

David E. Trilling

Curriculum Vitae (7 Feb 2008)

Steward Observatory
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Personal: Born 24 Apr 1972; United States citizenship; married to Leah Mundell; children born 2/2005 and 12/2007

Education:

Ph.D.: 1999
Planetary Science
Lunar and Planetary Laboratory/Dept. of Planetary Sciences
University of Arizona (USA)

A.B. (*cum laude*): 1994
Earth and Planetary Sciences and Astronomy and Astrophysics
Harvard University (USA)

Research focus:

Origin and evolution of stellar and planetary systems and planets

Positions:

Assistant Astronomer (Research Faculty), University of Arizona (2004–)
Lecturer, University of Pennsylvania (2003–2004)
Postdoctoral Researcher, University of Pennsylvania (2000–2004)
Postdoctoral Researcher, UCO/Lick Observatory (1999–2000)
Graduate student, Lunar and Planetary Laboratory, University of Arizona (1995–1999)
Max Planck Society Fellow, Max-Planck-Institut für Aeronomie, Germany (1994–1995)
NASA Summer Intern, PGGUR Program, NASA Ames Research Center (1993)
Caltech Summer Undergraduate Research Fellow (1992, 1993)

Observing experience:

Spitzer Space Telescope; Hubble Space Telescope; W. M. Keck Telescopes (10 meters); Large Binocular Telescope (2×8.4 meters); Gemini (8 meters); MMT (6.5 meters); Magellan (6.5 meters); NOAO Mayall and Blanco telescopes (4 meters); UKIRT (3.8 meters); NASA's IRTF (3 meters); Bart Bok telescope (2.3 meters); Vatican Advanced Technology Telescope (1.8 meters); Mt. Bigelow Kuiper Telescope (1.6 meters); Lick Observatory Nickel telescope (1 meter); Kitt Peak 0.9 meter telescope

Professional service:

Chair, NOAO Solar System TAC (2007 – 2009)
Gemini 2007B special TAC
NSF Planetary Astronomy review panel (2007)
Hubble Space Telescope TAC (2006)
NOAO Solar System TAC (2005 – 2007)

Reviewer for: *Astronomy & Astrophysics*; *The Astronomical Journal*; *The Astrophysical Journal*; *The Astrophysical Journal Letters*; *Nature*; *Science*; *Icarus*; *New Astronomy*; *MNRAS*; *Planetary and Space Science*;

NASA's Origins Program; NASA's Planetary Geology and Geophysics Program; NASA's Outer Planet Research Program; NASA's Planetary Astronomy Program; National Science Foundation; Austrian Academy of Sciences; Blackwell Publishing (textbooks)

Memberships:

Spitzer Warm Mission Solar System Science Working Group
LSST Solar System Science Working Group
MIPS (Multiband Imaging Photometer for *Spitzer*) Instrument Team
Bernstein et al. HST/ACS deep Kuiper Belt observations program team
Deep Ecliptic Survey team
Near Infrared Coronagraphic Instrument (NICI – for Gemini South) Science Team
Consultant for NASA's Gravity Probe B
American Astronomical Society
Division of Planetary Sciences of American Astronomical Society

Advising Experience:

Michael Mueller [current UA postdoc, supervised with Stansberry]
Kat Volk [current UA graduate student, supervised with Malhotra]
Andras Gaspar [current UA graduate student, supervised with Rieke]
Nick Siegler [former UA graduate student, supervised with Muzerolle, presently manager at JPL]
Myra Blaylock [former UA postgraduate student, supervised with Gordon, presently graduate student at UC-Davis]
Richard Crudo [former UA undergrad research assistant, presently graduate student at U. Connecticut]
Peter Allen [former Penn graduate student, presently postdoc at Penn State]
Jennifer Donovan [former Franklin and Marshall undergrad, presently graduate student at Columbia]

Teaching experience:

