

# **William Louda, Ph.D.**

**Research Professor at Florida Atlantic University**

Boca Raton, FL, US

William Louda studies algal blooms, water quality, and how that affects microalgal communities (phytoplankton, periphyton, epiphytes etc.).

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## **Biography**

William Louda's research centers on algal blooms, water quality, and how that affects microalgal communities (phytoplankton, periphyton, epiphytes etc.). Within this context and beyond, he studies photosynthetic and accessory pigments (chlorophylls, carotenoids, scytonemins, phycobilins). Pigment-based chemotaxonomy, the use of taxon-specific biomarkers to discern community structure and dynamics, is the main thrust of his research as well. Lately, he has been very involved in studying phosphorus pollution of south Florida waters from the overuse of equestrian waste in agribusinesses. Global climate change, especially rising carbon dioxide levels, is also studied as it impacts microalgal communities in both marine (?ocean acidification?) and fresh waters.

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## **Areas of Expertise**

Algal Blooms, Organic Geochemistry, Phosphorus Pollution, Photosynthetic and Accessory Pigments, Microalgal Communities, Pigment-Based Chemotaxonomy, Global Climate Change, Chemistry for Environmental Scientists

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## **Affiliations**

American Chemical Society : Member, Division of Geochemistry, American Chemical Society : Member, Phi Eta Tau Scholastic Society (Wright State University), Ohio : Member-elect, European Association of Organic Geochemists : Member, American Institute of Chemists : Member-elect, Florida Academy of Sciences : Member, Environmental and Chemical Sciences Section : Chair (2000-2001), American Society of Limnology and Oceanography : Member, Estuarine Research Federation : Member, Coastal Education and Research Foundation : Member

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## **Education**

**University of South Florida**

Ph.D. Marine Science

**Florida Atlantic University**

M.S. Biology

**Wright State University**

B.S. Biology

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## Accomplishments

### Fulbright Specialist Program

Scientific Visit to the Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland. June 4-19, 2011.

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