

**HAROLD ALISTER McALISTER**

**PRESENT ADDRESS:**

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**PERSONAL:**

Born 1 July 1949 at Chattanooga, TN; husband of Susan J. McAlister; father of Merritt Ellen McAlister

**PROFESSIONAL:**

EDUCATION:

B.A. - Physics - *Magna cum Laude* - University of Tennessee at Chattanooga - 1971  
M.A. - Astronomy - University of Virginia - 1974  
Ph.D. - Astronomy - University of Virginia - 1975

POSITIONS HELD:

The Girls Preparatory School Chattanooga, Tennessee	Instructor of Physics 1970-71
University of Virginia Charlottesville, Virginia	Research Assistant 1971-75
Kitt Peak National Observatory Tucson, Arizona	Research Associate 1975-77
Georgia State University Atlanta, Georgia	Assistant Professor 1977-82 Associate Professor 1982-87 Professor 1987-1998 Regents' Professor 1998-2011 Regents' Professor Emeritus 2011-present Director (and founder) of the Center for High Angular Resolution Astronomy 1985-present
Mount Wilson Institute Pasadena, California	Director, Mount Wilson Observatory and Chief Executive Officer, MWI 2003-present

**PROFESSIONAL SOCIETIES:**

American Astronomical Society, International Astronomical Union, Astronomical Society of the Pacific

**MISCELLANEOUS PROFESSIONAL SERVICE ACTIVITIES:**

Elected Vice-President of Commission 26 of the International Astronomical Union (IAU), November 1985.  
Elected President of IAU Commission 26 September 1987.  
Member of the NSF Astronomy Advisory Committee 1983-86.  
Member of the NSF Astronomy Oversight Committee 1984.  
Member of the NSF Presidential Young Investigators Awards Panel for Astronomical, Atmospheric, Earth and  
Ocean Sciences 1984-85.  
Member of the NSF panel charged with the distribution of excess Space Telescope charge coupled devices 1985.  
Member of the elected Scientific Organizing Committee for IAU Commission 26 (Double and Multiple Stars)

1982-85.

- Member of the Scientific Organizing Committees for IAU Colloquium No. 62, *Techniques in Double and Multiple Star Research*, Flagstaff, Arizona, May 1981) and IAU Symposium No. 111, *Calibration of Fundamental Stellar Quantities*, Como, Italy, May 1984).
- Member of the National Optical Astronomy Observatories Committee charged with reviewing the site selection for the National New Technology Telescope (the *Hoag Committee*) 1986.
- Member of the NSF Astronomy Advisory Committee Subcommittee on the National Optical Astronomy Observatories, May 1988.
- Consultant, Time-Life Books, Inc. *Understanding Computers* Series, 1988.
- Member, Interferometry Panel, Survey of Astronomy & Astrophysics of the National Academy of Sciences, 1989-90.
- Chairman, Organizing Committee, Atlanta meeting of the American Astronomical Society held in Atlanta, GA, January 1992.
- Chairman, Scientific Organizing Committee, IAU Colloquium 135, *Complementary Approaches to Double and Multiple Star Research*, held in Pine Mountain, GA, April 1992.
- Member, Users Committee, Kitt Peak National Observatory, 1990-1993.
- Chair, Users Committee, Kitt Peak National Observatory, 1992-1993.
- Member, Warner/Pierce Prizes Committee, American Astronomical Society, 1993-94.
- Chair, Warner/Pierce Prizes Committee, American Astronomical Society, 1993-94.
- Member, Program Committee, SPIE Symposium on *Astronomical Telescopes & Instrumentation for the 21<sup>st</sup> Century*, Kona, Hawaii, March 1994.
- Member, New Millennium Science Working Group (advisory to the Jet Propulsion Laboratory on new concepts in space missions), 1994-96.
- Member, Space Interferometry Mission Science Working Group, (advisory to NASA for the Phase A design of space interferometry mission), 1996-00.
- Member, Board of Trustees, The Mount Wilson Institute, 1996-present.
- Member, Program Committee, SPIE Symposium on *Astronomical Interferometry*, Kona, Hawaii, March 1998.
- Member, Keck Interferometer Science Steering Group, (Advisory to NASA), 1998-present
- Member, ORIGINS Subcommittee of the NASA Space Science Advisory Committee, 1998-2001
- Member, Publications Board, Astronomical Society of the Pacific, 1997-2000.
- Chair, Local Organizing Committee, 195<sup>th</sup> Meeting of the American Astronomical Society, Atlanta, January 2000.
- Member, NASA's Space Interferometry Mission External Review Board, Spring 2001.
- Chair, Review Panel for NSF Astronomy Major Research Instrumentation Program, May 2001
- Chair, Review Panel for NASA Extra-Solar Planets Advanced Mission Concepts, December 2001
- Member, Executive Committee, IAU Working Group on Interferometry, 2001 - 2006
- Member, External Advisory Board, NSF Center for Adaptive Optics at UC Santa Cruz, 2002 - present
- Member, Oversight Committee, NASA/JPL Michelson Science Center, located at the California Institute of Technology, 2004 - present
- Member, Working Group on the Preservation of Astronomical Heritage, American Astronomical Society, 2007-present
- Member, Electromagnetic Observations from Space Program Prioritization Panel, National Academy of Sciences, Decadal Review of Astronomy and Astrophysics
- Member, Sagan Fellowship Selection Panel, NASA Exoplanet Science Institute, 2009-2010
- Member, NASA Kepler Mission Review Panel, June 2010.
- Chair, Lowell Observatory Visiting Committee, September 2013