Lecturer, Astronomy 6 (“Life in the Universe”), U. Pennsylvania, Spring, 2004
Lecturer, Astronomy 6 (“Life in the Universe”), U. Pennsylvania, Spring, 2003
60-person lecture class for undergraduate non-majors

Instructor, Astronomy 1 (“Survey of the Universe”), U. Pennsylvania, Spring, 2002
Instructor, Astronomy 1 (“Survey of the Universe”), U. Pennsylvania, Summer, 2001
25-person lecture class for undergraduate non-majors

Teaching Assistant for Planetary Sciences Lab 109, Spring, 1997, U. Arizona
Teaching Assistant for Planetary Sciences 105-2H, Fall, 1996, U. Arizona
Teaching Fellow for Earth and Planetary Sciences 100b, Spring, 1993, Harvard

Invited Talks:

University of Arizona (Lunar and Planetary Laboratory)
California Institute of Technology
Canadian Institute for Theoretical Astrophysics
Carnegie Institute of Washington (Department of Terrestrial Magnetism)
Columbia University
Dominion Astrophysical Observatory
University of Florida
Harvard-Smithsonian Center for Astrophysics
University of Hawai'i
Lowell Observatory
Lunar and Planetary Institute (Houston)
Michigan Technological University
NASA Ames Research Center (Center for Star Formation Studies)

Observatoire de la Côte d'Azur
San Jose State University
Space Telescope Science Institute
University of Washington
University of Wisconsin

Public lectures and outreach activities:

“Planetary systems around binary stars: In search of Luke Skywalker’s Tatooine,” given to the Arizona Astronomy Board, April, 2007

“To the edge of the Solar System: Exploring the Kuiper Belt,” given to the Rittenhouse Astronomical Society, Philadelphia (PA), November, 2002

“Planetary systems – a home away from home,” given at the Flower and Cook Observatory, Malvern (PA), February, 2002

“Try this at home!” given at Lick Observatory Summer Visitors Program, Mt. Hamilton (CA), July, 2000

“Our Solar System, Other Solar Systems,” given at Lick Observatory Summer Visitors Program, Mt. Hamilton (CA), August, 1999

Consultant for Sally Ride Science (children’s science publication series, focusing especially on girls in science) (2007)

Long-standing relationship with Molly Bass’ fifth grade classroom (Mill Valley, California) (2006–present)

Consultant for *Earth & Sky* radio show (2004–present)

Numerous appearances in various media, including radio (NPR affiliates) and television news programs (1998–present)

Articles about my work have appeared in *Science* (News of the week); *Astronomy*; *space.com*; *Sky & Telescope*; *Science News*; *CNN*; *The New York Times*; *Knight-Ridder newspapers*; *New Scientist*; *San Francisco Chronicle*; *starwars.com*; *BBC*; *Fox News*; *spaceref.com*; *MSNBC*; *National Geographic*; *slashdot.org*; *Los Angeles Times*; *Christian Science Monitor*; *USA Today*; *The Planetary Report*; and numerous regional media.

Grants and Awards:

