

SAUL J. ADELMAN

Department of Physics
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Charleston, SC 29407
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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

OBSERVING EXPERIENCE:

Guest Investigator, Dominion Astrophysical Observatory 1984-2004

Visiting Astronomer, Complejo Astronomico El Leoncito 1994-2004

Guest Investigator, FUSE Satellite 1999-2004

Guest Investigator, Hubble Space Telescope 2003-2005

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

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

AREAS OF SPECIALIZATION AND EXPERIENCE: Chemically peculiar and normal main sequence band B, A, and F stars, coude spectroscopy, photoelectric and CCD spectrophotometry, abundance analyses, line identification techniques, space astronomy, RS CVn stars, 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

OTHER EXPERIENCE:

Chair, Scientific Organizing Committee: Workshop on Elemental Abundances, July 2005, Trieste, Italy

Member Editorial Board *Baltic Astronomy* 2002-to date

Member, Scientific Organizing Committee, IAU Symposium 224, "The A-Star Puzzle", July 2004, Poprad, Slovak Republic

Charleston Chapter Sigma Xi, Vice President 2000-01, President 2001-02, Member Executive Committee 2000-to date
 Campus Director, South Carolina Space Grant Consortium, March 1997 - to date
 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 1991-1997, 2000-2006, Secretary 2000-2003
 Member, Scientific Organizing Committee, IAU Commission 25 1991-2003
 Chair, Citadel Faculty Employment Committee 1991-93
 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
 Royal Astronomical Society (fellow)
 Astronomical Society of the Pacific
 British Interplanetary Society (fellow)
 International Amateur Professional Photoelectric Photometry
 Canadian Astronomical Society

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 Analyses of the mCP Star HR 8216" and was the cothesis advisor for four other theses:
 A Spectrum Analysis of Deneb (A2Iae), Berahitdin Albayrak, Ankara University, Turkey, PhD (1999)
 Spectrum Analyses of 4 Lac and ν Cep, Kutluay Yuces, Ankara University, Turkey, PhD (2003)
 The F Supergiant α Per, Taskin Cay, Istanbul University, Turkey (2004), and
 An Elemental Abundance Analysis of the Am star 2 UMa, Ipek Cay, Istanbul University, Turkey (2004)
 At present I am working with T. Tanriverdi (Ankara) and A. Teker (Istanbul)

RESEARCH GRANTS

Investigation of the Sharp-lined Mid B Star τ Herculis - NASANSG 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 - NASANSG 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 - NASANAG 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

Vegalike 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

ACCD Spectrophotometer for the Etelman Observatory, AST-0115612, NSF 2001-2005

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

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

I have also been the recipient of research grant from The Citadel Foundation and its predecessor 1979-2005.

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)

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)

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)
4. Physics 203 - Physics for Liberal Arts Students (Fall 1978)
5. Physics 204 - Physics for Liberal Arts Students (Fall 2000, Spring 1979)
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 2000-04, Spring 1999, 2001-04, Summer 1999)
11. Physics 231 - Applications of Physics with Calculus (Spring 1999, 2001-04)
12. Physics 253 - Physics Laboratory for Liberal Arts Majors (Fall 1986, 89, 91, 94-95, 98, 01-02, Spring 1996)
13. Physics 254 - Physics Laboratory for Liberal Arts Majors (Fall 1993, 95-96, 2000, Spring 1995-99, 2001-02)
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 2000-04, Spring 2001-04)
20. Physics 272 - Laboratory for Physics with Calculus (Spring 2003-04)
21. Physics 313 - Modern Physics (Fall 1986-88, Spring 1992, Fall 1992-95, Spring 1995, 97-98)
22. Physics 320 - Mathematical Physics (Fall 1991, Spring 1995-98, 2001-04)
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, "Spectrophotometry 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 AStars

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 AStars" (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 AStars"

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 AStars" (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 AStars" (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,
 Soderbloom, 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)

24nd 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 Spectrophoto-
 meter" (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 Spectrophoto-
 meter: 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

In addition there are papers presented 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, PASP80, 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&A24, 325)
5. Some Magnetic Null Lines of Astrophysical Interest (1973, PASP85, 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&A32, 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, PASP86, 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)
31. Line Identifications in the Ultraviolet Spectrum of Gamma Pegasi, B2 IV (1978, ApJS 37, 265 with I. Hill)
32. Spectrophotometry of B, A, and F Stars (1978, ApJ 222, 547)

33. A Bibliography of Atomic Line Identification Lists. II. August 1978 Supplement (1978, PASP90, 766)
34. The Peculiar A Star Gamma Equulei: A Line Identification Study of $\lambda\lambda 3086-3807$ (1979, ApJS 40, 371 with W. P. Bidelman and D. M. Pyper)
35. An Application of the Barnes-Evans Relation to the Peculiar A Stars: A Clue to Their Atmospheric Structure (1979, AJ 84, 559 with S. N. Shore)
36. Spectrophotometry of κ Cas (BCO.7 Ia) and HD 188209 (O9.5 Iab) (1979, PASP91, 198)
37. Spectrophotometry of Peculiar B and A Stars. I. On the Detection of the $\lambda 4200$ and $\lambda 5200$ Broad Continuum Features of Peculiar A Stars (1979, AJ 84, 857)
38. Spectrophotometry of Peculiar B and A Stars. II. Eleven Mercury-Manganese Stars (1979, AJ 84, 1603 with D. M. Pyper)
39. Spectrophotometry of Peculiar B and A Stars. III. 56 Arietis, 21 Persei, and 49 Cancri (1979, AJ 84, 1726 with D. M. Pyper)
40. Spectrophotometry of Peculiar B and A Stars. IV. The Secondary Standards and the Ap Stars HD 10783 and CU Virginis (1980, AJ 85, 836 with D. M. Pyper and R. E. White)
41. Spectrophotometry of Peculiar B and A Stars. V. HD 32650, 84 Ursa Majoris, HD 149822, 19 Lyrae, 4 Cygni, HD 196178 and 108 Aquarii (1980, A&A 86, 149)
42. Spectrophotometry of B, A, and F Stars. II. (1980, ApJS 43, 491 with D. M. Pyper and R. E. White)
43. Abundance Analyses of θ Aquilae (B9.5 III), ν Capricorni (B9.5 V), and σ Aquarii (A0 IVs) (1980, PASP 92, 346 with M. A. Nasson)
44. Spectrophotometry of Peculiar B and A Stars. VI. HD 32633, HD 34452, and HD 133029 (1980, A&A 42, 289 with R. E. White)
45. Spectrophotometry of Peculiar B and A Stars. VII. HD 6164, HD 8855, HD 11187, HD 171782, HD 190068, HD 200311, and HD 220147 (1980, A&AS 42, 375)
46. Spectrophotometry of Peculiar B and A Stars. VIII. ρ Aurigae, 137 Tauri, 15 Cancri, 3 Hydrae, ν Cancri, 17 Comae A, and 21 Comae (1981, A&AS 43, 25)
47. Spectrophotometry of Peculiar B and A Stars. IX. HD 5797, HD 12288, 9 Tauri, HD 81009, HD 111133, 33 Librae, and HD 216533 (1981, A&AS 43, 183)
48. The Ultraviolet Spectrum of the Peculiar A Star HD 51418 (1981, PASP93, 85 with S. N. Shore)
49. Spectrophotometry of Peculiar B and A Stars. X. HD 2453, HD 8441, HD 18078, HD 50169, HD 110066, and Gamma Equulei (1981, A&AS 44, 265)
50. Spectrophotometry of Peculiar B and A Stars. XI. HD 89069, HD 165474, 10 Aquilae, HD 191742, HD 192678, and HD 204411 (1981, A&AS 44, 309)
51. Ultraviolet and Optical Photometry of the Chemically Peculiar Stars of Upper Main Sequence (1981, 23rd Liege International Astrophysical Colloquium, Upper Main Sequence Chemically Peculiar Stars, p. 13)
52. The Peculiar Rosetta Stone: Beta Coronae Borealis (1981, 23rd Liege International Astrophysical Colloquium, Upper Main Sequence Chemically Peculiar Stars, p. 109 with B. Boytim, D. M. Pyper, and S. N. Shore)
53. IUE Observations of Three Helium Rich Stars (1981, 23rd Liege International Astrophysical Colloquium, Upper Main Sequence Chemically Peculiar Stars, p. 429 with S. N. Shore)
54. Can Venus Be Transformed Into An Earth-like Planet? (1982, JBIS 35, 3)
55. Spectrophotometry of the RS CVn Stars. I. The F, G, and K Standards (1982, AJ, 87, 665 with S. N. Shore)
56. Spectrophotometry of B and A Stars. XII. HD 10783, 56 Tauri, HD 43819, 53 Aurigae, 49 Camelopardalis, HD 64486, HD 147550, HD 184905, and HD 192913 (1982, A&AS 49, 663)
57. Spectrophotometry of B, A and F Stars. III. (1983, ApJ 266, 732 with D. M. Pyper)
58. Spectrophotometry of Peculiar B and A Stars. XIII. HD 51418, 53 Camelopardalis, 78 Virginis, and κ Piscum (1983, A&AS 51, 365 with D. M. Pyper)
59. Spectrophotometry of Peculiar B and A Stars. XIV. 56 Arietis, 41 Tauri, 25 Sextantis, HD 170973, HD 205087, and HD 215441 (1983, A&AS, 51, 511)
60. Spectrophotometry of Peculiar B and A Stars. XV. α Andromedae, AR Aurigae, 36 Aurigae, 36 Lyncis, ϕ Herculis, HR 6127, and HR 6997 (1983, A&A 118, 313 with D. M. Pyper)
61. A Bibliography of Atomic Line Identification Lists. III. August 1983 Supplement (1983, PASP95, 897)
62. Abundances in Normal and Chemically Peculiar B, A, and F Stars: Hortatory Re-marks and Prospectus (1983, QJRAS 24, 393 with C. R. Cowley)
63. Spectrophotometry of the RS CVn Stars. II. A Study of Seven Systems from $\lambda 4000-\lambda 11000 \text{ \AA}$ (1984, ApJS 54, 151 with S. N. Shore)
64. Optical Region Elemental Abundance Analyses of B and A Stars. I. Pi Ceti, 134 Tauri, HR 2154, HR 5780, 21 Aquilae, and ν Capricorni (1984, MNRAS 206, 637)

