Curriculum Vita

S. Alan Stern

Associate Administrator,
Science Mission Directorate

National Aeronautics and Space Administration
NASA Headquarters
300 E Street SW
Washington, DC 20546-0001
(202) 358-3889
alan.stern@nasa.gov

Personal: Born: 22 November 1957, New Orleans, Louisiana. Married (three children).

Education:

- B.S. 1978 University of Texas (Physics)
- M.S. 1980 University of Texas (Aerospace Engineering)
- B.A. 1981 University of Texas (Astronomy)
- M.S. 1981 University of Texas (Planetary Atmospheres)
- PhD. 1989 University of Colorado (Astrophysics and Planetary Science)
  Dissertation: The Evolution and Detectability of Comets in Oort Clouds

Professional Appointments:

- 1979,1980 Summer Intern, NASA Johnson Space Center
- 1982-1983 Systems Engineer, Martin Marietta Aerospace
- 1983-1986 Spacecraft/Instrument Engineer, Laboratory for Atmospheric and Space Physics, University of Colorado
- 1986-1987 Assistant Director, Office of Space Science and Technology, University of Colorado
- 1987-1988 Assistant to the Vice President for Research, University of Colorado
- 1988-1991 Research Fellow, Center for Space & Geosciences Policy, University of Colorado
- 1989-1990 Research Associate, Laboratory for Atmospheric and Space Physics, University of Colorado
- 1990-1991 Research Associate, Center for Astrophysics and Space Astronomy
- 1991-1992 Principal Scientist, Space Science Department, Southwest Research Institute
- 1992-1997 Section Manager, Space Science Department, Southwest Research Institute
- 1998-2005 Department Director, Southwest Research Institute
- 2004-2007 Executive Director, Space Science and Engineering Division, Southwest Research Institute
- 2007- Associate Administrator, Science Mission Directorate, National Aeronautics and Space Administration

Professional Societies: American Association for the Advancement of Science (AAAS), American Astronomical Association (AAS), American Geophysical Union (AGU), International Astronomical Union (IAU), Aircraft Owners and Pilots Association (AOPA).

Interests: Flying (Commercial Pilot and Flight Instructor, Instrument Rated, Sailplane Rated), Photography, Scuba, Snow Skiing, Hiking, Writing, Gardening.

Clearances: DOD Top Secret; EBI (inactive)

Honors: Summa Cum Laude (1977); Magna Cum Laude (1978); Nominated Outstanding Student Leader (1978), Physics Salutatorian (1978); Sigma Gamma Tau (1979); Zeta Beta Tau social fraternity; Student Senate (1977-78); Natural Sciences Council (1978); President, Society of Physics Students (1978); Sigma Pi Sigma (1981); Who's Who in American Engineering (1982-1987); Who's Who in the West (1991); National Space Society: 25 Young Leaders in Space (1994). NASA Goddard Space Flight Center Special Act Group Achievement Award to the ASTRO/Spacelab Ultraviolet Imaging Team (UIT) Team (1995). Asteroid (6373) Stern named by IAU (1996). Discover Magazine Citation for Pluto Mapping as One of the Top 100 Science Stories of 1996 (1996).

Awards:

- 1983 Martin Marietta New Design Innovation Award
- 1984 Solar Max Repair Mission Recognition Award
- 1988-1989 NASA Graduate Fellowship
- 1988-1990 University of Colorado Graduate Fellow
- 1996: Asteroid 6376 named Stern by IAU
- 1998: NASA/JPL Recognition Award for Significant Software Development, "UV Spectral Analyzer"
- 1998: NASA/JPL Recognition Award for the NASA Tech Brief, "Satellite Detector"
- 2001: Aviation Week Laurel Honoree for Efforts to Initiate a NASA Pluto Mission
- 2002: Appointment as Full Professor Adjunct, University of Colorado, Astrophysical and Planetary Sciences Department.
- NASA Hale-Bopp Sounding Rocket Campaign Group Achievement Award (1998)
- NASA New Millennium Deep Space-1 Mission Group Achievement Award (2002)
- NASA Rosetta Group Achievement Award (2005)