“Studies of the Kuiper Belt using large telescopes” (PI)	\$134,000
NASA Planetary Astronomy (1/2008 – 12/2010)	
“TNOs are cool: A Survey of the Transneptunian Region” <i>Herschel</i> Key Programme (CoI)	\$882,359
<i>Herschel</i> Science Center (2008–2012)	
“The whole picture: Characterizing debris disks with KIN, Spitzer, and BLINC” NASA Keck Interferometry Key Project (CoI)	\$108,000
Michelson Science Center (2008–2009)	
“Automating the small (<2 meters) Steward telescopes” (Co-PI)	\$150,000
Funding committed by private institutional partner	
“DDT observations of five Mars Trojan asteroids” (PI)	\$8,845
<i>Spitzer</i> Science Center (2008–2010)	
“A global view of the asteroid belt derived from the <i>Spitzer</i> Asteroid Catalog” (PI)	\$121,262
NASA Planetary Geology and Geophysics (1/2008 – 12/2010)	
“Debris disks in tight binary systems” (Technical contact – TC)	17.6 hours
<i>Spitzer</i> Science Center (7/2007 – 6/2008)	
This Guaranteed Time program is equivalent to ~\$70,000	
“Regoliths on small asteroids: Testing hypotheses with <i>Spitzer</i> ” (PI)	\$34,340
<i>Spitzer</i> Science Center (7/2007 – 6/2010)	
“IRAC reflectances of KBOs, Centaurs, and Trojan asteroids” (CoI)	\$27,850
<i>Spitzer</i> Science Center (7/2007 – 6/2010)	
“The <i>Spitzer</i> Asteroid Catalog II: 10,000 more asteroids” (PI)	\$49,935
<i>Spitzer</i> Science Center (10/2007 – 9/2009)	
“Probing planetary system formation with <i>Spitzer</i> : Debris disks around early F stars” (TC)	20.2 hours
<i>Spitzer</i> Science Center	
This Guaranteed Time program is equivalent to ~\$80,000	
“The <i>Spitzer</i> Asteroid Catalog” (PI)	\$99,881
<i>Spitzer</i> Science Center (10/2006 – 9/2008)	
“Completing the Census of Debris Disks around Nearby Stars” (CoI)	\$34,204
<i>Spitzer</i> Science Center (6/2006 – 5/2009)	
“Surface compositions of KBOs, Centaurs, and low albedo asteroids: Constraints from IRAC reflectance measurements” (CoI)	\$26,000
<i>Spitzer</i> Science Center (6/2005 – 5/2008)	
“Search for companions to known asteroids using archived images from ACS and WFPC” (CoI)	\$10,000
Space Telescope Science Institute/Hubble Space Telescope (7/2005 – 6/2008)	
“Accretion in the Kuiper Belt: The Deep Ecliptic Survey” (PI)	\$115,394
National Science Foundation (6/2004 – 5/2008)	
“Recovery of three faint Kuiper Belt Objects discovered with HST (PI)	\$33,678
Space Telescope Science Institute/Hubble Space Telescope (6/2004 – 5/2007)	
AAS Small Research Grant (PI)	\$2400
American Astronomical Society (1/2003 – 12/2003)	

AAS Small Research Grant	\$2400
	American Astronomical Society (1/2002 – 12/2002)
1998 Gerard P. Kuiper Memorial Award for outstanding graduate student at LPL	
NASA Graduate Student Research Program grant (PI)	\$22,000
	NASA (1998 – 1999)
National Science Foundation Graduate Research Fellowship (PI)	\$45,000
	NSF (1995 – 1998)
Thomas Temple Hoopes Prize for outstanding senior thesis, Harvard University (1994)	
Derek Bok Center Certificate of Distinction in Teaching (1993)	
Harvard College Scholarship (1992 – 1994)	
National Merit Scholarship (1990 – 1994)	
Pending Grants and Awards:	
“Studies of the Kuiper Belt using large telescopes” (PI)	\$142,174
	submitted to NSF Planetary Astronomy (7/2008 – 6/2011)
“IWI: The Infrared Wide-field Imager for the Large Binocular Telescope” (CoI)	\$954,992
	submitted to NSF ATI (dates TBD)
	Trilling unfunded CoI
A number of pending Spitzer observing and archive proposals (PI, TC, and CoI)	

Publications

Refereed Journals:

- Trilling, D. E.** 2008, “The evolution of Kuiper Belt Object and Centaur binaries,” ApJL, submitted
- Trilling, D. E.**, Bryden, G., Beichman, C. A., Rieke, G. H., Su, K. Y. L., Stansberry, J. A., Blaylock, M., Stapelfeldt, K. R., Beeman, J. W., & Haller, E. E. 2008, “Debris disks around Sun-like stars,” ApJ, 674, 1095 (astro-ph: 0710.5498)
- Stansberry, J., Grundy, W., Brown, M., Cruikshank, D., Spencer, J., **Trilling, D.**, & Margot, J.-L. 2008, “Physical properties of Kuiper Belt Objects and Centaurs: *Spitzer* Space Telescope constraints,” in *The Kuiper Belt* (Tucson: University of Arizona Press), forthcoming (astro-ph/0702538)
- Moro-Martin, A., Wyatt, M. C., Malhotra, R., & **Trilling, D. E.** 2008, “Extra-Solar Kuiper Belt dust disks,” in *The Kuiper Belt* (Tucson: University of Arizona Press), forthcoming (astro-ph/07033830)
- Trilling, D. E.**, Rivkin, A. S., Stansberry, J. A., Spahr, T. B., Crudo, R. A., & Davies, J. K. 2007, “Albedos and diameters of three Mars Trojan asteroids,” Icarus, 192, 442
- Rivkin, A. S., **Trilling, D. E.**, Thomas, C. A., DeMeo, F., Spahr, T. B., & Binzel, R. P. 2007, “Composition of the L5 Mars Trojans: Neighbors, not Siblings,” Icarus, 192, 434
- Grundy, W. M., Stansberry, J. A., Noll, K. S., Stephens, D. C., **Trilling, D. E.**, Kern, S. D., Spencer, J. R., Cruikshank, D. P., & Levison, H. F. 2007, “The orbit, mass, size, albedo, and density of (65489) Ceto/Phorcys: A tidally-evolved binary Centaur,” Icarus, 191, 286
- Gautier, T. N., III, Rieke, G. H., Stansberry, J., Bryden, G. C., Stapelfeldt, K. R., Werner, M. W., Beichman, C. A., Chen, C., Su, K., **Trilling, D.**, Patten, B. M., & Roellig, T. L. 2007, “Far-Infrared properties of M dwarfs,” ApJ, 667, 527
- Trilling, D. E.**, Stansberry, J. A., Stapelfeldt, K. R., Rieke, G. H., Su, K. Y. L., Gray, R. O., Corbally, C. J., Bryden, G., Chen, C. H., Boden, A., & Beichman, C. A. 2007, “Debris disks in main-sequence binary systems,” ApJ, 658, 1264
- Emery, J. P., Dalle Ore, C. M., Cruikshank, D. P., Fernandez, Y. R., **Trilling, D. E.**, & Stansberry, J. A. 2007, “Ices on (90377) Sedna: confirmation and compositional constraints,” A&A, 466, 395
- Siegler, N., Muzerolle, J., Young, E. T., Rieke, G. H., Mamajek, E. E., **Trilling, D. E.**, Gorlova, N., Su, K. Y. L. 2007, “*Spitzer* 24 μm observations of open cluster IC 2391 and debris disk evolution of FGK stars,” ApJ, 654, 580
- Su, K. Y. L., Rieke, G. H., Stansberry, J. A., Bryden, G., Stapelfeldt, K. R., **Trilling, D. E.**, Muzerolle, J., Beichman, C. A., Moro-Martin, A., Hines, D. C., & Werner, M. W. 2006, “Debris disk evolution around A stars,” ApJ, 653, 675
- Bryden, G., Beichman, C. A., Rieke, G. H., Stansberry, J. A., Stapelfeldt, K. R., **Trilling, D. E.**, Turner, N. J., & Wolszczan, A. 2006, “*Spitzer* MIPS limits on asteroidal dust in the pulsar planetary system PSR B1257+12,” ApJ, 646, 1038
- Muzerolle, J., Adame, L., D’Alessio, P., Calvet, N., Luhman, K. L., Muench, A. A., Lada, C. J., Rieke, G. H., Siegler, N., **Trilling, D. E.**, Young, E. T., Allen, L., Hartmann, L., & Megeath, S. T. 2006, “24 μm detections of circum(sub)stellar disks in IC 348: Grain growth and inner holes?” ApJ, 643, 1003
- Stansberry, J. A., Grundy, W. M., Margot, J. L., Cruikshank, D. P., Emery, J. P., Rieke, G. H., & **Trilling, D. E.** 2006, “The albedo, size, and density of binary Kuiper Belt Object (47171) 1999 TC₃₆,” ApJ, 643, 556
- Beichman, C. A., Tanner, A., Bryden, G., Stapelfeldt, K. R., Werner, M. W., Rieke, G. H., **Trilling, D. E.**,