65. Optical Region Elemental Abundance Analyses of B and A Stars. II. The Hot Am Stars of Pegasi and σ Aquarii and the Marginal Peculiar A Star ν Cancri (1984, MNRAS 206, 649 with J. M. Young and H. E. Baldwin)
66. Spectrophotometry of Peculiar B and A Stars. XVI. Derivation of Indices by Fitting Balmer and Paschen Continuum of Normal Stars and Application to the Mercury- Manganese Stars (1984, A&AS 55, 479)
67. On the Need for Spectroscopic Data in Ultraviolet Spectral Synthesis Calculations (1984, Physica Scripta T8, 25 with D. S. Leckrone)
68. Pseudo-Scientific Beliefs in Sixth Grade Students in the Charleston, SC Area (1984, The Skeptical Inquirer IX, 71 with Aaron S. Adelman)
69. General Study of the Apparently Average Magnetic Ap Star θ Aurigae I. Data and Method (1984, A&AS 57, 121 with H. Hensberge and W. van Rensbergen)
70. General Study of the Apparently Average Magnetic Ap Star θ Aurigae II. Model (1984, A&A 136, 31 with H. Hensberge and W. van Rensbergen)
71. A Study of Twenty-One Cool Ap Stars. II. A Reassessment of HD 8441 (1984, A&A 141, 362)
72. Optical Region Elemental Abundance Analyses of B and A Stars. III. The Mercury- Manganese Stars ν Herculis and 38 Draconis (1984, A&AS 58, 585)
73. Elemental Abundances of the Normal Sharp-lined B and A Stars from Optical Region Analyses (1985, IAU Symposium No. 111, eds. D. S. Hayes et al., Reidel Pub., p. 423)
74. Spectrophotometry of Peculiar B and A Stars. XVII. δ Andromeda, HD 34452, ϵ Ursa Majoris, CQ Ursa Majoris, CU Virginis, and β Coronae Borealis (1985, A&AS 59, 369 with D. M. Pyper)
75. A Finding List for the Multiplet Tables of NSRDS-NBS 3, Sections 1-10 (1985, A&AS 60, 339 with C. J. Adelman, D. Fischel, and W. H. Warren, Jr.)
76. Ca II H and K Line Variability in the Ap Star HD 43819 (1985, IBVS 2701)
77. The Case for Phobos (1985, "Case for Mars II", Vol 62 AAS Science and Technology Series, ed. C. P. McKay, p. 245, AAS 84-165 with B. Adelman)
78. Spectrophotometry of Peculiar B and A Stars. XVIII. The Helium Rich Variable Stars HR 1890, σ Orionis E, and HD 37776 (1985, A&AS 62 279 with D. M. Pyper)
79. Optical Region Elemental Abundance Analyses of B and A Stars. IV. Re-evaluation with New Critically Compiled Fe II Oscillator Strengths and Improved Damping Constants (1985, A&A 152, 434 with J. R. Fuhr)
80. On the Ultraviolet Energy Distributions and the Temperatures of Peculiar B and A Stars (1985, PASP97, 970)
81. The Peculiar A Star HD 43819: A Photographic Region Line Identification Study (1985, PASP97, 976)
82. The Field Horizontal-Branch Star HD 109995: New Results with Coadded Ultraviolet and Optical Region Spectra (1985, "Horizontal-Branch and UV-Bright Stars", ed. A. G. D. Philip, L. Davis Press, p. 75 with D. S. Leckrone)
83. An Investigation of Random and Fixed Pattern Noise in IUE High Dispersion Exposures (1985, NASA IUE Newsletter 28, 35 with D. S. Leckrone)
84. Cool Magnetic CP Stars (1986, IAU Colloq. 90, "Upper Main Sequence Stars With Anomalous Abundances", eds. C. R. Cowley, M. M. Dworetzky, and C. Megessier, Reidel Pub., p. 305 with C. R. Cowley)
85. The Metallic-Lined Star 32 Aquarii (1986, IAU Colloq. 90, "Upper Main Sequence Stars With Anomalous Abundances", eds. C. R. Cowley, M. M. Dworetzky, and C. Megessier, Reidel Pub., p. 455 with D. Kocer and C. Bolcal)
86. Investigations of CP and Normal Stars With Coadded Dominion Astrophysical Observatory Spectrograms (1986, IAU Colloq. 90, "Upper Main Sequence Stars With Anomalous Abundances", eds. C. R. Cowley, M. M. Dworetzky, and C. Megessier, Reidel Pub., p. 209 with G. Hill)
87. Spectrophotometry of the Broad, Continuum Absorption Features in Magnetic Ap Stars (1986, IAU Colloq. 90, "Upper Main Sequence Stars With Anomalous Abundances", eds. C. R. Cowley, M. M. Dworetzky, and C. Megessier, Reidel Pub., p. 201 with D. M. Pyper)
88. Optical Region Elemental Abundance Analyses of B and A Stars. V. The Normal Stars θ Leonis, τ Herculis, 14 Cygni, and 5 Aquarii (1986, A&AS 64, 173)
89. The Ultraviolet IUE Spectrum of the Population II Horizontal-Branch A Star HD 109995 (1986, A&A 162, 373 with D. S. Leckrone)
90. Planning for a Consortium-Operated APT (1986, IAPPPComm. 25, 65 with R. J. Dukes, Jr.)
91. Using the APT's to Study Standards, Derive Fundamental Stellar Parameters, and Study Be Stars (1986, IAPPPComm. 25, 71 with G. J. Peters)
92. Use of An APT in Photometry of Chemically Peculiar Stars of the Upper Main Sequence (1986, IAPPPComm. 25, 76 with D. M. Pyper)

