

GREGORY A. DiLISI
Assistant Professor
Appointed 1998

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ACADEMIC DEGREES:

Ph.D.	CASE WESTERN RESERVE UNIVERSITY	1992	Physics
	Dissertation: <i>Oligomeric Liquid Crystals - Viscoelastic Properties and Surface Interactions</i>		
M.S.	CASE WESTERN RESERVE UNIVERSITY	1989	Physics
B.S.	CORNELL UNIVERSITY	1987	Applied and Engineering Physics

PROFESSIONAL EXPERIENCE:

2000 – Present	JOHN CARROLL UNIVERSITY	Assistant Professor of Science Education
1998 – 2000	JOHN CARROLL UNIVERSITY	Visiting Assistant Professor of Science Education
1995 – 1998	JOHN CARROLL UNIVERSITY	Lecturer/Instructor – Physics
1992 – 1995	CASE WESTERN RESERVE UNIVERSITY	Lecturer/Instructor – Physics
1993 – 1995	BEAUMONT HIGH SCHOOL	Lecturer/Instructor – Physics

FACULTY LOAD – most recent years:

AR 171: Early Childhood Science
ED 186: Instructional Technology
ED 335: Middle Childhood Science Methods
PH 107: Physics by Experiment
PH 125: Mechanics
PH 126: Electricity & Magnetism
SI 520: Physical Science
SI 560: Science and Technology

OTHER COLLEGIATE ASSIGNMENTS:

- ◆ Academic Adviser – 15 students
- ◆ Department of Education – webmaster
- ◆ Department Committees: Meet Your Major, Internal Relations, and Freshmen Orientation
- ◆ NCATE/NSTA Program Review for Adolescent/Young Adult Science

PROFESSIONAL AND ACADEMIC ASSOCIATIONS:

- ◆ American Association of Physics Teachers
- ◆ American Physical Society
- ◆ *STARDUST* Educator Fellow – sponsored by the Jet Propulsion Laboratory and the Challenger Center for Space Science Education
- ◆ *CASSINI* Educator Fellow – sponsored by the Jet Propulsion Laboratory and the Challenger Center for Space Science Education
- ◆ WVIZ – TV 25 Content Advisor for Amusement Park Physics video, CD, webpage, and print material

PUBLICATIONS:

1. G. A. DiLisi and R. A. Rarick, *Modeling the 2004 Tsunami for Introductory-Level Physics Courses*, submitted to **The Physics Teacher**, September, 2005.
2. G. A. DiLisi, S. J. Eppell and J. Upton, *Hierarchical Learning Ensembles: Team-Building for Undergraduate Scientists and Engineers*, accepted by the **Journal of College Science Teaching**, July, 2005.
3. G. A. DiLisi, J. Freeman, J. Lanese, and P. Padovan, *Establishing Good Habits for Solving Problems in Introductory Science Courses*, accepted by the **Journal of College Science Teaching**, February, 2005.
4. G. A. DiLisi, L. A. DiLisi, K. M. Peckinpaugh, and C. M. Winters, *Got Milk? A Beer's Law Experiment*, **The Physics Teacher**, Vol. 43, No. 3, pp. 144-147, March, 2005.
5. G. A. DiLisi and Richard Rarick, *Monday Night Football: Physics Decides Controversial Call*, **The Physics Teacher**, Vol. 41, Number 8, pp. 454-459 and cover, November, 2003.
6. *Science is the Solution – Teacher's Guide and Student Activities: A Middle School Multiple Media Program Studying Motion, Gravity, Energy, and Waves*. The packet includes: Teacher's Guide, Student Activities, CD, and Video, published May, 2001.
7. G. A. DiLisi, C. Rosenblatt, and E. Terentjev, *Experimental Behavior of Monomeric, Even-Dimeric, and Odd-Dimeric Oligomeric Liquid Crystalline Systems*, **J. Physique II**, Vol. 3, No. 3, p. 597, 1993.
8. G. A. DiLisi, C. Rosenblatt, and A. C. Griffin, *Bend Elastic Modulus of a Bent and Straight Dimeric Liquid Crystal*, **J. Physique II**, Vol. 2, 1992.
9. G. A. DiLisi, *Oligomeric Liquid Crystals: Viscoelastic Properties and Surface Interactions*, Ph.D. dissertation, Case Western Reserve University Department of Physics, March, 1992.
10. G. A. DiLisi, C. Rosenblatt, R. B. Akins, A. C. Griffin, and U. Hari, *Anchoring Strength Coefficient of a Monomer and its Dimer at a Polymer-Coated Interface*, **Liquid Crystals**, Vol. 11, p. 63, 1992.
11. G. A. DiLisi, C. Rosenblatt, A. C. Griffin, and U. Hari, *Viscoelastic Properties of a Liquid Crystalline Monomer and its Dimer*, **Physical Review A**, Vol. 45, p. 5738, 1992.
12. Z. Li, R. B. Akins, G. A. DiLisi, and C. Rosenblatt, *Anomaly in the Dynamic Behavior of the Electroclinic Effect Below the Nematic-Smectic A Phase Transition*, **Physical Review A**, Vol. 43, No. 2, 1991.
13. Z. Li, G. A. DiLisi, R. G. Petschek, and C. Rosenblatt, *Nematic Electroclinic Effect*, **Physical Review A**, Vol. 41, No. 4, 1990.
14. G. A. DiLisi, C. Rosenblatt, A. C. Griffin, and U. Hari, *Splay Elasticity in an Oligomeric Liquid Crystal*, **Liquid Crystals**, Vol. 8, No. 3, 1990.
15. G. A. DiLisi, C. Rosenblatt, A. C. Griffin, and U. Hari, *Behavior of the Anchoring Strength Coefficient Near a Structural Transition at a Nematic-Substrate Interface*, **Liquid Crystals**, Vol. 7, No. 3, 1990.

GRANTS:

Adapting and Implementing Hierarchical Learning Ensembles: A New Pedagogy for Team-Building and Group Decision Making in Undergraduate Engineering and Science Education, \$106,165.00 awarded by The National Science Foundation, July, 2003.

CONFERENCES ATTENDED & PRESENTATIONS:

- ◆ 2005 American Association of Physics Teachers, Albuquerque, New Mexico – presenter
- ◆ 2004 American Association of Physics Teachers, Miami, Florida – presenter
- ◆ 2003 National Science Teachers Association, Philadelphia, Pennsylvania
- ◆ 2003 American Association of Physics Teachers, Austin, Texas – presenter
- ◆ 2000 “Stardust” Outreach Initiative for Grades 5 – 8, Cocoa Beach, Florida – fellowship recipient
- ◆ 1999 “Cassini” Outreach Initiative for Grade 5 – 8, Pasadena, California – fellowship recipient
- ◆ 1996 Radio Astronomy, Green Bank, West Virginia
- ◆ 1995 Medical Aspects of Space Flight, Cleveland, Ohio
- ◆ 1993 American Physical Society Meeting, Indianapolis, Indiana – presenter
- ◆ 1992 Optics of Liquid Crystals, Cocoa Beach, Florida – poster session
- ◆ 1991 Gordon Conference on Liquid Crystals, Wolfboro, New Hampshire – presenter
- ◆ 1990 Thirteenth International Conference on Liquid Crystals, Vancouver, British Columbia – presenter
- ◆ 1989 Gordon Conference on Liquid Crystals, Wolfboro, New Hampshire – poster session