CURRICULUM VITAE, ALAN W. HARRIS

Personal:

Born: August 3, 1944, Portland, OR
Married: August 22, 1970, Rose Marie
Children: W. Donald (b. 1974), David (b. 1976), Catherine (b 1981)

Education:

B.S. (1966) Caltech, Geophysics
M.S. (1967) UCLA, Earth and Space Science
PhD. (1975) UCLA, Earth and Space Science
Dissertation: Dynamical Studies of Satellite Origin.
Advisor: W.M. Kaula

Employment:

1966-1967	Graduate Research Assistant, UCLA
1968-1970	Member of Tech. Staff, Space Division Rockwell International
1970-1971	Physics instructor, Santa Monica College
1970-1973	Physics Teacher, Immaculate Heart High School, Hollywood, CA
1973-1975	Graduate Research Assistant, UCLA
1974-1991	Member of Technical Staff, Jet Propulsion Laboratory
1991-1998	Senior Member of Technical Staff, Jet Propulsion Laboratory
1998-2002	Senior Research Scientist, Jet Propulsion Laboratory
2002-present	Senior Research Scientist, Space Science Institute

Appointments:

1976	Member of Faculty of NATO Advanced Study Institute on Origin of the Solar System, Newcastle upon Tyne
1977-1978	Guest Investigator, Hale Observatories
1978	Visiting Assoc. Prof. of Physics, University of Calif. at Santa Barbara
1978-1980	Executive Committee, Division on Dynamical Astronomy of AAS
1979	Visiting Assoc. Prof. of Earth and Space Science, UCLA
1980	Guest Investigator, Hale Observatories
1983-1984	Guest Investigator, Lowell Observatory
1983-1985	Lunar and Planetary Review Panel (NASA)
1983-1992	Supervisor, Earth and Planetary Physics Group, JPL
1984	Science W.G. for Voyager II Uranus/Neptune Encounters (JPL/NASA)
1984-present	Advisor of students in Caltech Summer Undergraduate Research Fellowship Program
1984-1985	ESA/NASA Science Advisory Group for Primitive Bodies Missions
1985-1993	ESA/NASA Comet Nucleus Sample Return Science Definition Team (Deputy Chairman, U.S. delegation, 1988-1993; JPL Study Scientist, 1989-1993)
1985	Study Scientist, Near Earth Asteroid Rendezvous Mission (JPL/NASA)
1985-1988	Science Manager, Table Mountain Observatory, JPL
1985-1988	Member of Brouwer Award Selection Committee, Division on Dynamical Astronomy, Amer. Astron. Soc.; Chairman, 1988
1985-1988	Chairman, Working Group on Minor Planets, Commission 15 of the International Astronomical Union
1986	Subgroup Chairman, CRAF Proposal Review Panel (NASA)
1988-1991	Vice President, Commission 15 (Physical Studies of Minor Planets, Comets, and Meteorites) of the International Astronomical Union
1988-1990	Member, Urey and Kuiper Awards selection Committee, DPS
1989	Chairman of Local Arrangements, DDA annual meeting, Pasadena

1990-1991	Member, Proposal Review Panel for "Origins of Solar Systems" research program (NASA)
1990-1991	Vice Chairman, Division on Dynamical Astronomy of AAS
1991	Chairman of Scientific Organizing Committee for "Asteroids, Comets, Meteors 1991", international colloquium, Flagstaff, AZ
1991	Member of Organizing Committee for international conference on Near-Earth Asteroids, San Juan Capistrano, CA.
1991-1992	Chairman, Division on Dynamical Astronomy of AAS
1991-1993	Member of Scientific Organizing Committee for "Asteroids, Comets, Meteors 1993", international colloquium, Belgirate, Italy
1991-1994	President, Commission 15 (Physical Studies of Minor Planets, Comets, and Meteorites) of the International Astronomical Union
1991-present	Member of IAU Working Group on Near Earth Objects
1992	Member of IUE proposal review panel
1992	Member of Organizing Committee, "Interactions between physics and dynamics of Solar System Bodies" conference, Pleneuf-Val-Andre, France, June 21-28, 1992
1992	Member of Organizing Committee, "Meteoroids and their parent bodies" conference, Smolenice, Czechoslovakia, July 6-12, 1992
1992-1993	Visiting Professor, University of Paris VI
1992-1995	Member of Committee, Division for Planetary Sciences, AAS
1992-1995	Member of Small Bodies Science Working Group (NASA)
1993	Member of Scientific Organizing Committee, "Seventy-five years of Hirayama Families" conference, Tokyo Japan, Nov. 29 - Dec. 3, 1993.
1994-1996	Member, SOC of "Asteroids, Comets, Meteors 1996, Paris, France
1994-1995	Member of "Shoemaker Committee" on NEO Surveys
1995-2001	Secretary/Treasurer, Division for Planetary Sciences, AAS
1997	Organizer and Local Host of international meeting, "Catastrophic Disruption V", Mt. Hood, OR
1999	Visiting Professor, University of Paris VI
2002	LOC Chair and Local Host of DDA/AAS meeting, Mt. Hood, OR
2002-2003	Chair, Astronomy Division of AAAS
2002-2003	Member of NASA study on Extending NEO Surveys to smaller size
2005	Member of LOC and Local Host of DDA/AAS meeting, Santa Barbara, CA
2005	Member of SOC, "Asteroids, Meteors, Comets", Buzios, Brazil
2006	LOC Chair and Local Host of DPS/AAS meeting, Pasadena, CA
2006-2007	Member of NASA study on NEO Survey and Mitigation
2007	Member of SOC of AIAA conference, "Impact Mitigation", Washington, DC
2007	Member of SOC of "Binaries in the Solar system", Steamboat Springs, CO
2008	Member of SOC/LOC, "Asteroids, Comets, Meteors 2008", Baltimore, MD

