

## **James William LaBelle**

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Dartmouth College  
Hanover, New Hampshire 03755

### **Date and Place of Birth**

June 21, 1958          Denver, Colorado (*U.S. citizen*)

### **Education**

June, 1980              B.S., Physics, Stanford University  
August, 1982            M.S., Applied Physics, Cornell University  
August, 1985            Ph.D., Applied Physics, Cornell University

### **Career Summary**

1995-                    Associate Professor, Department of Physics and Astronomy,  
Dartmouth College, Hanover, New Hampshire  
1989-1995              Assistant Professor, Department of Physics and Astronomy,  
Dartmouth College, Hanover, New Hampshire  
1987-1989              Research Associate, Center for Atmospheric and Space Science,  
Utah State University, Logan, Utah  
1985-1987              Postdoctoral Associate, Max-Planck Institute  
for Extraterrestrial Physics, Garching, West Germany

### **Awards and Fellowships**

McMullen Fellowship for Graduate Study, 1980-1981  
Presidential Young Investigator Award, 1990-1995  
Dartmouth Junior Faculty Fellowship, Spring 1993

### **Graduate Students Supervised**

E. Gewirtz (M.Eng., 1992), A. Yue(M.S., 1993), A.T. Weatherwax (PhD, 1994),  
E.J. Lund (PhD, 1995), D. Ruppert (M.S., 1995), J.M. Jahn (PhD, 1997),  
S.G. Shepherd (PhD, 1998), K.L. McAdams (PhD, 1999), J. Clapper (M.S., 1999),  
J.M. Hughes (PhD, 2000), M. Samara, S. Ye

### **Recent Collaborators**

C.A. Kletzing (U Iowa), R.E. Ergun (U Colorado), K.A. Lynch (Dartmouth),  
R.E. Denton (Dartmouth), P.H. Yoon (U Maryland), A.T. Weatherwax (Siena College),  
R.L. Arnoldy (UNH), P.M. Kintner (Cornell U), J.M. Hughes (U Alaska),  
V. Sonwalkar (U Alaska), M. Lessard (Dartmouth), R.A. Treumann (Max-Planck Inst),  
U.S. Inan (Stanford U), T.J. Rosenberg (U Maryland), J.H.A. Sobral (INPE/Brazil),  
R.F. Pfaff (NASA/Goddard), S. Bounds (U Iowa), J. Clemmons (Aerospace Corp.)

### Selected Recent Publications

- LaBelle, J., D.R. Ruppert, and R.A. Treumann, A statistical study of banded magnetospheric emissions, *J. Geophys. Res.*, *104*, 293, 1999.
- Shepherd, S.G., J. LaBelle, C.W. Carlson, and G. Rostoker, The latitudinal dynamics of auroral roar emissions, *J. Geophys. Res.*, *104*, 17217, 1999.
- McAdams, K.L., and J. LaBelle, Narrowband structure in HF waves above the Langmuir frequency in the auroral ionosphere, *Geophys. Res. Lett.*, *26*, 1825, 1999.
- LaBelle, J., K.L. McAdams, and M.L. Trimpi, Structured low and medium frequency whistler mode emissions in the auroral ionosphere, *J. Geophys. Res.*, *104*, 28101, 1999.
- McAdams, K.L., J. LaBelle, M.L. Trimpi, P.M. Kintner, and R.A. Arnoldy, Rocket observations of banded structure in HF waves near the Langmuir frequency in the auroral ionosphere, *J. Geophys. Res.*, *104*, 28109, 1999.
- McAdams, K.L., R.E. Ergun, and J. LaBelle, HF Chirps: Eigenmode trapping in density depletions, *Geophys. Res. Lett.*, *27*, 321, 2000.
- Hughes, J.M., J. LaBelle, and M.L. Trimpi, A medium frequency interferometer for studying auroral radio emissions, *Rev. Sci. Instruments*, *71*, 3200, 2000.
- Yoon, P.H., A.T. Weatherwax, and J. LaBelle, Discrete electrostatic eigenmodes associated with ionospheric density structure, *J. Geophys. Res.*, *105*, 27589, 2000.
- Hughes, J.M., and J. LaBelle, First observations of flickering auroral roar, *Geophys. Res. Lett.*, *28*, 123, 2001.
- Hughes, J.M., J. LaBelle, and J. Watermann, Statistical and case studies of  $2f_{ce}$  auroral roar observed with a medium-frequency interferometer, *J. Geophys. Res.*, *106*, 21147, 2001.
- Hughes, J.M., and J. LaBelle, Joint incoherent scatter radar/medium frequency interferometer observations of auroral roar, *J. Geophys. Res.*, *106*, 21157, 2001.
- LaBelle, J., and J.M. Hughes, Observations of Auroral Roar Emissions at Polar Cap Latitudes: Results from the Early Polar Cap Observatory, *Radio Sci.*, *36*, 1859–1868, 2001.
- Greenberg, E.M., and J. LaBelle, Measurement and modeling of auroral absorption of HF radio waves using a single receiver, *Radio Sci.*, *37*, 10.1029/2000RS002550, 2002.
- Weatherwax, A.T., P.H. Yoon, and J. LaBelle, Model results and interpretation related to topside observations of auroral roar, *J. Geophys. Res.*, *107*, 10.1029/2001JA000315, 2002.
- LaBelle, J., and A.T. Weatherwax, Statistical study of auroral roar emissions observed at South Pole Station, *J. Geophys. Res.*, *107*, 10.1029/2001JA000319, 2002.
- LaBelle, J., and R.A. Treumann, Auroral Radio Emissions, 1. Hisses, Roars, and Bursts, *Space Sci. Rev.*, *101*, 295–440, 2002.
- Denton, R.E., J. LaBelle, and X. Zhu, Location of Pc1 waves relative to the magnetopause, *Ann. Geophys.*, *20*, 1763–1767, 2002.
- LaBelle, J., P.H. Yoon, M. Karlicky, and R.A. Treumann, A model of zebra burst emission in solar radio bursts, *Astrophys. J.*, *593*, 1195–1207, 2003.