

**Wilson Mendoza**  
**UM OHHC REUG Winner 2009**

**NSF-NIEHS Oceans & Human Health Center**

University of Miami-Rosenstiel School of Marine & Atmospheric Science  
4600 Rickenbacker Causeway, East Grosvenor Room E211  
Miami, FL 33149

**Curriculum Vitae**

**Experience:** soil and water analyses, structural polysaccharide characterization, chemo-toxicity and bioassay experiments, toxicity testing, database management, field experiments, fluorescence *in situ* hybridization (FISH) analyses of marine microbes, seaweed identification and field assessment, preparation of herbarium specimens, coral taxonomy (tropical species), nutrient analyses, CDOM, EEMS and PARAFAC analyses.

**Instruments operated:** Fluorescence and UV-Vis Spectrophotometer, Infra-red and Nuclear Magnetic Resonance Spectrometer, Nutrient Auto-analyzer, Gas-Chromatograph, Gel Permeation Chromatograph, Texture analyzer, Epifluorescence microscope, High Performance Liquid Chromatography-Mass Spectrometer (LC-MS/MS), CHNS Elemental Analyzer

**Special skills:** licensed SCUBA Diver (Advance Diver; Rescue Diver; Divemaster-in progress)

**Educational Attainment**

**PhD student, Marine and Atmospheric Chemistry (2006-present)**

Rosenstiel School of Marine and Atmospheric Science  
University of Miami  
4600 Rickenbacker Causeway  
Miami, Florida 33149

**M.S. Marine Science (2000-04)**

*“Dean’s Medallion for Outstanding Master’s Graduate Student”*

Marine Science Institute  
University of the Philippines  
Diliman, Quezon City, Philippines

**B.S. Chemistry, *cum laude* (1995-1999)**

Chemistry Department  
Silliman University  
Dumaguete City, Negros Oriental, Philippines

## **Employment**

### ***Institutional Research Associate*** (2004-2006)

Bolinao Marine Laboratory  
UP-Marine Science Institute  
Guiguiwanen, Bolinao, Pangasinan

### ***University Research Associate I*** (2000-2003)

Marine Science Institute  
University of the Philippines, Diliman, Quezon City

## **International Publications**

**Mendoza WG**, Mooers CN, Zika R. Developmental strategy for effective water sampling to detect possible nutrient fluxes in oligotrophic coastal reef waters in the Caribbeanan. ***Journal of Operational Oceanography*** 2:35-47.

**Wilson G. Mendoza**, Ralph N. Mead, Larry E. Brand, Damian Shea. 2008. Determination of brevetoxin analogs in recent marine sediments. ***Chemosphere*** 73-1373-1377.

**Wilson G. Mendoza**, Ronald D. Villanueva, Jumelita B. Romero, Edna T. Ganzon-Fortes, and Nemesio E. Montaño. 2006. Tissue age as a factor affecting carrageenan quantity and quality in farmed *Kappaphycus striatum* (Schmitz) Doty ex Silva. ***Botanica Marina*** 49: 57-64.

R. D. Villanueva, **W.G. Mendoza**, R.C. Rodriguez, JB Romero, NE Montano. 2004. Structure and functional performance of Gigartincean kappa-iota hybrid carrageenan blends. ***Food hydrocolloids*** 18: 283-294.

**WG Mendoza**, MNE Montaño, EG Fortes and RD Villanueva. 2002. Chemical and gelling profile of *ice-ice* infected carrageenan from *Kappaphycus striatum* (Schmitz) Doty "sacol" strain (Solieriaceae, Gigartinaceae, Rhodophyta). ***Journal of Applied Phycology*** 14:409-418.

## **Annual Project Report**

Nacorda HM, David L, **Mendoza W**, Salamante E and Regino G. 2008. Macro-scale assessment of seagrass bottoms in Bolinao (NW Philippines): indicator for the UNEP/GEF/SCS Bolinao Seagrass Demonstration Sites (BSDS) Project. Marine Science Institute, University of the Philippines-Diliman, Quezon City.

\_. 2002. **Development of Mitigating Strategies for Seaweed Diseases to Sustain/Enhance Production in Farms**. Marine Science Institute, College of Science, University of the Philippines, Diliman, Quezon City. Submitted to: Department of Agriculture-Bureau of Agricultural Research.

