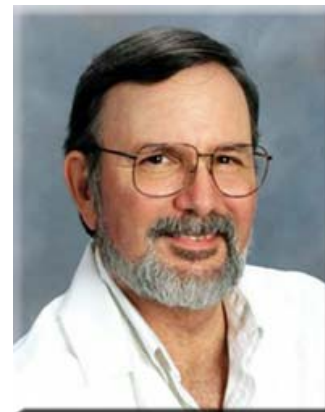


J. WILLIAM (Bill) LOUDA
Research Professor
(Updated: Jan. 12, 2018)



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Education:

High School, 1965	Cardinal Gibbons High School Ft. Lauderdale, Florida
B.S. (Biology) 1971	Wright State University Dayton, Ohio
M.S. (Biology) 1978	Florida Atlantic University Boca Raton, Florida
Ph.D. (Marine Science) 1993	University of South Florida Tampa, Florida

Professional Organizations, Honors:

Member	- American Chemical Society
Member	- Division of Geochemistry, American Chemical Society
Member-elect	- Phi Eta Tau Scholastic Society (Wright State University), Ohio
Member	- European Association of Organic Geochemists
Member-elect	- American Institute of Chemists
Member	- Florida Academy of Sciences Chair (2000-2001); Environmental and Chemical Sciences Section
Member	- American Society of Limnology and Oceanography
Member	- Estuarine Research Federation
Member	- Coastal Education and Research Foundation
Listed	- Who's Who in America, 60 th . Ed.
Listed	- Who's Who in the World, 2007.
Award	- Fulbright Specialist, travel / research in Poland (June 2011)
Award	- College of Science, Dean's Award of Excellence 2016

Major Research Interests:

MARINE AND AQUATIC ENVIRONMENTAL BIOGEOCHEMISTRY. MICROALGAL GROWTH and POPULATION DYNAMICS (NUTRIENTS, LIGHT) as APPLIED TO HARMFUL ALGAL BLOOMS

Pigment-based Chemotaxonomy (photoautotrophic {algal} community structure), Environmental Geochemistry, Marine Natural Products, Polyaromatic Hydrocarbons, Analytical Chemistry, Biological Markers, Lake Okeechobee, Florida Bay, Periphyton in the Florida Everglades and the Comprehensive Everglades Restoration Plan. Macro- and micro-nutrient pollution. Phytoplankton growth dynamics. Phytoplankton, microphytobenthos, epiphytes and microbial mats around and on the island of Eleuthera, Bahamas.

Organic geochemistry: The flux of biochromes (viz. tetrapyrrole, tetraterpenoid) in aquatic/marine environments. That is, the pre-, syn- and post-depositional alteration of chlorophyll-derivatives and carotenoids as these processes pertain to bio-organic geochemistry. The diagenesis/catagenesis of tetrapyrrole pigments and elucidation of pathways which evolve "fossil pigments" in order to employ these compounds as geochemical markers (viz. paleo-environment, thermal history of host environment).

Utilization of pigments as indicators of primary productivity, water mass characterization (e.g. mixed layer dynamics) and ocean acidification.

Algal (phytoplankton, periphyton) community dynamics (light, nutrients).

Aquatic and marine pollution (nutrients, regarding algal blooms).

Hypersaline microbial mats (Eleuthera, Bahamas) and unique sunscreen pigments.

Phosphorous pollution from equestrian and nursery industries.

Harmful Algal Blooms (HABs)

Professional Experience:

Florida Atlantic University, Boca Raton, Florida

1/2015-Present

Research Professor

Teaching Duties:

CHM-6611: Chemistry for Environmental Scientists (Fall)

CHM-3080: Environmental Chemistry (Spring)

OCE-6057: Biological/Chemical Oceanography (Fall)

CHM-4139L: Bioanalytical Laboratory. HPLC (Spring).

CHM-6157: Instrumentation. Lecture on HPLC (Fall)

CHM-4905: Supervise DIS (Directed Independent Study) students and Honors Compact DIS students.

Supervise / mentor graduate research (CHM-7978 / -7980)

Research Duties: Perform biogeochemical / environmental research (see Research Interests above). Direct graduate students (see full list following publications / presentations) in research towards M.S.T., M.S. and Ph.D. Degrees in Chemistry, the M.S. in Environmental Sciences and the M.S. in Oceanography.

Administrative Duties: None: These duties ceased on 3/31/2014:

Academic positions:

1/1/2015-Present

4/1/14 – 12/31/14

4/08 - 3/31/14

1/03 - 4/08

7/99 - 1/03

1/95 – 7/99

5/88 – 7/99

Jan. 1, 1978 to present are at the FAU Boca Raton Campus.

Research Professor

Scientist Emeritus, affiliated faculty.

Senior Scientist, non-tenure track faculty, 5-year contracts:

Associate Scientist, non-tenure track faculty, 5-year contracts:

Assistant Scientist, non-tenure track faculty, 5-year contracts:

Adjunct Assistant Professor, Department of Chemistry and

Biochemistry: *Active overlap with position given below.

Senior Laboratory Specialist (SUS Code #5083) -

Manager of teaching laboratories, instruct and

Maintain instrumentation (UV/VIS, NMR, IR),

Perform mass spectral analysis (MS), oversee

laboratory coordinators, train and assist graduate

students in research, *et cetera*. Research affiliate.

6/87 - 5/88

Visiting Instructor, Department of Chemistry.

Develop and teach General Chemistry Laboratory I & II

CHM 2045L, CHM 2046L). Research.

1/78 - 5/87

Research Associate with Dr. Earl W. Baker.

Chlorophyll Diagenesis in, Deep Sea Sediments.

Student Positions:

6/72 - 9/74

Florida Atlantic University

Boca Raton, Florida

Teaching Assistant in Marine Biology, Invertebrate

Zoology, Animal Physiology.

1/72 - 5/72

Aquatic Sciences

Boca Raton, Florida

Research Assistant to Dr. J. Valenti: Assess feasibility of increasing somatic coloration via dietary experimentation with pteridine and carotenoid pigments.

9/71 - 12/71

Florida Atlantic University

Research Assistant to Dr. F. Kalber: Osmoregulation in zoeae (larvae) of the blue-crab, *Callinectes sapidus*.

