

## GARY E. GLADDING

Department of Physics • University of Illinois at Urbana-Champaign  
211 Loomis Laboratory • 1110 West Green Street  
Urbana, IL 61801-3080  
217-333-0864 (phone); 217-244-4293 (fax); [geg@uiuc.edu](mailto:geg@uiuc.edu)

### Education:

B.S., Physics	University of Illinois, Urbana, IL	1965
A.M., Physics	Harvard University, Cambridge, MA	1968
Ph.D., Physics	Harvard University, Cambridge, MA	1971

### Professional Employment:

Associate Head for Undergraduate Programs, Department of Physics, UIUC	1997–present
Professor, Department of Physics, UIUC	1985–present
Associate Professor, Department of Physics, UIUC	1977–1985
Assistant Professor, Department of Physics, UIUC	1973–1977
Research Associate, Department of Physics, UIUC	1971–1973
NSF Postdoctoral Fellow, Visiting Scientist, CERN, Geneva	1972

### Honors and Awards:

Scott Rose Award for Teaching Excellence, 1998  
Campus Honors Faculty, 1987–present  
Associate, Center for Advanced Study, University of Illinois, 1981–82, 1989–90  
Fellow in Interdisciplinary Studies, University of Illinois, 1978  
NSF Postdoctoral Fellowship, 1972

### Selected Research Achievements:

Studies of charmed meson decays (including searches for  $D^0 - \bar{D}^0$  mixing) using the CLEO detector featuring its silicon vertex detector (CLEO collaboration at Cornell, 1994–present).  
Studies of the decays of B mesons produced in the decays of the  $Z^0$  boson (SLD collaboration at Stanford, 1988–1994).  
Initial detailed studies of particles containing the charmed quark (MARK III collaboration at Stanford, 1981–1988).  
The first studies of the photoproduction of particles containing the charmed quark. (E-87A, E-401 at Fermilab, 1973–1981).

### Teaching Highlights:

Currently lead curriculum revision effort for introductory calculus-based physics sequence at the University of Illinois. This effort has spanned three years, involved over 30 faculty, and affected 10,000 science and engineering undergraduate students.  
Taught regular seminars in the Campus Honor Program, usually focused on the history, philosophy, and sociology of science.  
Taught “Physics for Poets” courses, making extensive use of the World Wide Web (<http://webbug.physics.uiuc.edu/courses/phys150/spring96/>).  
Founded the Program in Science, Technology and Society at the University of Illinois and served as Director (1983–89).  
Developed a new course, Physics/Philosophy 319, “Space, Time and Matter,” which explores the conceptual foundations of modern physics. Also taught this course as a visiting professor at the University of California, Santa Cruz (1989)..

**Invited Presentations related to Physics Education:**

- “Reform Across the Disciplines: Physics OR Old Wine in New Bottles,” *Sixth Conference on the Teaching of Mathematics*, Milwaukee, WI (June 20, 1997).
- “Re-engineering the calculus-based elementary physics sequence at the UIUC,” Department of Physics, Cornell University (Ithaca, NY, November 17, 1997).
- “Re-engineering the calculus-based elementary physics sequence at the UIUC,” *Building Undergraduate Physics Programs for the 21st Century* (Arlington, VA, October 2-4, 1998).
- “Re-Engineering the Calculus-Based Elementary Physics Sequence at Illinois OR Old Wine in New Bottles,” UMass Colloquium, University of Massachusetts, Amherst, MA (October 7, 1998).
- “Re-Engineering the Calculus-Based Elementary Physics Sequence at Illinois OR Old Wine in New Bottles,” UW Colloquium, University of Washington, Seattle, WA (November 30, 1998).

**Publications—Related to Physics Education**

- D.K. Campbell, G.E. Gladding, and C.M. Elliott, “Parallel-Parking an Aircraft Carrier: Revising the Introductory Physics Sequence at Illinois,” *Forum on Education of the Am. Phys. Soc.*, 8-11, (Summer 1997).

**Recent Research Publications**

- T.E. Browder et al. (CLEO Collaboration), “Observation of High Momentum  $\eta'$  Production in  $B$  decays,” *Phys. Rev. Lett.* **81**, 1786–1790 (1998).
- S. Anderson et al. (CLEO Collaboration), “First Search for  $CP$  Violation in Tau Lepton Decay,” *Phys. Rev. Lett.* **81**, 3823–3827 (1998).
- R. Ammar et al. (CLEO Collaboration), “A Limit on the Mass of the Tau Neutrino,” *Phys. Lett. B* **431**, 209–218 (1998).
- M. S. Alam et al. (CLEO Collaboration), “Further Search for the Two Photon Production of the Glueball Candidate  $f_J(2220)$ ,” *Phys. Rev. Lett.* **81**, 3328–3332 (1998).
- M. Athanas et al. (CLEO Collaboration), “First Observation of the Cabibbo Suppressed Decay  $B^+ \rightarrow \text{Anti-D}^0 K^+$ ,” *Phys. Rev. Lett.* **80**, 5493–5497 (1998).