

CURRICULUM VITAE



NAME: Mike Mikhael

HOME ADDRESS: 131 Andover Avenue
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DATE OF BIRTH: November 8, 1953

MARRIED: Raida Karkenny (1986).

EDUCATION: The University of Texas – El Paso, Texas, M.Sc. - 1984
Al-Mustansiriyah University – Baghdad, Iraq, B. Sc. – 1978

ACADEMIC AWARDS: 1982-1983 Teaching Assistantship, UTEP
1983-1984 Research Assistantship, UTEP
1984-1985 Teaching Assistantship, NMSU

MEMBERSHIP: Member, American Physical Society
Member, American Association of Physics Teachers

ACADEMIC EXPERIENCE: 2010-present Physics Instructor and part-time Laboratory technician, William Paterson University, NJ
2000-present private tutor and working at home via a website www.physicstutor.org
2003-2006 Physics Instructor, Passaic County Community College, NJ
1999-2003 Laboratory Instructor, Bowdoin College, ME
1997-1999 Adjunct Professor, Bergen Community College, NJ
1997-2000 Adjunct Professor, Kean University, NJ
1986-1997 Adjunct Professor and Laboratory Coordinator, Middlesex County Community College, NJ
1986- 1988 Science Teacher, Saint Aloysius High School, Jersey City, NJ

COURSES TAUGHT: General Physics and Labs
College Physics and Labs
Engineering Mechanics
Organic Chemistry
Radiological Physics and Labs
Physical Science and Labs

RESEARCH EXPERIENCE: 1982- 1984 Physics Lab of the University of Texas at El Paso, My research was entitled "Magnetocardiography" which was the detection of the magnetic signal of the electromagnetic wave of the heart by using the SQUID (Superconductor Quantum Interference Device) magnetometer. Part of this research was to learn the techniques of handling liquid nitrogen and liquid helium, vacuum techniques, leak detecting using Varian model 936-40 leak Detector, and Construction and use of Helmholtz coils. Check out the link:
<http://digitalcommons.utep.edu/dissertations/AAIEP02101/>

LAB EXPERIENCE: 1993- 1997 Setting up Physics lab experiments, Budget control, Repair and calibrate physics equipment, Equipment purchasing and inventory, Assist with demonstrations, and Maintain lab equipment and computers.

COMPUTER EXPERIENCE: Word Perfect 5.1, Dos, Graphics, Spreadsheet, Data Base, Windows 95, Windows NT, Word 07, Word, HTML, Dream weaver, Excel, PowerPoint, WebCT, FrontPage, and Internet

AREAS OF INTEREST:

1. Developing new Physics lab experiments with computer based instruction.
2. Using the INTERNET to submit Physics Laboratory Reports.
3. Interactive Lecture Demonstration.

PUBLICATIONS:

“Biomagnetic Measurements with Applied Magnetic Field.” Biomedical Sciences Instrumentation, Instrument Society of America, 1985

Co-author of paper entitled “Magnetocardiography.” Which was presented at the American Physical Society meeting in Denton, Texas, November 1983.

WORKSHOPS ATTENDED:

“Navigating Learning through Objectives” Professional development, New Jersey Institute of Technology, Newark, NJ- March 16, 2009

High School and College Physics Teachers Workshop which includes the following- Solar telescopes to observe the Sun, Tour of Buehler Challenger Center on Bergen County Community College Campus, and Seminar by Dr. Scott Thomas: The Coming Era of Discovery at the Large Hardon Collider. Bergen County Community College, Paramus, NJ – November 1, 2008.

“Physics Websites, Technology-Enabled learning Tools in the Science Classroom, and Using Podcasting to Enable Student Learning” New Jersey Science Convention, 32nd Annual meeting, Somerset, NJ- October 14-15, 2008.

“Several Workshops and Exhibit: workshops are: Make-it, Use-it, and Take it back to your classroom, Amusement Park Physics, What’s new from Vernier, and Physics Demo Den (Electrostatics).

