HENRY B. THROOP

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EDUCATION	
 Ph.D. University of Colorado, Astrophysical and Planetary Sciences Thesis: Light Scattering and Evolution of Circumstellar Disks and Planet Advisors: L. W. Esposito, J. Bally 	May 2000 tary Rings
• M.S., University of Colorado, Boulder, Astrophysical and Planetary Science	nces May 1997
• B.A., Grinnell College, Grinnell, Iowa, Physics Budapest Technical University, Hungary, Spring 1993	May 1994
PROFESSIONAL EXPERIENCE	
• Southwest Research Institute, Boulder, CO Research Scientist	June 2001–present
• University of Arizona, Tucson De Visiting Scholar	ecember 2000 – June 2001
• Laboratory for Atmospheric and Space Physics, University of Color Research Associate	ado May–December 2000
• Department of Astrophysical & Planetary Sciences, University of C Lecturer	olorado Summer 2000
• Laboratory for Atmospheric and Space Physics, University of Color Research Assistant	rado 1995-2000
• Space Science Institute, Boulder, CO Science Writer	Spring 1998
• Fiske Planetarium, University of Colorado Teaching Assistant, Scientific Consultant	1996-1997
• Dept. Astrophysical, Planetary, & Atmospheric Sciences, University Teaching Assistant	y of Colorado Fall 1994
• Jet Propulsion Laboratory, Pasadena, CA Research Assistant	Summer 1994
• Dept. Physics & Astronomy, Northern Arizona University, Flagstaff, Research Assistant	AZ Summer 1993
• Grant Gale Observatory, Grinnell College, Grinnell, IA Research Assistant	1993-1994

PUBLICATIONS

• Throop, H. B., and J. Bally 2005. Can photoevaporation trigger planetesimal formation? ApJ 623, L149-0152.

• U. A. Dyudina, P. D. Sackett, D. D. R. Bayliss, A. D. Del Genio, C. C. Porco, **H. B. Throop**, H. C. Dones, and S. Seager 2005. *Phase Light Curves for Extrasolar Jupiter and Saturn. ApJ* **618**, 973–986.

• C. C. Porco, **H. B. Throop**, M. J. Pantazoupoulou, and T. J. J. Kehoe 2005. *Light Scattering in Saturn's Rings, I: Basic Formulation, Ring Thickness, and the A Ring Azimuthal Asymmetry.* To be submitted to *Icarus.*

• Burns, J. A., D. P. Simonelli, M. R. Showalter, D. P. Hamilton, C. C. Porco, L. W. Esposito, and H. B. Throop 2004. *Jupiter's Ring-Moon System*. In Jupiter, Cambridge Univ. Press, 241–262.

• Brooks, S. M, L. W. Esposito, M. R. Showalter, and H. B. Throop 2004. The Size Distribution of

Jupiter's Main Ring from Galileo Imaging and Spectroscopy. Icarus, 170 35–57.

• Throop, H. B., C. C. Porco, R. A. West, J. A. Burns, M. R. Showalter, and P. D. Nicholson 2003. *The Jovian Rings: New Results Derived from Cassini, Galileo, Voyager, and Earth-based Observations. Icarus* 172, 59–77.

• C. C. Porco and 27 co-authors 2003. Cassini Imaging of Jupiter's Atmosphere, Satellites, and Rings. Science 299, 1541-1547.

• Shuping, R. Y., J. Bally, M. Morris, and H. B. Throop 2002. Evidence for Grain Growth in the Protostellar Disks of Orion. ApJ 587, L109–L112

• DeGioia-Eastwood, K., H. B. Throop, G. Walker, and K. M. Cudworth 2001. The star formation history of Trumpler 14 and Trumpler 16. ApJ 549, 578–589.

• Throop, H. B., J. Bally, L. W. Esposito, and M. J. McCaughrean 2000. Evidence for dust grain growth in young circumstellar disks. Science 292, 1686–1689.

• Throop, H. B. and L. W. Esposito 1998. *Photometry and Evolution of Saturn's G Ring. Icarus* 131, 152–166.

INVITED TALKS

- 'Physics of Dusty Planetary Rings' meeting, Berne, Switzerland, 2005.
- 'Formation and Detection of Planetary Systems' meeting, Aspen, CO, 2005.
- Center for Star Formation Studies, NASA Ames Research Center, 2001.
- Southwest Research Institute, Boulder, CO, 2001.
- Steward Observatory, University of Arizona, Tucson, AZ, 2000.

CONFERENCE PROCEEDINGS & PRESENTATIONS

Approximately 40 talks at AAS, DPS, AGU, Astrobiology, and Gordon conferences.

FUNDING HISTORY

• Photo-evaporation and the Formation of Planetesimals NASA Origins of Solar Systems	$\begin{array}{c} 2005 \\ \$199 \mathrm{K \ total} \ / \ 3 \ \mathrm{years} \end{array}$
 Capability Development for Modeling Young Solar System Evolution SWRI Internal R&D Program 	2004 \$115K
• Photometry and Evolution of the Jovian Ring System NASA Jupiter System Data Analysis Program Throop scientific PI; Esposito institutional PI	1999 \$120K total / 2 years

OBSERVING PROGRAMS

• Are There Large Dust Grains in Orion's Circumstellar Disks?	2001
	HST GO 9125, 10 orbits \$70K
	010IX
• The Structure and Kinematics of Irradiated Disks and Associated	1999
High-velocity Features in Orion (Co-1)	HS1 GO 8324, 11 orbits \$70K