elemental Abundance Analyses, Lausanne, Switzerland 1987
Chair, Citadel Group Insurance and Other Fringe Benefits Committee 1986-89
Phi Kappa Phi, Citadel Chapter, Secretary-Treasurer 1979-82, President 1982-83, 90-92, President-elect 1989-90
Graduate Teaching Assistant, California Institute of Technology 1969-70
Research Assistant, University of Maryland Program at NASA Goddard Space Flight Center, Summer 1966

MEMBER: International Astronomical Union
American Astronomical Society
Astronomical Society of the Pacific

PERSONAL DATA: Born - November 18, 1944, Atlantic City, NJ, US citizen; married-three sons; hobbies - photography, gardening, and genealogy

THESES SUPERVISED: Line Identifications in the Ultraviolet Spectrum of γ Pegasi B2 IV, Ian Hill, Boston University, for the degree of M.A. in Astronomy (1977)

I also acted informally as a PhD advisor to Hulya Caliskan, Istanbul University 1993-95, "Elemental Abundance Analysis of the mCP Star HR 8216" and was the cothesis advisor for five other theses:

A Spectrum Analysis of Deneb (A2Iae), Berahitdin Albayrak, Ankara University, Turkey, PhD (1999)

Spectrum Analyses of 4 Lac and ν Cep, Kutluay Yuce, Ankara University, Turkey, PhD (2003)

The F Supergiant α Per, Taskin Cay, Istanbul University, Turkey (2004),

An Elemental Abundance Analysis of the Am star 2 UMa, Ipek Cay, Istanbul University, Turkey (2004)

An Elemental Abundance Analysis of 15 Vul, A. Teker, Istanbul University, Turkey (2008)

RESEARCH GRANTS

Investigation of the Sharp-lined Mid B Star τ Herculis - NASA NSG 5055, May 1, 1975 - Aug. 31, 1976
Studies of Magnetic Peculiar A Stars - NSF AST 76-06233, AST 77-24808, and AST 78-25395, Nov. 1, 1976 - Oct. 31, 1979

Spectrum Variability of Hot Peculiar A Stars - NASA NSG 5420, Nov. 1 1979 - June 30, 1981

Spectrophotometric Studies of Peculiar A Stars - NSF AST 8106030, July 1, 1981 - Dec. 31, 1982

Abundances of Elements in Sharp-Lined Late B-Type Stars - NASA NAG 5-218, March 1, 1982 - Aug. 31, 1983

Elemental Abundances in Sharp-Lined Late B and Early A Stars - NASA NAG 5-218 (Supplement 1), Aug. 1, 1983 - July 31, 1984

Elemental Abundances of Mercury-Manganese Stars and the Population II A Type Star HD 109995 - NASA NAG 5-218 (Supplement 2), July 1, 1984 - July 31, 1985

Photospheric Elemental Abundances of Selected Stars - NASA NAG 5-793, Aug. 1, 1986 - June 30, 1987

Photographic Region Elemental Abundances - NASA NAG 5-921, June 1, 1987 - August 31, 1990

A Four College Automated Photoelectric Telescope for Astronomical Training and Research - NSF AST-8616362 - April 15, 1987 - May 15, 1990 through the College of Charleston (co-investigator)

Construction and Evaluation of Holographic Fourier Transform Spectrometers - SC Commission on Higher Education - Oct. 1988 - June 1990 (co-investigator)

Metallic-Lined and Normal A and F Stars - NATO Collaborative Research Grant - March 1989 - February 1991 (co-investigator)

The Ultraviolet Spectral Energy Distributions of Mercury-Manganese Stars - NASA NAG 5-1300 - October 1989 - December 1990

Early-Type Stars - NASA NAG 5-1402 - August 1, 1990 - July 31, 1992

Elemental Abundances of the HgMn Stars μ Leporis and ν Herculis - NASA NAG 5-1300 - Supplement 1 - January 1, 1990 - January 31, 1992