Scientific Mission/Instrument Experience:

- Principal Investigator, New Horizons Pluto-Kuiper Belt Mission
- Principal Investigator: Alice UV Spectrometer on New Horizons
- Principal Investigator: Ralph Imager/IR Spectrometer on New Horizons
- Principal Investigator, Lunar Recon Orbiter Lyman-Alpha Mapping (LAMP) Experiment
- Principal Investigator, Rosetta/ALICE UV Spectrometer
- Principal Investigator, Pluto Fast Flyby Prototype Payload: HIPPS
- Principal Investigator, Space Shuttle CHAMP Mid-deck Experiment (STS-24, 25)
- Principal Investigator, Space Shuttle SWUIS Mid-deck Experiment (STS-85, STS-93)
- Principal Investigator, EUVS Research Rockets (36.117, 36.121, 36.137, 36.148, 36.155)
- Principal Investigator, BDPR Research Rockets (36.201, 36.210)
- Principal Investigator, F-18 Airborne Occultation Experiments (1998-2002)
- Principal Investigator, WB-57 Airborne Imaging Campaign (1997)
- Principal Investigator, SWUIS SR-71 Airborne Experiment (1993)

- Co-Investigator, SPICAV Venus Express UV Spectrometer
- SPICAM Mars Express UV Spectrometer Experiment
- Co-Investigator, Hubble Space Telescope Cosmic Origins Spectrograph
- Co-Investigator, Planetary Research Rockets (27.109, 27.136)
- Co-Investigator, SWUIS F-18 Airborne Vulcanoid Search Campaign (2001-2002)
- Collaborating Scientist, Research Rockets (27.088, 27.096, 33.074)
- Science Team Member, New Millennium Deep Space 1 Asteroid/Comet Mission
- Project Scientist, UV Auroral Research Rocket (33.039)
- Project Scientist, Spartan-Halley Spacecraft (STS-25)
- Guest Investigator PI, International Ultraviolet Explorer (IUE), Hubble Space Telescope (HST), Infrared Space Observatory (ISO), Extreme Ultraviolet Explorer (EUVE).

Committee Activities:

- 1988-1989 Sloan Foundation Workshops on Space Policy
- 1989-1990 Technical Committee for the 4-meter SOAR Telescope
- 1989-1990 NASA Discovery Program Science Working Group
- 1989-1992 American Astronomical Society Astronomy News Committee
- 1990 Program Committee, 17th Meeting of the American Astronomical Society DPS
- 1990-1993 NASA Lunar Exploration Science Working Group
- 1990-1993 NASA Origins of Solar Systems, Proposal Review Panel
- 1990-1992 American Astronomical Society Harlow Shapley Lecturer
- 1991-1994 Chair, NASA Outer Planets Science Working Group
- 1992 JPL Committee on Future Small Planetary Missions
- 1992 Chair, Hubble Space Telescope Planetary Telescope Allocation Committee
- 1992-1994 NASA Solar System Exploration Subcommittee (SSES)
- 1994 Member, Program Committee, 21st Meeting of the American Astronomical Society DPS
- 1994-1995 Member, NASA New Millennium Science Working Group
- 1994-1996 Member, NASA Outer Planets Science Working Group
- 1995-1999 Member, NASA Suborbital Research Working Group
- 1998-2000 Member, Nominating Committee, American Astronomical Society DPS
- 1998-2001 Co-Chair, Local Organizing and Program Committees, DPS 2001 Meeting
- 2000 Member, NASA Outer Solar System Senior Survey Team
- 2001 Chair, Nominating Committee, American Astronomical Society DPS
- 2001-2002 Member, National Academy Solar System Exploration Decadal Survey Panel
- 2002- Member, Advisory Board, University of Colorado Department of Astrophysics and Planetary Sciences
- 2002- Member, Advisory Board, Astronomy Magazine
- 2002-2003 Member, NSF NOAO LSST Science Working Group
- 2003-2007 Member, AAAS Astronomy Section Steering Committee
- 2004-2006 Member, DPS Federal Relations Subcommittee