- Lawler, S., & Gautier, T. N. 2006, “IRS spectra of Solar-type stars: A search for asteroid belt analogs,” *ApJ*, 639, 1166
- Trilling, D. E.** & Bernstein, G. M. 2006, “Lightcurves of 20–100 km Kuiper Belt Objects using the Hubble Space Telescope,” *AJ*, 131, 1149
- Bryden, G., Beichman, C. A., **Trilling, D. E.**, Rieke, G. H., Holmes, E. K., Lawler, S. M., Stapelfeldt, K. R., Werner, M. W., Gautier, T. N., Blaylock, M., Gordon, K. D., Stansberry, J. A., Su, K. Y. L. 2006, “Frequency of debris disks around Solar-type stars: First results from a Spitzer MIPS survey,” *ApJ*, 636, 1098
- Su, K. Y. L., Rieke, G. H., Misselt, K. A., Stansberry, J. A., Moro-Martin, A., Stapelfeldt, K. R., Werner, M. W., **Trilling, D. E.**, Bendo, G. J., Gordon, K. D., Hines, D. C., Wyatt, M. C., Holland, W. S., Marengo, M., Megeath, S. T., Fazio, G. G. 2005, “The Vega debris disk: A surprise from Spitzer,” *ApJ*, 628, 487
- Beichman, C. A., Bryden, G., Gautier, T. N., Stapelfeldt, K. R., Werner, M. W., Misselt, K., Rieke, G., Stansberry, J., **Trilling, D.** 2005, “An excess due to small grains around the nearby K0 V star HD 69830: asteroid or cometary debris?,” *ApJ*, 626, 1061
- Allen, P. R., Koerner, D. W., Reid, I. N., & **Trilling, D. E.** 2005, “The substellar mass function: A Bayesian approach,” *ApJ*, 625, 385
- Cruikshank, D. P., Stansberry, J. A., Emery, J. P., Fernandez, Y. R., Werner, M. W., **Trilling, D. E.**, Rieke, G. H. 2005, “The high-albedo Kuiper Belt Object (55565) 2002 AW₁₉₇,” *ApJL*, 624, L53
- Beichman, C. A., Bryden, G., Rieke, G. H., Stansberry, J. A., **Trilling, D. E.**, Stapelfeldt, K. R., Werner, M. W., Engelbracht, C. W., Blaylock, M., Gordon, K. D., Chen, C. H., Su, K. Y. L., Hines, D. C. 2005, “Planets and infrared excesses: Preliminary results from a Spitzer MIPS survey of Solar-type stars,” *ApJ*, 622, 1160
- Rieke, G. H., Su, K. Y. L., Stansberry, J. A., **Trilling, D.**, Bryden, G., Muzerolle, J., White, B., Gorlova, N., Young, E. T., Beichman, C. A., Stapelfeldt, K. R., Hines, D. C. 2005, “Decay of planetary debris disks,” *ApJ*, 620, 1010
- Elliot, J. L., Kern, S. D., Clancy, K. B., Gulbis, A. A. S., Millis, R. L., Buie, M. W., Wasserman, L. H., Chiang, E. I., Jordan, A. B., **Trilling, D. E.**, Meech, K. J. 2005, “The Deep Ecliptic Survey: A search for Kuiper Belt Objects and Centaurs. II. Dynamical classification, the Kuiper Belt plane, and the core population,” *AJ*, 129, 1117
- Bernstein, G. M., **Trilling, D. E.**, Allen, R. L., Brown, M. E., Holman, M. J., & Malhotra, R. 2004, “The size distribution of Trans-Neptunian bodies,” *AJ*, 128, 1364
- Allen, P. R., **Trilling, D. E.**, Koerner, D. W., & Reid, I. N. 2003, “Luminosity functions of young clusters: Modeling the substellar mass regime,” *ApJ*, 595, 1222
- Rivkin, A. S., Davies, J. K., Johnson, J. R., Ellison, S. L., **Trilling, D. E.**, Brown, R., H., & Lebofsky, L. A. 2003a, “Hydrogen concentrations on C-class asteroids from remote sensing,” *Meteoritics and Planetary Science*, 38, 1383
- Chiang, E. I., Jordan, A. B., Millis, R. L., Buie, M. W., Wasserman, L. H., Elliot, J. L., Kern, S. D., **Trilling, D. E.**, Meech, K. J., & Wagner, R. M. 2003, “Resonance occupation in the Kuiper Belt: Case examples of the 5:2 and Trojan resonances,” *The Astronomical Journal*, 126, 430
- Buie, M. W., Millis, R. L., Wasserman, L. H., Elliot, J. L., Kern, S. D., Clancy, K. B., Chiang, E. I., Jordan, A. B., Meech, K. J., Wagner, R. M., & **Trilling, D. E.** 2003, “Procedures, resources, and selected results of the Deep Ecliptic Survey,” *Earth, Moon, and Planets*, 92, 113