#### MISCELLANEOUS INSTITUTIONAL SERVICE ACTIVITIES

- Founder, Center for High Angular Resolution Astronomy, 1984.
- Member, Departmental Promotion and Tenure Committee, 1987, 1988 (chair), 1989 (chair).
- Member, Departmental Executive Committee, 1990, 1994-97.
- Director, Astronomy Graduate Studies, 1992-1994.
- Member, Selection Committee for CIS Eminent Scholar, College of Business Administration, 1987.
- Member, Presidential Inauguration Commission, 1989.
- Member, Presidential Task Force on Enrollment, 1990-91.
- Member, Dean's Advisory Committee on promotion and Tenure, College of Arts and Sciences, 1992-93.

Member, Dean's Ad Hoc Committee on Student Grievances, College of Arts and Sciences, 1993.  
Chair, Hard Labor Creek Observatory Council, 1995-96.  
Member, Presidential Scholarship Selection Committee, 1997-present.  
Member, Awards committee, College of Arts & Sciences, 1997-98.  
Member, Dean's Advisory Committee on Promotion & Tenure, 1999-01.  
Member, University Web Page Committee, 2001-02.  
Chair, University Awards Committee, 2002.  
Member, Ad Hoc Committee on Misconduct in Research, Fall 2002 - Winter 2003  
Member, Faculty Peer Review Committee for Internal University Grants, 2002 - 2005  
Member, Amos Professor Selection Committee, 2003  
Member, Regents' Professors Selection Committee, 2003-present  
Member, Dean's Review Committee, COAS, 2004 - 2005  
Member, University Senate, 2004-2006  
Member, University Branding Committee, 2006-present  
Member, Departmental Academic Program Review Committee, 2007-08  
Member, University Second Century Initiative Review Committee, 2009  
Member, Departmental Action Plan Committee, 2010  
Chair, Second Century Initiative Astrophysics Team, 2011

#### MISCELLANEOUS HONORS

Designated one of the "top 40 Under Age 40" in Atlanta by *Atlanta Magazine* 1985.  
Outstanding Faculty Research Award, Golden Key National Honor Society, GSU 1986.  
Elected from GSU faculty to membership in Phi Kappa Phi Honor Society.  
Elected from GSU faculty to membership in Blue Key National Honor Fraternity, 1994.  
Outstanding Faculty Award, GSU College of Arts and Sciences, 1992.  
GSU Alumni Distinguished Professor Award, 1996.  
Commencement Speaker, University of Tennessee at Chattanooga, May , 2001  
Maria and Eric Mulhmann Award, Astronomical Society of the Pacific, 2007  
Distinguished Alumnus Award, University of Tennessee at Chattanooga, 2008  
Double Star Award (with Susan McAlister), Los Angeles Astronomical Society, 2009  
Clifford W. Holmes Award (with Susan McAlister), RTMC Astronomy Expo, 2010  
Doctoral Hooding Ceremony Speaker, Georgia State University, 2010  
Centennial Speaker, Georgia State University, 2013