93. The Ultraviolet Lines of Carbon, Nitrogen, and Oxygen in the Spectrum of the Field Horizontal-Branch AStar HD 109995 (1986, in *New Insights in Astrophysics: 8 Years of UV Astronomy with IUE*, ESAASP-263, p. 65 with D. S. Leckrone)
94. CNO Abundances of Some Field Horizontal-Branch and Population I AStars (1986, *PASP* 98, 783 with D. S. Hayes and A. G. Davis Philip)
95. Optical Region Elemental Abundance Analyses of B and AStars. VI. The Normal Stars HR 6559 (A7 IV) and η Leporis (F0 IV) (1987, *A&AS* 67, 353)
96. The Metal-Weak A0 III Star α Draconis (1987, *PASP* 99, 130 with C. Bolcal, D. Kocer, and E. Inelmen)
97. Elemental Abundance Analyses With Coadded DAO Spectrograms. I. The Field Horizontal-Branch Stars HD 64488, HD 109995, and HD 161817 (1987, *MNRAS* 226, 581 with G. Hill)
98. An Atlas of the Field Horizontal-Branch Stars HD 64488, HD 109995, and HD 161817 in the Photographic Region (1987, *Publ. Dom. Astrophys. Obs. XVI*, 203 with W. A. Fisher and G. Hill)
99. Elemental Abundance Analyses With Coadded DAO Spectrograms. II. The Mercury-Manganese Stars 53 Tauri, μ Leporis, and κ Cancri (1987, *MNRAS* 228, 573)
100. Optical Region Elemental Abundance Analyses of B and AStars. VII. The Metallic- Lined Star 32 Aquarii (1987, *A&AS* 70, 49 with D. Kocer, C. Bolcal, and E. Inelmen)
101. On Unidentified Lines and Predicted Wavelengths of Singly-Ionized Iron Lines (1987, *PASP* 99, 515)
102. The Effective Temperature and Surface Gravity of the UV-Bright Star Barnard 29 in Messier 13 (1987, *IAU Colloq. 95*, "The Second Conference on Faint Blue Stars", eds. A. G. D. Philip, D. S. Hayes, and J. W. Liebert, L. Davis Press, p. 567, with G. C. L. Aikman)
103. Some Thoughts About the Next Generation of Spectrophotometric Instruments (1987, in *New Generation Small Telescopes*, eds. D. S. Hayes, R. M. Genet, and D. R. Genet, Fairborn Press, p. 157)
104. Elemental Abundance Analyses With Coadded DAO Spectrograms. III. The Superficially Normal Stars τ Herculis, θ Leonis, and o Pegasi (1988, *MNRAS* 230, 671)
105. An Introduction to the Coadded Spectrograms of ϕ Herculis and o Pegasi (with C. R. Cowley and G. Hill, 1988, in *Elemental Abundance Analyses*, eds. S. J. Adelman and T. Lanz, p. 15)
106. Analyses of ϕ Herculis and o Pegasi (1988, in *Elemental Abundance Analyses*, eds. S. J. Adelman and T. Lanz, p. 58)
107. Some Comments on the Measurement of Spectrograms (1988, in *Elemental Abundance Analyses*, eds. S. J. Adelman and T. Lanz, p. 117)
108. The Determination of the Helium-to-Hydrogen Ratio (1988, in *Elemental Abundance Analyses*, eds. S. J. Adelman and T. Lanz, p. 206)
109. Optical Spectrophotometry of the Chemically Peculiar Stars of the Upper Main Sequence (1988, in *New Directions in Spectrophotometry*, eds. A. G. D. Philip, D. S. Hayes, and S. J. Adelman, L. Davis Press, p. 113, with D. M. Pyper)
110. Preliminary Specifications for an Automated Spectrophotometric Telescope (1988, in *New Directions in Spectrophotometry*, eds. A. G. D. Philip, D. S. Hayes, and S. J. Adelman, L. Davis Press, p. 311 with D. S. Hayes and R. M. Genet)
111. Elemental Abundance Analyses With Coadded DAO Spectrograms. IV. Revision of Previous Analyses (1988, *MNRAS* 235, 749)
112. Elemental Abundance Analyses With Coadded DAO Spectrograms. V. The Mercury-Manganese Stars 28 Herculis, ϕ Herculis, and HR 7664 (1988, *MNRAS* 235, 763)
113. The Peculiar AStar HD 110066: A Photographic Region Line Identification Study (1988, *MNRAS* 235, 1361, with C. J. Adelman)
114. On the Signal-to-Noise Ratio in IUE High Dispersion Spectra (1988, *NASAIUE Newsletter* 36, 34; 1989, *ApJS* 71, 387 with D. S. Leckrone)
115. Bibliography of Atomic Line Identification Lists IV. January 1989 Update (1989, *PASP* 101, 302)
116. Elemental Abundance Analyses with Coadded DAO spectrograms. VI. The Mercury-Manganese Stars ν Cancri, ι Coronae Borealis, and HR 8349 (1989, *MNRAS* 239, 487)
117. Some Research Requirements for Planetary Engineering (1989, *JBIS* 42, 555 with B. Adelman)
118. A Comparison of Some Spectrograms Obtained with a Reticon and by Coaddition of Photographic Plates (1989, *PASP* 101, 681)
119. A Multiplet Table for Mn I (1989, *A&AS* 80, 285 with G. Svatek, K. van Wickler, and W. H. Warren, Jr.)
120. A Catalog of Stellar Spectrophotometry (1989, *A&AS* 81, 221 with D. M. Pyper, S. N. Shore, R. E. White, and W. H. Warren, Jr.)
121. Automated Photoelectric Telescope U, B, V Observations of Five Magnetic Peculiar AStars (1989, in *Remote Access Automatic Telescopes*, eds. D. S. Hayes and R. M. Genet, Fairborn Press, p. 177, with R. J. Dukes, Jr.)
122. An Elemental Abundance Analysis of the Superficially Normal AStar Vega (1990, *ApJ* 348, 712, with A. F. Gulliver)