- Trilling, D. E.**, Lunine, J. I. & Benz, W. 2002, "Orbital migration and the frequency of giant planet formation," *Astronomy & Astrophysics*, 394, 241
- Rivkin, A. S., Brown, R. H., Bell, J. F. III, **Trilling, D. E.** & Plassmann, J. H. 2002, "Infrared spectrophotometry of Phobos," *Icarus*, 156, 64
- Trilling, D. E.**, Koerner, D. W., Barnes, J., Ftaclas, C., & Brown, R. H. 2001, "Near-infrared coronagraphic imaging of the circumstellar disk around TW Hydrae" *The Astrophysical Journal Letters*, 552, L151
- Trilling, D. E.** & Brown, R. H. 2000, "Red, Grey, and Blue: Near Infrared Spectrophotometry of faint moons of Uranus and Neptune," *Icarus*, 148, 301
- Trilling, D. E.** 2000, "Tidal constraints on extrasolar planet masses," *The Astrophysical Journal Letters*, 537, L61
- Castellano, T., Jenkins, J., **Trilling, D. E.**, Doyle, L., & Koch, D. 2000 "Detection of planetary transits of the star HD 209458 in the Hipparcos data set," *The Astrophysical Journal Letters*, 532, L51
- Trilling, D. E.**, Brown, R. H., & Rivkin, A. S. 2000, "Circumstellar disks around stars with known planetary companions," *The Astrophysical Journal*, 529, 499
- Trilling, D. E.**, Benz, W., Guillot, T., Lunine, J. I., Hubbard, W. B., & Burrows, A. 1999, "Migration and evolution of extrasolar planets," *Phys. Chem. Earth (C)*, 24, No. 5, 553
- Trilling, D. E.** & Brown, R. H. 1998, "A circumstellar dust disk around a star with a known planetary companion," *Nature*, 395, 775
- Quillen, A. C. & **Trilling, D. E.** 1998, "Do proto-Jovian planets drive outflows?," *The Astrophysical Journal*, 508, 707
- Trilling, D. E.**, Benz, W., Guillot, T., Lunine, J. I., Hubbard, W. B., & Burrows, A. 1998, "Orbital evolution and migration of giant planets: Modeling extrasolar planets," *The Astrophysical Journal*, 500, 428