Technical Editorships:

- 1989 Guest Editor, Geophysical Research Letters, Special Issue on Pluto
- 1990 Guest Editor, Geophysical Research Letters, Special Issue on Lunar Exploration
- 1993-1997 Editor, University of Arizona Space Science Series, Pluto and Charon, 1997
- 1996- Science Advisor, Earth & Sky radio program (Byrd and Block Communications, Austin, Texas).
- 1996 Editor, JGR-Planets Special Section on The Detection and Study of Extra-Terrestrial Earthlike Planets.
- 1996 Editor, The Search for Extra-Solar Earthlike Planets: Techniques & Technology, (J. M. Shull, H.A. Thronson, & S.A. Stern, eds.), Kluwer.

Published Technical Papers

1. A Test of the Non-Radial Pulsation Hypothesis with Simulated Line Profile Variations. S.A. Stern and M.A. Smith, The Astronomical Journal, 84, 1979.

2. Orbital Navigation Officer Flight Procedures Handbook. S.A. Stern, NASA Johnson Space Center, FM8-79-299, 1979.

3. Extravehicular Point to Point Transfers in the Vicinity of Large Space Structures. S.A. Stern, Masters Thesis, University of Texas, 1980.

4. Theoretical Investigations of the Atmospheric Environment of Pluto. S.A. Stern, Masters Thesis, University of Texas, 1981.

5. An Optimal Speed for Traversing a Constant Rain. S.A. Stern, American Journal of Physics, 51, 1983.

6. On the Global Distribution of Pluto's Atmosphere. L.M. Trafton and S.A. Stern, The Astrophysical Journal, 267, 1983.

7. Guidance and Navigation in the Space Station Era. S.A. Stern, Astronautics and Aeronautics, 22, 1984.

8. A Rectilinear Guidance Strategy for Short Orbital Transfers. S.A. Stern, Journal of Spacecraft and Rockets, 21, 1984.

9. An Alternative Space Station Resupply Mode. S.A. Stern, Journal of Astronautical Sciences, 32, 1984.

10. The Spartan-Halley Mission. C.A. Barth, S.A. Stern, and I.A.F. Stewart, International Halley Watch Bulletin, 1985.

11. Extravehicular Transfers in the Vicinity of Large Space Structures. S.A. Stern and W. Fowler, Journal of Spacecraft and Rockets, 22, 1985.

12. Piggybacking Payloads Aboard Shuttle Solid Rocket Boosters. S.A. Stern and F.I. Tallentire, Journal of Spacecraft and Rockets, 22, 1985.

13. The Spartan Mission. C.A. Barth, S.A. Stern, and A.I.F. Stewart, Space Missions to Halley's Comet and the Interagency Consultive Group, ESA SP-1066, 1985.

14. Operational Implications for Path Constrained Rendezvous. S.A. Stern and K.M. Soileau, Proceedings of the Guidance Navigation and Control Conference, 1985.

15. The Effects of Mechanical Interaction Between the Interstellar Medium and Comets. S.A. Stern, Icarus, 68, 1986.

16. Path Constrained Rendezvous: Necessary and Sufficient Conditions. K.M. Soileau and S.A. Stern, Journal of Spacecraft and Rockets, 23, 1986.

17. Extra-Solar Oort Cloud Encounters and Planetary Impact Rates. S.A. Stern, Icarus, 62, 1987.

18. An Approach to Conducting Autonomous Observations of Non-Trackable Objects Utilizing the Spartan Spacecraft. J.G. Watzin, S.A. Stern, and N.W. White, Proceedings of the 10th Annual AAS Guidance and Control Conference, 1987.