123. High Resolution Ultraviolet Spectroscopy From Space Observatories - What Atomic Physics and Astrophysics Can Do For Each Other (1990, in Atomic Spectra and Oscillator Strengths for Astrophysics and Fusion Research, ed. J. E. Hansen, North-Holland Pub., p. 3 with D. S. Leckrone, S. Johansson, and R. L. Kurucz)
124. A CCD Fourier Transform Spectrometer (1990, CCD's in Astronomy, ASPConf. Ser. 8, ed. G. H. Jacoby, p. 374 with J. C. Berlinghieri et al.)
125. Spectrum Variability of the Silicon Ap Star HD 192913 (1990, PASP102, 581, with T. A. Ryabchikova and E. S. Davidova)
126. Ultraviolet Spectra of Field Horizontal-Branch A-Type Stars. II. (1990, PASP102, 649 with A. G. Davis Philip, and D. S. Hayes)
127. Using KPNO Coude Exposures to Study Field Horizontal-Branch Stars (1990, CCDs in Astronomy II, eds. A. G. D. Philip, D. S. Hayes, and S. J. Adelman, L. Davis Press, with A. G. D. Philip, p. 3)
128. A CCD Transform Spectrometer II (1990, CCDs in Astronomy II, ed. A. G. D. Philip, D. S. Hayes, and S. J. Adelman, L. Davis Press, with J. C. Berlinghieri, R. O. Hilleke, and P. J. Rembiesa, p. 209)
129. A Comparison of KPNO CCD and Coadded DAO Photographic Spectroscopic Data (1990, PASP102, 842 with A. G. D. Philip)
130. Elemental Abundances of the Field Horizontal-Branch Stars HD 86986, HD 130095, and HD 202759 (1990, MNRAS 247, 132 with A. G. D. Philip)
131. Line Identification Studies Using Traditional Techniques and Wavelength Coincidence Statistics (1990, PASP102, 1077 with C. R. Cowley)
132. Elemental Abundances of the Mercury-Manganese Stars HR 4817 and χ Lupi (1990, A&A 238, 111 with A. G. Davis Philip)
133. Archiving APT Data (1990, IAPPPComm. 42, 6 with M. Seeds)
134. Abundances of Normal and Peculiar B and A Stars (1991, Evolution of Stars: The Photospheric Abundance Connection, Poster Papers, edited by G. Michaud, A. Tutukov, and M. Bergevin, Universite de Montreal, p. 51)
135. An Atlas of the A0 V Star Vega (1991, Evolution of Stars: The Photospheric Abundance Connection, Poster Papers, edited by G. Michaud, A. Tutukov, and M. Bergevin, Universite de Montreal with G. C. L. Aikman, A. F. Gulliver, G. Hill, K. Sadakane, and M. Takada-Hidai, p. 59)
136. On the Identification of Field Horizontal Branch Stars (1991, PASP103, 63 with A. G. D. Philip)
137. A Line Identification Study of the IUE SWP High Dispersion Spectra of the UV-Bright Star Barnard 29 of Messier 13 (1991, A&AS 88, 393 with C. Cacciari and D. S. Leckrone)
138. UBV Photometry of the Magnetic Ap Star 56 Arietis (1991, IAPPPComm. 45, 4 with R. E. Fried)
139. Metallic Line Profiles of the A0 V Star Vega (1991, ApJ 380, 223 with A. F. Gulliver, C. R. Cowley, and M. Fletcher)
140. Elemental Abundance Analyses with DAO Spectrograms VII. The Normal Late B Stars π Ceti, 134 Tauri, 21 Aquilae, and ν Capricorni and the Use of Reticon Spectra (1991, MNRAS 252, 116)
141. Elemental Abundance Analyses with DAO Spectrograms VIII. The Normal F Stars θ Cygni and ι Piscum (1991, MNRAS 252, 329 with C. Bolcal, G. Hill, and D. Kocer)
142. Progress Towards Automated Spectrophotometric Telescopes (1991, Robotic Observatories: Present and Future, ed. S. Baliunas and J. L. Richard, Fairborn Press, p.109)
143. Elemental Abundances of the Field Horizontal-Branch Stars II. (1992, MNRAS 254, 539 with A. G. D. Philip)
144. Automated Spectrophotometric Telescopes: A Concept Whose Time is Coming (1992, Proceedings of Automated Telescopes for Photometry and Imaging, ASPConf. Ser. 28, 159)
145. Small Automated Telescopes for Teaching and Research (1992, Proceedings of Automated Telescopes for Photometry and Imaging, ASPConf. Ser. 28, 171 with R. J. Dukes, Jr.)
146. Report from the Four College Consortium (1992, Proceedings of Automated Telescopes for Photometry and Imaging, ASPConf. Ser. 28, 21 with R. J. Dukes, Jr., D. M. Pyper, G. P. McCook, and E. F. Guinan)
147. A Multiplet Table for Lines of Co II (1992, A&AS 95, 415)
148. Elemental Abundances of the B and A Stars γ Geminorum, 7 Sextantis, HR 4817, and HR 5780 (1992, PASP104, 316 with A. G. D. Philip)
149. Elemental Abundances with DAO Spectrograms IX. The Am Star 15 Vulpecula and 32 Aquarii (1992, MNRAS 258, 270 with C. Bolcal and D. Kocer)
150. Elemental Abundances with DAO Spectrograms X. The HgMn Stars π^1 Bootis, ν Herculis, and HR 7361 (1992, MNRAS 258, 167)
151. Photoelectric Observations of Some Bright Be Stars (1992, PASP104, 392)
152. Photometry of Eight Magnetic Ap Stars (1992, AJ 104, 314 with R. J. Dukes, Jr. and D. M. Pyper)
153. Recent Results on Abundance Determinations (1993, ASPConf. Ser. 44, 27)