12/70 - 9/71

Wright State University

Dayton, Ohio

Research Associate to Dr. P. P. Batra: De novo carotenogenesis in the mycobacteria.

Civic Activities:

Chairman- Roadways, Equestrian, Trails and Greenways (aka RETAG) Committee-Town of Loxahatchee Groves (2015-present).
Member-Roadways, Equestrian, Trails and Greenways (aka RETAG) Committee-Town of Loxahatchee Groves (2009-2013)
Councilman, Town of Loxahatchee Groves, Florida (March 2007-April 2010)
Mission / Education Chair, (2007-2009) American Cancer Society,
Acreage – Loxahatchee Groves Relay for Life.
President (1996-2004), Loxahatchee Groves Landowners' Association, Loxahatchee Groves, FL
Board Member (2005-7) Loxahatchee Groves Landowners' Association, Loxahatchee Groves, FL
Member, Loxahatchee Groves Neighborhood Planning Committee, (1993-6) Loxahatchee Groves.
Chairman, Loxahatchee Groves Steering Sub-Committee to Palm Beach County, Department of Environmental Resource Management on the Royal Palm Beach Pines Natural Area, Palm Beach County (*Ad hoc*: 1994-1995).
Member: Friends of Arthur R. Marshall National Wildlife Refuge.
Member, Sierra Club.
Member, Audubon Society
Member, Audubon of the Everglades
Member, National Geographic Society
Member, Nature Conservancy
Member, The Ocean Conservancy
Member, The Grand Canyon Association
Member, Bahamas National Trust

Teaching history:

Courses:

Chemistry for Environmental Scientists* (CHS-6611): graduate core course in Environmental Sciences Program. Fall terms (2000 - present)
*Originally called Environmental Chemical Analysis (CHS-6610).

Environmental Chemistry (CHM-3080): undergraduate chemistry majors, others by permission; Spring terms (2004 - present).

Bioanalytical Laboratory (CHML-4139): Upper division undergraduate laboratory team
Taught in 'Round-Robin' fashion. I teach the high performance liquid chromatography (HPLC) and Electronic Spectroscopy (UV/Vis) sections of this laboratory course. Coordinator Spring Terms (2005-2014). Presently, I only teach the high performance liquid chromatography (HPLC) and Electronic Spectroscopy (UV/Vis) sections of this laboratory course. (2015 onward).

Instrumentation (CHM-6157): Graduate core course. I coordinated this course, gave 8 of the lectures, compiled the comprehensive final and assigned grades. (Fall 2011-2013). 2015 onward, give assorted lectures only.

Chemistry for Engineers (CHM2095): undergraduates, the Department of Civil Engineering (Fall 2008 only)

Chemistry for the Health Sciences plus labs (CHM2032 and -2032L). Undergraduates mainly in the College of Nursing (Spring 2009, -2032L in Fall 2011; Spring {1/3 term} 2012)

Chemistry in Modern Life (CHM-2020): Spring and Summer 2002 & 2003 only.

Guest lecturer in various courses on requested basis (e.g. Biochemistry, Marine Botany &c.)

SCHOLARLY WORKS:

A. Peer-Reviewed / Refereed Publications (37: Primary and corresponding author on all except the 8 indicated by an asterisk*)

*Batra, P. P., Gleason, R. M., and Louda, J. W. (1973) Cyclization of Lycopene in the Biosynthesis of β -Carotene. *Phytochemistry* **12**, 1309-1313.

Louda, J. W., Palmer, S. E. and Baker, E. W. (1980) Products of Chlorophyll Diagenesis in Japan Trench Sediments. I. Deep Sea Drilling Project Sites 434, 435, and 436. In: E. Honza, and the Shipboard Party. Initial Reports of the Deep Sea Drilling Project-LVI, U.S. Govt. Printing Office, Washington, v. 56-57, part II, 1391-1396.

Baker, E. W. and Louda, J. W. (1980) Products of Chlorophyll Diagenesis in Japan Trench Sediments. II. DSDP / IPOD Sites 438, 439 and 440. In: E. Honza and the Shipboard Party. Initial Reports of the Deep Sea Drilling Project-LVII, U.S. Govt. Printing Office, Washington, v. 56-57, part II, 1397-1408.

Baker, E. W. and Louda, J. W. (1980) Geochemistry of Tetrapyrrole Pigments in Sediments of the North Philippine Sea: DSDP/IPOD Leg. 58. In: E. Honza, and the Shipboard Party. Initial Reports of the Deep Sea Drilling Project-LVIII, U.S. Govt. Printing Office, Washington, v. 58, 737-739.

Baker, E. W. and Louda, J. W. (1980) Organic Geochemistry: Highlights in the Deep Sea Drilling Project. In: A. G. Douglas and J. R. Maxwell (eds.) *Advances in Organic Geochemistry-1979*. Pergamon Press, Oxford, 295-319.