Professional Memberships:

American Geophysical Union
American Astronomical Society (AAS)
AAS Div. on Dynamical Astronomy
AAS Div. for Planetary Science
AAS Historical Astronomy Div.
International Astronomical Union, Commissions 15, 16, 20, 22
American Association for the Advancement of Science (AAAS), Fellow

Awards, honors, popular writing:

Asteroid 2929 Harris named in recognition of contributions to planetary research.
NASA Group Achievement Award for Voyager mission planning, 1990
Author of a children's book, "The Great Voyager Adventure" (79 p.p.), published in 1990.
Co-author of "A Skeptical Look at 9/11" in Skeptical Inquirer, September-October 2002.
Participant in "Conference on World Affairs", University of Colorado, 2003.

Fellow of AAAS, 2005.
Author of "Chicken Little was right! The risk from an asteroid or comet impact", in Phi Kappa Phi Forum, Winter/Spring 2006, V. 86, No. 1, 2006.

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Journal articles, book chapters, etc.:

Harris, A. W. 1975. Dynamical studies of satellite origin. Ph.D. Thesis.

Harris, A. W. 1975. Collisional breakup of particles in a planetary ring. Icarus 24, 190-192.

Harris, A. W., Kaula, W. M. 1975. A co-accretional model of satellite formation. Icarus 24, 516-523.

Kaula, W. M., Harris, A. W. 1975. Dynamics of lunar origin and orbital evolution. Reviews of Geophysics and Space Physics 13, 363-371.

Harris, A. W., Preston, R. A., Spitzmesser, D. J., Slade, M. A., Skjerve, L. J. 1976. 2290-MHz flux densities of 52 high-declination radio sources. Astronomical Journal 81, 222-224.

Colombo, G., Goldreich, P., Harris, A. W. 1976. Spiral structure as an explanation for the asymmetric brightness of Saturn's A ring. Nature 264, 344.

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Harris, A. W., Williams, J. G. 1977. Earth Rotation Study Using Lunar Laser Ranging Data. ASSL Vol. 62: Scientific Applications of Lunar Laser Ranging 179.

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Soter, S., Harris, A. 1977. The equilibrium figures of PHOBOS and other small bodies. Icarus 30, 192-199.

Harris, A. W. 1977. An analytical theory of planetary rotation rates. Icarus 31, 168-174.

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Harris, A. W. 1978. Dynamics of planetesimal formation and planetary accretion. Origin of the Solar System 469-492.

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Davis, D. R., Chapman, C. R., Greenberg, R., Weidenschilling, S. J., Harris, A. W. 1979. Collisional evolution of asteroids - Populations, rotations, and velocities. Asteroids 528-557.

Harris, A. W., Young, J. 1979. Photoelectric lightcurves of asteroids 42 Isis, 45 Eugenia, 56 Melete, 103 Hera, 532 Herculina, and 558 Carmen. Icarus 38, 100-105.

Harris, A. W., Burns, J. A. 1979. Asteroid rotation. I - Tabulation and analysis of rates, pole positions and shapes.. Icarus 40, 115-144.

Harris, A. W. 1979. Asteroid rotation rates II. A theory for the collisional evolution of rotation rates. Icarus 40, 145-153.

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Harris, A. W., Young, J. W., Scaltriti, F., Zappala, V. 1980. Photoelectric lightcurve and period of rotation of the asteroid 182 Elsa. Icarus 41, 316.

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Zappala, V., Scaltriti, F., Lagerkvist, C.-I., Rickman, H., Harris, A. W. 1982. Photoelectric photometry of asteroids 33 Polyhymnia and 386 Siegena. Icarus 52, 196-201.

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Harris, A. W., Young, J. W. 1983. Asteroid rotation. IV. Icarus 54, 59-109.

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Harris, A. W., Ward, W. R. 1984. On the radial structure of planetary rings. CNES Planetary Rings p 431-437.

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Ostro, S. J., Harris, A. W., Campbell, D. B., Shapiro, I. I., Young, J. W. 1984. Radar and photoelectric observations of asteroid 2100 Ra-Shalom. Icarus 60, 391-403.

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Harris, A. W., Young, J. W., Goguen, J., Hammel, H. B., Hahn, G., Tedesco, E. F., Tholen, D. J. 1987. Photoelectric lightcurves of the asteroid 1862 Apollo. Icarus 70, 246-256.