Photographic Region Elemental Abundance Analyses of Dr. David S. Leckrone's GTO HST Stars II - NASA NAG 5-1551 - May 1, 1991 - August 31, 1994

Vega-like Stars - NASA NAG 5-1300 - Supplement 2 - February 1, 1992 - January 30, 1993

A Four College Automated Photoelectric Telescope for Astronomical Training and Research - NSF AST91-15114 (co-investigator) May 1992-April 1995

Voyager UVS Grant - NASA

IUE Grant NASA NAG 5-2321, July 15, 1993 - July 14, 1994

Elementary Abundances of Mercury Manganese Stars - NASA 5-2472 Feb. 1, 1994 - Jan. 31, 1995

Analysis of Hipparcos Data and Ursa Major Stream Data - NASA September 1995-August 1997

Undergraduate Research at a Four College Consortium Utilizing an Automatic Photometric Telescope - NSF AST 9528506 via the College of Charleston 1996-2000

Undergraduate Research at a Four College Consortium Utilizing an Automatic Photometric Telescope - NSF AST-0071260 renewal via the College of Charleston 2000-2003

Abundances of Elements in Late-B and Early-A Stars, NASA Astrophysical Data Program via Catholic University 2000-2002

A CCD Spectrophotometer for the Etelman Observatory, AST-0115612, NSF 2001-2007

Heavy Elemental Abundances in Sharp-lined Early B Stars, NASA Astrophysical Data Program, 2001-2003

A SNAPSHOT Survey of Sharp-LINED Early B-Type Stars, HST-GO-09848, 02-A (Nov. 1, 2003-Oct. 31, 2005)

Collaborative Proposal: RUI: An Automated Telescope for Stellar Research and Training of Undergraduates.

NSF AST-0507381, 2005-2009

Advanced Spectral Library Project: Cool Stars, Space Telescope Science Institute, 2011-2014

Advanced Spectral Library Project: Hot Stars, Space Telescope Science Institute 2013-2016

Probing Supernovae Chemical Yields in Low Metallicity Environments with UV Spectroscopy of Magellanic Cloud B-type Stars 2018-19

I have also been the recipient of research grants from The Citadel Foundation and its predecessor 1979-2019.

EDUCATIONAL GRANTS

Astronomy in the Elementary Classroom - Educational Grant NASA NAGW 3225 (Fall 1992 - Summer 1993)

Teachers Need Help - Educational Supplement to NASA NAG 5-1402 (July 1992 - February 1993)

Project LUNAR - Educational Grant NASA (January 1994 - January 1995)

Project LUNAR II - Idea Program (February 1995 - February 1996)

Project LUNAR III - Idea Program ED-90053.01-95A, Space Telescope Science Institute (March 1996 - April 1997)

Great Astronomical Images II (South Carolina Space Grant Consortium, academic year 2010-2012)

EDUCATIONAL PUBLICATIONS

1. compiler of A Laboratory Manual for the Physics 255-56 and 260, 261, 262 Courses (1996-97, 97-98 Academic Years), Physics Department, The Citadel
2. compiler of A Laboratory Manual for the Physics 271-272 Courses (99-00 and updates, 03-04 Academic Year), Physics Department, The Citadel
3. contributor to Laboratory Manual for Physics 253-254 (1995-96, 96-97, 97-98 Academic Years), Physics Department, The Citadel
4. On Teaching Science (2001, First Annual Charleston Connections: Innovations in Higher Education Conference, p. 66)
5. Great Astronomical Images: DVD (2012, The Citadel Physics Department)

COURSES TAUGHT:

Boston University

1. AS 101 - Planetary Astronomy from Antiquity to 2001 (Fall 1974-75, Summer 1976)
2. AS 102 - The Cosmos: Stars, Galaxies, the Universe (Spring 1975-76, Summer 1977-78)
3. AS 103 - Exploring the Solar System (Fall 1976-77)
4. AS 104 - Exploring Stars and Galaxies (Spring 1977-78)
5. AS 201 - Methods and Tools of the Astronomer (Fall 1975, Spring and Fall 1977)
6. AS 303 - Observational Astronomy (Spring 1976)
7. AS 491/2 - Research in Astronomy (Fall 1976-77, Spring 1977-78)
8. AS 500 - Stellar Astrophysics (Fall 1976)
9. AS 505 - Astronomical Techniques (Fall 1974)
10. AS 512 - Astrophysics: Stellar Structure and Evolution (Spring 1975)