19. Single-Impulse Transfers Are Inadequate for Path Constrained Rendezvous. S.A. Stern and K. M. Soileau, AIAA J. Spacecraft and Rockets, 24, 1987.

20. Pluto-Charon: Implications of Bouet's Empirical Relation. S.A. Stern, Journal of the Royal Astronomical Society of Canada, 81, 1987.

21. The Influence of Supernovae and Passing Stars on the Evolution of Comets, S.A. Stern and J.M. Shull, Nature, 322, 1988.

22. Observationally Consistent Constraints on Pluto's Density and Composition. S.A. Stern, Icarus, 73, 1988.

23. Groundbased CCD Observations of Venus: 1986-1987. S.A. Stern, L.W. Esposito, and E.S. Barker, LASP Report 425, 1988.

24. Collisions in the Oort Cloud. S.A. Stern, Icarus, 73, 1988.

25. The Pluto-Charon System: The Escape of Charon's Primordial Atmosphere. L.M. Trafton, S.A. Stern, and G.R. Gladstone, Icarus, 74, 1988.

26. Why is Pluto Bright? Implications of the Albedo and Lightcurve Behavior of Pluto. S.A. Stern, L.M. Trafton, and G.R. Gladstone, Icarus, 74, 1988.

27. Future Observations of and Missions to Mercury. S.A. Stern and F. Vilas, Mercury, University of Arizona Press (F. Vilas & C. Chapman, eds.), 1988.

28. Processes Affecting Cometary Evolution in the Oort Cloud, S.A. Stern and J.M. Shull, Proceedings of the Space Telescope Science Institute Workshop on the Formation of Planetary Systems, 1988.

29. Implications for Volatile Release from Object 2060 Chiron. S. A. Stern, Proceedings of the Astronomical Society of the Pacific, 101, 1989.

30. The UV Spectrum of Pluto: IUE Observations from 2600-3100 Å. S.A. Stern, T.E. Skinner, N. Brosch, J. van Santvoort, and L.M. Trafton, The Astrophysical Journal, 342, 1989.

31. The First UV Spectrum of Triton: IUE Observations from 2600-3200 Å. S. A. Stern, T.E. Skinner, N. Brosch, J. Van Santvoort, and L.M. Trafton, Astrophysical Journal Letters, 341, 1989.

32. Pluto: Comments on Crustal Composition, Evidence for Global Differentiation. S.A. Stern, Icarus, 81, 1989.

33. Mars Tethered Sample Return, S.A. Stern, Journal of Spacecraft and Rockets. 26, 1989.

34. Estimated Escape Rates and Radiative Time Constants for Triton's Atmosphere. S.A. Stern, Geophysical Research Letters, 16, 1989.

35. A New Constraint on the Population of Comets in the 30-50 AU Region. P.R. Weissman, A. Dobrovolskis, and S.A. Stern, Geophysical Research Letters, 16, 1989.

36. Evolution of Topography on Comets, II. Icy Craters and Trenches. J.E. Colwell, B.M. Jakosky, B.J. Sandor, and S.A. Stern, Icarus, 85, 1990.

37. Demographics of NASA-funded Space Research Principal Investigators, S.A. Stern, R. Konkel, and R. Byerly, Space Policy, 6, 1990.

38. ISM-Induced Erosion and Gas Dynamical Drag in the Oort Cloud. S.A. Stern, Icarus, 84, 1990.

39. External Perturbations on Distant Planetary Orbits and Objects in the Kuiper Disk. S.A. Stern, Celestial Mechanics and Dynamical Astronomy, 47, 1990.

40. The Evolution and Detectability of Comet Clouds During Post Main Sequence Stellar Evolution. S.A. Stern, J.M. Shull, and J.C. Brandt, Nature, 345, 1990.

