

**CLYDE JOHNSON**

Work: Ramapo College of New Jersey  
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**Education:**

Ph.D.	<b>Environmental Sciences</b> Rutgers University /UMDNJ-Robert Wood Johnson Medical School, NJ	1997
MS	<b>Environmental and Occupational Health Sciences</b> Hunter College, City University of New York	1990
B.S.	<b>Chemistry (major)/ Biology (minor)</b> University of Guyana, Guyana, South America	1982

**Teaching  
Experience:**

	<b>Asst. Professor</b> , Ramapo College of New Jersey, Mahwah, NJ <b>Courses taught:-</b> Environmental Chemistry, Lecture/Lab; Introduction to Environmental Science; Energy and Society; Global Climate Change; Environmental and Occupational Health (On-Line course)	2007- Present
	<b>Assistant Dean</b> , Faculty of Natural Sciences, University of Guyana	2006-07
<b>Lecturer</b>	, Department of Chemistry, University of Guyana <b>Courses taught:-</b> Environmental Chemistry; Introductory Chemistry: Analytical Chemistry, Physical Chemistry and Inorganic Chemistry	2004-07
	<b>Associate Professor</b> , Medgar Evers College, The City University of NY <b>Courses taught:-</b> Natural Resource Conservation and Management; Measurement and Instrumentation with lab; Air and Water Pollution; Pollution Control and Prevention; Groundwater; Chemistry for the Health Professions; General Chemistry I	1997-03
	<b>Adjunct Assistant Professor</b> , Downstate Medical Center, SUNY <b>Course taught:-</b> Issues in Environmental Health, Masters of Public Health (MPH) Program	2002-03

<b>Adjunct Professor</b> , <i>State University of New York College at Old Westbury</i> <b>Courses taught</b> :-Principles of Chemistry I & II	2000
<b>Lecturer</b> , <i>American Industrial Hygiene Association (AIHA), New York</i> <b>Courses taught</b> :- Certified Industrial Hygienist (CIH) Review Courses in Air Pollution and Analytical Chemistry,	1998-00
<b>Adjunct Professor</b> , <i>Hostos College, The City University of New York</i> <b>Courses taught</b> :- General Chemistry I (Lab) and Environmental Chemistry	1997

**Other Job Experiences:**

<b>System Safety Specialist II</b> , <i>New York City Transit Authority</i> Implemented, monitored, and enforced Transit's safety policies and procedures as well as Federal, State and local Safety Regulations. Conducted Safety Audits	1992-93
<b>Senior Public Health Inspector/Public Health Inspector</b> , <b>New York City Department of Health</b> Supervised and trained Public Health Sanitarians in the inspection of restaurants, prisons, schools, group homes, senior centers, swimming pools, day care centers, day camps and after school programs.	1988-92
<b>Government Analyst and Commissioner of Food and Drugs (Ag)</b> , <i>Ministry of Health, Guyana</i> Managed the Analyst Food and Drugs Department; represented the department at regional and international fora; Chief Scientific Advisor to the Minister of Health in Scientific, Regulatory and Compliance matters under the Food & Drugs Act. Chaired several committees and served as a member on numerous Governmental Boards and committees including the Guyana National Bureau of Standards and The National Pesticide and Rodent Control Committee	1984-85
<b>Analytical Scientific Officer</b> Analyst Food & Drugs Department, <i>Ministry of Health, Guyana</i> Supervised and organized the work of the Food, Water, Toxicology and Drugs Divisions. Trained technicians. Set up and operated laboratory instruments including GC, HPLC, GC/MS, AA, IR UV and fluorescence spectrophotometers. Analyzed food and water for pesticide residues, aflatoxins, lead and other heavy metals.	1982-85

**Research Activities:**

Development of more cost effective fuel cells

Development of a rapid method for the analysis of pesticide residues on leafy vegetables

An assessment of drinking water quality in selected communities along

the Linden Highway, Guyana

Measurement of the spatial distribution of vapor-phase mercury in indoor air

Fate of Polycyclic Aromatic Hydrocarbons in the environment

### **Awards and Honors:**

Recipient of the Chancellor's Spring Institutional Award (The City University of New York)	2000
Distinguished Faculty Award, The City University of New York (CUNY) during it's annual "Salute to Scholars" program	1999
National Science Foundation (NSF) Graduate Student Research Award Research work done at The National Institute of Standards and Technology	1995
Certificate for Recognition of excellence in Scholarship in Environmental and Occupational Health Sciences - Hunter College, The City University of New York	1990
Minority Academic Career (MAC) Program fellowship, Rutgers University, New Brunswick, New Jersey	1993-97

