

SERGE THOMAS, Ph.D.

Associate Professor, Aquatic ecologist

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RESEARCH INTERESTS: Algal ecology and (photo)physiology, eutrophication in all shallow tropical hydrosystems (freshwater to saline, permanent to transient, natural to artificial), eutrophication prevention and remediation using green technologies (e.g. phytoremediation in constructed wetlands and ponds), xenobiotics and physico-chemical processes, sediment characterization, biogeochemistry, settling velocity, resuspension and entrainment in shallow hydrosystems, water and nutrient budget, remote sensing with UAVs (drones).

EDUCATION

Ph.D. 2000 Department of Biological Oceanology and of Marine Environment, University Paris VI, France. *Thesis:* The different primary producers in a small African tropical reservoir: time changes and interactions (L. Brobo, Ivory Coast). Institut de Recherche pour le Développement, France (www.ird.fr). Advisor: Dr. J. Lemoalle.

DEA* 1995 Department of Biological Oceanology and of Marine Environment, University Paris VI, France. *Thesis:* Particulate carbon fluxes in the Mediterranean Sea and in the Antarctic Ocean. International Atomic Energy Agency (www.IEA.org), Monaco. Advisor: Dr. J.C. Miquel.

* Diplôme d'Etudes Approfondies: 1-year French diploma required for a Ph.D. preparation

M.S. 1994 Department of Organisms and Populations Biology, University Paris VI, France
Thesis: Biological data on the marine macroalga *Himantalia elongata*. Université Pierre et Marie Curie (www.upmc.fr), France. Advisor: Dr. R. Delépine.

B.S. 1993 Department of Organisms and Populations Biology, University Paris VI, France.

PROFESSIONAL EXPERIENCE

2008-present Assistant Professor. Department of Marine and Ecological Sciences, Environmental Studies Program, Florida Gulf Coast University, FL. Hired since January 2008 on a 9-month position *teaching 75% and 25% for combined service and research/scholarships.*

2019-present Affiliate of the Water School. FGCU

2018-present Chair of the College Governance Team. FGCU, College of Arts and Sciences.

2008-present Affiliate. Coastal Watershed Institute, FGCU, FL and Whitaker Center for STEM education, FGCU, FL.

2012-present Affiliate. Everglades Wetland Research Park, Kapnick Center, FGCU, Naples FL.

2014-2015 Program Leader BA Environmental Studies. Department of Marine and Ecological Sciences.

2004-2007 Visiting Scientist. Southeast Environmental Research Center, Biology Department, Florida International University (SERC/FIU), Miami, FL, USA.

Research themes: "Florida Bay eutrophication", "Algal physiology", "Nitrogen fixation", "Marine phytoplankton isolation and culturing"

Teaching: Ichthyology (ZOO5456)

2001-2003 Research Associate SERC/FIU, Miami, FL, USA.

Research themes: "Phytoremediation in constructed wetlands", "periphyton as a bioindicator of pollution", "wetland rehabilitation and protection" & "algal toxicity".

1995-2000 Ph.D. candidate & Military service (as a civilian). "Small reservoirs" programme, Institut de Recherche pour le Développement (IRD), Bouaké, Ivory Coast (field work) and Montpellier, France (writing).

Research theme: Primary production of northern ranching reservoirs of Ivory Coast