#### INVITED PRESENTATIONS (Since 2000)

Atlanta Astronomy Club, (Featured Speaker), Atlanta, GA, 18 Feb 2000.  
Meritorious Awards Achievement Banquet Sponsored (Featured Speaker), Cartersville, GA, 16 Mar 2000.  
Clemson University, Invited Colloquium, Clemson, SC, 20 Apr 2000.  
NSF Astronomy Division, Invited Presentation, Washington, DC 31 Aug 2000.  
Carnegie Observatories, Invited Colloquium, Pasadena, CA 17 Oct 2000.  
Astronomy Dept., Univ. of Virginia, Invited Colloquium, Charlottesville, VA, 29 Nov 2000.  
Physics & Astronomy Dept., Univ. of Alabama, Invited Colloquium, Tuscaloosa, AL, 5 Dec 2001.  
Midtown Atlanta Rotary Club, Luncheon Speaker, Atlanta, GA, 12 Feb 2002.  
Downtown Kiwanis Club, Breakfast Speaker, Atlanta, GA, 18 Jun 2002.  
Physics Department, Emory University, Atlanta, GA, 24 Oct 2003.  
Physics Department, University of Massachusetts, Dartmouth, MA, 26 Apr 2004  
Physics Department, West Georgia College and State University, 18 Mar 2005  
Southern Star Party, Wildacres, NC, 13 May 2005  
Atlanta Astronomy Club, (Featured Speaker), Atlanta, GA, 16 Sep 2005  
Weinman Mineral Museum, (Featured Speaker), Cartersville, GA 2 Feb 2006  
Presentation to Members of USGa Board of Regents, Pasadena, CA 20 Apr 2006  
Mount Wilson Observatory Association, (Featured Speaker), Sierra Madre, CA 9 Jun 2006  
Chattanooga Engineers Club, (Luncheon Speaker), Chattanooga, TN 12 Jun 2006

College of Optical Science, University of Arizona, (Colloquium Speaker), Tucson, AZ 9 Nov 2006  
Atlanta Retired Physicians Book Club, (Luncheon Speaker), Sandy Springs, GA 12 Jun 2007  
Green Bank Star Quest (Keynote speaker), Green Bank, WV 7 Jul 2007  
Physics Department, University of Alabama, (Colloquium Speaker), Huntsville, AL 4 Sep 2007  
Barnard Astronomical Society, (Featured Speaker), Chattanooga, TN, 11 Oct 2007  
Astronomy Department, California Institute of Technology, (Colloquium Speaker), Pasadena, CA 13 Feb 2008  
Institute of Astronomy, Cambridge University, (Colloquium Speaker), Cambridge, England, 13 Mar 2008  
Royal Astronomical Society, (Featured Speaker), London, England, 14 Mar 2008  
School of Physics, Univ. of Sydney, (Invited Speaker & Symposium Summarizer), Australia, 29 May 2008  
Institute for Advanced Study, (Colloquium Speaker), March 2010  
University of Montreal, (Colloquium Speaker), September 2013

#### Ph.D. DISSERTATIONS DIRECTED

*Anderson Mesa, Arizona, as a Site for an Interferometric Array*, Wean-Shun Tsay, July, 1989.  
*Applications of Speckle Interferometry and Speckle Photometry to the Hyades Cluster*, Edmund G. Dombrowski, July 1990.  
*On the Limiting Astrometric Accuracy of Speckle Interferometry*, Ali Al-Shukri, May 1991.  
*Searching for Brown Dwarfs from Submotions of Binaries with Speckle Observations*, Hsieh-Hai Fu, August 1994.  
*Speckles and Shadow Bands*, Brian D. Mason, December 1994.  
*Remote Operation of the CHARA Array*, Thomas Fallon, May 2003.  
*Inspection of Extrasolar Planetary Systems Using the CHARA Array*, Ellyn K. Baines, June 2007.  
*Applications of Separated Fringe Packets to Binary Star Studies with the CHARA Array*, Christopher Farrington, October 2008.  
*The Habitat of Solar Type Stars*, Deepak Raghavan, April 2009.  
*Sizing up the Stars*, Tabettha Boyajian, July 2009.  
*The Orbits of Self-Calibrating Triple Stars with the CHARA Array*, David O'Brien, May 2011.  
*Rejuvenating the FLUOR Beam Combiner*, Nicholas Jon Scott, December 2013.