## **Awards/Citations**

**2008 Joint Assembly Outstanding Student Paper Award.** AGU Spring Joint Assembly Meeting, Ft. Lauderdale, USA May 27-20, 2008.

**2008 Outstanding Student Poster Award.** AGU, ASLO TOS Ocean Sciences Meeting , Orlando, Florida, March 2-7, 2008.

**Rosenstiel School of Marine and Atmospheric Science Fellowship** (2006-2007)

**“1<sup>st</sup> Place. Best Research and Development Poster Award”.** 17<sup>th</sup> National research symposium. Department of Agriculture-Bureau of Agricultural Research. RDMIC Bldg. October 4-7, 2005.

**“National Research and Development Paper Award”.** 17<sup>th</sup> National research symposium. Department of Agriculture-Bureau of Agricultural Research Bureau RDMIC Bldg. October 4-7, 2005.

**“International Publication Awards”.** The President’s Awards for Academic Distinction. STTC Auditorium, NISMED. University of the Philippines, Diliman, Quezon City, 1101. Philippines. February 28, 2005.

**“Deans Medallion for Outstanding Master’s Graduate Student”-** College of Science. University of the Philippines, Diliman, Quezon City. April 2004.

**“International Publication Awards”.** The President’s Awards for Academic Distinction. STTC Auditorium, NISMED. University of the Philippines, Diliman, Quezon City. March 17, 2004.

**“Best in Research and Development (Non-published category)”.** Parangal sa mga Mag-aaral. University of the Philippines, Diliman, Quezon City. February 26, 2004.

**“Best research and development paper award (Agriculture and Fisheries Modernization Act)”.** Parangal sa Mag-aaral, UP Film Center, University of the Philippines, Diliman Quezon City. February 20, 2003.

**AFMA Best R & D Paper Award.** 14<sup>th</sup> National Research Symposium. Department of Agriculture-Bureau of Agricultural Research. Bureau of Water and Soils Management Convention Hall, Elliptical Road, Diliman, Quezon City. November 27-28, 2002.

## **Oral/Poster Presentation**

**Mendoza WG**, Corredor JE, Morrel J, Ko D-S, Zika RG, Mooers CNK. Developmental strategy for effective sampling to detect possible nutrient fluxes in oligotrophic coastal reef waters in the Caribbean. **AGU Spring Joint Assembly**. 27-30 May 2008. Ft. Lauderdale, Florida, (received 2008 AGU Joint Assembly Outstanding Student Paper Award-Ocean Sciences Division)

**Mendoza WG**, Zika RG. A Simple Thin-layer Water CDOM Sampling Strategy in Shallow Coastal Waters. **AGU Chapman Conference on Organic Matter Fluorescence**. 20–23 October 2008. University of Birmingham, Edgbaston, Birmingham, UK. (Poster)

**Mendoza WG**, Hansell DA, Zika RG. Variability of  $DIN_{xs}$  distribution in the deep North and South Atlantic. **BIOCAT (Biogeochemical Interactions between the Ocean and the Atmosphere) Summer School**. 15 - 19 September 2008. IFM-GEOMAR Kiel, Germany (Poster)

**Mendoza WG**, **AGU, ASLO TOS Ocean Sciences Meeting**, Orlando, Florida, March 2-7, 2008.

**Mendoza, WG**. Mead R. Detected Brevetoxins in Surficial Marine Sediments as Potential Sedimentary Molecular Biomarkers in Reconstructing HAB events. **Estuarine Research Federation Conference**, November 4-8, 2007, Providence, Rhode Island (Oral).

Mead R, Smith E, Babila T, **Mendoza W**. Tidal Cycle Variations In The Optical Properties Of Estuarine Dissolved Organic Matter (Dom) From A Southeastern (Usa) Salt Marsh. ASLO 2007 Aquatic Sciences Meeting. February 4-9, 2007, Sante Fe, New Mexico. American Society of Limnology and Oceanography.