Selected Non-refereed Articles, Proceedings, and Conference Abstracts:

- Numerous Minor Planet Electronic Circulars, 2002 – present
- Numerous Minor Planet Circulars, 2002 – present
- Kortenkamp, S. J., Wetherill, G. W., Inaba, S., & **Trilling, D. E.** 2001, "Asteroid formation with a pre-existing Jupiter," in Abstracts of the XXXIId Lunar and Planetary Science Conference, #1796
- Stansberry, J., Brown, R. H., Lunine, J. I., **Trilling, D. E.**, & Grundy, W. 1999, "Stability of volatiles in the Kuiper Belt and in extrasolar dust disks," *BAAS*, 31, 1110
- Turtle, E. P. et al. 1999, "AMBASSADOR: Asteroid sample return mission to 7 Iris," *Acta Astronautica*, 45, 415
- Rivkin, A. S., **Trilling, D. E.**, & Lebovsky, L. A. 1998, "Infrared (1.65-3.5 micrometers) observations of 387 Aquitania," *BAAS*, 30, 1023.
- Toomey, D. W., Ftaclas, C., Brown, R. H., & **Trilling, D.** 1998, "CoCo: An experiment in infrared coronagraphy at the IRTF," *SPIE Proc.*, 3354, 782
- Trilling, D. E.** & Melosh, H. J. 1998, "What if extrasolar planets are rocky?," in Abstracts of the

XXIXth Lunar and Planetary Science Conference

Trilling, D. E., Benz, W., Guillot, T., Lunine, J. I., Hubbard, W. B., & Burrows, A. 1998, "Orbital evolution of extra-solar giant planets," in BROWN DWARFS AND EXTRASOLAR PLANETS, eds. R. Rebolo, E. L. Martin, M. R. Zapatero-Osorio, ASP Conf. Series, Volume 134

Nielsen, E., Hagfors, T., Kopka, H., & **Trilling, D.** 1995b, "Thoughts on radio wave experiments for observations of the interior of comets in the International ROSETTA Mission," Max Planck Report MPAE-W-097-95-12

Nielsen, E., Hagfors, T., **Trilling, D.**, & Kofman, W. 1995a, "A transmission experiment for cometary exploration," Annales Geophysicae, Supplement III to Volume 13, p. C789

Trilling, D. E., Keller, H. U., Rauer, H., Schultz, R., & Thomas, N. 1995, "Observations of P/Shoemaker-Levy 9 in Johnson B, V, and R filters from Calar Alto Observatory on 2/3 June, 1994," Proceedings of the European SL-9/Jupiter Workshop, ESO Conference and Workshop Proceedings No. 52, West and Boehnhardt, editors

Greeley, R., Leach, R. N., Lacchia, B. M., White, B. R., **Trilling, D. E.**, & Pollack, J. B. 1994b, "New estimates of minimum wind speeds for raising dust on Mars," BAAS, Vol. 26, No. 3

Greeley, R., Lacchia, B. M., White, B. R., Leach, R. N., **Trilling, D. E.**, & Pollack, J. B. 1994a, "Dust on Mars: New values for wind transport," in Abstracts of the XXVth Lunar and Planetary Science Conference

Theses:

Trilling, David E. 1999, "A theoretical and observational study of the formation and evolution of planetary systems and extrasolar planets," Ph.D. Thesis, University of Arizona
Thesis committee: J. I. Lunine (co-chair), R. H. Brown (co-chair), W. B. Hubbard, C. F. Chyba, H. J. Melosh

Trilling, David E. 1994, "Terrestrial atmospheres, present and past: Balancing the fluxes of volatile elements from the atmospheres of Venus, Earth, and Mars," Undergraduate Thesis, Harvard University
Thesis advisor: A. G. W. Cameron