#### POST-DOCTORAL SCIENTISTS DIRECTED

Dr. Elaine H. Halbedal (*Ph.D. Northwestern University*), 1978-79.  
Dr. Barbara V. Gaston (*Ph.D. Pennsylvania State University*), 1981-82.  
Dr. Paul C. Schmidtke (*Ph.D. Ohio State University*), 1984.  
Dr. Donald J. Hutter (*Ph.D. Indiana University*), 1984-85.  
Dr. James R. Sowell (*Ph.D. University of Michigan*), 1987-88.  
Dr. Theo A. ten Brummelaar (*Ph.D. University of Sydney*), 1993-96.  
Dr. Brian D. Mason (*Ph.D. Georgia State University*), 1994-96.  
Dr. Laszlo Sturmann (Ph.D., Vanderbilt University), 1996-98.  
Dr. Ellyn K. Baines (*Ph.D., Georgia State University*), 2007-08. (Co-supervised with D. Gies)  
Dr. Tabettha Boyajian (*PhD, Georgia State University*), 2009-12 NASA Hubble Fellow

#### FEDERALLY FUNDED SUPPORT - H.A.M. as PRINCIPAL INVESTIGATOR

##### NATIONAL SCIENCE FOUNDATION

Binary Star Speckle Interferometry (*and renewals*)

(AST 78-01743)	1 Jun 78 - 31 May 80	\$38,900
(AST 80-15781)	1 Jan 81 - 31 Dec 83	\$112,800
(AST 83-14148)	1 Jan 84 - 31 Dec 86	\$179,200
(AST 86-13095)	1 Jan 87 - 31 Dec 89	\$180,000
(AST 89-15324)	15 Jan 90 - 14 Jan 91	\$60,000
(AST 91-41927)	16 Jan 91 - 30 Jun 94	\$127,000
(AST 94-16994)	15 Nov 94 - 14 Nov 97	\$334,500

A Speckle Camera for binary Star Astrometry and Photometry

(AST 79-24587)	1 Apr 80 - 30 Sep 82	\$104,000
A Feasibility Study for Long-Baseline Optical Interferometry		
(AST 84-21304)	15 Dec 85 - 31 May 89	\$261,600
Instrumentation for Binary Star Speckle Interferometry and Photometry		
(AST 79-24576)	1 Aug 88 - 31 Jul 89	\$75,000
IAU Colloquium 135 ( <i>International Conference Support</i> )		
	1 Jan 92 - 31 Dec 92	\$10,000
The CHARA Array		
(AST 90-08941)	1 Jan 92 - 31 May 94	\$485,000
Adaptive Optics Imaging of Binary Stars		
(AST 94-21259)	1 Nov 94 - 31 Oct 96	\$80,000
The CHARA Array		
(AST 94-14449)	1 Oct 94 - 30 Sept 03	\$6,248,015
An Integrated Optics Beam Combiner for the CHARA Array		
(AST 02-33138)	15 Feb 03 - 14 Feb 06	\$18,810
Fundamental Stellar Parameters from the CHARA Array		
(AST 03-07562)	1 Oct 03 - 30 Sep 06	\$755,867
(AST 06-06958)	10 Jul 06 - 30 Jun 10	\$706,178
(AST 09-08253)	1 Oct 09 - 30 Sep 12	\$894,115
(AST 12-11129)	1 Aug 12 - 31 Jul 17	\$1,512,116
Reinvigorating Mount Wilson Observatory		
(AST-09-63172)	1 Oct 10 - 30 Sep 13	\$1,487,837

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

Astronomical Observations by Speckle Interferometry		
(AFOSR 81-0161)	1 Jun 81 - 30 Nov 85	\$330,145
Super-Diffraction Limited Measurements Through the Turbulent Atmosphere by Speckle Interferometry		
(AFOSR 85NP212)	15 May 86 - 14 May 89	\$159,415

DoD - UNIVERSITY RESEARCH INSTRUMENTATION

Image Processing Instrumentation for Astronomical Speckle Interferometry		
(AFOSR 83-0257)	1 Aug 83 - 31 Jul 84	\$175,035