AWARDS AND GRANTS

- 2019** Nation M., **Thomas S.** (submitted). Florida Department of Environmental Protection- Division of Water Restoration- Public education programs on nonpoint source management (319h)
Douglass J., **Thomas S.** 2018. Naples Bay Oyster Reef Restoration Ecological Monitoring. City of Naples. \$50,000.
Thomas S., Duke D., Everham E.M., MacDonald J., Missimer T.M. 2019. Ground and aboveground nutrient sources, fates and loading in and out FGCU. FGCU Scholarship-Research Venture Capital Fund Awards. \$8,230.
Nation M., **Thomas S.** 2019. Project FLOW. FGCU, Undergraduate Studies. Communities in Transition Initiative. \$16,783.
- 2018** Duke L.D., **Thomas S.** Drainage, Stormwater Management, and Flood Mitigation: Improving Readiness for Future Storm Events for the Village of Estero, FL. FGCU UGS Communities in Transition Initiative. \$27,909.
- 2017** O'Sullivan R., **Thomas S.** High temporal water quality monitoring in two FGCU ponds of critical importance. Center for Environmental and Sustainability Education, Student Associates for a Greener Environment. \$495.
Thomas S. Limnological assessment of the ponds of Burnt Store Lakes POA (Punta Gorda, FL). Phase II. \$10,943.05.
Thomas S. Quantification and characterization of microplastics at the mouth of the main tributaries of Estero Bay. Blair Foundation. \$5,000.
Thomas S. Sediment distribution and characterization of a subsample of stormwater ponds on Sanibel Island: Addendum I. The City of Sanibel Island. \$985.26
- 2016-2017** **Thomas S.**, Urakawa H. Sediment distribution and characterization of a subsample of stormwater ponds on Sanibel Island. The City of Sanibel Island. \$4,998.80.
- 2016-2017** Everham E., **Thomas S.** JEI Tapegrass Restoration Assistance. Johnson Engineering Inc. \$2,100.
- 2016-2017** **Thomas S.**, Urakawa H. Characterization of sediment microbial communities in the stormwater ponds of The City of Sanibel Island. FGCU Community Engaged Scholars Grant. Office of undergraduate scholarship. \$1,000.
- 2016-2018** **Thomas S.**, Fugate D. Settling and entrainment properties of STA particulates. SFWMD-FIU WO 4600003032. \$121,154.00
- 2016** **Thomas S.** Limnological assessment of the ponds of Burnt Store Lakes POA (Punta Gorda, FL). \$10,543.13.
- 2015-2016** **Thomas S.** Limnological health assessment of Carlton Lakes (Naples, FL). Part B. Carlton Lakes HOA. \$15,346.59.
- 2015-2016** Douglass J., **Thomas S.**, Urakawa H. Resolving Uncertainties in Restoration of Seagrasses in the Caloosahatchee Estuary: Epiphytes. SFWMD, \$25,000.
- 2015-2017** **Thomas S.**, Kim J.Y. Developing a water and nutrient budget for Lake Trafford, Florida, U.S.A. Florida Department of Environmental Protection. \$117,587.64
- 2014-2015** **Thomas S.**, Everham E. Lake Trafford Submerged Aquatic Vegetation monitoring and mapping Fiscal Year 2014-2015. \$10,000. SFWMD
- 2014-2016** **Thomas S.** Limnological health assessment of Little Harbour ponds (Naples, FL). Little Harbor HOA. \$17,860.59
- 2013-2015** **Thomas S.** Limnological health assessment of Carlton Lakes (Naples, FL). Carlton Lakes HOA. \$34,981.69
- 2013-2014** **Thomas S.** Dettmar, D. The potential use of aquatic macrophyte allelopathy to inhibit cyanobacterial harmful algal blooms. FGCU-ORGS Graduate Faculty Research Assistantship Award. \$10,000.
- 2013-2014** Migliolo F., **Thomas S.** Role of local periphyton on decontamination of excess nutrients industrial metals (Zn, Cd) and triclosan. Center for Environmental and Sustainability Education, Student Associates for a Greener Environment. \$500. FGCU ORGS, CES-SAGE
- 2013-2014** Everham E., **Thomas S.**, Ceilley D. Lake Trafford Limnological and Biological Assessment and Lake Management Coordination. \$25,000. SFWMD
- 2013-2014** Demers N., Hartley A., **Thomas S.**, Jong-Yeop K., Komisar S., Meij J-M. Determining anthropogenic sources of and concerns about nutrients in stormwater systems: an interdisciplinary approach (Fort Myers, FL, USA). \$25,000
- 2013** **Thomas S.** Sediment thickness assessment of 13 ponds located within The Pelican Preserve property, Fort Myers, FL. \$1,300. Pelican Preserve HOA.