New Jersey Science Convention, 31st Annual meeting, Somerset, NJ-
October 9-10, 2007

Certificate of Participation for AP Summer Institute- Physics B & C,
College Board- Advanced Placement Program, Middlesex County
College, Edison, NJ, August 13-17, 2007

“Learn about Pharmaceutical Techniques” Workshop for high school
science teachers, New Jersey Institute of Technology, Newark, NJ
March 21, 2007.

“The Power of Power Point in the Physics Classroom”, “NJ Science
Exhibits” New Jersey Science Convention, 30th Annual, Somerset,
NJ- October 10-11, 2006.

“Beyond the Basics: Critical Thinking across the Curriculum”
Fourth Summer Institute for Faculty Development, Courtyard by
Marriott, Jersey City, NJ- June 19-22, 2006.

“New Literacies, Subject to Change.” Presented by Dr. Christopher
Shamburg, Assistant Professor of Educational Technology, New
Jersey City University, Visual Arts Building Auditorium, Culver
Avenue. May 19, 2006.

“The Power of Math”. Presented by Dr. Bruce Bukiet, Associate
Professor of Mathematical sciences, College of Science and Liberal
Arts, New Jersey Institute of Technology. Courtyard by Marriott,
Jersey City, NJ. January 13, 2006.

“Memoir Workshop-Part I”. Presented by Prof. Edvige Giunta,
Professor of English. New Jersey City University, Vodra Hall,
Conference Room D, February 17, 2006.

“Memoir Workshop-Part II”. Presented by Prof. Edvige Giunta,
Professor of English at New Jersey City University. Courtyard by
Marriott, Jersey City, New Jersey, April 22, 2006.

“New Literacies, Subject to Change”, Presented by Dr. Christopher
Shamburg, Assistant professor of Educational Technology at New
Jersey City University. New Jersey City University, Visual Arts
Building Auditorium, Culver Avenue, Jersey City, New Jersey. May
19, 2006.

NATIONAL ACADEMIC
CONFERENCE PRESENTATION:

Mukhlis Mikhael, “Physics, with Technology-Enabled Active
Learning.” Presented at the first annual Activity Based Physics
Faculty Institutes (ABPFI) symposium. American Association of
Physics Teachers meeting, Syracuse, New York. July 24, 2006.

Presented a paper at Passaic County Community College entitled
“Strategies for Effective Learning in Physics” at a workshop in
Paterson, NJ, November 2004.

Co-author of paper entitled “Women in Science and Technology”
Presented at the National Education Association meeting in
Atlantic City, New Jersey, November 1998.

INTERNATIONAL ACADEMIC CONFERENCE PRESENTATION: Mukhlis Mikhael, "Making Connections between Physics and Biomedical Science." Hosted by the Petroleum Institute in Abu Dhabi, Middle East Teachers of Science Mathematics and Computing (METSMaC-II), Abu Dhabi, United Arab Emirates, March 14-16, 2006.

SUMMER EMPLOYMENT: "Current Trends in Physics I and II", Summer Youth Program at William Paterson University, NJ - July 2012

"Current Trends in Physics I", Summer Youth Program at William Paterson University, NJ- July 2011

Center of Talented Youth (CTY) at Stanford University, California. Employed by John Hopkins University, July 18-August 8, 2009

EDITOR ON A BOOK REVIEW: College Physics 6th edition/ Wilson, Buffa, and Lou. Prentice Hall, (2006).

CO-AUTHER OF PHYSICS LABORATORY MANUAL: Introduction to Physics Laboratory Manual, 1st edition/ Kendall-Hunt publishing company, (2012).

CONTRIBUTION TO THE COMMUNITY: Member of the Board of Education; Aramaic American Association-Saint Ephraim Syriac School; 644 Paramus Road, Paramus NJ- 2003

Key Communicator, Dumont High School; 101 New Milford Avenue, Dumont, NJ- 2004

Participated in the design of Dumont High School web page, September, 2003

SPECIAL INTERESTS: -Computers. – Computer education. –Web education. -Gardening. –Fishing. –Bowling. -Bicycling.

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BUSINESS WEBSITE: <http://www.physicstutor.org/>