41. The Influence of Oort Clouds in the Mass and Chemical Balance of the ISM. S.A. Stern and J.M. Shull, The Astrophysical Journal, 359, 1990.

42. On the Number of Interstellar Comets as a Constraint on the Formation Rate of Planetary Systems. S.A. Stern, Proceedings of the Astronomical Society of the Pacific, 102, 1990.

43. The First UV Spectrum of a Uranian Satellite: IUE Observations of Oberon from 2650-3200 Å. S.A. Stern, M.C. Festou, J. van Santvoort, and B.J. Buratti, Astron. J., 100, 1990.

44. A Plan for the Development of Lunar Astronomy. M.V. Sykes, F. Vilas, T.L. Page, H.J. Smith, J.O. Burns, M. Colavita, G. Snyder, S.A. Stern, and D.L. Talent. In Astrophysics from the Moon (M.I. Mumma and H.J. Smith, eds.). American Institute of Physics Conference Proceedings, 207, 1990.

45. An IRAS Search for Extra-Solar Oort Clouds. S.A. Stern, J. Stocke, and P.R. Weissman, Icarus, 89, 1991.

46. The Spectrum of Comet Austin 915-1180 Å. J.C. Green, W. Cash, T.A. Cook, and S.A. Stern, Science, 251, 1991.

47. On the Number of Planets in the Solar System: Evidence of a Substantial Population of 1000-km Bodies. S.A. Stern, Icarus, 91, 1991.

48. Revived Interest in the Lunar Atmosphere. T.H. Morgan and S.A. Stern, Eos, 72, 1991.

49. Rotationally Resolved Mid-Ultraviolet Studies of Triton and the Pluto/Charon System I: IUE Results. S.A. Stern, N. Brosch, E.S. Barker, and G.R. Gladstone, Icarus, 92, 1991.

50. A Search for Distant Satellites of Pluto. S.A. Stern, R.A. Fesen, E.S. Barker, J.Wm. Parker, and L.M. Trafton, Icarus, 94, 1991.

51. Simultaneous Visible and Ultraviolet IUE Observations of 4 Vesta's Light Curve and Reflectance Spectrum. M.C. Festou, S.A. Stern, and J.P. Tozzi, Icarus, 94, 1991.

52. NASA's Space Science Program: The Vision and the Reality. R.M. McCray and S.A. Stern, in Space Policy Alternatives (R. Byerly, ed.), Westview Press, Boulder, Colorado, 1992.

53. And Then There Was One: The Changing Character of NASA's Space Science Flight Program. S.A. Stern and J. Habegger, in Space Policy Reconsidered II (R. Byerly, ed.), Westview Press, Boulder, Colorado, 1992.

54. He and Ar Abundance Constraints and the Thermal History of Comet Austin (1989c1). S.A. Stern, J.C. Green, W. Cash, and T.A. Cook. Icarus, 95, 1992.

55. The Pluto-Charon System, S.A. Stern. Ann. Revs. Astronomy & Astrophysics, 30, 1992.

56. Pluto's Extended Atmosphere: An Escape Model and Initial Observations., J.T. Clarke, S.A. Stern, and L.M. Trafton, Icarus, 95, 1992.

57. A Preliminary Model of the Coma of 2060 Chiron. D.C. Boice, I. Konno, S.A. Stern, and W.F. Huebner. Asteroids, Comets, and Meteors 1991 (E. Bowell and A. Harris, ed.), Lunar and Planetary Institute, Houston, 1992.

58. A CCD Search for Distant Satellites of Asteroids 3 Juno and 146 Lucina. S.A. Stern and E.S. Barker. Asteroids, Comets, and Meteors 1991 (E. Bowell and A. Harris, ed.), Lunar and Planetary Institute, 1992.

59. Jovian Bremsstrahlung X Rays: A Ulysses Prediction. J.H. Waite, D.C. Boice, K.C. Hurley, S.A. Stern, and M. Sommer. Geophysical Research letters, 1992.