- 2012-2014** **Thomas S.** Health assessment of the Pelican Landing ponds. The Bayside Improvement Community Development District, Coconut Creek, FL. \$35,330.26.
- 2012-2013** **Thomas S.** Determining groundwater seepage and subsequent nutrient loading in a detention pond (FGCU campus, Fort Myers, FL, USA). FGCU-ORSP Internal Grant Proposal, \$5,000.
- 2012-2013** **Thomas S.** Assessment of the health and of the sediment accumulation of the Lake located within the Town of Village Walk, Naples. Village Walk HOA, Naples, FL. \$22,473.
- 2012-2013** Ceilley D., **Thomas S.**, Everham E. Lake Trafford limnological assessment. South Florida Water Management District Contract number E, \$50,000.
- 2012-2013** **Thomas S.** Bathymetry and sediment characterization of Lake Manor, City of Naples, FL. Streets and Stormwater, City of Naples, FL. \$9,999.
- 2012-2013** **Thomas S.** Bathymetry and sediment characterization of Spring Lake, City of Naples, FL. Streets and Stormwater, City of Naples, FL. \$9,746.72.
- 2012** **Thomas S.** Bathymetry and sediment characterization of Longshore Lake. Longshore Lake HOA. \$6,888.76.
Thomas S. Sediment thickness assessment of 13 ponds located within The Pelican Preserve property. Fort Myers, FL. \$1,300.
- 2011-2012** Ceilley D., **Thomas S.**, Everham E. Lake Trafford limnological assessment. South Florida Water Management District Contract number D, \$50,000.
- 2011-2012** **Thomas S.** Testing the effects of acute cold temperature exposure on subtropical periphyton. FGCU- ORSP Graduate Assistantship grant, \$3,000.
- 2011-2012** **Thomas S.** Effects of Acute Cold Exposure to Subtropical Algae of South Florida. FGCU- ORSP Internal Grant Proposal, \$5,000.
- 2010-2011** Ceilley D., **Thomas S.**, Everham E. Lake Trafford limnological assessment. South Florida Water Management District Contract number C, \$50,000.
- 2010-2011** **Thomas S.**, Fugate D. Assessment of the cycling and compartmentalization of nitrogen and phosphorus in saturated soils, sediments and the water column in Lake Jesup, Florida. FIU subcontract 205002524-02, \$17,000.
- 2009-2010** Ceilley D., **Thomas S.**, Everham E. Lake Trafford limnological assessment. South Florida Water Management District Contract number B, \$25,000.
- 2008-2010** **Thomas S.**, Fugate D. Assessment of the cycling and compartmentalization of nitrogen and phosphorus in saturated soils, sediments and the water column in Lake Jesup, Florida. FIU subcontract 205002524-0, \$25,501.
- 2009** **Thomas S.** Lake Apopka sediment analyses. St Johns River Water Management District Contract 25378, \$36,980.
- 2006-2008** Scinto L.J., Anderson W., Ikenaga M., Sinigalliano C., **Thomas S.** Assessment of N₂-fixation in Lakes Jesup and Monroe, Florida. St. John's River Water Management District Contract SK42812, \$249,953.
- 2005-2008** Gaiser E., **Thomas S.** Modeling periphyton linkages to hydrology, salinity and phosphorus regimes within the C-111 and Taylor Slough basins. Everglades National Park, National Park Services, DOI. *Not funded but a large portion of this proposal is funded thru* Gaiser E., Price R., Scinto L.J., Trexler J. Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park. DOI, National Park Service. \$418,320.
- 2007** Scinto L.J., **Thomas S.** Monitoring, Assessment, Education and Management of Aquatic Resources in Miami Lakes Florida. The City of Miami Lakes, \$50,000.
- 1997-2000** **Thomas S.** Primary productivity of ranching reservoirs in Ivory Coast - Ph.D. Research Grant, French Ministère de la Recherche et de la Technologie, \$100,000.

TEACHING AT FGCU (2008-present)

5000 level

Limnology PCB5307-C

1000 level

Marine Systems
OCE1001-C

4000 level

Limnology PCB4303-C
Senior project research EVR4910
Senior research presentation EVR4911

3000 level

General Ecology PCB3043-C
Scientific Process ISC3120
Current Topic EVR4920
Regional Environmental Studies EVR3712
Overview of Environmental Studies EVR3002

PLANNING TO TEACH AT FGCU

3000 level

The University Colloquium: A Sustainable Future (trained to teach)

1000 level

Introduction to Environmental Sciences
EVR1001-C

TEACHING OUTSIDE FGCU

2005 Ichthyology (ZOO5456), Florida International University.

2000 **Alternative Stable States in shallow hydrosystems** (class for Ph.D. candidates in Ichthyology). Institut de Recherche pour le Développement, France.

CURRENT OR PAST GRADUATE STUDENT ADVISEES

Current Advisees

As advisor

2017-present Daniel Canfield. MS thesis in Environmental Sciences, FGCU. Project pending.

On thesis committee

Two graduate students conducting a MS thesis (Jessica Schroeder and Anne Margaret Smiley)

Past Advisees

As advisor

2016-2018 Jenna Leigh MacDonald, Co-mentored with Dr. Fugate for MS thesis in Environmental Sciences, FGCU. "Methods of sediment characterization in a stormwater treatment wetland south of Lake Okeechobee (FL, USA)".

2013-2016 Mark Lucius, MS thesis in Environmental Sciences, FGCU, Thesis title: Water nutrient budget for Lake Trafford. Current position: Research Specialist at Rensselaer Polytechnic Institute, NY.

2012-2015 Dana Dettmar, MS thesis in Environmental Sciences, FGCU. Thesis title: "In lake floating treatment wetlands could provide algae control through unsuspected mechanisms". Current position: Environmental Specialist for the City of Sanibel, FL.