154. Exploring Abundance and Isotope Anomalies in CPStars with the HST/GHRS: High Resolution UV Spectroscopy of χ Lupi (1993, ASPConf. Ser. 44, 42 with D. S. Leckrone, G. M. Wahlgren, and S. G. Johansson)
155. An Abundance Analysis of the Silicon CPStar HD 43819 (1993, ASPConf. Ser. 44, 149 with Zulema Lopez-Garcia)
156. N and Fe-peak Elemental Abundances from IUE Co-Added Spectra of Hg-Mn and Normal Stars (1993, ASPConf. Ser. 44, 154 with S. W. Roby, D. S. Leckrone, C. R. Cowley, and G. M. Wahlgren)
157. Elemental Abundances of Sharp-lined Metallic-lined and Comparable Normal Stars (1993, ASPConf. Ser. 44, 213 with D. Kocer, C. Bolcal, and G. Hill)
158. Photometry of Chemically Peculiar Stars with Automatic Photoelectric Telescopes (1993, ASPConf. Ser. 44, 644 with D. M. Pyper)
159. uvby Photometry of the Suspected Variable Stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096 (1993, A&A 269, 411)
160. uvby and UBV Photometry of the Magnetic Cp Star 56 Arietis (1993, AJ 105, 1103 with R. Fried)
161. μ Serpentis: A Double-Lined Spectroscopic Binary (1993, IBVS 3807 with Grant Hill and Graham Hill)
162. Determination of Data Quality and Results from Two Mt. Hopkins Robotic Telescopes (1993, In IAU Colloquium 136, Cambridge University Press, p.198, with D. M. Pyper, D. J. Dukes, Jr., G. P. McCook, and M. A. Seeds)
163. High Resolution UV Stellar Spectroscopy With the HST/GHRS, Challenges and Opportunities for Atomic Physics (1993, Physica Scripta T47, 149 with D. S. Leckrone, S. Johansson, and G. M. Wahlgren)
164. Spectrophotometry of Peculiar B and A Stars. XIX. Variability of the Magnetic CP Stars (1993, A&AS 101, 393 with D. M. Pyper)
165. Elemental Abundances of the B6 IV Star ξ Octantis (1993, PASP105, 327 with R. D. Robinson and G. M. Wahlgren)
166. Elemental Abundances with DAO Spectrograms XI. The Early B Stars γ Pegasi and ι Herculis (1993, MNRAS 264, 63 with O. Pintado)
167. The Double Lined Spectroscopic Binary HR 104 (1993, PASP105, 748 with G. Hill and A. F. Gulliver)
168. uvby Photometry of the Magnetic Chemically Peculiar Stars 63 Andromedae, HD 192913, HR 8240, and 108 Aquarii (1994, A&AS 103, 1 with J. R. Knox, Jr.)
169. Elemental Abundances of B and A Stars from IUE High-Dispersion Spectrograms. I. Cr, Mn, Fe, Ni, and Co (1993, ApJ 419, 276 with C. R. Cowley, D. S. Leckrone, S. W. Roby, and G. M. Wahlgren)
170. Selecting New Candidate Field Horizontal-Branch Stars from Databases (1994, in Workshop on Databases for Galactic Structure, ed. A. G. D. Philip, B. Hauck, and A. R. Upgren, Schenectady, NY, L. Davis Press, with A. G. D. Philip, p. 245)
171. The He/H Ratio of the UV-Bright Star Barnard 29 of Messier 13 (1994, A&A282, 134 with G. C. L. Aikman, D. S. Hayes, A. G. D. Philip, and A. V. Sweigart)
172. Elemental Abundances with DAO Spectrograms XII. The HgMn Stars HR 4072A and HR 7775 and the Metallic Lined Star HR 4072 B (1994, MNRAS 266, 97)
173. Elemental Abundances of Halo A and Interloper Stars (1994, in Hot Stars in the Galactic Halo, eds. S. J. Adelman, A. R. Upgren, and C. J. Adelman, Cambridge University Press, p. 266 with A. G. D. Philip)
174. An Optical Region Elemental Abundance Analysis of the Chemically Peculiar HgMn Star χ Lupi (1994, ApJ 434, 349 with G. M. Wahlgren and R. D. Robinson)
175. uvby Photometry of the Chemically Peculiar Stars α Andromedea, HD 184905, HR 8216, and HR 8434 (1994, A&AS 106, 333 with B. H. Brown, H. Caliskan, D. F. Reese, and C. J. Adelman)
176. Elemental Abundances of the Magnetic CPStars: The Silicon Star HD 43819 and the Marginal CPStar HD 147550 (1994, A&AS 107, 353, with Z. Lopez-Garcia)
177. Vega: A Rapidly Rotating Pole-on Star (1994, ApJ 429, L81 with G. Hill and A. F. Gulliver)
178. Elemental Abundances of the Field Horizontal-Branch Stars III. (1994, MNRAS 269, 579, with A. G. D. Philip)
179. Elemental Abundances of B and A Stars II. γ Geminorum, HD 60825, 7 Sextantis, HR 4817, and HR 5780 (1994, PASP106, 1239, with A. G. Davis Philip)
180. Elemental Abundances with DAO Spectrograms XIII. The Superficial Normal A Stars 68 Tauri, 21 Lyncis, and α Draconis (1994, MNRAS, 271, 355)
181. First Results of an International Multisite Multitechnique Campaign on \omicron And (1994, in Pulsation, Rotation, and Mass Loss in Early-Type Stars, ed. L. Balona, Kluwer, Dordrecht, IAU Symposium 162, p. 282, with J. P. Sareyan, J. Chauville, D. Briot et al.)
182. Elemental Abundances of Sharp-lined Population I Main Sequence B, A, and F Stars and Population II Stars (1995, IAU Symposium 164, Stellar Populations, ed. P. C. van der Kruit and G. Gilmore, Kluwer, Dordrecht, p. 359 with A. G. D. Philip)

183. The Four College Consortium APT: The First Four Years (1995, *Robotic Telescopes: Current Capabilities, Present Developments, and Future Prospects for Automated Astronomy*, ASPConf Ser. 79, 20, with R. J. Dukes, Jr. et al.)
184. Elemental Abundances of the Magnetic Chemically Peculiar Star HD 204411 (1995, in *Astrophysical Applications of Powerful New Atomic Databases*, ASPConf. Ser. 78, with H. Caliskan, p. 443)
185. Astrophysical gf Values from High S/N Data of A Type Stars (1995, in *Astrophysical Applications of Powerful New Atomic Databases*, ASPConf. Ser. 78, with A. F. Gulliver, G. Hill, and O. Pintado, p. 455)
186. On the Effective Temperatures, Surface Gravities, and Optical Region Fluxes of the Magnetic CPStars (1995, *A&A* 296, 467 with D. M. Pyper, Z. Lopez-Garcia, and H. Caliskan)
187. Strömgren and Geneva Photometry of the Magnetic CPStars 56 Tauri, HD 111133, HD 126515, and HD 215441 (1995, *A&AS* 111, 41 with P. North)
188. uvby Photometry of the Magnetic Chemically Peculiar stars HD 11187, HD 15144, 20 Eri, and HR 8933 and the Early F Star HD 14940 (1995, *A&AS* 114, 253, with P. W. Boyce)
189. New Results for the Four College APT (1995, *IAPPPComm*. 61, p. 1)
190. Elemental Abundance Analyses with DAO Spectrograms - XIV. The Double-Lined Spectroscopic Binary 112 Herculis (1996, *MNRAS* 283, 1115 with T. A. Ryabchikova and L. A. Zakharova)
191. A Bibliography of Atomic Line Identification Lists V. July 1995 Supplement (1996, *PASP* 108, 633)
192. Elemental Abundance Analyses with DAO Spectrograms - XV. The Superficially Normal B and A Stars Merak, π Dra, and κ Cep (1996, *MNRAS* 280, 130)
193. Elemental Abundances of the Field Horizontal-Branch Stars IV. (1996, *MNRAS* 280, 285 with A. G. D. Philip)
194. Elemental Abundance Analyses with Complejo Astronomico El Leoncito REOSC Echelle Spectrograms I. κ Cancri, HR 7245, and ξ Octantis (1996, *A&AS* 118, 283 with O. I. Pintado)
195. Elemental Abundances of Eight Field Horizontal-Branch A Stars (1996, ASPConf Ser. 92, eds. H. Morrison and A. Saragedini, p. 347 with A. G. D. Philip)
196. Experiments in Spectral Synthesis (1996, in *Model Atmospheres and Spectrum Synthesis*, ASPConf. Ser. 108, with O. I. Pintado, p. 180)
197. The Spectrophotometric Fitting Program, STELLAR (1996, in *Model Atmospheres and Spectrum Synthesis*, ASPConf. Ser. 108, p. 184 with G. Hill and A. F. Gulliver)
198. On Metal Line Equivalent Widths (1996, in *Model Atmospheres and Spectrum Synthesis*, ASPConf. Ser. 108, p. 288)
199. Telluric Lines (1996, in *Model Atmospheres and Spectrum Synthesis*, ASPConf. Ser. 108, p. 293 with A. F. Gulliver and D. E. Holmgren)
200. A Spectrograph's Instrumental Profile and Scattered Light (1996, in *Model Atmospheres and Spectrum Synthesis*, ASPConf. Ser. 108, p. 232 with A. F. Gulliver and G. Hill)
201. Some Personal Reflections on the State of Abundance Analyses (1996, in *Model Atmospheres and Spectrum Synthesis*, ASPConf. Ser. 108, p. 230)
202. Some Superficially Normal Stars with Strömgren Photometry Similar to That of Field Horizontal-Branch Stars (1996, *Baltic Astronomy* 5, 117 with A. G. D. Philip)
203. Elemental Abundances of the B and A Stars III. γ Geminorum, HR 1397, HR 2154, HD 60825, and 7 Sextantis (1996, *MNRAS* 252, 1181 with A. G. D. Philip)
204. Elemental abundances of the Mercury-Manganese stars HR 89 and 33 Geminorum (1996, *MNRAS* 282, 953 with A. G. D. Philip and C. J. Adelman)
205. Strömgren uvby Photometry of the magnetic Chemically Peculiar stars HD 32633, 25 Sex, HR 7224, and HD 200311 (1997, *A&AS* 122, 249)
206. Strömgren uvby Photometry of the the magnetic Chemically Peculiar stars HR 1643, θ Aur, 49 Cam, and HR 3724 (1997, *PASP* 109, 9)
207. Abundance analyses of roAp stars III. γ Equulei (with T. A. Ryabchikova, W. W. Weiss, and R. Kuschnig, 1997, *A&A* 322, 234)
208. On the possible variability of metallic-line and Mercury-Manganese stars (1997, *A&AS* 123, 445)
209. Elemental Abundance Analyses with Complejo Astronomico El Leoncito REOSC Echelle Spectrograms II. μ Lep, 7 Sex, HR 4817, and 28 Her (1997, *A&AS* 125, 219 with O. I. Pintado)
210. uvby photometry of the magnetic Chemically Peculiar stars HD 37776, HR 2258, HR 6958, and 108 Aquarii (1997, *A&AS* 125, 65)
211. Elemental abundance analyses with DAO spectrograms - XVI. The Normal F main sequence stars σ Bootis, θ Cygni and ι Piscum, and the Am stars 15 Vulpeculae and 32 Aquarii (1997, *MNRAS* 288, 470 with Hulya Caliskan, Dursun Kocer, and Cetin Bolcal)
212. Elemental abundance analyses with DAO spectrograms - XVII. The superficially normal stars 2 Lyncis, ω Ursa Majoris, and ϕ Aquilae (1997, *MNRAS* 288, 501 with Hulya Caliskan)

