

## FRAN BAGENAL

Born: November 4, 1954, Dorchester, England      Naturalized US citizen (9/6/2001)

### EDUCATION

1973-1976      University of Lancaster, BSc in Physics and Geophysics  
1976-1981      Massachusetts Institute of Technology, Ph.D. Earth & Planetary Sciences.

### APPOINTMENTS SINCE 1990

2015-      Professor Emeritus, University of Colorado  
1992-      Senior Research Scientist, Laboratory for Space & Atmospheric Physics  
1999-2015      Professor, Department of Astrophysical and Planetary Sciences  
1995-6, 1997-2001, 2005-6, 2009-10 Associate Chair, APS Dept.  
1993-1999      Associate Professor, APS Dept.  
1989-1993      Assistant Professor, APS Dept., University of Colorado, Boulder

### AWARDS

2023      NASA Exceptional Public Service Medal for Juno Prime Mission  
2021      Member of the National Academy of Sciences  
2019      Fellow of the American Astronomical Society  
2018      James Van Allen Lecture award, American Geophysical Union  
2006      Fellow of the American Geophysical Union  
1981, 1986, 1990, 1996, 1997, 1998, 1999, 2002, 2012, 2013, 2015, 2016, 2017  
NASA Group Achievement Awards for contributions to Voyager, Galileo, Deep Space 1,  
New Horizons, Juno missions  
2010      Boulder Faculty Assembly's Excellence in Research Award

### RESEARCH

I have specialized in the fields of planetary magnetospheres and the solar corona, synthesizing data analysis and theory. I have been involved in NASA missions to planetary objects including Voyager, Galileo, Deep Space 1, New Horizons and Juno. I stopped teaching in 2015 in order to focus on New Horizons and Juno missions.

*Book:* Jupiter: Planet, Satellites, Magnetosphere, eds. Bagenal, Dowling, McKinnon, Cambridge University Press, 2004

*Book Chapters:* 33 (12 first-authored) in range of books from public to textbook to monograph.

*Journal Articles:* 234 articles, 30 first-authored, 32 authored by supervised student. H-index = 54

*Press Articles:* 13 articles from News & Views in *Nature* to *Sky & Telescope*

### Sample Publications:

1. Empirical model of the Io plasma torus: Voyager measurements, **Bagenal, F., J. Geophys. Res.**, 99, 11043-11062, doi:10.1029/93JA02908, 1994
2. *Jupiter: Planet, Satellites, Magnetosphere*, eds. **Bagenal**, Dowling, McKinnon, Cambridge University Press, 2004
3. Flow of mass and energy in the magnetospheres of Jupiter and Saturn, **Bagenal, F., & Delamere, P. A.**, *J. Geophys. Res.*, 116, A05209, doi:10.1029/2010JA016294, 2011
4. Planetary Magnetospheres, F. **Bagenal**, in *Planets, Stars and Stellar Systems. Volume 3: Solar and Stellar Planetary Systems*, T.D. Oswalt, L. French, P. Kalas (eds.), Springer Dordrecht 2013
5. Pluto' interaction with its space environment: Solar wind, energetic particles, and dust, **Bagenal, F., Horányi, M., McComas, D. J., McNutt, R. L., Elliott, H. A., Hill, et al.** *Science*, 351, aad9045, doi:10.1126/science.aad9045, 2016
6. The space environment of Io and Europa, F. **Bagenal**, V. Dols, *JGR*, 125, 2020
7. Enhancing demographics and career pathways of the space physics workforce in the US, F. **Bagenal**, *Frontiers Astron. Space Sci.* 10:1130803, 2023