**WG Mendoza**, ET Ganzon-Fortes and MNE Montaña. Morphology and carrageenan properties of *Solieria robusta* (Greville) Kylin (Gigartinales, Rhodophyta) from the Philippines. 8<sup>th</sup> National Symposium in Marine Science. Palawan State University, Puerto Princesa City. October 22, 2005

**WG Mendoza**, RD Villanueva, ET Ganzon-Fortes, Romero JB and Montaña. Differentiation of carrageenan chemical composition and gelling properties of apical and basal segments from *Kappaphycus striatum* 'sacol' (Scmitz) Doty (Solieriaceae, Gigartinales, Rhodophyta). 7<sup>th</sup> National Symposium in Marine Science. Harbor Lights Hotel, Gusa, Cagayan de Oro City. October 22-24, 2003 .

**WG Mendoza**, MNE Montaña, EG Fortes, AO Lluisma, VM Butardo and MLV Quitariano. Spectrophotometric analysis of carrageenan from healthy, uninfected, and *ice-ice* infected *Kappaphycus striatum* "sacol" cultivar. Asia-Pacific

Conference on Analytical Science and 18<sup>th</sup> Philippine Chemistry Congress. EDSA Shangrila Hotel, Mandaluyong City, Philippines. February 19-23, 2002.

**WG Mendoza**, MNE Montaño, EG Fortes and RD Villanueva. Chemical and gelling profile of *ice-ice* infected carrageenan from *Kappaphycus striatum* (Schmitz) Doty “sacol” strain (Solieriaceae, Gigartinaceae, Rhodophyta) 14<sup>th</sup> National research symposium. Department of Agriculture-Bureau of Agricultural Research. Bureau of Water and Soils Management Convention Hall, Elliptical Road, Diliman, Quezon City. November 27-28, 2002.

### **Special Training and Conferences**

#### **Trainee**

“The Scleractinian Coral Taxonomy Training”. Sponsored by the Global Environmental Facility (GEF)-Coral Taxonomy Project. Bolinao Marine Laboratory: UP-Marine Science Institute. Bolinao, Pangasinan. August –24-28, 2005.

#### **Representative/Participant**

“Symposium on Marine Toxicology”. The Center for Health Development-Region I and Western Pangasinan Interlocal Health Zone. Hundred Islands Resort Hotel, Lucap, Alaminos, Pangasinan, Philippines. July 11, 2005.

#### **Trainee**

“Scleractinian Coral Taxonomy Training”. Conducted by the GEF-Coral Taxonomy Project. Bolinao Marine Laboratory, Pangasinan, Philippines. August 24-28, 2005

“Molecular Tools in aquatic ecology including fluorescent in situ hybridisation (FISH) techniques”. Bolinao Marine Laboratory, Guiguivanene, Bolinao, Pangasinan. Sponsored by: Deutscher Akademischer Austausch Dienst (DAAD), Leibnez-Institut fur Gewasserologie und Binnenfisherei (IGB) and the Marine Science Institute (MSI). Bolinao Marine Laboratory, UP-Marine Science Institute, Guiguivanen, Bolinao, Pangasinan. May 11-27, 2005.

#### **Secretariat/Participant**

Japan Society for the Promotion of Science (JSPS) Biodiversity Workshop: Seaweeds and Seagrasses. UP-Marine Science Institute and Bolinao Marine Laboratory, Philippines. November 21-27, 2004

#### **Participant**

6<sup>th</sup> National Products Society of the Philippines (NPSP) Annual Convention. Thomas Aquinas Research Complex, University of Sto. Tomas, España, Manila. December 5, 2001.

**Participant****2<sup>nd</sup> Mindanao Seaweed Congress**

Grand Astoria Hotel, Zamboanga City

April 25-26, 2001

**Trainee****"Techniques for Photosynthetic estimates in Seaweeds"**

Marine Science Institute, University of the Philippines Diliman, Quezon City

May 1-3, 2001

**Participant****National Seaweed Conference 2000**

Waterfront Airport Hotel, Mactan, Cebu

July 5-6, 2000

**Technical Staff****3<sup>rd</sup> Asia Pacific Marine Biotechnology Conference**

Marine Science Institute, University of the Philippines, Diliman, Quezon City

Nov 28 – Dec 1, 1999

**Government Examination**

Chemistry Board Examination

Sept 1999

**Professional Membership**

American Geophysical Union (1997-present)

Integrated Chemists of the Philippines

1999 – present

Philippine Association of Marine Sciences (PAMS)

2001-present

Natural Products Society of the Philippines

2001-2002