The Citadel

1. Physics 110 - Physics for Scientists and Engineers (Fall 1980-83, Spring 1981-84)
2. Physics 201 - Planetary Astronomy (Fall 1979-83), - Astronomy (Fall 1992, Spring 1987-90, 93)
3. Physics 202, Astronomy 202 - Stellar and Galactic Astronomy (Fall 2000, 02, 04, Spring 1979-83, 94, 96, 99-2013)
4. Physics 203 - Physics for Liberal Arts Students (Fall 1978, 2013-8 Spring 2009-13, 15-16)
5. Physics 204 - Physics for Liberal Arts Students (Fall 2000, Spring 1979, 2014-18)
6. Physics 205 - Physics for Biology and PreMed Students (Fall 1979, 91-93)
7. Physics 206 - Physics for Biology and PreMed Students (Spring 1980, 92-93)
8. Physics 210 - Physics for Engineers and Physical Scientists (Fall 1987-88, 95-98, Spring 1987-88, 98)
9. Physics 212 - Physics for Engineers and Physical Scientists (Fall 1986, 89, 93, 94, Spring 1990, 94-97)

10. Physics 221 - Physics with Calculus (Fall 2000-06, 08-12 Spring 1999, 2001-07, 09, 16-18, Summer 1999)
11. Physics 231 - Applications of Physics with Calculus (Spring 1999, 2001-07.09)
12. Physics 253 - Physics Laboratory for Liberal Arts Majors (Fall 1986, 89, 91, 94-95,98, 01-02,10-15, Spring 1996, 2009-13, 15-16)
13. Physics 254 - Physics Laboratory for Liberal Arts Majors (Fall 1993, 95-96,2000, Spring 1995-99, 2001-02,11, 13-14,16-17)
14. Physics 255 - Physics Laboratory for Biology and PreMed Students (Fall 1991-92,96-97)
15. Physics 256 - Physics Laboratory for Biology and PreMed Students (Spring 1992-93)
16. Physics 260 - Physics Laboratory for Engineers and Physical Scientists (Fall 1987-88, 95, 97-98, Spring 1987, 89, 97-98)
17. Physics 261 - Physics Laboratory for Engineers and Physical Scientists (Fall 1988, Spring 1994)
18. Physics 262 - Physics Laboratory for Engineers and Physical Scientists (Fall 1986, 89, 93, Spring 1990, 94)
19. Physics 271 - Laboratory for Physics with Calculus (Fall 2000-06, 08-10, Spring 2001-05,09)
20. Physics 272 - Laboratory for Physics with Calculus (Spring 2003-07)
21. Physics 313 - Modern Physics (Fall 1986-88, Spring 1992, Fall 1992-95, Spring 1995, 97-98)
22. Physics 320 - Mathematical Physics (Fall 1991, 2010-15, Spring 1995-98, 2004-07)
23. Physics 405 - Quantum Mechanics (Fall 1978)
24. Physics 406 - Quantum Mechanics (Spring 1979)
25. Physics 410 - Thermodynamics (Spring 1989-90, 92-93)
26. Physics 419 - Research Planning (Fall 1987, 94, 96)
27. Physics 420 - Senior Research Project (Spring 1988)