- Baker, E. W. and Louda, J. W. (1981) Chlorophyll Derivatives in Sediments of the South Philippine Sea, Deep Sea Drilling Project Leg 60. In: D. Hussong, S. Uyeda and the Scientific Party, Initial Reports of the Deep Sea Drilling Project-LX, U.S. Govt. Printing Office, Washington, v. 60, 497-500.
- Baker, E. W. and Louda, J. W. (1981) Geochemistry of Chlorophyll Derivatives: DSDP / IPOD Leg 61, Site 462, Northern Nauru Basin. In: R. L. Larson, S. O. Schlanger and the Scientific Party, Initial Reports of the Deep Sea Drilling Project-LXI, U.S. Govt. Printing Office, Washington, v. 61, 619-620.
- Louda, J. W. and Baker, E. W. (1981) Geochemistry of tetrapyrrole, carotenoid and perylene pigments in sediments from the San Miguel Gap (Site 467) and Baja California Borderlands (Site 471): DSDP/IPOD Leg 63. In: Yeats, R. S., Haq, B., and the Shipboard Party, Initial Reports of the Deep Sea Drilling Project, U.S. Govt. Printing Office, Washington, v. 63, 785-818.
- Palmer, S. E., Baker, E. W., Charney, L. S. and Louda, J. W. (1982) Tetrapyrrole Pigments in United States Humic Coals. *Geochim. Cosmochim. Acta.* **47**, 1233-1241.
- Baker, E. W. and Louda, J. W. (1982) Geochemistry of Tetrapyrrole, Tetraterpenoid and Perylene Pigments in Sediments from the Gulf of California: DSDP/IPOD Leg 64; Sites 474, 477, 479 and 481 and Guaymas Basin Survey Cruise (S. I. O.) Leg 3; Sites 10G and 18G. In: Scientific Party, Initial Reports of the Deep Sea Drilling Project-LXIV, U.S. Government Printing Office, Washington, v. 64, part 2, 789-814.
- Baker, E. W. and Louda, J. W. (1983) Thermal Aspects in Chlorophyll Geochemistry. In: M. BjorOy (ed.) Advances in Organic Geochemistry-1981, J. Wiley and Sons, Chichester, 401-421.
- Louda, J. W. and Baker, E. W. (1984) Perylene in Deep Ocean Sediments; Occurrence, Source and Alkylation. *Geochim. Cosmochim. Acta* **48**, 1043-1058.
- Baker, E. W. and Louda, J. W. (1984) Highly Dealkylated Copper- and Nickel-Etioporphyrins in Marine Sediments. *Org. Geochem.* **6**, 183-192.
- Baker, E. W. and Louda, J. W. (1986) Porphyrin Geochemistry of Atlantic Jurassic – Cretaceous Black Shales. *Org. Geochem.* **10**, 905-914.
- Baker, E. W., Louda, J. W. and Orr, W. H. (1987) Application of metalloporphyrin biomarkers as petroleum maturity indicators; the importance of quantitation. *Org. Geochem.* **11**: 303-309.

- *Popp, B. N., Takigiku R., Hayes, J. M., Louda, J. W. and Baker, E. W. (1989) The Post-Paleozoic Chronology and Mechanism of ^{13}C Depletion in Primary Marine Organic Matter. *Amer. J. Sci.* **289**, 436-454.
- *Steinman, A., Havens, K. E., Louda, J. W., Winfree, N. M. and, Baker, E. W. (1998) Characterization of the Photoautotrophic Bacterial Communities in a Sub-Tropical Lake (Lake Okeechobee, Florida). *Can. J. Fish. Aquat. Sci.* **55**, 206 - 219:
- Louda, J. W., Li J., Liu L., Winfree, M. N., and Baker, E. W. (1998) Chlorophyll degradation during senescence and death. *Org. Geochem.* **29**, 1233 – 1251.
- *Havens, K. E., Steinman, A. D., Carrick H. J., Louda, J. W. and Baker, E. W. (1999) A Comparative analysis of periphyton communities in a subtropical lake using HPLC pigment analysis and microscopic cell counts. *Aquatic Sciences.* **61** (4): 307 – 322.
- Louda, J. W., Loitz, J. W., Rudnick, D. T. and Baker, E. W. (2000) Early diagenetic alteration of chlorophyll-*a* and bacteriochlorophyll-*a* in a contemporaneous marl ecosystem. *Org. Geochem.* **31** (12): 1561 – 1580.
- Louda, J. W., Liu, L., and Baker, E. W. (2002) Senescence- and death-related alteration of chlorophylls and carotenoids in marine phytoplankton. *Org. Geochem.* **33**, 1635 – 1653.
- Louda, J. W. and Monghkonsri, P. (2004) Comparison of spectrophotometric estimates of chlorophylls-*a*, -*b*, -*c* and ‘pheopigments’ in Florida Bay seston with that obtained by high performance liquid chromatography-photodiode array analyses. *Fla. Sci.* **67**(4): 281 – 292.
- Louda, J. W., Loitz, J. W., Melisiotis, A. and Orem, W.H. (2004) Potential Sources of Hydrogel Stabilization of Florida Bay Lime Mud Sediments and Implications for Organic Matter Preservation. *J. Coastal Res.* **20**, 448 – 463.
- *Neto, R.R., Mead, R.N., Louda, J.W. and Jaffe, R. (2006) Organic biogeochemistry of detrital flocculent material (floc) in a subtropical, coastal, wetland. *Biogeochem.* **77**: 283 – 304.
- *Hagerthey, S. E., Louda, J. W. and Mongkronsri, P. (2006) Evaluation of pigment extraction methods and a recommended protocol for periphyton chlorophyll *a* determination and chemotaxonomic assessment. *J. Phycology* **42**: 1125 – 1136.
- Moretzaei-Rad, M. and Louda, J. W. (2007) Polystyrene-Divinylbenzene (PS-DVB), a mild stationary phase for the chromatographic purification of the unstable ^{13}C , ^{17}O -cyclophorbide-*a*-enol. *J. Liquid Chromatogr. & Rel. Technol.* **30**: 1361-1369.

- Szymczak-Żyła, M., Louda, J. W. and Kowalewska, G. (2008) Influence of microorganisms on chlorophyll-a degradation in the marine environment. *Limnol. Oceanogr.* **58**: 851-862.
- Louda, J. W. (2008) Pigment-Based Chemotaxonomy of Florida Bay Phytoplankton; Development and Difficulties. *J. Liquid Chromatogr. & Rel.Tech.* **31**: 295-323.
- Szymczak-Żyła, M., Louda, J. W. and Kowalewska, G. (2008) Comparison of extraction and HPLC methods for marine sedimentary chloropigment-a determinations. *J. Liquid Chromatogr. and Rel. Tech.* **31**, 1162-1180.
- Louda, J.W., Neto, R.R., Magalhaes, A. R. M., and Schneider, V.F. (2008) Pigment alterations in the brown mussel *Perna perna*. *Comparative Biochemistry and Physiology* –**B 150**: 385 – 394.
- Grant, C.S. and Louda, J.W. (2010) Microalgal pigment ratios in relation to light intensity– Implications for chemotaxonomy. *Aquatic Biology.* **11**: 127-138.
- Khalesi (M.-R.)M. and Louda J.W., (2011), Hemisynthesis of 13²,17³ -Cyclomesopheophorbide-a-enol. *Tetrahedron Letters.* **52**: 1078-1081
- Louda, J. W., Mongkhonsri, P., and Baker, E.W. (2011) Chlorophyll degradation during senescence and death-III: Three to ten year experiments, implications for ETIO-series generation. *Org. Geochem.* **42**: 688-699
- West, M. and Louda, J.W. (2011) Effect of external pH on cyanobacterial pigment expression. *Florida Scientist.* **74(2)**: 181-186.
- Szymczak-Żyła, M., Kowalewska, G. and Louda J.W. (2011) Sedimentary Chlorophyll-a derivatives as indicators of marine eutrophication. *Marine Chemistry* **125**: 39-48
- Grant C. and Louda J.W. (2013) Scytonemin-imine, a mahogany-colored UV/VIS sunscreen of cyanobacteria exposed to intense solar radiation *Organic Geochemistry* **65**: 29-36.
- Pisani O., Louda J.W. and Jaffe R. (2013) Biomarker assessment of spatial and temporal changes in the composition of flocculent material (floc) in a subtropical wetland. *Environmental Chemistry* **10**: 424–436.
- Louda J.W. (2017) Porphyrins. In: W.M. White (Ed.) Encyclopedia of Geochemistry AG 2017. Springer International. (DOI 10, 1007/978-3-319-39193-9_190-1).
 {**NOTE**: Normally a chapter would be listed under “B” below (non-refereed) but this chapter was blind peer reviewed by several).