On thesis committee

2014-2018 Matthew Sandra Whitmer. Committee member for M.S. thesis in Environmental Sciences. Influence of Aquatic Vegetation on Water Quality in Subtropical Freshwater Lakes

2013-2018 Michele Weitzel, Committee member for M.A. thesis in Environmental Sciences. "Flood Mitigation in the U.S. with the National Flood Insurance Program's Community Rating System: Effectiveness in Two States, Florida and Pennsylvania".

2013-2017 Drew Liddick, Committee member for M.A. thesis in Environmental Sciences. "Detention ponds for stormwater treatment: Evaluation of compliance and effectiveness in Lee Co, FL".

2015-2017 Tesla Richards, Committee member for M.S. thesis in Environmental Sciences. "Effect of urbanization on predatory defense mechanisms of Southern Ringneck Snake (*Diadophis punctatus punctatus*) populations in South Florida".

2013-2017 Matthew Gamel, Committee member for M.S. thesis in Marine Sciences. "American green caviar: Analysis of sea grape algae (*Caulerpa racemosa* var. *peltata*) for bio-filtration and valuable co-production".

2011-2017 Jennifer Clemente, Committee member for M.A. thesis in Environmental Sciences. "Environmental Factors Affecting *Enterococcus* and Fecal Coliform Bacteria in Beach Waters of Sarasota County, FL."

2015-2016 Thomas Behlmer Jr., Committee member for M.S. thesis in Marine Sciences. "Indirect effects of freshwater discharges on seagrass beds in Southwest Florida: Mesograzers as mediators of epiphyte growth?"

2015-2016 David Kluesner, Committee member for M.S. thesis in Marine Sciences. "Seasonal erodibility and bioturbation of mixed-muddy cohesive sediments in the Caloosahatchee River Estuary of southwestern Florida."

- 2011-2016** Alex Leynse, Committee member for M.S. thesis in Marine Sciences. “Nutritional and photophysiological approaches to identifying the niche of *Gambierdiscus*: Insight into the ecology of ciguatera fish poisoning.”
- 2013-2014** John Ferlita. Committee member for M.S. thesis in Environmental Sciences. “Ecological indicators of restoration success: Zooplankton as indicators of lake change in a dredged southwest Florida lake”.
- 2013-2014** Nicole LeGros. Committee member for M.S. thesis in Environmental Sciences. “Human preference for the use of simple cues by dogs”.

UNDERGRADUATE SENIOR RESEARCH PROJECT MENTORED (WITH ASTERISK= AWARD RECEIVED)

- 2019** Summer: 2 students for UAV and water quality research
Spring: 7 students for pond, groundwater and bee research.
- 2018** Fall: 2 students for pond research
Summer: 2 students for pond and groundwater research.
- 2017** Fall: 8 Students. 7 students for various detention pond projects Teaching compensated guided research EVR 4910.
Daniel Smith “Evaluation of the FGCU campus’ filter marsh”
Spring/Summer: 4 students
Cayden Lawn “limnological study of ponds (Sanibel Island)”. Funding provided by the City of Sanibel Island.
Felicia Nudo “Microplastics in Estero Bay”. Funding provided by the Blair Foundation.
Connor Thompson “Microplastics in Estero Bay”. Funding provided by the Blair Foundation.
Emily Hudec “Microplastics in Estero Bay”. Funding provided by the Blair Foundation.
- 2015** Fall: 2 students
Benjamin Dion* “Aerator Efficiency in Three Residential Stormwater Retention Ponds”. Aquila awardee.
Joseph D’Amato “Assessment of Nutrients Released from Detention Pond Sediments: Naples Florida”
- 2014** Spring: 11 students
Franco Migliolo “Triclosan removal by periphyton in a closed loop flume”.
Auston Germano “Examining the potential use of mollusk filters to control phytoplankton blooms in wet urban ponds”
Justin Lighthall, Katelyn Kersey, Richard Illsley “Commercial aquatic Pesticide Study of Select Lee County Storm Water Lakes”
Chelsea Houston, Ryan Waters, Brian Weinstein “Linking the Health of an Urban Stormwater Pond to the Wealth of Its Neighborhood”
Sarah Miller, Cristi Hamlin “Determining the Convolution, Density, and Surface Area of Collier County Wet Detention Ponds using ArcGIS”
Alex Goldin “Zooplankton horizontal migrations in urban wet ponds”
- 2013** Fall: 21 students (list available on demand) for various detention pond projects. Teaching compensated guided research EVR 4910.
Franco Migliolo. “Acute temperature exposure to tropical algae”.
Darrell Bagioti, Kelly Siegrist “Linking the Health of an Urban Stormwater Pond to the Wealth of Its Neighborhood”
Spring: 6 students (list available on demand) for various detention pond projects. Teaching compensated guided research EVR 4910.
Mark Lucius (paid). Examining groundwater seepage and nutrient loading in a small manmade urban detention pond. ORGS grant.
- 2012** Fall: 6 students (list available on demand) for various “detention pond” work co-mentored with Dr. Everham. Guided research EVR 4910.
Spring: 11 students (list available on demand) for various “detention pond” work co-mentored with Dr. Duke. Guided research EVR 4910.
- 2011-12** Nicholas Balcer. Cyanobacterial allelopathy: a literature review.
- 2010-11** Michele Weitzel. “Allelopathic effects of the Cyanophyceae *Microcystis aeruginosa* on various isolate algae from L. Trafford (Fl. USA)”
- 2010** Julie Berryman. “Tropical oligotrophic periphyton: Cold front simulation and monitoring”
- 2009** Robert Sullivan. “Does Marine activity affect the level of fecal coliform found in the water?”

