

Cecilia Baylouny Kieber

Education: M.S. Analytical Chemistry, 1986
The American University, NW Washington D.C.

B.S. Environmental Science, Chemistry minor, 1982
Cook College of Rutgers University, New Brunswick, New Jersey

Honors: Graduate and Professional Opportunity Fellowship, 1984-86
The American University, NW Washington D.C.

Henry Van der Vliet Scholar Award, 1982
New Jersey Water Pollution Control Association

Experience:

General Chemistry Laboratory Coordinator, 2002-present
Department of Chemistry and Biochemistry
University of North Carolina Wilmington
Wilmington, North Carolina

Manage, organize, and maintain general chemistry laboratory program for general chemistry course. Supervise graduate teaching assistants teaching laboratory classes; host workshops and weekly meetings to teach TA's effective teaching and management strategies. Create lab practical activities for the general chemistry laboratory class 101 and 102. Develop new experiments for the general chemistry laboratory class. Develop and host chemistry and forensics camps for elementary through high school students during summer.

Chemistry Laboratory Instructor, 1993-2002
Department of Chemistry and Biochemistry
University of North Carolina at Wilmington
Wilmington, North Carolina

Taught general chemistry and organic chemistry laboratory courses. Responsible for editing and rewriting the most recent editions of the General Chemistry 101/102 Laboratory Manual. Developed and taught summer chemistry camps for elementary and middle school children .

Mass Spectrometer Supervisor, April 1988 through September 1989
Gas Chromatography-Mass Spectrometry Laboratory
Envirofact Services, Inc.
Miami, Florida

Laboratory Supervisor/Research Associate, June 1986 through April 1988
Occoquan Watershed Monitoring Laboratory
Department of Civil Engineering, Virginia Tech,
Manassas, Virginia

Research Assistant and Teaching Assistant, May 1984 through June 1986
(Quantitative Analysis, Instrumental Analysis, Organic Lab)
Department of Chemistry
The American University
NW Washington D.C.

Environmental Chemist, August 1982 through May 1984
Environmental Programs and Planning Department
Hackensack Meadowlands Development Commission
Lyndhurst, New Jersey

Professional Presentations:

American Chemical Society Pacificchem Conference, University of Hawaii, Hawaii, December 2010: “Experiential Based Summer Camps: Teaching Advanced Chemistry Concepts to Elementary and Middle School Students- Impacts of Single Gender Programming”, Kieber, C.

American Chemical Society 234th National Meeting and Exposition, Boston, Massachusetts, August 2007: “Practical Laboratory Assessment”, Kieber, C., Ward, C., and J. Reeves.

American Chemical Society Pacificchem Conference, University of Hawaii, Hawaii, December 2005: “Assessing Problem Solving Skills in General Chemistry with Lab Practicals”, Kieber, C., Ward, C., and J. Reeves.

18th Biennial ChemEd Conference of the American Chemical Society, Iowa State University, Iowa, July 2004: “Assessing Problem Solving Skills in General Chemistry with Lab Practicals”, Kieber, C., Ward, C., and J. Reeves.

Reports and other Publications:

General Chemistry 101/102 Laboratory Manual, 3rd -5th editions, Kieber, C., Kieber, R. and C. Ward.

Forensic Chemistry CHM 380 Laboratory Manual, Almeida, A., Kieber, C. and K. Magolan.

Improving Problem Solving Skills in General Chemistry with Laboratory Practicals, Kieber, C., Ward, C., and J. Reeves, in prep.

DIS and Honors Students Supervised:

Parrett, Nicole, Forensic Lab experiments: TLC analysis of ink and lipstick, Fingerprinting experiment, Density of Glass experiment, and Analysis of Residual Blood using Chemiluminescence and Fluorescence Techniques

Leslie Drug Analysis: Qualitative Spot Tests for Forensic Chemistry Lab

Gordon, Kelly, Isolation and Distillation of *Myristica fragrans* Followed by TLC Analysis and Mass Spectral Analysis for Forensic Chemistry Lab

McMillan, Leilani, Experiment write-up for GC/MS analysis of Myristicin

Community Service:

UNCW Division of Public Service and Continuing Studies, Chemistry/Forensics Camps

Academic Boosters Club, Laney High School, Wilmington, NC

Science Fair Judge, UNCW, Wilmington, NC

Science Olympiad, UNCW, Wilmington, NC

Academic Excellence Committee of PTA, Ogden Elementary School, Wilmington, NC

Faith Formation for Youth Instructor, St. Mark's Church, Wilmington, NC