SPACE TELESCOPE SCIENCE INSTITUTE

A Pilot Survey for Duplicity Among Space Telescope Guide Stars		
(STScI P-1849)	8 Mar 85 - 30 Sep 85	\$28,700
Hubble Fellowship for Tabettha S. Boyajian		
(HST-HF-51252)	1 Sep 09 - 30 Aug 11	\$210,336

U.S. NAVAL OBSERVATORY - NAVAL RESEARCH LABORATORY

A High-Speed Video Digitizing System for Binary Star Speckle Interferometry		
	1 Nov 86 - 31 Oct 87	\$10,859

*TOTAL FEDERALLY FUNDED SUPPORT* *\$14,483,928*

**SUPPORT FROM PRIVATE FOUNDATIONS - H.A.M. as PRINCIPAL INVESTIGATOR**

W. M. KECK FOUNDATION

A Sixth Telescope for the CHARA Array (Jul 1998)		\$1,500,000
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DAVID AND LUCILE PACKARD FOUNDATION

*TOTAL PRIVATELY FUNDED SUPPORT* \$2,074,000

**Total Extramural Support** \$16,657,928

## REFEREED PUBLICATIONS

1. *Possible Nearby F and G Dwarfs*, H.A. McAlister and P.A. Ianna, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **86**, 769, (1974).
2. *Parallaxes of 20 Stars from Plates Taken with the McCormick 26-inch Refractor*, P.A. Ianna and H.A. McAlister, THE ASTRONOMICAL JOURNAL, **79**, 1314, (1974).
3. *On the Temperature Dependence of Scale for the 26-inch McCormick Refractor*, H.A. McAlister, P.A. Ianna, and L.W. Frederick, THE ASTRONOMICAL JOURNAL, **79**, 1445, (1974).
4. *Spectroscopic Binaries as a Source for Astrometric and Speckle Interferometric Studies*, H.A. McAlister, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **88**, 317, (1976).
5. *Speckle Interferometry of  $\eta$  Orionis*, H.A. McAlister, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **88**, 957, (1976).
6. *Speckle Interferometry of the Hyades Spectroscopic Binary 51 Tauri*, H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **212**, 459, (1977).
7. *On the Distance of the Hyades*, H.A. McAlister, THE ASTRONOMICAL JOURNAL, **82**, 487, (1977).
8. *Speckle Interferometry as a Method for Detecting Nearby Extra-Solar Planets*, H.A. McAlister, ICARUS, **30**, 789, (1977).
9. *Speckle Interferometric Measurements for binary Stars. I.*, H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **215**, 159, (1977).
10. *Masses and Luminosities for the Spectroscopic/Speckle Interferometric Binary 12 Persei*, H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **223**, 526, (1978).
11. *Binary Stars Unresolved by Speckle Interferometry*, H.A. McAlister, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **90**, 288, (1978).
12. *Speckle Interferometric Measurements of Binary Stars. II.*, H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **225**, 932, (1978).
13. *Speckle Interferometric Measurements of Binary Stars. III.*, H.A. McAlister and K.A. DeGioia, THE ASTROPHYSICAL JOURNAL, **228**, 493, (1979).
14. *The Kitt Peak Speckle Camera*, J.B. Breckinridge, H.A. McAlister, and W.G. Robinson, APPLIED OPTICS, **18**, 1034, (1979).
15. *Speckle Interferometric Measurements of Binary Stars. IV.*, H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **230**, 497, (1979).