Chen W., Colon R., Louda J.W., del Rey F.R., Durham M and Rein K.S. (2018)
Does brevetoxin (PbTx-2) influence the redox status and NPQ of *Karenia brevis*?
Harmful Algae. 71: 29–39.

B. Non-refereed publications (10). (I wrote and was the corresponding author on all except the 3 indicated by an asterisks*)

Louda, J. W. (1978) Carotenoid Pigmentation and Metabolism in the Blue-Crab, *Callinectes sapidus* Rathbun, M.Sc. Thesis, Florida Atlantic University, Boca Raton, Fl., 93 pp.

Louda, J. William and Baker, Earl W. (1986) The Biogeochemistry of Chlorophyll. In: Organic Marine Geochemistry. M. Sohn (Ed.) ACS Symposium Series #305, American Chemical Society, Washington, D.C., pp. 107-126.

Baker, E. W. and Louda, J. W. (1986) Porphyrins in the Geologic Record. In: R. B. Johns (Ed.) Biological Markers, Elsevier, Amsterdam. pp. 125-225.

*Carragher, C. E., Sterling, D., Ridgway, T. and Louda, J. W. (1991) Structural characterization of organostannane - Kraft lignin. In: Biotechnology and Polymers, pp. 111-118, Plenum.

Louda, J. W. (1993) The Biogeochemistry of Tetrapyrrole Pigments, Emphasizing Chlorophyll. Ph.D. dissertation, University of South Florida, 638 pp.

*Carragher, C. E., Louda, J. W., Sterling, D., Rivalta, A., Zhang, Q. and Baker, E. W. (1994) Electron impact mass spectrometry of condensation organometallic polymers. Polymeric Materials, Sci. Eng., 71:386-387 A.C.S., Washington, D.C.

Winfree, N. M., Louda, J. W., Baker, E. W., Steinman, A., and Havens, K. E. (1997) Application of Chlorophyll and Carotenoid Pigments for the Chemotaxonomic Assessment of the Waters and Surficial Sediments of Lake Okeechobee, Florida. In: Eganhouse R. (Ed.) Application of Molecular Markers in Environmental Geochemistry. ACS Symposium Series #671, American Chemical Society, Washington, D.C. pp. 77-91.

Baker E. W. and Louda J. W. (2002) *The Legacy of the Treibs' Samples* In: A. Prashnowsky (Ed.) Alfred Treibs Memorial Volume. Wurzburg. pp. 3 –128.

*Baldwin J., Coley C., Gawlik D., Hanisak D., Louda J.W., Owen, D. Perry G., Proffit E., Roberts C. and Vos J. (2009) Greater Everglades Research Initiative White Paper. Florida Atlantic University, Boca Raton, FL. 6 pp.

Louda J.W., Grant C., Browne J. and Hagerthey S.E. (2015) Pigment-based chemotaxonomy and its application to Everglades periphyton. In: J. A. Entry, K. Jayachandran, A.D. Gottlieb and A. Ogram (Eds.) MICROBIOLOGY OF THE EVERGLADES ECOSYSTEM. Science Publishers. Chapter 13; pp. 287-347 plus appendices (pp.455-468) and color plate (p485). (ISBN 9781498711838)

C. Published invited reviews (1).

Louda, J. W. (1999) *Chemical Fungal Taxonomy*: (Book review). *J. Amer. Chem. Soc.* **121 (39)** 9251 - 9252.

D. Academic Speeches and Formal Papers. Underlined indicates personal presentation.

***Asterisk indicates participation at meeting. (135, >120 with published abstracts.**

Gleason, R. M., Louda, J. W. and Batra, P. P. (1971) Lycopene accumulation induced by nicotine and by 2-(4-chlorophenylthio)-triethylamine hydrochloride in *Mycobacterium marinum*. 62nd Annual Meeting of the American Society of Biological Chemists, San Francisco, June 13-18, 1971. *Fed. Proc.* **30(3)** 1123 abs.

*Murphy, D. L., Louda, J. W., Nishimura M., and Baker, E. W. (1979) Geochemistry of Tetrapyrrole Pigments in Neogene Marine Sediments: Recent Advances. 1979 Meeting-in-Miniature, American Chemical Society, Florida Section, Ft. Lauderdale, Florida, 10-12 May 1979.

*Louda, J. W. and Baker, E. W. (1979) Chlorophyll Diagenesis: Tetrapyrrole Pigments from Deep Sea Drilling Project Core Samples. 178th National C. S. Meeting, Division of Geochemistry, Washington, D.C., Sept. 9-14, 1979. *Abs. Geoc. II*.

*Baker, E. W. and Louda, J. W. (1979) Organic Geochemistry; Highlights in the Deep Sea Drilling Project, 9th International Meeting on Organic Geochemistry, 17-20 September, 1979, University of Newcastle-Upon-Tyne, U.K

Katz, B. J., Harrison, C. G. A., Man, E. H., Baker, E. W. and Louda, J. W. (1979) Potential Organic Indicators of Diagenesis and Early Catagenesis. *Geol. Soc. Am.*, November 1979, San Diego.

*Louda, J. W. and Baker, E. W. (1980) Chlorophyll Biogeochemistry in Marine and Estuarine settings. 1980 Meeting-in-Miniature, American Chemical Society, Florida Section, Tampa, Florida, 8-10 May, 1980.

