## Evaluation of Factors Influencing Methylmercury Accumulation in South Florida Marshes

Wednesday, April 19 Session 23 Moderators: Paul Julian and Forrest Dierberg

- 1:20 1:30 Overview and Introductions
- 1:30 1:45 Binhe Gu
- 1:45 2:00 Paul Julian
- 2:00 2:15 Curtis Pollman
- 2:15 2:30 Tom DeBusk
- 2:30 2:45 Andy Ogram
- 2:45 3:00 Q&A Discussion

# Mercury Impacts in the Everglades



## 1:30 - 1:45 Binhe Gu

## High Biotic Mercury in South Florida Wetlands: Fish Trophic Position and Wading Bird Redistribution



Dr. Ben Gu received his Ph.D in Oceanography from University of Alaska-Fairbanks in 1993. He has been working in aquatic biogeochemistry and ecology in Florida since his graduation, and is currently a lead scientist with the SFWMD on mercury monitoring.

#### **Education**

Ph.D. in Oceanography from the University of Alaska-Fairbanks M.Sc. in Fisheries Science from Guangdong Ocean University B.Sc. in Fisheries Science from Guangdong Ocean University

#### **Experience**

Post-doctorate at University of Florida Environmental Analyst at St. Johns River Water Management District

## 1:45 - 2:00 Paul Julian

## Limiting Factors in Mercury Methylation Hotspot Development: The Tangled Web

#### **Current** Position

Everglades Technical Lead at Florida Department of Environmental Protection

#### Education

- Ph.D. student in the Soil and Water Science Dept. at the U. of Florida
- M.Sc. In Environmental Science from Florida Gulf Coast University
- B.Sc. In Biochemistry from Benedictine College

#### Experience

- Adjunct Professor at Florida Gulf Coast University Biological Scientist II at Florida Fish & Wildlife **Research** Institute

- Lab Manager at University of Florida/IFAS Staff Chemist II at Mote Marine Lab Technical Director/Chemist at Harbor Branch **Environmental Lab**

## 2:00 - 2:15 Curtis Pollman

Biogeochemical Variables Driving Temporal Dynamics and Spatial Variability in Mercury Bioaccumulation in <u>Gambusia</u> in the Everglades - A Model Analysis Using R-EMAP



#### <u>Experience</u>

#### **Current Position**

CEO of *Aqua* Lux Lucis, Inc. and Chief Environmental Scientist at Nclear, Inc.

#### **Education**

- Ph.D. in Environmental Engineering Sciences from the University of Florida
- M.Sc. in Environmental Engineering Sciences from the University of Florida
- BA in Biological Sciences (with honors) from the University of Delaware
- Adjunct Research Professor at the University of Florida
- CEO and Chief Scientist at Frontier Geosciences, Inc.
- Principal Scientist at Tetra Tech, Inc.
- Visiting Associate Research Professor at University of S. Florida
- Vice President and Principal Scientist at KBN Engineering and Applied Sciences, Inc.
- Department Head and Staff Scientist at Environmental Science and Engineering, Inc.

## 2:15 - 2:30 Tom DeBusk

Investigation of Factors that Contribute to Variations in Mosquitofish (<u>Gambusia holbrooki</u>) Mercury Concentrations in Water Conservation Area 2A

#### **Current Position**

President and Principal Scientist of DB Environmental, Azurea, Inc. of the solid matrices

<u>Education</u>

- M.Sc. in Environmental Science from Florida Tech
- B. Sc. In Botany from University of Florida

#### **Experience**

- Research Program Manager, Walt Disney Co.
- Research Associate, Woods Hole Oceanographic Institution
- Research Assistant, University of Florida
- Research Assistant, Harbor Branch Oceanographic Institution



## 2:30 - 2:45 Andy Ogram

# Phylogenetic Distribution of Mercury Methylators in the Water Conservation Areas



#### **Current Position**

Professor in the Soil and Water Science Dept. at the University of Florida

#### **Education**

- Ph.D. in Microbiology from the University of Tennessee
- M. Sc. In Soil Science from the University of Florida
- B.Sc. In Zoology from the University of Florida

#### **Experience**

- Assistant and Associate Professor at the University of Florida
- Assistant Professor at Washington State University
- National Research Council Post-Doctoral Associate at the U.S. EPA