MEETINGS ATTENDED AND PAPERS PRESENTED

- 140th AAS (Columbus), June 1973, "Line Identification Studies of Four Magnetic Ap Stars" (1973, BAAS, 5, 236)
- 141st AAS (Tucson), December 1973, "On the Enhancement of the Ultraviolet Opacities in Peculiar A Type Atmospheres" (1973, BAAS, 5, 454 with J. W. Fowler and D. S. Leckrone)
- 146th AAS (San Diego), August 1975, "On the Nature of the Broad Continuum Absorption Features of Peculiar A Stars" (1976, BAAS, 8, 291 with S. N. Shore and P. R. Wolken)
- 148th AAS (Haverford), June 1976
- Ap Star Working Group - University of Michigan (invited participant), Oct. 1977
- 151st AAS (Austin), January 1978, "of Normal and Peculiar B, A, and F Stars" (1977, BAAS, 9, 652)
- 17th General Assembly of the International Astronomical Union (Montreal), August 1979, participated in a panel discussion on Peculiar A Stars
- International Ultraviolet Explorer Peer Group Meeting, December 1979
- Johns Hopkins Workshop on Current Problems in Physics: Theoretical Atomic Physics in Astrophysics (Baltimore), March 1980
- Ap Star Mini-Conference and Mid-Western Astronomers Meeting - Case Western Reserve University, Warner and Swasey Observatory (Cleveland), Oct. 1980
- Twenty-Third Liege International Astrophysical Colloquium, June 1981, "Ultraviolet and Optical Photometry of the Chemically Peculiar Stars of the Upper Main Sequence" (review paper) and "The Peculiar Rosetta Stone: Beta Coronae Borealis" (with B. Boytim, D. M. Pyper, and S. N. Shore)
- Carolina Area Astronomers Research Meeting (Columbia, SC), Sept. 1981, "Some Problems in Stellar Research"
- International Ultraviolet Explorer Peer Evaluation Meeting, Jan. 1982
- 160th AAS (Troy), June 1982, "Spectrophotometry of Magnetic Peculiar A Stars" (1982, BAAS, 14, 613)
- IAU Symposium No. 111 (Como, Italy), May 1984, "Elemental Abundances of Normal Sharp-Lined B and A Stars from Optical Region Analyses"
- Case for Mars II (Boulder, CO), July 1984, "The Case for Phobos" with B. Adelman
- 165th AAS (Tucson), January 1985, "Investigation of Random and Fixed Pattern Noise in High Dispersion IUE Spectra" and "Elemental Abundance in Early Type Stars" (both with D. S. Leckrone, 1984, BAAS, 16, 903 and 973)
- International Ultraviolet Explorer Peer Group Evaluation Meeting, January 1985
- IAU Colloquium No. 90 (Crimea Astrophysical Observatory, U. S. S. R.), May 1985, "Cool Magnetic CP Stars" (review paper with C. R. Cowley) and three poster papers
- 166th AAS (Charlottesville), June 1985, "Spectrophotometry of the Helium Variable Stars HR 1890, σ Orionis E, and HD 37776" (1985, BAAS, 17, 753, with D. M. Pyper)

Seventh Annual IAPPP Fairborn Symposium (Apache Junction, AZ), Feb. 1986, "Using APTs to Study Standards, Derive Fundamental Stellar Parameters, and Study Be Stars" (with G. J. Peters) and coauthor two other talks

New Insights in Astrophysics: 8 Years of UV Astronomy with IUE (London, UK), July 1986, "The Ultraviolet Lines of Carbon, Nitrogen, and Oxygen in the Spectrum of the Field Horizontal-Branch A Star HD 109995" (with D. S. Leckrone)

Eighth Annual IAPPP Fairborn Symposium (Mesa, AZ), Feb. 1987, "Some Thoughts About the Next Generation of Spectrophotometric Instruments"

IAU Colloquium No. 95 (Tucson, AZ), June 1987, "The Effective Temperature and Surface Gravity of the UV-Bright Star Barnard 29 of Messier 13" (with G. C. L. Aikman)

Workshop on Elemental Abundance Analyses (Lausanne, Switzerland), Sept. 1987, Chairman of the Scientific Organizing Committee

Workshop on IUE Signal-to-Noise Improvements (Greenbelt, MD), Oct. 1987, "Empirical Evidence for Random and Fixed Pattern Noise in High Dispersion Spectra" (with D. S. Leckrone)