- *Baker, E. W. and Louda, J. W. (1980) Chlorophyll Diagenesis: Review of the "Treibs Scheme" in Light of Recent Developments: Thermal Aspects. 1980 Meeting-in-Miniature, American Chemical Society, Florida Section, Tampa, Florida, 8-10 May, 1980.
- *Louda, J. W. and Baker, E. W. (1980) Incorporation of the Various Chlorophylls into Marine Sediments and Terrestrial Peats. 179th National A.C.S. Meeting, Division of Geochemistry, Houston, Texas, March 23-28, 1980, Abs. Geoc. 14.
- Baker, E. W. and Louda, J. W. (1980) Thermal Reactions in the Diagenesis of Chlorophyll. 180th National A.C.S. Meeting, Division of Geochemistry, Las Vegas, Nevada, 24-29 August, 1980. Abs. Geoc. 32.
- *Louda, J. W. and Baker, E. W. (1980) Gordon Conference on Organic Geochemistry Holderness, New Hampshire, 18-22 August, 1980 (Poster Session). Geochemistry of Chlorophyll; Recent Directions.
- Baker, E. W. and Louda, J. W. (1981) Perylene in Marine Sediments: A Potentially Useful Geothermal Stress Indicator of Problematic Source. 181st National A.C.S. Meeting, Division of Geochemistry, Atlanta, Ga., March 29 - April 3, 1981, Abs. Geoc. 27.
- Baker, E. W. and Louda, J. W. (1981) Thermal Aspects in Chlorophyll Geochemistry. 10th International Meeting on Organic Geochemistry, 14-18 September, 1981, University of Bergen, Norway.
- *Louda, J. W. and Baker, E. W. (1982) Gordon Conference on Organic Geochemistry, Holderness, New Hampshire, August 23-27, 1982 (Poster Session), Perylene distribution in marine sediments.
- *Louda, J. W. and Baker, E. W. (1983) Carotenoid Pigments in Marine Sediments: Biogeochemistry and Utility as Paleoenvironment Indicators. 1983 Florida Section Meeting, A.C.S., Jacksonville, Florida. May 4-7, 1983. Paper 53.
- *Baker, E. W. and Louda, J. W. (1983) Benzoporphyrins: A Minor Series of Geologic Vanadyl Tetrapyrroles in Bitumen of Marine Origins. 1983 Florida Section Meeting, A.C.S., Jacksonville, Florida. May 4-7, 1983, Paper 51.
- *Baker, E. W. and Louda, J. W. (1983) Nickel Porphyrins in Selected Samples from the Green River Formation. 186th National A.C.S. Meeting, Division of Geochemistry, Washington, D.C., Aug. 28-Sept. 2, 1983. Geoc. Abs.
- *Louda, J. W. and Baker, E. W. (1983) Chlorophyll Geochemistry: Comparative Analytical Techniques. 186th National A.C.S. Meeting, Division of Geochemistry, Washington, D.C., Aug. 28-Sept. 2, 1983. Geoc. Abs.

- *Louda, J. W. and Baker, E. W. (1983) Theoretical Tetrapyrrole Pigment Geochemistry: Biotic Precursors and Expected Geologic Projects. 186th National A.C.S. Meeting, Division of Geochemistry, Washington, D.C., Aug. 28-Sept. 2, 1983. Geoc. Abs.
- *Baker, E. W. and Louda, J. W. (1983) Highly Dealkylated Copper- and Nickel - Etio-porphyrins in Marine Sediments. 11th International Meeting of Organic Geochemistry, 12-16 Sept., 1983, The Hague, Netherlands.
- *Louda, J. W. Baker, E. W. and Orr, W. L. (1984) Maturation of Petroleum Metalloporphyrins. Gordon Conference on Organic Geochemistry, Poster Session, 20-24 August 1984, Holderness, New Hampshire.
- Baker, E. W., Louda, J. W. and Orr, W. L. (1984) Porphyrins in Monterey Crude Oils. 187th National A.C.S. Meeting, Division of Geochemistry, St. Louis, Mo., April 8-13, 1984, Abs. Geoc.
- *Baker, E. W. and Louda, J. W. (1985) Tetrapyrrole Pigments in Jurassic and Cretaceous "Black Shales" of the Atlantic. 189th National A.C.S. Meeting, Division of Geochemistry, Miami, Fl., April 29-May 3, 1984, Abs. Geoc.
- *Louda, J. W. and Baker, E. W. (1985) The Biogeochemistry of Chlorophyll. 189th. National A.C.S. Meeting, Division of Geochemistry, Miami, FL., April 29-May 3, 1985, Abs. Geoc.
- *Louda, J. W. and Baker, E. W. (1985) Tetrapyrrole Pigments in the Geologic Record. 1985 Annual Meeting of the Geological Society of America, Orlando, October 27, Abs. #79455. (**Invited contribution**)
- *Louda, J. W. and Baker, E. W. (1985) Techniques and Applications of Geoporphyrin Analysis. 194th. National A.C.S. Meeting, Division of Geochemistry, New Orleans, August 30-September 4, 1987 Geoc. Abs. #47.
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- *Attendee, 1988, Gordon Conference on Organic Geochemistry, August 15-19, 1988. Holderness, N. H.
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- *Grant, C. and Louda, J.W. (2010a) A cyanobacterial pigment tentatively classified as a visible light sunscreen. 74th Annual Meeting of the Florida Academy of Sciences. Ft. Pierce, FL. March 19. Abstr. ENV-15.
- *Grant, C. and Louda, J.W. (2010b) Pigment-based chemotaxonomic relationships to phytoplankton biomass. 74th Annual Meeting of the Florida Academy of Sciences. Ft. Pierce, FL. March 19. Abstr. ENV-16.
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- *Louda, J. W. (2011) Florida Atlantic University and Marine Research at the University. *Invited talk*. Institute of Oceanology, Polish Academy of Sciences. Sopot, Poland. June 9, 2011.
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- *Louda, J.W. and Prize-Bolter, K. (2013) Phytoplankton and anoxia in Little Lake Worth. Lake Worth Lagoon Initiative Symposium. May 15, 2013. West Palm Beach, FL.
- *Louda, J.W. and Prize-Bolter, K. (2013) Little Lake Worth Florida, a coastal lagoon ‘borrow’ pit with anthropogenic perturbations. Coastal and Estuarine Research Foundation 22nd Biennial Conference, San Diego, Calif. 3-7 November. SCI-062. *Invited talk*.
- *Louda, J. W., Shultz A., Lapointe, B., and Philipp, D. (2013) FLORIDA ATLANTIC UNIVERSITY and THE CAPE ELEUTHERA INSTITUTE National Science Foundation – Field Station and Marine Laboratory (NSF-FSML) Planning Grant for the Expansion and Enhancement of the CEI Laboratory Facilities. Poster presentation at The Island School-Cape Eleuthera Research Symposium. The Island School, Deep Creek Eleuthera. Nov. 30.