60. The Formation and Evolution of Comets. M.I. Mumma, P.R. Weissman, and S.A. Stern. In Protostars and Planets III, University of Arizona Press (E.H. Levy & J.I. Lunine, eds.), 1993.

61. A Strongly UV-Absorbing Surface Constituent on Triton: Detection and Tentative Identification. S.A. Stern. Icarus, 101, 1993.

62. Discrete Particle Simulations Around 2060 Chiron. S.A. Stern, A.A. Jackson, and D.C. Boice. Proceedings of the International Workshop on Distant Cometary Activity (W.H. Huebner & U.H. Keller, eds.), 1993.

63. Numerical Simulations of Particle Orbits Around 2060 Chiron. S.A. Stern, A.A. Jackson, and D.C. Boice. The Astronomical Journal, 107, 1994.

64. Submillimeter Measurements of Pluto: Evidence for a Cold Surface Temperature. S.A. Stern, D.A. Weintraub, and M.C. Festou. Science, 261, 1993.

65. Future Neptune and Triton Missions. S.A. Stern, J.I. Lunine, A.L. Friedlander, and A.F. Cheng. In Neptune and Triton (D. Cruikshank, ed.), University of Arizona Press, Tucson, 1995.

66. A Millimeter-Wave Map of the Collisionally-Evolving Disk Around Fomalhaut (PsA). S.A., Stern, M.C. Festou, and D.A. Weintraub. Nature, 326, 1994.

67. The Edison Infrared Space Observatory and the Study of Extra-Solar Planetary Material. H.A. Thronson, T.G. Hawarden, J. Bally, D. Rapp, and S.A. Stern. Astrophysics and Space Science, 212, 1994.

68. ROSAT Observations of the Jupiter Aurora. J.H. Waite, F. Bagenal, F. Seward, C.Y. Na, G.R. Seward, T.E. Cravens, K.C. Hurley, J.T. Clarke, R. Elsner, and S.A. Stern. Journal of Geophysical Research, 1994.

69. A Reinterpretation of Millimeter Observations of Nearby IRAS Excess Stars. D.A. Weintraub, and S.A. Stern. The Astronomical Journal, 108, 1994.

70. Measure-Jupiter Low-Cost Missions to Explore Jupiter in the Post-Galileo Era. R.A. Wallace, J.A. Ayon, A.L. Lane, C.L. Nunez, C.G. Sauter, D.G. Stevenson, R.A. West, and S.A. Stern. Proc. IAA Conference on Low-Cost Planetary Missions, IAA-L-0406, 1994.

71. The Impactor Flux in the Pluto-Charon System. P.R. Weissman, and S.A. Stern. Icarus, 111, 1994.

72. The Detectability of Extrasolar Terrestrial and Giant Planets During Their Luminous, Final Accretion. S.A. Stern. The Astronomical Journal, 108, 1994.

73. The Ultraviolet Spectrum of Triton from HST: First Results. S.A. Stern and L.M. Trafton. Icarus, 112, 1994.

74. Possible Origin and Early Dynamical Evolution of the Pluto-Charon Binary. H.F. Levison and S.A. Stern. Icarus, 116,1994.

75. Dynamical and Observational Constraints on Satellites in the Inner Pluto-Charon System. S.A. Stern, J.W. Parker, M.J. Duncan, J.C. Snowdall, and H.F. Levison. Icarus, 108, 1994.

76. Gamma Ray Bursts Constraints on the Galactic Frequency of Extra-Solar Oort Clouds. J.M. Shull and S.A. Stern. The Astronomical Journal, 109, 1995.

77. Narrow-Field Imaging of the Lunar Sodium Exosphere. S.A. Stern and B.C. Flynn. The Astronomical Journal, 109, 1995.

78. Rotationally-Resolved Mid-Ultraviolet Studies of Triton II: HST Surface and Atmospheric Results. S.A. Stern, L.M. Trafton, and B.C. Flynn. The Astronomical Journal, 109, 1995.

