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## **EDUCATION**

B.S., Zoology, Roosevelt University, Chicago, IL, 1966  
M.S., Biology, DePaul University, Chicago, IL, 1969  
Ph.D, Comparative Animal Physiology; Tulane University, New Orleans, LA,  
1973

Active Registrations: CSP (Certified Safety Professional)

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## **PROFESSIONAL POSITIONS**

1974-1974 Assistant Professor, Department of Biology, Kennedy-King College,  
Chicago, IL.  
1974-1977 Assistant Professor, Department of Biology, St. Mary's Dominican  
College. New Orleans, LA  
1977-1984 Professor Auxiliar, Biology Department, Universidade Eduardo  
Mondlane, Maputo, Mozambique  
1984-1985 Visiting Assistant Professor, Department of Biology, University of  
Southwestern Louisiana, Lafayette, LA  
1985-1995 Research Associate, Department of Biology, University of West  
Florida  
1995-2001 Senior Biologist and Environmental Safety Specialist, Plexus  
Scientific  
Corp. Columbia, MD  
2002-Present Research Associate, Center for Environmental Diagnostics  
and Bioremediation, The University of West Florida, Pensacola,  
Florida

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## **SELECTED RECENT PROFESSIONAL ACTIVITIES**

Presentations about health issues to several environmental groups.  
Member of Pensacola Chamber of Commerce Environment Committee,  
Officer (Secretary) of local Chapter of the ASSE (American Society of Safety  
Engineers)  
Active in Clarinda Triangle Association relative to the resident's welfare near the  
Escambia Treating Superfund Site.  
Member of the Florida Association of Environmental Professionals.

2009 Field work completed on Project: Preliminary screening of PCB and dioxins/furans contamination in sediments of Escambia Bay, Report being finalized

Author of : "Environmental Assessment of Sediments and Water in Bayou Grande, Pensacola, FL" June 26, 2008  
[http://uwf.edu/CEDB/PERCH\\_Bayou\\_Grande\\_Report\\_Environmental\\_Assessment.pdf](http://uwf.edu/CEDB/PERCH_Bayou_Grande_Report_Environmental_Assessment.pdf)

Author of : "Sediment and water pollution in Bayou Chico, Pensacola, FL" August 11, 2006 [http://uwf.edu/CEDB/Perch\\_report\\_Chico\\_final\\_revision\\_withmaps.pdf](http://uwf.edu/CEDB/Perch_report_Chico_final_revision_withmaps.pdf)

Author of: "Profiles of Selected Pollutants in Bayou Texar, Pensacola, FL" May 10, 2005  
[http://www.uwf.edu/liebens/Text\\_final\\_report\\_Texar.pdf](http://www.uwf.edu/liebens/Text_final_report_Texar.pdf)

Constructed a publicly accessible database of local environmental literature, the PERCH Bibliography, a fully searchable database of bibliographical materials pertaining to the environment of Northwest Florida (<http://fusionmx.lib.uwf.edu/perch/search.cfm>).

Presented a seminar in 2005 to the local chapter of the American Society of Safety Engineers on "Levels of radium in the local sand and gravel aquifer and the safety of drinking water". High levels of radium had been reported near two superfund sites and there were fears that the local drinking water might be impacted.

Presented Abstract SETAC: Organic Pollutants in a Gulf Estuary Bordered by a Naval Air Station and Urban Area. Abstract Reference No: 501266 North America 29th Annual Meeting Environmental Stewardship: Integrating Science and Management. Tampa Convention Center, Tampa, Florida, USA, 16-20 November 2008

Presented Abstract AEHS (Association for Environmental Health and Sciences)- Sediment pollution pathways of trace metals and petroleum hydrocarbons in a small industrialized estuary: Bayou Chico, Pensacola, Florida. MARCH 19-22, 2007 MISSION VALLEY MARRIOTT, SAN DIEGO,

Presented Abstract SETAC: Profiles of pollutants impacting Bayou Chico and Sanders Beach, Pensacola, FL Abstract Reference No: 254681 at the SETAC North American 27th Annual Meeting 5-9 November 2006

Presented Abstract at SETAC: "Profiles of pollutants impacting Bayou Texar, Pensacola, FL" at the Fourth SETAC World Congress, 14 -18 November 2004, in Portland, Oregon, USA.