213. On the possible variability of the main sequence A stars θ Vir and 109 Vir (1997, A&AS 125, 497)
214. BVRI Photometry of the S Star HD 35155 (1997, Baltic Astronomy 6, 391)
215. On the Variability of Early A-Type Supergiants (1997, IBVS 4541, with B. Albayrak)
216. Strömgren uvby Photometry of some Be Stars, particularly λ Eri, FY CMa, 66 Oph, σ And, 47 Ori, 88 Her, 28 Cyg, 66 Cyg, 31 Peg (1997, JAD, 3, article 6, with C. A. Lovelace)
217. uvby photometry of the Chemically Peculiar stars AR Aurigae, 3 Hydrae, 49 Cancr, and BX Bootis (1998, A&AS 128, 245)
218. Rotation modulation or/and pulsation in Omicron Andromedae I. The photometric results of an international multisite multitechnique campaign (1998, A&A 332, 155, with J. P. Sareyan et al.)
219. uvby photometry of θ Coronae Borealis during 1994 and 1995 (1998, A&A 329, 579 with J. Fabregat)
220. Elemental Abundance Analyses with Complejo Astronomico El Leoncito REOSC Echelle Spectrograms III. HR 4487, 14 Hya, and 3 Cen A (1998, A&AS 129, 563 with A. F. Gulliver and O. I. Pintado)
221. Elemental abundance analyses with DAO spectrograms - XIX. The superficially normal B stars ζ Draconis, η Lyrae, 8 Cygni, and 22 Cygni (1998, MNRAS 296, 856)
222. Elemental abundance analyses with DAO spectrograms - XVIII. 46 Draconis (1998, MNRAS 297, 1 with T. Ryabchikova and E. S. Davydova)
223. The BVRI photometry of the extrinsic S star HR 1105 (1998, A&A 333, 952)
224. Photometry from the Hipparcos Catalogue: Constant MCPs, Comparison and Check Stars (1998, Baltic Astronomy 7, 427)
225. On the Hipparcos Photometry of Chemically Peculiar B, A, and F Stars (1998, A&AS 132, 93)
226. Magnetic field models for A and B stars V. The magnetic field and photometric variation of 84 UMa (1998, A&A 335, 973 with G. A. Wade, G. M. Hill, N. Manset, and P. Bastien)
227. On the variability of Hipparcos Observations of S Stars (1998, IBVS 4591 with D. Maher)
228. Elemental abundance analyses with DAO spectrograms - XX. The early A stars ϵ Serpentis, 29 Vulpeculae, and σ Aquarius (1998, MNRAS 300, 359, with B. Albayrak)
229. Discovery of the secondary star of the HgMn binary κ Cancr (1998, Proceedings of the 26th European Workgroup on Chemically Peculiar Stars, with T. Ryabchikova, O. Kochukhov, G. Galazutdinov, and F. Musaev pp. 258-260)
230. The Double-lined Spectroscopic Binary α Andromedae: Orbital Elements and Elemental Abundances (1998, Proceedings of the 26th European Workgroup on Chemically Peculiar Stars, with T. Ryabchikova and V. Malanushenko, pp. 356-358)
231. uvby Photometry of 33 Tauri, HD 50169, and HR 7786 and an assessment of FCAPT comparison and check stars (1998, A&AS 133, 197 with C.-L. M. Pi and K. E. Rayle)
232. uvby Photometry of the CP Stars HD 15980, HR 1094, 33 Gem, and HD 115708 (1999, A&AS 134, 53)
233. uvby Photometry of the magnetic CP stars HR 1297, 36 Aur, and HR 2722, and the non-magnetic CP stars HR 1576 and α Cnc (1998, PASP 110, 1304 with E. F. Brunhouse)
234. The Abundances of Elements in Sharp-lined Early Type Stars from IUE High Dispersion Spectrograms. II. The N Deficiency in Mercury-Manganese Stars (1999, ApJ 524, 974 with S. W. Roby and D. S. Leckrone)
235. Astrophysical Spectroscopy's Atomic Data Needs (1999, Phys. Scripta, T83, 97 with A. F. Gulliver)
236. uvby Photometry of the Magnetic CP Stars HD 35298, 19 Lyr, HD 192678, and HD 204411 (1999, A&AS 136, 111 with R. H. Rice)
237. Elemental Abundance Analyses with DAO Spectrograms - XXI. The hot metallic-line stars 60 Leonis and 6 Lyrae (1999, MNRAS 305, 591 with H. Caliskan, T. Cay, D. Kocer, and H. Gokmen Tektanali)
238. Elemental Abundance Studies of CP Stars II. The Silicon Stars HD 133029 and HD 192913 (1999, A&AS 137, 227 with Z. L. Garcia-Lopez)
239. uvby Photometry of the Magnetic CP Stars 45 Leo, HR 4330, 49 Her, and HR 6718 (1999, A&AS 136, 379 with C.-L.M. Pi and K. E. Rayle)
240. Orbital elements and abundances analyses of the double-lined spectroscopic binary α Andromedae (1999, A&A 351, 963, with T. A. Ryabchikova and V. S. Malanushenko)
241. Elementary Abundance Analyses with DAO Spectrograms - XXII. The Normal Late B and Early A Stars 14 Cyg, 29 Cyg, λ UMa, and 59 Her (1999, MNRAS 310, 146)
242. Strömgren Photometry of the Be Star θ CrB: 1996-1999 (1999, IBVS, 4729)
243. Variability of the uvby light curves of the mCP star 108 Aqr (1999, Baltic Astronomy 8, 369)
244. On the effective temperatures, surface gravities, and optical region fluxes of the CP stars (2000, A&A 355, 308 with K. E. Rayle)
245. On the cobalt abundances of early type stars (2000, A&A 353, 335, with A. F. Gulliver and L. O. Loden)
246. Elemental Abundance Analyses with Complejo Astronomico El Leoncito REOSC Echelle Spectrograms IV. Extensions of Nine Previous Analyses (2000, A&A 354, 899 with O. I. Pintado)