16. *Speckle Interferometry of the Spectroscopic Binary 17 Cephei A*, H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **236**, 522, (1980).
17. *Speckle Interferometric Measurements of Binary Stars. V.*, H.A. McAlister and F.C. Fekel, THE ASTROPHYSICAL JOURNAL SUPPLEMENT, **43**, 327, (1980).
18. *Speckle Interferometry of the Spectroscopic/Astrometric binary  $\alpha$  Draconis*, H.A. McAlister, THE ASTRONOMICAL JOURNAL, **85**, 1265, (1980).
19. *Binary Stars Unresolved by Speckle Interferometry. II.*, H.A. McAlister and E.M. Hendry, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **93**, 221, (1981).
20. *The Apparent Orbit of Capella*, H. A. McAlister, THE ASTRONOMICAL JOURNAL, **86**, 795, (1981).
21. *Speckle Interferometry of  $\tau$  Persei*, H.A. McAlister, THE ASTRONOMICAL JOURNAL, **86**, 1397, (1981).
22. *Speckle Interferometric Measurements of Binary Stars. VI.*, H.A. McAlister and E.M. Hendry, THE ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, **48**, 273, (1982).
23. *Masses and Luminosities for the Giant Spectroscopic/ Speckle Interferometric Binaries  $\phi$  Cygni and  $\gamma$  Persei*, H.A. McAlister, THE ASTRONOMICAL JOURNAL, **87**, 563, (1982).
24. *Speckle Interferometric Measurements of Binary Stars. VII.*, H.A. McAlister and E.M. Hendry, THE ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, **49**, 267, (1982).
25. *Speckle Interferometric Measurements of Binary Stars. VIII.*, H.A. McAlister, E.M. Hendry, W.I. Hartkopf, B.G. Campbell, and F.C. Fekel, THE ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, **51**, 309, (1982).
26. *Speckle Interferometry of the Spectroscopic Binary 94 Aquarii A*, H.A. McAlister and W.I. Hartkopf, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **94**, 832, (1982).
27. *The Optical Variability and Spectrum of PKS 2155-304*, H.R. Miller and H.A. McAlister, THE ASTROPHYSICAL JOURNAL, **272**, 26, (1983).
28. *The True Nodal Quadrant of Capella*, W.G. Bagnuolo and H.A. McAlister, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **95**, 992, (1983).
29. *Standard Stars for Binary Star Interferometry*, H.A. McAlister and W.I. Hartkopf, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **95**, 777, (1983).
30. *Speckle Interferometric Measurements of Binary Stars. IX.*, H.A. McAlister, W.I. Hartkopf, B. Gaston, E.M. Hendry, and F.C. Fekel, THE ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, **54**, 251, (1984).
31. *Binary Stars Unresolved by Speckle Interferometry III.*, W.I. Hartkopf and H.A. McAlister, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **96**, 105, (1984).
32. *The R Aquarii System at Optical and Radio Wave lengths*, J.M. Hollis, M. Kafatos, A.G. Michalitsianos, and H.A. McAlister, THE ASTROPHYSICAL JOURNAL LETTERS, **289**, 765-773, (1985).
33. *On Wolf-Rayet Stars with Unstilted Absorption Lines*, A.F.J. Moffat, R. Lamontagne, M.M. Shara, and H.A. McAlister. THE ASTRONOMICAL JOURNAL, **91**, 1392, (1986).
34. *ICCD Speckle Observations of Binary Stars I. A Survey for Duplicity Among the Bright Stars*, H.A. McAlister, W.I.