Aaron Teegarden. "Temperature effects on productivity of oligotrophic periphyton.

Brandon Chavis. "Using Mapserver to freely share results of GIS work over the Internet".

UNDERGRADUATE (PAID) STUDENT INTERNSHIPS

2014 **Tristan Froud.** Work tied up to my various ponds projects.

2013 **Hobie Shireling.** Work tied up to my various detention ponds projects.

Lance York. Work tied up to my various detention ponds projects.

2010 **John Morris.** Work tied up to Lake Trafford monitoring.

Michele Weitzel. Algal isolation from L. Trafford.

PEER-REVIEWED PUBLICATIONS

In prep.

Thomas S., Gaiser E.E., Papkov G., Scinto L. Effect of fire on periphyton function in a short-hydroperiods calcareous wetland (Everglades National Park, USA). *Wetlands*.

Thomas S., Ceilley D., Everham E.M. III, Iricanin N., Pollman C. Impact of dredging in a shallow subtropical hypereutrophic lake (Lake Trafford, Florida).

Submitted

Lee D. Y., Kominoski J. S., Briceño H.O., Thomas S., Boyer J.N., Madden C.J. Testing long-term and episodic hydrologic drivers of benthic and planktonic biogeochemistry in shallow oligotrophic estuarine ecosystems, Florida, USA.

Published

Bouvy M., Arfi R., Cecchi P., Corbin D., Pagano M., Saint Jean L., **Thomas S.** 1998. Trophic coupling between bacterial and phytoplanktonic compartments in shallow tropical reservoirs (Ivory Coast, West Africa). *Aquatic Microbial Ecology*, **15**, 25-37.

Aka M., Pagano M., Saint-Jean L., Arfi R., Bouvy M., Cecchi P., Corbin D., **Thomas S.** 2000. Zooplankton variability in 49 shallow tropical reservoirs of Ivory Coast (West Africa). *International Review of Hydrobiology*, **85**, 491-504.

Thomas S., Cecchi P., Corbin D., Lemoalle J. 2000. The different primary producers in a small African tropical reservoir during a drought: temporal changes and interactions. *Freshwater Biology*, **45**, 43-56.

Arfi R., Bouvy M., Cecchi P., Pagano M., Saint-Jean L., **Thomas S.** 2001. Factors limiting phytoplankton productivity in 49 shallow reservoirs of North Côte d'Ivoire (West Africa). *Aquatic Ecosystem Health and Management*, **4**, 123-138.

Havens K.E., Hauxwell J., Tyler A.C., **Thomas S.,** McGlathery K.J., Cebrian J., Valiela I., Steinman A.D., Hwang S.J. 2001. Complex interactions between autotrophs in shallow marine and freshwater ecosystems: implications for community responses to nutrient stress. *Environmental Pollution*, **113**, 95-107.

Thomas S., Gaiser E.E., Gantar M., Pinowska A., Scinto L.J., Jones R.D. 2002. Growth of calcareous epilithic mats in the margin of the natural and polluted hydrosystems: phosphorus removal implications in the C-111 basin, Florida Everglades, USA. *Lake and Reservoir Management*, **18**, 324-330.

Thomas S., Gaiser E.E., Gantar M., Scinto L.J. 2006. Quantifying the responses of calcareous periphyton crusts to rehydration: a microcosm study (Florida Everglades). *Aquatic Botany*, **84**, 317-323.

Thomas S., Gaiser E.E., Tobias F.A. 2006. Effects of shading on calcareous benthic periphyton in a short-hydroperiod oligotrophic alkaline wetland (Everglades, FL, U.S.A). *Hydrobiologia*, **569**, 209-221.

Hall R.O., **Thomas S.,** Gaiser E.E. 2007. Measuring freshwater primary production and respiration. In *Principles and Standards for Measuring Primary Production*. T.J. Fahey and A.K. Knapp, editors. Oxford University Press, New York, USA. 175-203.