247. Elemental Abundance Analyses with DAO Spectrograms - XXIII. The Superficially Normal Stars 28 And (A7 III) and 99 Her (F7 V) (2000, MNRAS 316, 514 with H. Caliskan, D. Kocer, I. Hamami, & H. G. Tektunali)
248. uvby Photometry of the mCPs HD 36668, 36 Lyncis, HD 86592, and HR 8861 (2000, A&A 357, 548)
249. uvby Photometry of the mCPstars 20 Eri, HR 1297, 12 CMa, and HD 134214 (2000, A&AS 146, 13)
250. On the Variability of O and B Supergiants (2000, IBVS 4946 with K. Yuce and S. Engin)
251. On the Variability of A6 to F9 Supergiants (2000, IBVS 4947 with I. Cay, M. T. Cay, and D. Kocer)
252. On the Variability of Early K Stars (2000, IBVS 4958)
253. On the Variability of K5-M Stars (2000, IBVS 4959)
254. On the Variability of Late B III-V Stars (2000, IBVS 4968, with M. L. Gentry and I. M. Sudiana)
255. On the Variability of A3-F0 III-V Stars (2000, IBVS 4969)
256. On the Variability of A0-A2 III-V Stars (2000, IBVS 4982 with R. S. C. Flores, Jr. and V. Patel)
257. On the Variability of G0-G9 Stars (2000, IBVS 4993 with J. M. Davis and A. S. Lee)
258. A Bibliography of Atomic Line Identification Lists. VI. October 2000 Supplement (2001, PASP, 113, 344)
259. Elemental abundance studies of CPstars. III. The magnetic CPstars α Scl and HD 170973 (2001, A&A 367, 859 with Z. Lopez-Garcia and O. I. Pintado)
260. Elemental Abundance Analyses with DAO spectrograms - XXIV. The Mercury-Manganese Stars ν Her, ϕ Her, and HR 7018 (2001, A&A 367 597 with A. F. Gulliver and K. E. Rayle)
261. Hipparcos Photometry: The Least Variable Stars (2001, A&A 367, 297)
262. uvby Differential Photometry of the CPstars HR 5341, HD 142070, HR 6967, and HR 8434 (2001, A&A 368, 275)
263. On the Variability of F1-F9 Stars (2000, IBVS 5003 with B. C. Coursey and E. A. Harris)
264. On the Variability of O4-B5 Stars (2000, IBVS 5008 with M. R. Mayer and M. L. Rosidivito)
265. uvby Photometry of the A2 Ib Supergiant 13 Mon (2001, Baltic Astronomy 10, 385)
266. On the Variability of Stars (2001, IBVS 5050)
267. Elemental Abundance Analyses with DAO Spectrograms- XXV. The Normal Stars α Draconis, τ Herculis γ Lyrae, and HR 7926 (2001, A&A 371, 1078 with H. Caliskan, D. Kocer, H. Kablan, K. Yuce, and S. Engin)
268. On the rotation of the chemically peculiar magnetic star 56 Arietis (2001, A&A 375, 982, with V. Malanushenko, T. A. Ryabchikova, and I. Savanov)
269. An elemental abundance analysis of the Mercury-Manganese star HD 29647 (2001, MNRAS 328, 1144, with T. P. Snow, E. L. Wood, I. I. Ivans, C. Sneden, P. Ehrenfreund, and B. H. Foing)
270. 2027 Stars with the Largest Hipparcos Photometric Amplitudes (2001, Baltic Astronomy 10, 589)
271. On the Photometric Variability of Red Clump Giants (2001, Baltic Astronomy 10, 593)
272. FCAPT Observations of Late B and Early A Supergiants and AGB S Stars (2002, Radial and Nonradial Pulsations as Probes of Stellar Physics, ASP Conferences Series, 259, eds. C. Aerts, T. R. Bedding, and J. Christensen-Dalsgaard, p. 572)
273. The Variability of the Hg II λ 3984 Line of the Mercury-Manganese Star α And (2002, ApJ 575, 449 with A. F. Gulliver, O. P. Kockukhov, T. A. Ryabchikova)
274. uvby photometry of the CP Stars HR 149, HD 32966, HD 171782, and HR 7911 (2002, A&A 390, 1023 with S. A. Meadows)
275. On the effective temperatures and surface gravities of superficially normal main sequence B and A stars (2002, A&A 392, 1031, with O. I. Pintado, F. Nieva, K. E. Rayle, S. E. Sanders, Jr.)
276. Elemental abundance analyses with DAO spectrograms. XXVI. The superficially normal stars γ Serpentis (F6 V) and 101 Herculis (A7 V) (2002, A&A 394, 187, H. Caliskan, S. J. Adelman, M. T. Cay, I. H. Cay, A. F. Gulliver, G. H. Tektunali, D. Kocer, and A. Teker)
277. Strömngren Differential Photometry of the Be Star θ CrB: 1999-2002 (2002, IBVS 5307)
278. On the Periods of the Magnetic CP Stars (2002, Baltic Astronomy 11, 475)
279. The Four College Consortium and the Future of APT's (2003, Small Telescopes in the New MILLENIUM II. The Telescopes We Use, ed. T. Oswalt, Kluwer, with R. J. Dukes, p. 155)
280. On the relationship between the Mercury-Manganese stars and the metallic-lined stars (2003, A&A 397, 267 with A. S. Adelman and O. I. Pintado)
281. A Spectroscopic Atlas of Deneb (A2Iae) $\lambda\lambda$ 3826-5212 (2003, A&A 400, 1043 with B. Albayrak, A. F. Gulliver, C. Aydin, and D. Kocer)
282. uvby FCAPT photometry of the metallic-lined stars 60 Tau and HR 1528 and the magnetic CPstars HR 8216 and HR 8770 (2003, A&A 401, 357)