79. The Hubble Space Telescope Observing Campaign on Comet P/Shoemaker-Levy-9. H.A. Weaver, et al. (13 coauthors). Science, 267, 1995.

80. Rocket EUV/FUV Observations of the Io Plasma Torus During the Shoemaker-Levy 9 Impacts on Jupiter. S.A. Stern, D.C. Slater, E. Wilkinson, W. Cash, J.C. Green, and G.R. Gladstone. Geophysical Research letters, 22, 1995.

81. Collision Rates in the Kuiper Disk and Their Implications. S.A. Stern. The Astronomical Journal, 110, 1995.

82. The Probable Discovery of Halley-Sized Kuiper Belt Objects using HST. A.L. Cochran, H.F. Levison, S.A. Stern, and M.J. Duncan. The Astrophysical Journal, 110, 1995.

83. The Extreme Ultraviolet Spectrograph Sounding Rocket Payload: Recent Modifications for Planetary Observations in the EUV/FUV. D.C. Slater, S.A. Stern, J. Scherrer, W. Cash, J.C. Green, and E. Wilkinson. ``EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy VI," SPIE, 2518, 1995.

84. UV-Visible All-Reflective Design for a Discovery-Class Mission to Study the Lunar Atmosphere and Its Extended Coma. D.C. Slater, T.H. Morgan, G. Dirks, R.N. Smart, and S.A. Stern. Proceedings of The Low-Cost Planetary Missions Conference, IAA-L-0902P, 1996.

85. HST Observations of Mg and Dust in Outburst from Comet Shoemaker-Levy 9. P.D. Feldman, H.A. Weaver, D.C. Boice, and S.A. Stern. Icarus, 121, 1996.

86. Signatures of Collisions in the Kuiper Disk. S.A. Stern. Astronomy & Astrophysics, 310, 1996.

87. The 825--1100 AA EUVS Spectrum of Venus. S.A. Stern, D.C. Slater, G.R. Gladstone, E. Wilkinson, W.C. Cash, J.C. Green, D.M. Hunten, T.C. Owen, and L. Paxton. Icarus, 122, 1996.

88. Collisional Timescales and the Architecture of the Ancient, Massive Kuiper Disk. S.A. Stern. The Astronomical Journal, 112, 1996.

89. Escapees from the Kuiper Disk: The Centaurs. S.A. Stern and H. Campins. Nature, 382, 1996.

90. Rotationally Resolved Spectral Studies of Pluto from 2500 to 4800 Å Obtained with HST. L.M. Trafton and S.A. Stern, The Astronomical Journal, 112, 1996.

91. A Spectroscopic Survey of Metallic Abundances in the Lunar Atmosphere. B.C. Flynn and S.A. Stern. Icarus, 124, 1996.

92. The Spatial Distribution of UV-Absorbing Regions on Triton. B.C. Flynn, S.A. Stern, B. Buratti, P. Shenk, and L.M. Trafton. Planetary and Space Science, 44, 1996.

93. The Development and Status of the Kuiper Disk. ASP Conference Series, 107, Completing the Inventory of the Solar System (T. Rettig, and J.M. Hahn, eds.), 209, 1996.

94. Spacecraft Missions to the Pluto and Charon System. R.J. Terrile, S.A. Stern, R.L. Staehle, S.C. Brewster, J.B. Carraway, P.K. Henry, H. Price, and S.S. Weinstein. In Pluto and Charon, (S.A. Stern & D.J. Tholen, eds.). University of Arizona Press, Tucson, 1997.

95. On The Origin of Pluto, Charon, and the Pluto-Charon Binary. S.A. Stern, W.B. McKinnon, and J.I. Lunine. In Pluto and Charon), (S.A. Stern & D.J. Tholen, eds.), University of Arizona Press, Tucson, 1997.

