

George Kolodiy

Rank: Associate Professor

Kean University of New Jersey Morris Ave, Union, NJ 07083

Department: Instruction, Curriculum & Administration

Secondary Dept: Physics, Astronomy

Graduate & Undergraduate Faculty: Appointed: September 1983

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1. Academic Degrees

Ed.D.	Rutgers University	1975	Science Education
M.S.	Drexel University	1970	Physics
B.S.	City College of New York	1968	Physics

Additional Study

American Association of Physics Teachers Workshop-Interfacing a Laser disk with a Computer (1988)

Kean College Faculty/Staff Development program-Intro to Turbo Pascal and Turbo Pascal Data Types (1985-86)

American Association of Physics Teachers Workshop-Microcomputer Interfacing & Advance Interfacing (1983)

New School- Microcomputer Interfacing (summer 1982) & Z80 & 8080 Assembly Language programming (Fall 1982)

New York Institute of Technology- IBM 360/370 Assembly Language Programming (1983)

Online Classes

2012 Introduction to Cosmology (iTunes University)

2012 Cosmology: History and Nature of Our Universe (The Great Courses)

2013 Introduction to Astronomy (Coursera)

2014 Physics and Our Universe (The Great Courses)

2014 Special Relativity (World Science University)

2. Professional Experience

1983-present	Kean University Of New Jersey- Associate Professor: EMSE/ Science Dept.
1997 – 1999	Summer Lecturer: Director for 200 student course Physics 203/204 Rutgers University
1979-1983	Bloomfield College- Assistant Prof. Dept. of Mathematics & Science
1977-1979	Laguardia Community College of C.U.N.Y. Asst. Prof. Dept. of Applied & Nat. Sci.
1976-1977	U.S. Merchant Marine Academy- Asst. Prof. Dept. of Science & Mathematics
1974-1976	New York City Community College of CUNY Instructor- Developmental Studies
1971-1972	Delaware Technical & Community College Instructor, Physics & Mathematics
1968	Intermediate School 210- Teacher of General Science & Mathematics

3. Current Professional & Academic Association Memberships

American Association of Physics Teachers

National Science Teachers Association

Society of College Science Teachers

Association for Computer in Mathematics & Science Teaching

School Science & Mathematics Association

Epsilon Pi Tau

4. Publications

"Teaching in Ukraine on a Fullbright" The Ukrainian Weekly. June 7, 1998.

"Logo in The Science Laboratory", The Computing Teacher. (Feb. 1991)

"Using Logo in The Science Laboratory", Journal of Computers in Mathematics and Science Teaching, (Winter 1991).

"The 'Monkey and the Hunter' and Other Projectile Motion Experiments with Logo" Journal of Computers in Mathematics and Science Teaching. (Fall 1988)

"Using the Turtle to Study Projectile Motion"- The Physics Teacher (Sept 1988).

"Teaching Projectile Motion with a Spreadsheet"- Journal of Computers in Math/Science Teaching Summer 1987.

"A Newtonian World with Logo"-New Jersey Science Teachers Association Bulletin. Vol. 32 (1986).

"A Piaget-Based Integrated Mathematics-Science Program", Journal of College Science Teaching. (Feb. 1984)

"Teaching to Think"- with Steve Friedman, Problem Solving Fall 1983

"How Long Will the Oil Last?", Journal of Computers in Mathematics & Science Teaching, Fall 1983

"An Experiment With a Physical Pendulum", The Physics Teacher, Jan. 1979.

"What Does Piaget Tell Us About Teaching Science?", Proceedings, Minority Institution Curriculum Exchange Conference (NSF) Jan. 1979.

"How Students Learn Velocity & Acceleration?"-Journal of College Science Teaching, March 1977.

5. Books Published

'Integrated Mathematics & Science A Discovery Approach', Burgess Publishing Co.,1992, 1998, 391 pgs

“Teaching Mathematics and Science K-8”; Kendall-Hunt, Preliminary Edition 1994.

6 Presentations, Workshops, and Awards

Fullbright Scholar: 1998: Taught at Kirovhrad Pedagogical University in Ukraine

“Using the Internet to Teach Physics” presentation to meeting of American Association of Physics Teachers, May 2000

“My Fullbright Semester in Ukraine”: Online presentation
<http://www.kean.edu/~gkolodiy/fullbright/s1.htm>

Workshop for Perth Amboy Science: Physics in Your Life. July 2011

Presenter for Earth Science Teachers from Newark: PSI Program in Physics
August 2011

Presentation at CAMS workshops on ‘Using Discussion Boards’ August 20-24, 2007, Kean University

Presenter at Workshop on CAMS Energy Motion and Machines, August 22-26, 2005, Kean University

Presenter at Workshop on CAMS Planetary Science August 21-24, 2006, Kean University

Audited course CMPS with Dr. Stan Lipson Spring 2006

Presenter at NJ Earth Science Teachers Association Conference Workshop: Google Earth, Satellites and Gravity, Kean University, March 24 2007.

Attended Conference on ‘Web 2.0 and Technology in Education’ at Kean University, June 2007.

Participated in following workshops at Kean University:

Presenter: Preparing Tomorrow's teachers to Use Technology: Science Education k-8 (March.2002)

Presenter: Preparing Tomorrow's teachers to Use Technology: Science Education k-8 (Nov.2002)

Presenter: Preparing Tomorrow's teachers to Use Technology: How to use the Smart Board and Wireless Mobile lab (Oct.2002)

Presenter: Preparing Tomorrow's teachers to Use Technology: How to use IMovie (Oct..2002)

Preparing Tomorrow's teachers to Use Technology: Pt3 technology Retreat (April 2002)

Preparing Tomorrow's teachers to Use Technology: Macintosh Applications (Feb. 2003)

Preparing Tomorrow's teachers to Use Technology: Electronic Portfolios (May 2002)

7. Courses Developed at Kean

EMSE 3122 and EMSE 5321 Computers in Education (1990)

EMSE 5223 WWW Technologies for Educators (OnLine Course) (1999)

EMSE 5033 Topics in Teaching Physical Science With Technology (2004)

EMSE 5231 Topics in Physics I for Secondary Science Education (2009)

EMSE 5232 Topics in Physics II for Secondary Science Education (2009)

EMSE 5233 Advanced Topics in Physics for Secondary Science Education (2009)

EMSE 5234 Problem Solving in Physics for Secondary Science Education (2009)

EMSE 5241 Topics in Chemistry for Secondary Science Education I (2010)

EMSE 5242 Laboratory and Demonstration Activities for Chemistry I (2010)

EMSE 5243: Pedagogical Applications in Secondary Science: Chemistry (2010)

EMSE 5244: Topics in Chemistry for Secondary Science Education II (2010)

EMSE 5245 Problem Solving in Chemistry for Secondary Science Education (2010)

EMSE 5246: Advanced Topics in Chemistry for Secondary Science Education (2010)