- Hartkopf, D.J. Hutter, M. Shara, and O.G. Franz, THE ASTRONOMICAL JOURNAL, **93**, 183, (1987).
35. *The Fraction of Close Binaries Among Hubble Space Telescope Guide Stars - Operation Consequences, Workarounds, and Suggestions for Designers of Future Space Observatories*, M.M. Shara, R. Doxsey, E.N. Wells, and H.A. McAlister, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **99**, 223, (1987).
  36. *ICCD Speckle Observations of Binary Stars. II. Measurements During 1982-1985 From the Kitt Peak 4 m Telescope*, H.A. McAlister, W.I. Hartkopf, D.J. Hutter, and O.G. Franz, THE ASTRONOMICAL JOURNAL, **93**, 688, (1987).
  37. *The Orbit of the Speckle and Double-Lined Spectroscopic Binary  $\alpha$  Draconis*, J. Tomkin, H.A. McAlister, W.I. Hartkopf, and F.C. Fekel, THE ASTRONOMICAL JOURNAL, **93**, 1236, (1987).
  38.  *$\gamma$  Persei - Not Over Massive But Over Luminous*, D.M. Popper and H.A. McAlister, THE ASTRONOMICAL JOURNAL, **94**, 700, (1987).
  39. *ICCD Speckle Observatory of Binary Stars. III. A Survey for Duplicity Among High Velocity Stars*, P.K. Lu, P. Demarque, W. van Altena, H.A. McAlister, and W.I. Hartkopf, THE ASTRONOMICAL JOURNAL, **94**, 1318, (1987).
  40. *Binary Star Orbits from Speckle Interferometry. I. The Hyades Binary Finsen 342 (70 Tauri)*, H.A. McAlister, W.I. Hartkopf, W.G. Bagnuolo, Jr., J.R. Sowell, O.G. Franz, and D.S. Evans, THE ASTRONOMICAL JOURNAL, **96**, 1431, (1988).
  41. *ICCD Speckle Observatory of Binary Stars. IV. Measurements During 1986 From the Kitt Peak 4-m Telescope*, H.A. McAlister, W.I. Hartkopf, J.R. Sowell, E.G. Dombrowski and O.G. Franz, THE ASTRONOMICAL JOURNAL, **97**, 510, (1989).
  42. *Binary Star orbits from Speckle Interferometry. II. Combined Visual/ Speckle Orbits of 28 Close Systems*, W.I. Hartkopf, H.A. McAlister, and O.G. Franz, THE ASTRONOMICAL JOURNAL, **98**, 1014, (1989).
  43. *ICCD Speckle Observations of Binary Stars. V. Measurements During 1988-1989 from the Kitt Peak and the Cerro Tololo 4-m Telescopes*, H.A. McAlister, W.I. Hartkopf, and O.G. Franz, THE Astronomical Journal , **99**, 965, (1990).
  44. *Astrometric-Spectroscopic Binary Star Orbits. IV. Beta Corona Borealis*, K. Kamper, H.A. McAlister, and W.I. Hartkopf, THE ASTRONOMICAL JOURNAL, **100**, 239,(1990).
  45. *Anderson Mesa, Arizona, As a Site for An Interferometric Array*, W.S. Tsay, W.G. Bagnuolo, H.A. McAlister, N.M. White, and F.F. Forbes, PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, **102**, 1339, (1990).
  46. *The orbit of the Spectroscopic/Speckle Astrometric Binary ADS 784 W.A. Cole*. F.C. Fekel, W.I. Hartkopf, H.A. McAlister, and J. Tomkin, THE ASTRONOMICAL JOURNAL, **103**, 1357, (1992).
  47. *Absolute quadrant from Speckle Observations of Binary Stars*, W.G. Bagnuolo, B.D. Mason, D.J. Barry, W.I. Hartkopf, and H.A. McAlister, THE ASTRONOMICAL JOURNAL, **103**, 1399, (1992).
  48. *The Orbit of the Spectroscopic/Speckle Interferometric Binary Eta Virginis*, W.I. Hartkopf, H.A. McAlister, and F.C. Fekel, THE ASTRONOMICAL JOURNAL, **103**, 1976, (1992).
  49. *ICCD Speckle Observations of Binary Stars. VI. Measurements During 1990 from the Kitt Peak 4-m Telescope*, W.I. Hartkopf, H.A. McAlister, and O.G. Franz, THE ASTRONOMICAL JOURNAL, **104**, 810, (1992).
  50. *Binary Star Orbits from Speckle Interferometry. IV. The Old Disc Population Star HR 1071*, H.A. McAlister, W.I. Hartkopf, and B.D. Mason, THE ASTRONOMICAL JOURNAL, **104**, 1961, (1992).



51. *ICCD Speckle Observations of Binary Stars. VII. A Speckle Duplicity Survey of the Hyades Cluster*, B.D. Mason, H.A. McAlister, W.I. Hartkopf, & W.G. Bagnuolo, THE ASTRONOMICAL JOURNAL, **105**, 220, (1993).
52. *ICCD Speckle Observations of Binary Stars. VIII. Measurements During 1989 - 1990 from the Cerro Tololo 4-m Telescope*, W.I. Hartkopf, B.D. Mason, D.J. Barry, H.A. McAlister, W.G. Bagnuolo, and C. Prieto, THE ASTRONOMICAL JOURNAL, **106**, 1639, (1993).
53. *ICCD Speckle Observations of Binary Stars. IX. A Duplicity Survey of the Pleiades, Praesepe, and IC 4665 Clusters*, B.D. Mason, W.I. Hartkopf, H.A. McAlister, and M.M. Shara, THE ASTRONOMICAL JOURNAL, **103**, 637, (1993).
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79. *Binary Star Astrophysics*, H.A. McAlister, invited presentation at the symposium on “SUSI: Past, Present and Future” in honor of John Davis’ 75<sup>th</sup> year, University of Sydney, Sydney, Australia, 29 May 2008.