

Charles F. Niederriter
Gustavus Adolphus College
St. Peter, MN 56082

(a) Professional Preparation

Gannon College (University)	Physics	B.S., 1978
Ohio University	Physics	M.S., 1985
Ohio University	Physics	Ph.D., 1985

(b) Appointments

Professor, Gustavus Adolphus College, 2000-present
Associate Professor, Gustavus Adolphus College, 1991-2000
Assistant Professor, Gustavus Adolphus College, 1985-1991
Director, Academic Computing, Gustavus Adolphus College, 1987-1988
Graduate Assistant, Ohio University, 1979 – 1985
Scientist in Corporate Research and Development, Lord Corporation, 1979-1981

(c) Publications

Significant Publications:

Sieling, J.D.; Berg, D.A.; **Niederriter, C.F.** Energy Storage Systems for Peak Shaving as a Complement to Wind Power at Gustavus Adolphus College, Paper presented at the American Association of Physics Teachers, January 2007.

Niederriter, C.F.; Ferkinhoff, C. D.; Lee, J. A.; Hayek, S. G. Wind? The Feasibility of Wind Power at Gustavus Adolphus College, Paper presented at the American Association of Physics Teachers, August 2005.

Niederriter, C.F. Observational Exercises for Introductory and Advanced Astronomy Courses, Paper presented at the American Association of Physics Teachers, August 2003.

Niederriter, C.F.; Scherbring, P.R. Spectroscopy in Introductory Astronomy Courses, Paper presented at the American Association of Physics Teachers, August 2000.

Niederriter, C.F.; Smerdon, J.; Asleson, D.; Cunningham, M. Formation of Thin Polymeric Films in Direct-Current Plasma, Paper presented at the March Meeting of the American Physical Society, March, 2000.

Other Significant Publications:

Niederriter, C.F.; Potts, L.W., Surface Science Experiments in Materials Science Laboratory, Paper presented at the American Association of Physics Teachers, August 1997.

Niederriter, C.F.; Potts, L.W., A Water Plasma Experiment in an Intermediate Materials Science Course, Paper presented at the American Association of Physics Teachers, August 1997.

Niederriter, C.F.; Ibrahim, M; Mullerlielle, M A Using Supercomputing and Modern Visualization Techniques to Introduce Modeling in Introductory Astronomy, Paper presented at the American Association of Physics Teachers, August 1995.

Niederriter, C.F.; Cappelletti, R.L.; Boolchand, P. Correlation of electrical conductivity with Mossbauer and Raman results in the alloy glass Germanium Tin Diselenide, Solid State Communications, 61:9 (1987).

Niederriter, C.F.; Lightly, D.; Obradovic, B. Cunningham, M. The Optical Energy Gap in Silicon Telluride Glasses at Room Temperature, Paper presented at the March Meeting of the American Physical Society, March, 1993.

(d) Synergistic Activities

- Chair of Nobel Conference 41, *The Legacy of Einstein* (2005) – organized conference with ~5,000 attendees.
- Co-Chair of Conference, *Computational Science in Undergraduate Education* (1999) – organized conference with ~50 attendees.
- Chair of Nobel Conference XXXIII, *Unveiling the Solar System: 30 Years of Exploration* (1997) – organized conference with ~4,500 attendees.
- Chair of Nobel Conference XXXI, *The New Shape of Matter: Materials Challenge Science* (1995) – organized conference with ~3,500 attendees.
- Minnesota Section Representative to American Association of Physics Teachers (2001-present); represent Minnesota Section at AAPT Council meetings.
- Advisor to Gustavus Chapters of Society of Physics Students and Sigma Pi Sigma (1998-2006); organized meetings and outreach programs, including *Science on Saturday*
- Sigma Xi Officer, Secretary (2003-2004), Vice President (1994-1995), President (1995-1996); organized chapter events and speakers

(e) Collaborators & Other Affiliations

Collaborators & Co-Editors:

Mellema, Steven of Gustavus Adolphus College

Huber, Thomas of Gustavus Adolphus College

Saulnier, Paul of Gustavus Adolphus College

Thesis Advisor:

Cappelletti Ronald C. of Ohio University, Athens, Ohio