Ninth Annual IAPPP Fairborn Symposium (Tucson, AZ), Feb. 1988, "Automated Spectrophotometry" New Directions in Spectrophotometry (Las Vegas, NV), March 1988, "Optical Spectrophotometry of the Chemically Peculiar Stars of the Upper Main Sequence (with D. M. Pyper)" and "Preliminary Specifications for An Automated Spectrophotometric Telescope" (with D. S. Hayes and R. M. Genet)

The Calibration of Stellar Ages (Middletown, CT), May 1988

Workshop on IUE Signal-to-Noise Improvement II (Greenbelt, MD), May 1988

20th General Assembly of the International Astronomical Union (Baltimore, MD), Aug. 1988, "Report on Lausanne Workshop" and "Elemental Abundances of Normal B and A Stars"

Workshop on IUE Signal-to-Noise Improvement IV (Greenbelt, MD), January 1989

ADP Peer Review (Pasadena, CA), February 1989

Workshop on Atomic Physics Databases (Gaithersburg, MD), March 1989

Tenth Annual Fairborn/Smithsonian/IAPPP Symposium (Tucson, AZ), March 1989 "Automated Photoelectric U, B, V Observations of Five Magnetic Peculiar A Stars" (with R. J. Dukes, Jr.), "Digital Array Scanned Fourier Transform Spectroscopy" (with six coauthors)

IUE Final Archive Definition Committee (Greenbelt, MD), April 1989, March 1990, September 1990, July 1991, November 1991, May 1992, November 1992

Eleventh Annual Fairborn/Smithsonian/IAPPP Symposium (Tucson, AZ), Feb. 1990 "APT Phoenix-10 Observations of Peculiar A Stars" (with R. J. Dukes, Jr. and D. P. Smith) and "The Determination of the Quality of Nights in APT Data" (with R. J. Dukes, Jr. and M. A. Seeds)

CCD's in Astronomy II. New Methods and Applications of CCD Technology (Charleston, SC), March 1990 "Using KPNO Coude Exposures to Study Field Horizontal-Branch Stars" (with A. G. D. Philip) and "A Holographic Fourier Transform Spectrometer" (with J. C. Berlinghieri, R. O. Hilleke, and P. J. Rembiesa)

102nd Meeting of the Astronomical Society of the Pacific (Boston, MA), June 1990, Some Thoughts on the Television Production "The Perfect Stargazer" and Progress Towards Automated Spectrophotometric Telescopes"

Workshop on Hands-On Astronomy for Education (Tucson, AZ), November 1990

Twelfth Annual Fairborn Symposium (Las Vegas, NV), Feb. 1991, "UBV Photometry of the Magnetic Ap Star 56 Arietis" (with R. Fried)

21st General Assembly of the International Astronomical Union (Buenos Aires), July 1991, "Automated Spectrophotometric Telescopes: A Concept Whose Time is Coming"

Automatic Photoelectric Telescope Workshop IV (Tucson, AZ), November 1991

IAU Colloquium No. 138 (Trieste, Italy), July 1992, one review and four poster papers

4th International Colloquium on Atomic Oscillator Strengths for Astrophysical and Laboratory Plasmas (Gaithersburg, MD), September 1992, poster paper "Atomic Data Needs for Optical Region Studies of Early A Type Stars" with A. F. Gulliver

Robotic Observatories: The First Decade (Tucson, AZ), April 1993, "New Results from the Four College APT"

International Space University (Huntsville, AL), July 1993, talk on Automated Telescopes

Hot Stars in the Halo (Schenectady, NY), November 1993, "Elemental Abundances of Halo A and Interloper Stars" (with A. G. Davis Philip)

IDEA Workshop (Baltimore, MD), July 1994

22st General Assembly of the International Astronomical Union (The Hague), August 1994, 3 poster papers

HST Proposal Review Panel - Hot Stars (Baltimore, MD), Oct 1994

185th AAS Meeting (Tucson, AZ), January 1995, poster paper "On the Light Curves of Magnetic Chemically Peculiar Stars (with R. Fried)" (1984, BAAS, 26, 1448)