Participated in the sampling effort for the study of the Charles River adjacent to the Army Materials Technology Laboratory in Watertown, Massachusetts. The facility began operations in the mid-1800s and in the 1960s housed a nuclear reactor utilized for research.

Conducted laboratory phase of cook off for Vendors Biotechnology Demonstration for the remediation nitroaromatic explosives. Did HPLC with radiolabeled explosives and related analytical techniques at USDA Beltsville Labs.

Worked on PAS of the Joliet Army Ammunition Plant. The facility consists of approximately 1500 buildings on 37.5 square miles of property in rural Illinois and manufactured primary and secondary explosives and propellants from the 1940s through the 1970s. Review of documents identified several areas that were historically used by the Atomic Energy Commission and an area used for testing of depleted uranium projectiles, although follow-up studies revealed no elevated radiation levels in the buildings used by AEC. The project compiled available information on all portions of the property concerning a variety of issues including the use and handling of radioactive materials and wastes.

Did research on methodology for remediation of TNT line at Joliet Army Ammunition Plant.

Conducted water sampling, biological field trips, participated in constructing dual phase extraction system, remediation of lead contamination at Beltsville US Secret Service, patent searches, safety engineer at Walter Reed Army Laboratories.

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### **ADDITIONAL TRAINING AND CERTIFICATIONS**

Mapping Workshop: An Introduction to GIS & Community Analysis taken at New Horizons Computer Learning Center in Jacksonville, FL.

AntiTerrorism, Ordinance Familiarization, Accelerated Bioremediation of Chlorinated Solvents training course

*Past Professional Activities:* RIAs of steroids in fish serum, arthropod neuropeptides, metabolism and molting of arthropods, neuropeptide regulation of crustacean pigment responses of chromatophores and compound eye, seasonal population fluctuations in roadside crayfishes.

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### **SELECTED PUBLICATIONS**

Sediment pollution pathways of trace metals and petroleum hydrocarbons in a small industrialized estuary: Bayou Chico, Pensacola, FL Baseline / Marine Pollution Bulletin 54 (2007) 1523–1558

Pollution in an urban bayou: magnitude, spatial distribution and origin. *Water, Air, and Soil Pollution* (2006) 174: 235–263

Chronobiological analysis and mass spectrometric characterization of pigment-dispersing factor in the cockroach *Leucophaea maderae*. *Journal of Insect Science* 5:43, available online: [insectscience.org/5.43](http://insectscience.org/5.43), 2005.

The risk of military scrap. Vol. Dec. pp45, New Steel, 2001.

A highly conserved red pigment-concentrating hormone processor in the blue crab *Callinectes sapidus*. *Biochemical and Biophysical Research Communications* vol 212 pp151-158, 1995.

Cloning and expression of a red pigment-concentrating hormone (RPCH)-precursor RNA in the blue crab *Callinectes sapidus*. Abstract 62 Abstracts of the sixth meeting of the Pan American Society for pigment cell research June 25-28, 1995 Kansas city, Missouri in: Supplement 4, 1995 Pigment Cell Research Issn 0893-5785, 1995.

Molecular Cloning of two pigment-dispersing hormone (PDH) precursors in the blue crab *Callinectes sapidus* reveals a novel member of the PDH Neuropeptide family. *Biochemical and Biophysical Research Communications* vol 205 pp410-416, 1994.

Proecdysial Staging and Associated Events in the Crayfish *Faxonella clypeata*. *Crustaceana* 32(3): pp256-264, 1977.

Influence of Eyestalk Factors, Intermolt Cycle and Season Upon C<sup>14</sup> Leucine Incorporation into Protein in the Crayfish *Orconectes virilis*. *Comparative Biochemical Physiology*, 34:pp415-437, 1970.

Two biology text books in the Portuguese language used in preparation of lyceum students for university entrance in Maputo, Mozambique, at the level of first and second semesters of general biology:

BIOLOGIA Manual da 10<sup>a</sup> Classe

BIOLOGIA Manual da 11<sup>a</sup> Classe

FOREIGN LANGUAGES Portuguese: speak and write; Spanish: read