

JOHN T. TRAUGER

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CURRENT ACTIVITIES

Dr. Trauger is developing high-contrast imaging techniques and mission concepts for the direct imaging of exoplanetary systems from space, including coronagraph design and implementation, deformable mirror technologies for active wavefront control, laboratory testbed demonstrations, and the inception of the High Contrast Imaging Testbed at JPL. He was Principal Investigator for the Wide Field and Planetary Camera 2 (WFPC2) on the Hubble Space Telescope, and has served on various NASA HST, JWST, and ExEP science advisory groups.

PROFESSIONAL EXPERIENCE

- 1997– Senior Research Scientist, Jet Propulsion Laboratory
- 2004– Supervisor, Origins of Stars and Planets Research Group, Astrophysics and Space Science Section, Science Division, Jet Propulsion Laboratory, Caltech
- 1985–2009 Principal Investigator, Hubble Space Telescope Wide Field and Planetary Camera 2
- 1986–1997 Member, Hubble Space Telescope Science Working Group, Instrument Development Working Group, Servicing Science Working Group, User's Committee

EDUCATION

- PhD, Physics, University of Wisconsin (Madison)
- BA, Physics, Oberlin College

HONORS

- NASA Outstanding Leadership Medal, for the scientific development of the Wide Field and Planetary Camera 2 for the Hubble Space Telescope (1994).
- Harold Masursky Award of the AAS Division of Planetary Sciences (1997).
- Asteroid 5968 Trauger (1998).

RECENT PUBLICATIONS

- J. Trauger *et al.*, “Complex apodization Lyot coronagraphy for the direct imaging of exoplanet systems: design, fabrication, and laboratory demonstrations,” *Proc. SPIE* **8442**, 844204, 2012; and *Final Report* to the NASA Strategic Astrophysics Technology / Technology Demonstrations for Exoplanet Missions program, 2012.
- J. Trauger *et al.*, “ACCESS – A concept study for the direct imaging and spectroscopy of exoplanetary systems,” *Proc. SPIE* **7731**, 773128, 2010; *Pathways towards Habitable Planets*, *ASP Conf. Series* **430**, 375, 2010; and *Final Report* to the NASA Astrophysics Strategic Mission Concept Studies Program, 2009.
- J. Trauger and W. Traub, “A laboratory demonstration of the capability to image an Earth-like extrasolar planet,” *Nature* **446**, 771, 2007.
- J. Trauger *et al.*, “Laboratory demonstrations of high-contrast imaging for space coronagraphy,” *Proc. SPIE* **6693**, 66930X, 2007.