

Neil E. Miller
University of South Carolina – Aiken
Department of Chemistry and Physics
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Education

- 1993 – 1995 Graduate Studies in Astrophysics
 University of Oklahoma
 Norman, OK
- 1993 M.S. – Physics (Concentration in Astrophysics)
 Clemson University
 Clemson, SC
 Thesis: Dynamics of Galactic Globular Clusters
- 1989 B.S. – Physics
 State University of New York at Oswego
 Oswego, NY

Teaching Experience

- 2003 – present Instructor of Physics
 University of South Carolina – Aiken
 Aiken, SC
- Introduction to Physical Science (APHY101)
 - General Physics I & II (APHY201, APHY202)
 Ms. Lindsey Padgett – Honors APHY201 – Fall 2007
 - Independent Study (APHY399)
 Ms. Jennifer Irons – Biological Physics – Fall 2007
- 2002 – 2003 Lecturer of Physics
 Penn State – Berks Campus
 Reading, PA
- Technical Physics I & II
- 2000 – 2002 Visiting Lecturer
 Alvernia College
 Reading, PA
- Introduction to Weather (Online)
- 1995 – 2000 Visiting Instructor of Physics
 Lander University
 Greenwood, SC
- General Physical Science
 - Earth and Space Science
 - Introductory Physics

Honors

- 2003 – present Meritorious Annual Evaluations from Chemistry and Physics Department
 University of South Carolina – Aiken
 Aiken, SC
- 1992 & 1993 Graduate Teaching Award from Physics and Astronomy Department
 Clemson University
 Clemson, SC

Professional Service Activities

2010 March	Principal planner of the Spring meeting of SACS-AAPT at USC Aiken
2009 – present	Member of the USC Aiken Interdisciplinary Studies program
2008 – present	USC Aiken Chemistry and Physics Recruitment Committee member
2008 Nov.	Attended the Meeting of the Association of American Colleges and Universities Engaging Science, Advancing Learning: General Education, Majors, and the New Global Century Providence, RI
2008 August	Freshman Convocation Discussion leader for the book <i>Not For Sale</i>
2007 August	Freshman Convocation Discussion leader for the book <i>The Color of Water</i>
2006 – present	USC Aiken Chemistry and Physics Weather Station Manager
2006 – 2009	USC Aiken American Democracy Project Committee member
2006	USC Aiken Search committee for research associate in Computation/Computer Modeling.
2006 May	NSF Chautauqua short course for Radio Astronomy in the Undergraduate Classroom at MIT Haystack Observatory
2005 – 2007	USC Aiken Judicial Procedures Advisor
2005	Reviewed textbook <i>Essentials of Physics</i> by Cutnell & Johnson for John Wiley and Sons, Inc.
2004 – present	USC Aiken Undergraduate Faculty Advisor
2004 April	National Science Teachers Association convention in Atlanta, GA

Non-Professional Service Activities

2010 April	Judge for the SC Academy of Sciences at College of Charleston
2008 – 2010	Enrichment Week at Aiken Elementary School
2008 Jan.	Science Night at Oakwood-Windsor Elementary
2007 Sept.	Augusta Astronomy Club – Guest Speaker – Gamma Ray Astronomy
2007 Feb.	Augusta Astronomy Club – Guest Speaker – Galactic Globular Clusters
2004 – present	Aiken Elementary School (various talks about astronomy and physics)
2004 – present	Aiken Girl Scouts (volunteer)
2004 March	Judge for the CSRA Regional Science and Engineering Fair at USC Aiken
2003 – present	USC Aiken Ruth Patrick Science Education Center (astronomical observing sessions)
2003 – present	Head Soccer Coach U7, U9 in Aiken, SC
1999	Judge for the South Carolina Junior Academy of Science at Lander University in Greenwood, SC

Research and Publications

Ulbrich, C. and Miller, N. E.

Experimental Test of the Effects of Z-R Law Variations on Comparison of WSR-88D Rainfall Amounts with Surface Rain Gauge and Disdrometer Data
Weather and Forecasting – June 2001

Installation of meteorological equipment and analysis of disdrometer data used for radar calibration with Dr. Carlton Ulbrich.

Summers 1997-99

Clemson Atmospheric Research Laboratory

Clemson University

Clemson, SC

Miller, N. E., Hartmann, D., Malinie, G, and Mathews, G. 1993

On inhomogeneous halo collapse and the globular cluster metallicity gradient.

Structure and Dynamics of Globular Clusters.

ASP Conference Series, 50, 263.

eds. S.G. Djorgovski and G. Meylan.

Miller, N. E., Mathews, G., and Malinie, G. 1993.

Dissipational halo collapse and the globular cluster metallicity gradient.

Back to the Galaxy.

NASA/GSFC Conference Proceedings No. 278, 524.

eds. S. S. Holt and F. Verter.