### **Conferences/Seminars**

- a. Eight Annual Student Research Symposium, Ramapo College  
Two poster presentations on:
  1. *Recycling aluminum by utilizing the metal as an electrode in a fuel cell by Clyde Johnson and Mercedes Perez, Ramapo College of New Jersey*
  2. *Alkaline pH prevents voltage reversal in yeast fermentation of banana by Clyde Johnson, Laura Karl and Mercedes Perez Ramapo College*
- b. Moderated a Panel on "Energy Efficiency: Green Jobs, Green Construction, Green Communities" at the 14th Annual Conference on Environmental Issues, Medgar Evers College, CUNY, March 14, 2009 Moderated a Panel on "Homeland Security" at the 13th Annual Conference on Environmental Issues, Medgar Evers College, CUNY, March 8, 2008
- c. Presented on "Mercury Vapor Levels in hallways in selected Multiple dwellings in Northern New Jersey" to the TAS Journal Club (October 29, 2008)
- d. Presented on Zinc-Air Fuel Cells at the Green meets Green Conference at Ramapo College of New Jersey (November 2007)

- e. Gave a talk on “Future Energy Use Patterns in the US: Focus on Nuclear Energy” to the TAS Journal Club (October 2007)

**Consulting:**

- Consultant to the US Environmental Protection Agency (EPA) Region II on mercury vapor levels in dwellings and other buildings around the **World Trade Center (WTC) site after 911** 2002
- Consultant to The City University of New York (CUNY) on mercury vapor levels in laboratories, classrooms, offices and other locations at New York City Technical College 2002
- Residential Exposures to Metallic Mercury - Peoples Energy, Chicago Illinois 2000-01

**Publications:** W. Hope, C. Johnson and L. Johnson, Tetraglyme Trap for the Determination of Volatile Organic Compounds in Urban Air. Projects for Undergraduate Analytical Chemistry, *J. Chem Ed.* Aug. 2004, Vol. 81 No. 8, p 1182.

C. Johnson, A. Greenberg and L. C. Sander, Separation of Benzo[a]pyrene sulfate isomers by reversed-phase Liquid Chromatography, *J. Chromatogr. A*, 753 (1996) 201-206.

C. Johnson, Elemental mercury uses in religious and ethnic practices in Latin American and Caribbean communities in New York City, *Population and Environment* 20 (1999) 209-216.

C. Johnson and A. Greenberg, Extraction and High Performance Liquid Chromatographic Separation of Selected Pyrene and Benzo[a]pyrene Sulfates and Glucuronides: Preliminary Application to the Analysis of Smokers' urine, *J. Chromatogr. B*, 728 (1999) 201-206.

**Other**

**Publications**

**(Not peer reviewed):**

Use of treated grated coconut as a solid electrolyte in electrochemical systems (draft Patent application document prepared).

C. Johnson, Mercury Vapor Levels in Dwellings in close proximity to the World Trade Center Site (A report prepared for the United States Environmental Protection Agency (EPA) Region II), September 11, 2002.

C. Johnson, Report on Indoor Mercury Vapor Levels in Selected Locations of New York City Technical College (A report prepared for CUNY) July 8, 2002. Contributed to the preparation of the Ritualistic Uses of Mercury Task Force Report published by US Environmental Protection Agency (EPA).

## GRANTS

“Optimizing the Performance of Micro-aluminum fuel cells when utilizing a solid electrolyte”  
SBR Grant, \$4,000

“Measurement of elemental mercury vapor in the Homes of New York City Residents.

” Funded by PSC-CUNY for the 1998/99 academic year.

“Preventing Mercury Pollution from Magico-Religious Uses of Brooklyn’s Crown Heights and Sunset Park Neighborhoods.” Funded by The EPA for (1998)

“Indoor air measurement of elemental mercury vapor in the homes of New York City residents: Method Validation.” Funded by PSC-CUNY (1999)

“Exposure to Unsafe Sound Levels from Music Systems in Caribbean Nightclubs and During West Indian Day Carnival in New York City”  
Funded by Mount Sinai School of Medicine/NIH (1999-00).

“Fate of Polycyclic Aromatic Hydrocarbons in the atmosphere.” Funded by PSC-CUNY (2000/01)

## Specialized Training:

A course in using the NITON XL-300 and XL-700 Series instruments for lead paint inspections. Training conducted by Niton Corporation, Queens, NY.  
New York State Asbestos Inspector  
Pest Control Technology (New York State Department of Environmental Conservation)  
Advanced Food Inspection Techniques (New York State Department of Health)  
Food Protection (New York City Department of Health)  
Foodborne Disease Epidemiology (New York City Department of Health)  
Applied Environmental Health Technology (New York City Department of Health)  
Mobile Frozen Dessert Vending (New York City Department of Health)  
Managing Safety: Techniques for Supervisors (New York City Transit Authority/Du Pont)  
Swimming Pool Operation Technology (New York City Department of Health)  
Confined Space Entry  
Control of Chemical Hazards  
Biological Safety (Infectious Waste)

## ADDITIONAL PROFESSIONAL DEVELOPMENT COLLEGE COURSES

Gemology, Diamond Grading, Basic Principles of Appraising Jewelry, Costume Jewelry White Metal Model and Promoting, Principles of Jewelry Design, Jewelry Casting; Cosmetics, Fragrances and Toiletries (Chemistry and Formulation)