Gantar M., Berry J.P., **Thomas S.,** Wong M., Rein K., Gawley R.E. 2008. Allelopathic activity among cyanobacteria and microalgae isolated from Florida freshwater habitats. *FEMS Microbiology Ecology*, **64**, 55-64.

Cassell R.T., Chen W., **Thomas S.,** Liu L., Rein K.S. 2015. Brevetoxin, the Dinoflagellate Neurotoxin, Localizes to Thylakoid Membranes and Interacts with the Light-Harvesting Complex II (LHCII) of Photosystem II. *CHEMBIOCHEM*, **16**, 1050-1067.

- Gunnels C.W. IV, Bovard B., Buzasi D., Cassani M.K., Douglass J., Everham E.M. III, Hartley A., Herman J., Mujtaba M., Muller J., Nicolas A., Southard L., **Thomas S.**, Demers N.E. 2015. Engaging Students in Ethical Considerations of the Scientific Process through a Simulated Funding Panel. *CUR Quarterly*. CURMS# 2014CURQ000469R1.
- Thomas S.**, Lucius M. 2016. Groundwater seepage nutrient loading in a recently dug wet detention stormwater pond. *Florida Scientist* **79**, 132-146.
- Leynse A.K., Parsons M.L., **Thomas S.** 2017. Differences in the photoacclimation and photoprotection exhibited by two species of the ciguatera causing dinoflagellate genus, *Gambierdiscus*. *Harmful Algae*, **70**, 90-97.
- Urakawa H., Dettmar D.L., **Thomas S.** 2017. The uniqueness and biogeochemical cycling of plant root microbial communities in a floating treatment wetland. *Ecological Engineering*, **108**, Part B, 573-580.
- Zhang L., **Thomas S.**, Mitsch W.J. 2017. Design of real-time and long-term hydrologic and water quality wetland monitoring stations in South Florida, USA. *Ecological Engineering*, **108**, 446-455.

BOOK CHAPTERS (in French)

- Aka M., Pagano M., Saint-Jean L., Arfi R., Bouvy M., Cecchi P., Corbin D., **Thomas S.** 2007. Variation spatiales des communautés et de biomasse du zooplankton dans 49 petits barrages. In *L'eau en partage – Les petits barrages de Côte d'Ivoire*. P. Cecchi, Editor. Latitudes 23, IRD editions, Paris, France. 143-151.
- Arfi R., Bouvy M., Cecchi P., Pagano M., Saint-Jean L., **Thomas S.** 2007. Facteurs limitant la productivité phytoplanctonique dans 49 petits barrages. In *L'eau en partage – Les petits barrages de Côte d'Ivoire*. P. Cecchi, Editor. Latitudes 23, IRD editions, Paris, France, 97-109.
- Bouvy M., Arfi R., Cecchi P., Corbin D., Pagano M., Saint-Jean L., **Thomas S.** 2007. Métabolisme bactérien et phytoplanctonique de trois barrages de Côte d'Ivoire. In *L'eau en partage – Les petits barrages de Côte d'Ivoire*. P. Cecchi, Editor. Latitudes 23, IRD editions, Paris, France. 125-133.
- Thomas S.**, Cecchi P., Corbin D., Assamoi J.-P. 2007. Distribution et évolution des biomasses végétales dans le petit barrage de Brobo (centre de la Côte d'Ivoire). In *L'eau en partage – Les petits barrages de Côte d'Ivoire*. P. Cecchi, Editor. Latitudes 23, IRD editions, Paris, France. 111-123.

REPORTS (extramurally funded, peer reviewed with an asterisk*)