*Louda, J.W. (2015) Lake Worth Lagoon, C51-Basin and Associated Waters: Studies Finished, Started, Restarted and Planned. South Florida Water management District- Lake Worth Lagoon Initiative Working Group Joint Meeting. **Invited Talk.** Dec. 15, 2015. Open Public Meeting at SFWMD Headquarters, Gun Club Road, West Palm Beach, Fl.

*Louda, J.W. (2016) Pigment-based Chemotaxonomy and Adaptive Management. 6th National Conference on Ecosystem Restoration (NCER 2016) April 18-22. Coral Springs, FL. (Poster).

Duersch, B.G. and Louda, J.W. (2017) Phosphorus speciation using P31 nuclear magnetic resonance spectroscopy in order to trace phosphorus sources and movement in the C%1 basin and northern Everglades. Greater Everglades Ecosystem Restoration Conference. Coral Springs, Fl, April 17-21. (Poster)

Bermudez, J. and Louda, J.W. (2017) Effects of Fresh-Water Acidification on Microalgae Growth Rates and Pigment-Based Chemotaxonomy. Greater Everglades Ecosystem Restoration Conference. Coral Springs, Fl, April 17-21. (Poster)

Louda, J. W. (2017) Conceptual “Solar Marsh”: Combined Stormwater Treatment Area and Electrical Generation. Greater Everglades Ecosystem Restoration Conference. Coral Springs, Fl, April 17-21. (Poster)

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Louda, J. W. and Monghkonsri, P. (2002) Comparison of spectrophotometric estimates of chlorophylls-*a*, -*b*, -*c* and ‘pheopigments’ in Florida Bay seston with that obtained by high performance liquid chromatography-photodiode array analyses.
(<http://www.aoml.noaa.gov/ocd/sferpm/louda>)

Louda J.W., Loitz J.W., Baker E.W. and Rudnick D.T. (2003) Paleoecological considerations of the sediment-water interface of Florida Bay as derived from chlorophylls, carotenoid derivatives and carotenoids.
(<http://www.aoml.noaa.gov/flbay/louda.htm>)

Louda J.W. (2003) NOAA-Phytoplankton Bloom Team Member
http://www.aoml.noaa.gov/flbay/phytoplankton_bloom.html

F. Miscellaneous non-refereed publications:

Louda, J.W. (2015) Earl Wayne Baker. In Memoriam –Obituary.
Org. Geochem. **87**: 137-138.

Louda, J. W. (2016) Earl Wayne Baker. Obituary. Chem. Eng. News. Jan. 25. P. 37

G. Symposia activities.

Louda, J. W. (1990) Session Chairman: Symposium on Porphyrin Geochemistry: The Quest for Analytical Reliability. 199th. Natl. A.C.S. Meeting, April 27, Boston.

Louda, J. W. (2002-2003) Organizer and symposium chair. 225th. Natl. A.C.S. Meeting, March 2003, New Orleans.

Louda, J. W. (2016) Session Moderator. “What’s Happening in Lake Worth Lagoon?” The 2016 Water Module of the Florida Earth Foundation. FAU-Jupiter Campus. Sept. 15-16, 2016

H. Graduate Students Supervised as Major Professor (16).

H.1. Doctoral [3] (Ph.D.)

Duersch, Bobby G. (2015-2019 expected) Nutrient pollution and phosphorus speciation in the C51 Basin of Palm Beach County Florida. (Ph.D. track; Chemistry and Biochemistry)

Grant, Cydia (2011) Effect of photic flux on microalgal pigment ratios, carbon and protein biomass in microalgae. (Ph.D. Chemistry and Biochemistry).

Mortezaei-Rad*, Mitra (2007) Hemisynthesis and characterization of cyclopheophorbides. (Ph.D. Chemistry and Biochemistry). *(Married name Mitra Khalesi)

H.2. Masters [13] (M.S. and M.S.T.):

Bermudez, Jeanne (2015-2018 expected) Carbon dioxide induced acidification effects on pigment biomarkers in marine and fresh water microalgae and cyanobacteria. (M.S. track, Chemistry and Biochemistry)

Witten, Benjamin (M.S.-non thesis; Env. Sci. Spring 2014: Performed thesis work 2011-2013 then for family reasons switched to non-thesis option.

Krug, Jerilyn (2013) Non-thesis Masters, Project title was “Restoration of Bathtub Beach, Stuart, Fl.) Environmental Science.

West, Maria (2010) Phosphorous impacts on calcifying cyanobacteria. (M.S. Chemistry and Biochemistry).

Browne, Jaime (2010) Comparison of chemotaxonomic methods for determination of algal class composition in Florida Everglades periphyton. (M.S. Environmental Sciences).

Prize-Bolter, Karen (2010) An ecological study of Little Lake Worth Florida. (M.S., Environmental Sciences).

Cintron, Charmaine (2007) Speciation of phosphorous in horse manure and its interactions with water and sediment components. (M.S.T. Chemistry and Biochemistry).

Grant, Cydia (2006) Effect of light on microalgal pigment ratios. (M.S. Chemistry and Biochemistry).

Skoog, Kathryn O. (2003) Pigment-Based Chemotaxonomy of Phytoplankton Communities in Lake Okeechobee, Florida. (M.S., Environmental Sciences).

Singh, Alya G. (2003) Epiphyte Productivity and Community Structure in Conjunction with HPLC Pigment Analysis. (M.S. Environmental Sciences).