96. Physical Processing of Cometary Nuclei. P.R. Weissman and S.A. Stern, In Analysis of Returned Comet Nucleus Samples (S. Chang, ed.), NASA-10152, 1997.

97. Modern Lightweight UV Spectrographs for In Situ Studies of the Exosphere and Photo-Ion Population About Mercury. D.C. Slater, T.H. Morgan, and S.A. Stern. Planetary and Space Science, 45, 1997.

98. Autonomy Enables New Science Missions. R.J. Doyle, V. Gor, G.K. Man, P.E. Stolorz, C.R. Chapman, W.J. Merline, and S.A. Stern. Proceedings of the Space Technology and Applications International Forum (STAIF-97), ISBN 1-56396-679-4, American Institute of Physics, Conference Proceedings 387 (Mohammed S. El-Genk, ed.), 1, 1997.

99. HST Images and Maps of Pluto. S.A Stern, M.W. Buie, and L.M. Trafton. The Astronomical Journal, 113, 1997.

100. Observations of Comet Hale-Bopp from the Hubble Space Telescope and the International Ultraviolet Explorer. H.A. Weaver, P.D. Feldman, M.F. A'Hearn, C. Arpigny, J.C. Brandt, M.C. Festou, M. Haken, J.B. McPhate, S.A. Stern, and G.P. Tozzi, Science, 275, 1997.

101. An HST Search for Magnesium in the Lunar Atmosphere. Stern, S.A., J.W. Parker, T.H. Morgan, B.C. Flynn, D. Hunten, A. Sprague, M. Mendillo, and M.C. Festou. Icarus, 127, 1997.

102. On the Accretion of 100--1000 km Radius Bodies in the Edgeworth-Kuiper Belt. S.A. Stern and J.E. Cowell. Astronomical Journal, 114, 1997.

103. Millimeter-Wavelength Spectroscopy of CO, HCN, H_2CO, and CH_3OH in C1996 B2 (Hyakutake), M. Womack, S.A. Stern, and M.C. Festou. Planetary and Space Science, 45, 1997.

104. Collisional Erosion in the Edgeworth-Kuiper Belt. S.A. Stern, and J.E. Colwell. The Astrophysical Journal, 490, 1997.

105. Ultraviolet Observations of Chiron with HST/FOS: Examining a Centaur's Grey Matter. J.W. Parker, S.A. Stern, M.C. Festou, M.F. A'Hearn, and D.A. Weintraub, The Astronomical Journal, 113, 1997.

106. The Heliocentric Evolution of Key Species in the Distantly-Active Comet C1995 O1 (Hale-Bopp), M. Womack, M.C. Festou, and S.A. Stern. Astronomical Journal, 144, 1997.

107. Pluto and the Kuiper Disk. S.A. Stern. Ices in the Solar System (B. Schmitt, C. De Bergh, & M.C. Festou, eds.), Kluwer, The Netherlands, 1998.

108. Maps of HCO Emission in C1995 O1 (Hale-Bopp). M. Womack, A. Homich, M. C. Festou, J. Magnum, W.T. Uhl, and S.A. Stern. Earth, Moon, and Planets. 77, 1997.

109. A Search for New Species in Io's Atmosphere. C.Y. Na, L.M. Trafton, E.S. Barker, and S.A. Stern. Icarus, 131, 1998.

110. SWUIS: A Compact Astronomical UV/VIS/IR Imaging System for Manned Space-Based Platforms Including the Space Shuttle and the International Space Station. D.C. Slater, S.A.

Stern, W.M. Tomlinson, D.E. Mahoney, J.Wm. Parker, P.M. Tamblyn, W.B. Colwell, D.D. Durda, P.R. Weissman, and F. Vilas, Presented at Space Technology and Applications International Forum (STAIF-99), 1999.

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