5th Vienna International Workshop on Model Atmospheres and Spectrum Synthesis, Vienna, July 1995 - gave several presentations

Formation of the Halo Inside and Out (Tucson, AZ), October 1995, poster paper “The Elemental Abundances of Eight FHB A Stars” (with A. G. D. Philip)

190th American Astronomical Society (Winston-Salem, NC), June 1997, poster paper, “A Detailed Look at the Kinematics of the Ursa Major Stellar Kinematic Group” (1997, BAAS, 29, 805; Adelman, Soderblom, and Mayor)

6th International Colloquium on Atomic Oscillator Strengths for Astrophysical and Laboratory Plasmas (Victoria, BC, Canada), August 1998, “Astrophysical Spectroscopy’s Atomic Data Needs” with A. F. Gulliver

Strömvil Photometry Meeting, October 1999, Vilnius, Lithuania

American Astronomical Society (Atlanta, GA), January 2000, poster paper, “The Variability of the Hg II λ 3984 Line of the Mercury-Manganese Star α And” (1999, BAAS, 32, 878 with Gulliver and Ryabchikova)

24th General Assembly of the International Astronomical Union (Manchester, England), August 2000, poster paper on The Four College Automated Telescope Consortium

First Annual Charleston Connections: Innovations in Higher Education Conference, June 2001, The Citadel, oral paper “On Teaching Science”

IAU Colloquium 185 Pulsating Stars (Leuven, Belgium), July 2001, poster paper: “FCAPT Observations of Late B and Early A Supergiants and AGB S Stars”

199th American Astronomical Society (Washington, DC), January 2002, poster paper, “Ultraviolet Spectral Analyses of HgMn Stars (2001, BAAS, 33, 1328, with D. S. Leckrone, C. R. Proffitt, and G. M. Wahlgren)

IAU Colloquium 210, Modelling Stellar Atmospheres (Uppsala, Sweden), June 2002, poster paper “The ASTRA Spectrophotometer” (with the ASTRA team) and chair of a round table session

GNAT Drift Scan Photometry Workshop (Tucson, AZ), October 2002

American Astronomical Society (Nashville, TN), May 2003, poster paper “The ASTRA Spectrophotometer” (with the ASTRA team) (2003, BAAS, 35, 766)

GNAT/MOTESS meeting (Tucson, AZ), November 2003

American Astronomical Society (Atlanta, GA), January 2004, poster paper “The ASTRA Spectrophotometer: A Progress Report” (with the ASTRA team) (2003, BAAS, 35, 1272)

The A-Star Puzzle (Poprad, Slovak Republic), July 2004, invited key note talk “Physical Properties of Normal A-Stars” plus two other papers and six poster papers

ASOS8 (Madison, WI), August 2004, poster paper

Workshop on ATLAS12 and Related Programs (Trieste, Italy), July 2005, 2 scientific talks, 1 tribute, and 2 papers with collaborators

Workshop on Photometric, Spectrophotometric, and Polarimetric Standardization Calibration (Blankenberg, Belgium), May 2006

NonLTE Workshop, Nice July-Aug. 2007, two poster papers

213th American Astronomical Society (Long Beach, CA), January 2009, invited paper

216th American Astronomical Society (Boston, MA) May 2011, poster paper

STSCI meeting (Baltimore, MD) November 2012, Enhancing the Legacy of HST Spectroscopy

29th International Astronomical Union (Honolulu, Hawaii), August 2015, 1 poster paper and 1 oral talk

In addition there are papers presented by collaborators at meetings I did not attend. Some are in Spanish, Russian, and Turkish.

