

Curriculum Vitae

Dr. Kenneth Yamaguchi
Professor of Chemistry, Chairperson
Department of Chemistry
New Jersey City University

EDUCATION

PhD. in Analytical Chemistry (1985), University of California, Riverside
M.S. in Organic Chemistry (1981), California State University, Long Beach
B.S. in Chemistry (1979), California State University, Long Beach

WORK EXPERIENCE

New Jersey City University (September, 1995 to present)

Chairperson, Chemistry Department

Instructor in general chemistry I and II, analytical chemistry, biochemistry, instrumental methods of analysis, and research methods in independent studies

Research Projects and Interests:

Development of Inorganic Materials for Molecular Electronic Components

Isolation and Characterization of Active Components in Medicinal Plants

New Inorganic Materials and Organic Synthesis

Biological Secondary Metabolites

New Analytical Methodologies to Analyze Metals and Organic Pollutants in Soils

L'Air Liquide Corp. Paris, France (1985-1994)

Senior Research Chemist

GRANTS

Dept. of Defense - HBCU/MI, funded 6/6/05, Grant No. W911NF-05-1-0450, NJCU cost sharing. K. Yamaguchi (PI). Strengthening the Skills of Chemistry Students via Biochemical and Multi-synthetic Project-Based Labs.

Dept. of Education- MESEIP (Minority Science Education Improvement Program), funded 10/01/04, Award No. P120A040042, J.Grew (PI), K.Yamaguchi and W. Montgomery (CoPIs).

Dept. of Defense - HBCU/MI, funded 9/24/03, Grant No. W911NF-04-1-0021. K. Yamaguchi (PI). Enhancing the Quality of Student Learning Through an Environmental Science Curriculum.

Dept. of Defense - HBCU/MI, funded 9/17/01, Grant No. DAAD 19-01-1-0777. K. Yamaguchi (PI). Broad Sweeping Changing in the Chemistry Curriculum with Raman Spectroscopy.

NSF CCLI A&I – funded 12/8/00, Grant No. 0088337. K. Yamaguchi(PI). Implementing Active Learning Strategies into the Undergraduate Chemistry Laboratory Curriculum.

U.S. Dept. of Education, MSIP Program. Funded 10/00. Passaic Community College Science Bridging Program
Enrichment program for science students between Passaic County Community College and NJCU. PI
T.Sorber and J. Grew.

ITQ (Improving Teacher Quality) Partnership Grant, NJ Dept. of Education, 9/03-9/05
Scientific activities for pre-K thru 3rd grade teachers, Jersey City. PI Ken Counselman

Eisenhower Grant, Science and Math Academy for Reflective Thinking (SMART) Program, 9/02-8/03. Created
scientific activities for K-3rd grade. PI Ken Counselman

PRESENTATIONS 2006

1. 231st American Chemical Society (ACS) National Meeting: April 26-30, 2006 Atlanta, GA
Presentation: "Reinforcement of laboratory and instrumental techniques via organic
synthetic project-based labs"
Presentation: "Strengthening biochemical lab skills using protein and lipid project-based
experiments"
Student Poster (Aldo Rancier (student), Kenneth Yamaguchi): "Protein purification from milk"
Poster (Aldo Rancier (student), Adam Raffaele (student), William W. Montgomery, and Kenneth
Yamaguchi): "Use of geospatial techniques and chemical analysis to track contaminants"
2. 70th Annual Intercollegiate Chemist Convention- April 22nd, 2006 (Ursinus College, Collegetown, PA)
Students Presentations: Aldo Rancier, Kavita Patel, Maria Sacta
3. 54th Annual ACS Undergraduate Research Symposium- April 29th, 2006 (St. John's University, Queens, NY)
Student Presentations: Aldo Rancier, Maria Sacta
4. 4th Annual Hudson-Bergen ACS Undergraduate Research Symposium- April 28th, 2006 (Fairleigh-Dickinson
University, Teaneck, NJ)
Student Presentations: Aldo Rancier, Kavita Patel, Maria Sacta, Mariam Isreal