Padney, M. (2003) Low Pressure – High Performance Liquid Chromatography of Plant Pigments. (M.S.T., Chemistry and Biochemistry)

Liu, Lei (2000) Senescence- and death-related alterations of chlorophylls and carotenoids in marine phytoplankton. (M.S. Chemistry and Biochemistry).

Loitz, Joseph W. (1999) Isolation and Characterization of Chlorophyll and Carotenoids in Florida Bay; Phytoplankton, Microphytobenthos and Sediments. (M.S., Chemistry and Biochemistry).

I. Co-Advisor (7):

Tarnowski, Marie (2014: M.S. Environmental Sciences) The Effects on on-site sewage treatment and disposal systems on the relief canals of Indian River County, the St. Sebastian River and the Central Indian River Lagoon. B. Lapointe (HBOI-FAU) Major Professor.

Armstrong, Bridget (2011: M.S., Biology-non-thesis) D. Binninger (Biology); Major Professor.

Li, Jie (1997) Senescent and early diagenetic changes in chlorophyll. (M.S., Chem.) E.W. Baker; Major Professor

Winfrey, Mary Nancy (1996) Pigment Analysis of Benthic and Pelagic Algae in Lake Okeechobee, Florida. (M.S., Chem.) E.W. Baker; Major Professor

Huang, Xiaoxue (1994) High performance liquid chromatographic separation of sedimentary vanadyl porphyrins. (M.S., Chem.) E.W. Baker; Major Professor

Zeng, Shaochuan (1992) HPLC separation and characterization of nickel geoporphyrins. (M.S. Chem.) E.W. Baker; Major Professor

Magnier, Clotilde (1991) Vanadyl and nickel geoporphyrin biodegradation study in high sulfur Monterey crude oils and Canadian tar sands. (M.S., Chem.) E.W. Baker; Major Professor

J. Committee Member: Mr. James Goldberg (M.S., Chem., 2000), Mr. Omar Martinez (M.S., Chem. 1998), Mr. Rupert McCormick (M.S., Chem. 2002), Ms. Prajakta Kamthe (M.S., Env. Sci., 2002), Dr. Zuzana Zajickova (Ph.D., Chem., 2006), Ms. B. Hiassen (M.S., Env. Sci., 2003), Ms. Renuka Mohammed (M.S., Env. Sci., 2002), Ms. Sushma Ponukumati (M.S., Env. Sci., 2007), Dr. Ralph Mead (Ph.D. Chem. F.I.U., Miami, FL 2003), Dr. Renato Neto (Ph.D. Chem. F.I.U., Miami, FL, 2004), Ms. Angela Duque-Hersey (M.S., Env. Sci. 2007), Dr. Abhijeet Kate (Ph.D. Chem., 2007), Dr. Zhongliang Wan (Ph.D. Chem. 2007), Ms. Oliva Pisani (Ph.D., Chemistry, F.I.U., Miami, FL. 2011), Mr. Jose Ortiz-Rivera (Ph.D. Chemistry and Biochemistry, 2015-2016); Ms. Nicole Vanderweit (PhD, Chemistry and

Biochemistry-dropped); Long Zhang (M.S., Chemistry and Biochemistry-2012-2107), Roland Rueda de Leon (Ph.D. Chemistry and Biochemistry), Tifanie Vansach (Ph.D. Chemistry and Biochemistry; 2015-present), Carrie Boudreau (M.S., Geosciences); Katelyn Lynch (M.S., Biology-HBOI; 2015); Alison Feibel (Biology, HBOI-2105-2106), Marisa Martinez (PhD Biology, 2016-present), Bret Kaiser (M.S. Env.Sci.FAU-HBOI: 2015-present), Seok-Ju Seo (PhD Engineering, 2017-present), Ricardo Colon (PhD Biology at FIU, 2017-present).

K. Directed Independent Study (48+: D.I.S.) Mentor (B.S. Chemistry track):

Mr. Joe Loitz (1996-1997), Mr. Athanasios Mellisiotis (2000-2001), Ms. Simi Marwaha (2003), Ms. Amanda Strom (2004), Mr. Andrew P. Bennett (2004), Mr. Andrew Bennett (2004), Ms. Judith Formul (2004), Mr. Jeff Osetek (2003-2004), Ms. Jennifer Conway (2005-6), Mr. Joseph Chamy (2005), Ms. Alissa Deming (2005), Francisca Ordonez (2005-2006), Mr. Josh Tabor (2007), Ms. Nancy Catlfumo (2007), Mr. Terios Efstathiou (2007), Ms. Nahid Ilyad (2007-8), Mr. Michael McLean (2008), Ms. Jacquelyn Ellerie (2009, 2010), Ms. Saasha Stokes (2009), Ms. Shannon Collie O'Brien (2010), Ms. Jessica Waetjen (2010), Mr. Josef Newman (2010), Mr. Michael Barrington (2010), Mr. Kevin Bennett (2010-2011), Ms. Rhonda Kay Penn (2011), Ms. Natalie Kelly (2011), Ms. Jessica Blaxton (2011), Ms. Whitney Hargrove (2011), Mrs. Caitlin Kelly-Sampson (2011, 2012), Mr. Eric Borenstein (2011), Ms. Natalie Kelly (2011), Mr. Mark Chantiloupe (2011), Mr. Gilles Zribi (2011, 2012); Ms. Rebecca Lowman (2012), Ms. Tara Kuhn (2012), Mr. Giovanni Casanova (2012-13), Ms. Jerilyn Ashworth (2013), Mr. David Belolo (2013); Ms. Taylor Abramson (2013); Ms. Lorraine Chaljub (2013); Mr. Andrew Labrosse (2013); Mr. Kyle Glassman (2013-2014), Mr. Noah Koolik (2015-2016); Ms. Irena Mustelier (2015), Ms. Michelle Finn (2016), Mr. Chase Lausted (2016), Ms. Anca Teoduro (2017), Mr. Christopher Price (2016-8), Mr. John Ricca (2017-8), Ms. Vittoria Queiroz (2017-8), Ms. Angela Luz Mancera (2018).

L. GRANTS / CONTRACTS:

L.1: Present Support and /or activity (PI/PD – &/or- CoPI/CoPD):

Pigment analysis contract with Florida International University, Phytoplankton in Biscayne Bay and associated drainage systems. NOAA **\$ 1,650.00** (2018)

External donations in support of Louda Group Research **\$ 11,900.00** (2017-18)

Pigment analysis contract with Florida International University, Phytoplankton in Biscayne Bay and associated drainage systems. **\$ 5,410.00.00** (2017-18)

L.2: Pending support (PI status):

None-submitted, two proposals under preparation.

