

## **Glenn Orton**

*Senior Research Scientist, NASA Jet Propulsion Laboratory*

### *Research Interests*

Infrared astronomy  
Planetary atmospheres  
Infrared spectroscopy

Over 42 years of experience in remote sensing of planetary atmospheres using Earth-based and spacecraft instrumentation. Member of spacecraft experiment teams on: Pioneers 10/11, Galileo (Interdisciplinary Scientist, Co-I on 3 instruments), Cassini, Juno; and a collaborating astronomer on ESA's Infrared Space Observatory and Herschel Space Telescope. Principal and Co-Investigator on open calls for the Hubble, Spitzer and Herschel Space Telescopes. Leader of the NASA Infrared Telescope Facility observing campaign for the 1994 Comet Shoemaker-Levy 9 impact into Jupiter and contributor to ground-based support campaigns for Pioneers 10/11, Galileo, Cassini and Juno. Created the model of Jupiter's atmosphere used for the Galileo Probe design and the model of the spectrum of Uranus used as a calibration standard for Herschel. Author of 258 articles or book chapters published or in press, and principal author of 44 of these. Mentor to over 200 student interns and 10 postdoctoral fellows.

### ***Selected Awards***

- NASA Medal for Outstanding Scientific Achievement this year (2015)
- NASA Group Achievement Award, Juno Proposal Team & Juno Science Team (2012)
- NASA Medal for Exceptional Scientific Achievement (1997)
- Honorary Fellow of the Royal Astronomical Society (UK), 2019