

Patrick Ray Briggs

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Professional Position

Associate Professor of Physics The Citadel, Charleston, SC	1986 – present
Assistant Professor of Physics The Citadel, Charleston, SC	1981 – 1986

Education

Ph.D. (Space Physics)	University of Kansas, Lawrence, KS	1982
	Dissertation: <i>Solar and Interplanetary Ions Near Earth.</i>	
B.A. (Physics)	California State Univ. – Sacramento	1975

Papers, Presentations and Monographs – Space Physics

Briggs, P.R., T.P. Armstrong, and S.M. Krimigis. Hydrogen Over Helium Enhancement In Successive Solar Flare Particle Events From the Same Active Region. *The Astrophysical Journal*, **228**:L83-L87, 1979 March 1.

Briggs, P.R. and T.P. Armstrong. Sector Ion Clouds. American Geophysical Union , Spring Meeting, Washington DC, 1981.

Briggs, Patrick R. and Thomas P. Armstrong. Medium Ion Increases, Solar Flares, and Sector Boundaries. XVIIth International Cosmic Ray Conference, Paris, July 1981.

Kutchko, F.J., P. R. Briggs, and T.P. Armstrong. The Bidirectional Particle Event of October 12, 1977, Possibly Associated With a Magnetic Loop. *Journal of Geophysical Research*, A, vol. 87, no. 3 (March 1, 1982), pp. 1419-1431.

Adams, F.P. , P.R. Briggs, and S. Eckes. High-Energy Interplanetary Electrons and Protons 1972-1982. Poster Paper, American Geophysical Union, Fall Meeting, San Francisco, 1983.

- Briggs, Patrick R. and Thomas P. Armstrong. Observations of Interplanetary Energetic Ion Enhancements Near Magnetic Sector Boundaries. *Geophysical Research Letters*, vol. 11, no. 1, pp. 27-30, January 1984.
- Shields, J.C., T.P. Armstrong, S.P. Eckes and P.R. Briggs. Solar and Interplanetary Ions at 2-4 MeV/nucleon During Solar Cycle 21: Systematic Variations of H/He and He/CNO Ratios and Intensities. *Journal of Geophysical Research, A*, vol. 90, no. 10 (Oct. 1, 1985), pp. 9439-9453.
- Armstrong, T.P., D. Venkatesan, D. Hudon, P. Briggs, S. Krishnaswamy, and T. Rosenberg. A Large 30 MHz Riometer Absorption Event at South Pole Associated with Interplanetary Ions Below 10 MeV. American Geophysical Union, Fall Meeting, San Francisco, 1985.
- MERGE Manual. Data from Interplanetary Monitoring Platform 1973 - . 1990.
- P.R. Briggs, E. Aguirre, L. Sollitt. A New Algorithm for Assigning Fluxpoint Energies to Solid State Detector Passbands. American Geophysical Union, Fall Meeting, San Francisco, 2011.
- L. S. Sollitt, E. Aguirre, P. Briggs. Toward A More General Technique to Infer Ionic Charge States of Solar Energetic Particles. American Geophysical Union, Fall Meeting, San Francisco, 2011.
- P. R. Briggs, L. Sollitt, The Citadel; A. Smirnova, Academic Magnet HS. Abundances of High-Energy Iron and Oxygen in the Interplanetary Medium During Solar Events. SACS-AAPT Fall Meeting 2015 (poster).

Papers, Presentations, Workshops and Monographs – Science Education

- Williams, W.R. and P.R. Briggs. Science Experiments in the Middle School. *Middle School Journal*, 5/88, pp. 21-24.
- Briggs, P.R. and W.R. Williams. *Design and Use of Physical Science Experiments for Secondary Schools*, Summer Workshop. Funded by E.E.S.A. (1986), Chas. County School District (1987).
- Adelman, S.J. and P.R. Briggs. *Astronomy in the Elementary Classroom*. 1992-1993. NASA Educational Grant NAGW 3225.
- Adelman, S.J. and P.R. Briggs. *Teachers Need Help*. 1992-1993. Supplement to NASA Grant 5-1402.
- South Carolina Curriculum Congress. Spring Forum. April 1994.
- Adelman, S.J. and P.R. Briggs. *Project LUNAR*. 1994-1995. NASA Educational Grant NAGW 3225.
- Adelman, S.J. and P.R. Briggs. *Project LUNAR II*. 1995-1996. Idea Program.
- Adelman, S.J. and P.R. Briggs. *Project LUNAR III*. 1996-1997. Idea Program ED-90053.01-95A, STSI.
- Troops-to-Teachers Project, Education Dept., The Citadel. 2000 – 2001.
- Staff Development workshops: *Science Instruction*, Stratford HS, BCSD (10/1987); *Classroom Laboratory Experiments*, Holly Hill-Roberts HS, BCSD (8/1988); *Gear-Up Kite Project*, Schroeder MS, CCSD (10/2004).
- GEAR-UP Presentations: *Drinking Straw Kites*. April, 2001; January 2-5, 2005.

Externally Funded Research

Briggs, P. R. and J. Near. *Measuring and Quantifying Diurnal Variation of Stratospheric Cosmic Rays*. SC Space Grant Mini-REAP program; 2018-2019. \$9750

Scholarly and Honor Societies

American Geophysical Union

American Association of Physics Teachers