283. A Photometric and Spectroscopic Study of 3 Vulpecula (2003, AJ 126, 370, with R. J. Dukes, Jr., W. R. Kubinec, and A. Kubinec)
284. Stellar Kinematic Groups II. A Re-examination of the Membership, Activity, and Age of the Ursa Major Group (2003, AJ 125, 1980, with J. R. King, A. R. Villarreal, D. R. Soderbloom, and A. F. Gulliver)
285. Elemental abundance analyses with DAO spectrograms. XXVII. The superficially normal stars θ And (A2IV), ε Del (B6 III), ε Aqr (A1.5 V), and ι And (B9 V) (2003, A&A 406, 975 with D. Kocer, H. Caliskan, A. F. Gulliver, and G. H. Tektunali)
286. Elemental abundances analysis with the EBASIM spectrograph of the 2.1-m CASLEO Observatory Telescope I. The late B and Early A Stars Xi Octantis, Alpha Sextantis, and 68 Tauri (2003, A&A 406, 987 with O. I. Pintado)
287. Atomic Physics Data for Stellar Atmospheres Research (2003, Modelling Stellar Atmospheres, IAU210, ASP Conference Series, eds. N. E. Piskunov, W. W. Weiss, & D. F. Gray, p. 261, with C. R. Cowley and D. J. Bord)
288. The ASTRASpectrophotometer (2003, Modelling Stellar Atmospheres, IAU 210, ASP Conference Series, eds. N. E. Piskunov, W. W. Weiss, & D. F. Gray, poster paper E55, with A. F. Gulliver, B. Smalley, et al.)
289. UVB Photometry of 56 Ari: 1990-1994 (2003, Journal of Astronomical Data 9, article 2, with R. Fried)
290. A Round Table on Instrumentation and Data Processing (2003, Modeling of Stellar Atmospheres, eds. N. E. Piskunov, W. W. Weiss, & D. F. Gray, p. 337, with I. Bikmaev, A. F. Gulliver, & B. Smalley)
291. The Be Star θ CrB is Variable Again (2003, IBVS, 5460)
292. A Spectroscopic Atlas of α Pegasi (A1 IV) (2004, A&A 413, 285, with A. F. Gulliver and T. P. Friesen)
293. Revised Elemental Abundances of the mCP star HD 8441 (2004, Baltic Astronomy 13, 35 with H. Caliskan)
294. The extraordinary photometric changes of the CP2 star HR 7224 (2004, MNRAS, 351, 823)
295. Heavy Element Abundances in Late-B and Early A Stars: I. Coadded IUE Spectra of HgMn Stars (2004, ApJS 155, 179, with C. R. Proffitt, G. M. Wahlgren, D. S. Leckrone, and L. Dolk)
296. uvby FCAPT Photometry of the mCP stars HR 2258, MW Vul, and HR 9017 and the HgMn star 46 ρ Aqr (2004, A&A, in press, with K. J. Young)
297. The Physical Properties of Normal A Stars (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, 1)
298. A Spectral Study of Vega: A Rapidly-rotating Pole-on Star (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, 35, with G. Hill and A. F. Gulliver)
299. The Variable Light Curves of Some mCP Stars (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, 307, with D. M. Pyper)
300. Elemental abundance analyses with the EBASIM spectrograph of the CASLEO Observatory Telescope. I. The normal stars 5 Aqr and 30 Peg (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, AP4, with Z. Lopez-Garcia, S. Malaroda, N. E. Nunez, and M. G. Grosso)
301. A Preliminary Analysis of the Sharp-Lined A3 V Star 95 Leo (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, AP7, with A. Teker and D. Kocer)
302. Elemental Abundances for HgMn Stars Observed with the EBASIM Echelle Spectrograph (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, FP3, with O. I. Pintado)
303. A Spectroscopic Atlas of the Magnetic CP Star HR 8216 (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, FP10, with H. Caliskan and A. F. Gulliver)
304. The Supergiant η Leo (A0Ib) (2004, The A-Star Puzzle, ed. J. Zverko et al., IAU S224, HP2, with T. Tanriverdi and B. Albayrak)
305. The ASTRASpectrophotometer: A July 2004 Progress Report (2004, The A-Star Puzzle, ed. J. Zverko et al., JP2, IAU S 224, with A. F. Gulliver, B. Smalley, J. S. Pazder, P. F. Younger, L. J. Boyd, and D. Epan)
306. The Photosphere and Stellar Wind of Deneb (A2 Ia) in the Far Ultraviolet (2004, Astrophysics in the Far Ultraviolet, in press, with J. P. Aufdenberg, N. D. Morrison, and P. H. Hauschildt)
307. The Abundances of the Fe Group Elements in the Early B Star AV 304 in the Small Magellanic Cloud (Astrophysics in the Far Ultraviolet, in press, with G. J. Peters)
308. Elemental abundance analyses with DAO spectrograms. XXVIII. The hot Am stars θ Leo and α Peg (2004, A&A, almost in press, with A. F. Gulliver and R. Heaton)

PAPERS IN PREPARATION

1. An Low Dispersion IUE Atlas of Field Horizontal A and Related Stars (2004, to be submitted to Baltic Astronomy with A. G. D. Philip and G. M. Sutton)

2. uvby Photometry of the mCP stars HR 6709 & HR 7575, and xxx (to be submitted to A&A with D. Pyper)
3. The S-Type Asymmetric Branch Giant Stars RS CVn, ST Her, OPHer, and HR Peg (2004, submitted to Baltic Astronomy with J. W. Dennis III)
- 4 Elemental abundance analyses with DAO spectrograms. XXIX?. The F supergiants 41 Cyg and v Her
5. Vega II (with G. Hill and A. F. Gulliver)
6. uvby Photometry of the mCP stars 3 Hya, ...

POPULAR ARTICLES

1. Terraforming Venus (1982, Spaceflight 24, 50)
2. The Case for Planetary Engineering (1982, Space World, June-July, p. 29 with B. Adelman)
3. An Antifundamentalist Rejoinder (1990, National Forum, LXXI No. 4, p. 15)
4. Some Thoughts on the Television Production "The Perfect Stargazer" (1991, Robotic Observatories: Present and Future, ed. S. Baliunas and J. L. Richard, Fairborn Press, p. 23)
5. "The Perfect Stargazer-A Viewer's Guide" (1991, distributed by the Astronomical Society of the Pacific, with R. J. Dukes, Jr. and R. M. Genet)
6. Photographic Memories (1998, Astronomy & Geophysics, 39, issue 6, p.255)
7. Dorothy N. Davis Locanthi (2000, Physics Today, 53, No. 4, p. 88, with M. M. Dworetsky)

BOOK

BOUND FOR THE STARS: TRAVEL IN THE SOLAR SYSTEM AND BEYOND (with B. Adelman, Spectrum Books, Prentice-Hall, Inc., 1981)

PROCEEDINGS

- ELEMENTAL ABUNDANCE ANALYSES (coedited with T. Lanz, Institute of Astronomy, University of Lausanne, 1988)
- NEW DIRECTIONS IN SPECTROPHOTOMETRY (coedited with A. G. D. Philip and D. S. Hayes, L. Davis Press, 1988)
- CCDs IN ASTRONOMY II. NEW METHODS AND APPLICATIONS OF CCD TECHNOLOGY (coedited with A. G. D. Philip and D. S. Hayes, L. Davis Press, 1990)
- AUTOMATED TELESCOPES FOR PHOTOMETRY AND IMAGING (coedited with R. J. Dukes, Jr. and C. J. Adelman, ASP Conf. Ser., Vol. 28, 1992)
- HOT STARS IN THE GALACTIC HALO (coedited with A. R. Upgren and C. J. Adelman, Cambridge University Press, 1994)
- ASTROPHYSICAL APPLICATIONS OF POWERFUL NEW DATABASES (coedited with W. L. Wiese, ASP Conf. Ser., 78, 1995)
- M. A. S. S. MODEL ATMOSPHERES AND SPECTRUM SYNTHESIS 5th Vienna-Workshop (coedited with F. Kupka and W. Weiss, ASP Conf. Ser., 108, 1996)
- THE A-STAR PUZZLE (coedited with J. Zverko, W. W. Weiss, J. Ziznovsky, Cambridge University Press, 2005, in press)

REPORTS

1. CP Stars of the Upper Main Sequence (1985, Transactions of the IAU, XIXA, ed. R. M. West, D. Reidel, Dordrecht, p. 370, with D. S. Leckrone)
2. International Conference on Chemically Peculiar Stars of the Upper Main Sequence (1987, Comments in Astrophysics 11, 311 with D. M. Pyper)

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