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Harris, A. W., and 11 colleagues 1989. Phase relations of high albedo asteroids - The unusual opposition brightening of 44 NYSA and 64 Angelina. Icarus 81, 365-374.

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Wisniewski, W. Z., and 21 colleagues 1993. Ground-based photometry of asteroid 951 Gaspra. Icarus 101, 213-222.

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Harris, A. W., Canavan, G. H., Sagan, C., Ostro, S. J. 1994. The Deflection Dilemma: Use Versus Misuse of Technologies for Avoiding Interplanetary Collision Hazards. Hazards Due to Comets and Asteroids 1145.

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Takata, T., Ahrens, T. J., Harris, A. W. 1995. Comet Shoemaker-Levy 9: Fragment and progenitor impact energy. Geophysical Research Letters 22, 2433-2436.

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Dobrovolskis, A. R., Peale, S. J., Harris, A. W. 1997. Dynamics of the Pluto-Charon Binary. Pluto and Charon 159.

Wisniewski, W. Z., Michalowski, T. M., Harris, A. W., McMillan, R. S. 1997. Photometric Observations of 125 Asteroids. Icarus 126, 395-449.

Harris, A. W., Harris, A. W. 1997. On the Revision of Radiometric Albedos and Diameters of Asteroids. Icarus 126, 450-454.

Mottola, S., and 28 colleagues 1997. Physical model of near-earth asteroid 6489 golevka (1991 JX) from optical and infrared observations.. Astronomical Journal 114, 1234.

Hudson, R. S., Ostro, S. J., Harris, A. W. 1997. Constraints on Spin State and Hapke Parameters of Asteroid 4769 Castalia Using Lightcurves and a Radar-Derived Shape Model. Icarus 130, 165-176.

Pravec, P., Wolf, M., Sarounova, L., Mottola, S., Erickson, A., Hahn, G., Harris, A. W., Harris, A. W., Young, J. W. 1997. The Near-Earth Objects Follow-Up Program. Icarus 130, 275-286.

Harris, A. W. 1998. Searching for NEAs from Earth or Space. Highlights in Astronomy 11, 257.

Harris, A. W. 1998. Evaluation of ground-based optical surveys for near-Earth asteroids. Planetary and Space Science 46, 283-290.

Black, G. J., Nicholson, P. D., Bottke, W. F., Burns, J. A., Harris, A. W. 1999. NOTE: On a Possible Rotation State of (433) Eros. Icarus 140, 239-242.

Harris, A. W., Young, J. W., Bowell, E., Tholen, D. J. 1999. Asteroid Lightcurve Observations from 1981 to 1983. Icarus 142, 173-201.

Lazzaro, D., Michtchenko, T., Carvano, J. M., Binzel, R. P., Bus, S. J., Burbine, T. H., Moth{'e}-Diniz, T., Florczak, M., Angeli, C. A., Harris, A. W. 2000. Discovery of a Basaltic Asteroid in the Outer Main Belt. Science 288, 2033-2035.

Shepard, M. K., Benner, L. A. M., Ostro, S. J., Harris, A. W., Rosema, K. D., Shapiro, I. I., Chandler, J. F., Campbell, D. B. 2000. Radar Observations of Asteroid 2100 Ra-Shalom. Icarus 147, 520-529.

Pravec, P., Harris, A. W. 2000. Fast and Slow Rotation of Asteroids. Icarus 148, 12-20.

Hudson, R. S., and 26 colleagues 2000. Radar Observations and Physical Model of Asteroid 6489 Golevka. Icarus 148, 37-51.

Binzel, R. P., Rivkin, A. S., Harris, A. W. 2000. 2000 YA. International Astronomical Union Circular 7544, 3.

Harris, A. W. 2001. Near-Earth Asteroid surveys. In: Collisional processes in the solar system (Mikhail Ya. Marov and Hans Rickman, eds.) Astrophysics and space science library, Volume 261, Dordrecht: Kluwer Academic Publishers, ISBN 0-7923-6946-7, pp. 323-332.

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Kaasalainen, S., Piironen, J., Kaasalainen, M., Harris, A. W., Muinonen, K., Cellino, A. 2003. Asteroid photometric and polarimetric phase curves: empirical interpretation. Icarus 161, 34-46.

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Binzel, R. P., Perozzi, E., Rivkin, A. S., Rossi, A., Harris, A. W., Bus, S. J., Valsecchi, G. B., Slivan, S. M. 2004. Dynamical and compositional assessment of near-Earth object mission targets. Meteoritics and Planetary Science 39, 351-366.

Binzel, R. P., Birlan, M., Bus, S. J., Harris, A. W., Rivkin, A. S., Fornasier, S. 2004. Spectral observations for near-Earth objects including potential target 4660 Nereus : Results from Meudon remote observations at the NASA Infrared Telescope Facility (IRTF). Planetary and Space Science 52, 291-2

Binzel, R. P., Rivkin, A. S., Stuart, J. S., Harris, A. W., Bus, S. J., Burbine, T. H. 2004. Observed spectral properties of near-Earth objects: results for population distribution, source regions, and space weathering processes. Icarus 170, 259-294.

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