- Scinto L.J., **Thomas S.** 2008. Monitoring, Assessment, Education, and Management of Aquatic Resources in Miami Lakes, Florida. The Town of Miami Lakes, FL. Special publication SJ2011-SP3.
- Scinto L.J., **Thomas S.**, Anderson W., Ikenaga M., Sinigalliano C. 2008*. Assessment of N₂-fixation in Lakes Jesup and Monroe FL. 2008. St. John's River Water Management District Contract SK42812.
- Thomas S.** 2009*. Lake Apopka Sediment Analyses. St Johns River Water Management District Contract 25378.
- Ceilley D., **Thomas S.** and Everham E. 2010*. Lake Trafford limnological assessment. SFWMD Contract B.
- Ceilley D., **Thomas S.** and Everham E. 2011*. Lake Trafford limnological assessment. SFWMD Contract C.
- Anderson W.E., Scinto L.J., Nielsen S., **Thomas S.**, Fugate D., Corbett R. 2011*. Assessment of the cycling and compartmentalization of nitrogen and phosphorus in saturated soils, sediments and the water column in Lake Jesup, Florida. St. John's River Water Management District Contract 25044.
- Ceilley D., **Thomas S.** and Everham E. 2012*. Lake Trafford limnological assessment. SFWMD Contract D.
- Ceilley D., **Thomas S.** and Everham E. 2013*. Lake Trafford limnological assessment. SFWMD Contract E.
- Thomas S.** 2013. Bathymetry and sediment characterization of Longshore Lake. Longshore Lake HOA, Naples FL.
- Thomas S.** 2013. Assessment of the health and of the sediment accumulation of the Lake located within the Town of Village Walk, Naples. Village Walk HOA, Naples FL.
- Thomas S.** 2013. Sediment thickness and characterization assessment of 13 ponds located within The Pelican Preserve property, Fort Myers FL. Subcontracted by <http://www.cesecodesigns.com>.
- Thomas S.** 2013*. Bathymetry and sediment characterization of Lake Manor, City of Naples, FL. Streets and Stormwater, City of Naples FL.
- Thomas S.** 2013*. Bathymetry and sediment characterization of Spring Lake, City of Naples, FL. Streets and Stormwater, City of Naples FL.
- Everham E., **Thomas S.**, Ceilley D. 2014*. Lake Trafford limnological assessment. SFWMD Contract F.
- Thomas S.** 2014. Health assessment of the Pelican Landing ponds. Bayside/Bay Creek Community Development District, Estero FL.
- Thomas S.** 2015. Limnological health assessment of Carlton Lakes (Naples, FL). Carlton Lakes CCD, Naples FL.

- Thomas S.**, Everham E. 2015. Lake Trafford Submerged Aquatic Vegetation monitoring and mapping. SFWMD Contract G.
- Thomas S.** 2016. Limnological assessment of the ponds of Burnt Store Lakes POA (Punta Gorda, FL). Part I. Burnt Store Lakes POA, Punta Gorda FL.
- Thomas S.** 2016. Limnological health assessment of Carlton Lakes II (Naples, FL). Carlton Lakes CCD, Naples FL.
- Thomas S.** 2016. Limnological health assessment of Little Harbour ponds (Naples, FL). Little Harbour HOA, Naples FL.
- Thomas S.** 2017. Limnological assessment of seven Sanibel Island ponds. City of Sanibel Island, FL. City of Sanibel FL.
- Thomas S.**, Kim J-Y, Lucius M. 2017*. Developing a water and nutrient budget for Lake Trafford, Florida, U.S.A. FDEP Contract S0778.
- Thomas S.** 2017. Limnological assessment of the ponds of Burnt Store Lakes POA (Punta Gorda, FL). Part II. Burnt Store Lakes POA, Punta Gorda FL.
- Scinto L.J., **Thomas S.**, Fugate D.C., Dessu S.B., Perkey D.W., Price R.M., Smith S.J. 2019. Settling and Entrainment Properties of STA Particulates.

PRESENTATIONS AT MEETINGS (presentation made as a co-author with asterisks, invited)**

- Oral**
- 2019** **Thomas S.**, Scinto L.J., Fugate D.C., Dessu S.B., Perkey D.W., Price R.M., Smith S.J., Sanders C.J. Settling and Entrainment Properties of STA Particulates. FLMS 30th Annual Technical Symposium, August 27-30, Duck Key.
Scinto L.J., **Thomas S.****, Fugate D.C., Dessu S.B., Perkey D.W., Price R.M., Smith S.J., Sanders C.J. Settling and Entrainment Properties of STA Particulates. GEER 2019, April 22-25, Coral Springs, FL
- 2018** **Thomas S.** The use of UAVs to help improve our understanding of the limnology of urban stormwater ponds. FLMS 29th Annual Technical Symposium, August 28-31, Ft Lauderdale.
Thomas S. Research involving UAV at Florida Gulf Coast University: Ecosystem level consequences of natural and anthropogenic stress. Florida polytechnic University, Florida state-wide Autonomous Systems (FAST) meeting March 2, Lakeland, FL.
- 2017** **Thomas S.** Stormwater Ponds of South and Southwest Florida: Summary of a 12-year Limnological Investigation. Florida Lake Management Society, June 6-9, Captiva, FL.
Thomas S. Limnological Assessment of the Ponds of Burnt Store Lakes POA (Charlotte County, FL). CHNEP Water Summit, March 28-30, Punta Gorda, FL.
Bovard B., et al. (27 co-authors). Cross-curricular Integration of the Florida Gulf Coast University Campus as a Living Laboratory. CHNEP Water Summit, March 28-30, Punta Gorda, FL.
Lawn C., **Thomas S.** Limnological study of Seven stormwater ponds (City of Sanibel Island, Florida). Florida Lake Management Society, June 6-9, Captiva, FL.
Scinto L.J., **Thomas S.***, Fugate D.C., Dessu S.B., Perkey D.W., Price R.M., Smith S.J., Sanders C.J. Settling and Entrainment Properties of STA Particulates. GEER 2017, April 17-20, Coral Springs, FL.
- 2016** **Thomas S.** Southwest Florida stormwater ponds have morphed from ecological filters to landscape features. AWRA Annual Conference, November 13-17, Orlando, FL.
Thomas S. Southwest Florida stormwater ponds have morphed from ecological filters to landscape features. ESA (Ecological Society of America), August 7-12, Fort Lauderdale, FL.
Thomas S. Ponds of southwest Florida: Ticking time bombs. Association of Limnology and Oceanography (ASLO), June 5-10, Santa Fe, NM.
Lucius M., **Thomas S.** Creating a water and nutrient budget for Lake Trafford, FL, USA. FLMS, June 7-10, Daytona Beach, FL.
Urakawa H., Dettmar D., **Thomas S.** Rhizosphere microbiomes of floating treatment wetland revealed the importance of complex biogeochemical processes. 5th International EcoSummit 2016, Ecological Sustainability: Engineering Change, August 19- September 2nd, Montpellier, France.
Zhang L., Mitsch W.J., **Thomas S.** Implementing real-time long-term weather/climate/hydrology/water quality field stations in brackish and freshwater wetlands in the Southwest Florida, USA. 5th International