L.3: Previous support (PI/PD &/or Co-PI status):

Pigment analysis contract with Florida International University, Seagrass / Epiphytes. **\$ 7,735.00** (2015-16)

Planning Grant: Upgrading laboratory facilities at the Cape Eleuthera Institute.
J. W. Louda (PI) Co-PIs: B.E. Lapointe, D.P. Philipp, A. Shultz, C. Henry. National Science Foundation-Field Station and Marine Laboratory Program. **\$ 24,225.96** (July 1, 2013-June 30, 2014).

Effects of Land Use on Nitrogen and Phosphorus Inputs to the Indian River Lagoon
B.E. Lapointe (PI, HBOI/FAU), **J. W. Louda (Co-PI, FAU)** FAU-DSR SEED Grant. **\$ 19,224.00** (May 1, 2013-April 30, 2014).

Elucidation of Reactions Mediated by Sulfidic Carbonate and Clay Depositions:
The Search for New Organic Reactions Mediated by Natural Materials.
American Chemical Society – Petroleum Research Fund. S. Lepore (PI) and
J. W. Louda (Co-PI). **\$ 100,000.00** (Sept. 1, 2011 – Aug. 31, 2014).

Fulbright Specialist Program. Scientific Visit to the Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland. June 4-19, 2011. United States Department of State, Bureau of Educational and Cultural Affairs, Council for International Exchange of Scholars. (**\$ 8,000** + expenses)

Phycobilin analyses (QA/QC) and chemotaxonomic evaluation of marine phytoplankton in Florida Bay and associated marine systems. May-2009 to Jan.30, 2011. **\$ 7,700.00**. South Florida Water Management District.

Compilation of a spatiotemporal biogeochemical database of mercury and methyl-mercury in the freshwater Florida Everglades; Student Fellowship-Everglades National Park, Department of the Interior. Ms. Shannon C. O'Brien (J.W. Louda, Mentor, PI/PD). **\$ 13,888.50** (August 24, 2009 – May 31, 2010).

The utilization of pigments in the assessment of periphyton assembly changes during CERP. April 1, 2006 to July 30, 2009. **\$ 240,000.00** South Florida Water Management District (CERP / RECOVER Fund).

Phycobilin analysis protocol development. May 1- July 30, 2008. **\$ 8,074.46**
South Florida Water Management District, Everglades Division.

The applicability of pigments to assess periphyton assembly changes-IV. October 1, 2004 to September 31, 2005. **\$ 49,600.00** South Florida Water Management District (Everglades TAG Fund).

Visitor Support Program (VSP) United States Office of Naval Research, International Field Office. Travel and living expenses for visiting Ph.D. candidate, Malgorzata Szymczak-Zyla, from the Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland. **\$ 4,000.00** (VSP# 4047, Grant # N00014-04-1-4047). 2004.

HPLC Analyses of pigments in sediment-water interfacial flocculent materials. Contractual. Florida International University (from Dr. Joe Boyer) Southeast Regional Environmental Research Center. 2004. **\$ 1,400.00,**

The applicability of pigments to assess periphyton assembly changes-III. June 1, 2004 to December 31, 2004. **\$ 31,000.00** South Florida Water Management.

HPLC Analyses of oceanic phytoplankton. 2003-4. Rosentheil School of Marine and Atmospheric Sciences, U. Miami (from Dr. G. Hitchcock), **\$ 1,000.00.**

HPLC Analyses of pigments in sediment-water interfacial flocculent materials. Contractual. Florida International University (from Dr. Joe Boyer) Southeast Regional Environmental Research Center. **\$ 1,235.00,**

The applicability of pigments to assess periphyton assembly changes-II. July 1, 2003 to December 30, 2004. **\$ 23,000.00.** South Florida Water Management District.

The applicability of pigments to assess periphyton assembly changes. July 1, 2002 to June 30, 2003. **\$ 23,000.00** South Florida Water Management District.

Bioseston Response to Changing Environmental Conditions in Northern Florida Bay. August 1, 2001 to July 31, 2002. **\$ 20,827.28.** United States Department of Commerce, National Marine Fisheries Division (South Florida Ecosystem Restoration and Management Program).

Florida Bay Epiphytes: Investigations of Seasonal and Spatial Succession. August 1, 2001 to July 31, 2002. **\$ 20,965.28.** United States Department of Commerce, National Marine Fisheries Division (South Florida Ecosystem Restoration and Management Program).

Organic Geochemistry in contemporaneous environments, ancient sediments and laboratory simulations. Support of Symposium, American Chemical Society, Division of Geochemistry, New Orleans, March 2003. Petroleum Research Fund, **\$3,600.00**

Chemotaxonomic Assessment of Phytoplankton Succession Northern Florida Bay. February 16, 2001 to July 31, 2001. **\$ 21,013.70**. United States Department of Commerce, National Marine Fisheries Division (South Florida Ecosystem Restoration and Management Program).

Photosynthetic Pigment Analyses of Macrophytes, Periphyton, and Microphytobenthos in Florida Bay. February 16, 2001 to July 31, 2001. **\$ 20,830.70**. United States Department of Commerce, National Marine Fisheries Division.

Investigation of Florida Bay Algal Bloom History using Chlorophyll and Carotenoid Biomarkers. South Florida Water Management District. **\$25,000.00** (1997 - 1998).

Pigment Analysis of Benthic and Pelagic Algae in Lake Okeechobee, Florida. Contract #DSR 93-313 from South Florida Water Management District. **\$62,500.00**. (1995-1997). (Co-PIs were E.W. Baker and C.E. Carraher)

M. Reviewer activities:

M.1.: Grant proposal reviewer.

National Science Foundation
American Chemical Society-Petroleum Research Fund.

M.2.: Manuscript reviewer.

Organic Geochemistry
Estuarine, Coastal and Shelf Science
Estuaries and Coasts
Marine Chemistry
Journal of Plankton Research
Energy and Fuels
Geochimica et Cosmochimica Acta
Marine Ecology Progress Series
Journal of Environmental Monitoring
Chemical Geology