

## WILLIAM EDWARD McCLINTOCK

**Education:** B.A., Physics, 1968, The Johns Hopkins University, Baltimore, Maryland  
M.A., Physics, 1971, The Johns Hopkins University  
Ph.D., Physics and Astrophysics, 1977, The Johns Hopkins University

**Appointments:** Research Associate, Joint Institute for Laboratory Astrophysics and Laboratory for Atmospheric and Space Physics, University of Colorado, January 1977 to January 1978  
Research Associate, Laboratory for Atmospheric and Space Physics, University of Colorado, January 1978 to 1999  
Lecturer, Department of Aerospace Engineering Sciences, University of Colorado, September 1986 – January 1992  
Senior Research Associate, Laboratory for Atmospheric and Space Physics, University of Colorado, January 2000 to present

**Awards:** NASA Distinguished Public Service Metal (2019)

### Programs:

2000 – 2017 Principal Investigator, “Mercury Atmospheric and Surface Composition Spectrometer for the MESSENGER Mercury Orbiter Mission.”  
2006 – 2010 Co-Investigator and instrument scientist, Cloud Imaging and Particle Size Experiment on the Aeronomy of Ice in the Mesosphere Mission”  
2011 – 2018 Co-Investigator and instrument scientist, Imaging Ultraviolet Spectrograph on the Mars Atmosphere and Volatile Evolution Mission”  
2013 – Present Deputy Principal Investigator, Global Scale Observations of the Limb and Disk Mission of Opportunity flying on SES-14”

### Relevant Publications:

- W. E. McClintock, D. W. Rusch, G. E. Thomas, A. W. Merkel, M.R. Lankton, V.A. Drake, S. M. Bailey, and J. M. Russell III , The Cloud Imaging and Particle Size Experiment on the Aeronomy of Ice in the Mesosphere Mission: Instrument Concept, Design, Calibration, and On-Orbit Performance, *J. Atmos. Solar-Terr. Phys.*, 71, no 3-4, p 340, 2009.
- William E. McClintock, Noam R. Izenberg, Gregory M. Holsclaw, David T. Blewett, Deborah L. Domingue, James W. Head III, Jörn Helbert, Timothy J. McCoy, Scott L. Murchie, Mark S. Robinson, Sean C. Solomon, Ann L. Sprague, Faith Vilas, Spectroscopic Observations of Mercury’s Surface Reflectance during MESSENGER’s First Mercury Flyby, *Science*, 321, no 5885 p 62, 2008.
- William E. McClintock, E. Todd Bradley, Ronald J. Vervack, Jr., Rosemary M. Killen, Ann L. Sprague, Noam R. Izenberg, Mercury’s Exosphere: Observations During MESSENGER’s First Mercury Flyby, *Science*, 321, no 5885, p 92, 2008.
- William E. McClintock, Ronald J. Vervack, Jr., E. Todd Bradley, Rosemary M. Killen, Nelly Mouawad, Ann L. Sprague, Matthew H. Burger, Sean C. Solomon, and Noam R. Izenberg, MESSENGER observations of Mercury’s Exosphere: Detection of Magnesium and Distributions of Species, *Science*, 324, no 5927, p 610, 2009.
- W. E. McClintock, Schneider, N.M., Holsclaw, G.M., Clarke, J.T., Hoskins, A.C., Stewart, I., Montmessin, F., Yelle, R.V., Deighan, J., 2014. The Imaging Ultraviolet Spectrograph (IUVS) for the MAVEN Mission. *Space Science Reviews* 54. doi:10.1007/s11214-014-0098-7
- R. W. Eastes, Solomon, S.C., Daniell, R.E., Anderson, D.N., Burns, A.G., England, S.L., Martinis, C.R., McClintock, W.E., 2019. Global-Scale Observations of the Equatorial Ionization Anomaly. *Geophysical Research Letters* 46, 9318–9326. doi.org/10.1029/2019GL084199
- K. Greer, K., R. W. Eastes, W. E. McClintock, A. G. Burns, D. W. Rusch, and S. C. Solomon, On GOLD observations and modeling of variations of lower thermospheric FUV emissions, *J. Geophys. Res. Space Physics*, 125, e2020JA027810, doi:10.1029/2020JA027810, 2020
- W. E. McClintock, Richard W. Eastes, Alan C. Hoskins, Oswald H.W. Siegmund, Jason B. McPhate, Andrey Krywonos, Stanley C. Solomon, and Alan G. Burns, Global-scale Measurements of the Limb and Disk (GOLD) Mission Implementation: 1. Instrument Design and Early Flight Performance, *J. Geophys. Res. Space Physics*, 125, e2020JA027797, doi:10.1029/2020JA027797, 2020.
- W.E. McClintock., et al., Global-scale Measurements of the Limb and Disk (GOLD) Mission Implementation: 2. Observations, Data Pipeline and Level 1 Data Products, *J. Geophys. Res. Space Physics*, 125, e2020JA027809, doi:10.1029/2020JA027809, 2020.