PAPERS:

1. Design of a Scanning Template for Associating Λ° Decays with Σ° Production Vertices (1965, University of Maryland Technical Report 522 with B. Kehoe)
2. Peculiar Stars in the Lacertae OB1 Association (1968, PASP 80, 329)
3. A Peculiar B Star in the Old Disk Population: 38 Draconis (1972, ApJ 176, 671 with W. L. Sargent)
4. On Jaschek and Brandi’s Line Identifications of HD 25354 (1973, A&A 24, 325)
5. Some Magnetic Null Lines of Astrophysical Interest (1973, PASP 85, 227)
6. A Model Atmosphere Analysis of the B9 V Star ν Capricorni (1973, ApJ 182, 531)
7. A Study of Twenty-One Sharp-Lined Cool Peculiar A Stars (1973, ApJ 183, 95)

8. Line Identifications, Elemental Abundances, and Equivalent Widths for 21 Sharp-Lined Cool Peculiar A Stars and Two Comparison Standards (1973, ApJS 26, 1)
9. Studies of Beta Coronae Borealis I. Identification of the Actinides (1973, ApJ 183, 121 with S. N. Shore)
10. Studies of Beta Coronae Borealis II. Identification of the Lanthanides (1973, ApJ 186, 605 with S. N. Shore and M. F. Tiernan)
11. Classifications of Some Stars in the Lacertae OB1 Association (1973, PASP 85, 676)
12. On the Abundance of Europium (1974, ApJ 187, 551 with M. R. Hartoog and C. R. Cowley)
13. The Enhancement of Ultraviolet Line Opacities in the Atmospheres of Peculiar A Stars (1974, A&A 32, 237 with D. S. Leckrone and J. W. Fowler)
14. Selected Line Identifications of the Ultraviolet Spectrum of γ Equulei (1974, ApJS 27, 183)
15. The Peculiar A Star HD 215441 (1974, ApJS 27, 203)
16. Magnetic Fields and Diffusion Processes in Peculiar A Stars (1974, ApJ 191, 165 with S. N. Shore)
17. The Peculiar A Star HD 200311: A Photographic Region Line Identification Study (1974, ApJS 28, 51)
18. Some Magnetic Null Lines of Astrophysical Interest. II. (1974, PASP 86, 486)
19. A Bibliography of Atomic Line Identification Lists (1974, PASP 86, 1019 with M. A. J. Snijders)
20. On the Continuous Energy Distributions of Peculiar A Stars (1975, ApJ 195, 397)
21. Uranium Lines in the Spectra of Peculiar A Stars - A Search for Recent r-Process Events (1975, Ap Lett 16 5 with C. R. Cowley)
22. The Rare Earths in Peculiar A Stars: A Test Case for the Magnetic Diffusion Hypothesis (1976, IAU Colloq. 32, "Physics of Ap Stars", ed. Weiss, Jenkner, and Wood, p. 125 with S.N. Shore)
23. The Broad Continuous Absorption Features of Peculiar A Stars (1976, IAU Colloq. 32, "Physics of Ap Stars", ed. by Weiss, Jenkner, and Wood, p. 189 with S. N. Shore and P. R. Wolken)
24. Are the Broad Continuous Absorption Features of Magnetic Peculiar A Stars Bound-Free Discontinuities? (1976, ApJ 207, 159 with P. R. Wolken)
25. Magnetic Fields and Diffusion Processes in Peculiar A Stars. II. Precession and the Oblique Rotator Model (1976, ApJ 209 816 with S. N. Shore)
26. Line Identifications in the Ultraviolet Spectra of Tau Herculis, B5 IV, and Zeta Draconis, B6 III (1977, ApJS 34, 309 with A. B. Underhill)
27. An Examination of Breger's Catalog of Spectrophotometric Scans for Broad, Continuum Features in Peculiar A and Mercury-Manganese Stars (1977, PASP 89, 650)
28. An Abundance Analysis of Tau Herculis, B5 IV (1977, MNRAS 181, 667)
29. An Astronomically Oriented Bibliography of Atomic Autoionization (1977, PASP 89, 780 with S. N. Shore and M. A. Nasson)
30. A Finding List for the Multiplet Tables of NSRDS-NBS 3, Sections 1-7 (1977, NASA Goddard Document X-685-77-287 with C. J. Adelman and D. Fischel)
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