- EcoSummit 2016, Ecological Sustainability: Engineering Change, August 19-September 2, Montpellier, France.
- 2015** Dettmar D., **Thomas S.** In-lake floating treatment wetlands could provide algae control through unsuspected mechanisms. FLMS, June 8-11, Naples, FL.
- 2014** **Thomas S.** The Ecology of 11 Urban Stormwater Ponds (Bayside Improvement and Bay Creek Community Development Districts, SW Florida). NALMS, November 12-14, Tampa, FL.
- Thomas S.** Stormwater ponds: Thousands of ticking time bombs for water quality in southwest Florida. Florida Lakes Management Society (FLMS) 25th Annual Technical Symposium, June 16-19, Stuart, FL.
- Thomas S.**** Algae: The Good, Bad and Ugly. Florida Native Plant Society's 34th annual conference, May 15-18, Fort Myers, FL.
- Thomas S.** The Ecology of 11 Urban Ponds Located within the Pelican Landing Community. CHNEP Watershed Summit, March 25 - 27, Punta Gorda, FL.
- Thomas S.**** Wet Detention Stormwater Treatment Ponds: Thousands of Ticking Time Bombs for Water Quality in Southwest Florida. 23rd Annual Southwest Florida Water Resources Conference, American Water Resource Association, January 31, Fort Myers, FL.
- Everham W., Alman P., Bovard B., Brown G., Cassani M.K., Ceilley D.W., Charmatz K., Croshaw D., Demers N., Forest M., Green D., Gunnels C.W., Herman J., Jackson J., Kakareka J., MacDonald J., Muller J., Sanders W., **Thomas S.**, Tolley S. G., Wilkinson A., Wilkinson N., Wohlpart S. CHNEP Watershed Summit, March 25 - 27, Punta Gorda, FL.
- Dettmar D., **Thomas S.** How do plants grown hydroponically control algae blooms? Florida Lakes Management Society (FLMS) 25th Annual Technical Symposium, June 16-19, Stuart, FL.
- Lucius M., **Thomas S.** Examining the interactions between wet detention pond water and groundwater: Potential implications for storm water treatment. Florida Lakes Management Society (FLMS) 25th Annual Technical Symposium, June 16-19, Stuart, FL.
- Lucius M., **Thomas S.**, York L. Examining the interactions between wet detention pond water and groundwater: Potential implications for storm water treatment. CHNEP Watershed Summit, March 25 - 27, Punta Gorda, FL.
- 2013** **Thomas S.**, Anderson W., Scinto L., Nielsen S., Fugate D., Corbett R. Assessment of the cycling and compartmentalization of nitrogen and phosphorus in saturated soils, sediment and the water column in Lake Jesup, Florida. 22nd Annual North American Lake Management Society (NALMS) and 24th Annual Florida Lake Management Society (FLMS) meeting, June 17-20, Daytona Beach, FL.
- 2009** **Thomas S.**, Corcoran P., Everham III E. M. Sustainable Solutions to Environmental Issues: Cross-cultural sustainability training through interdisciplinary studies. Humanities and Sustainability conference, May 8-9, FGCU, Fort Myers FL.
- 2008** **Thomas S.**, Scinto L.J., Anderson W., Ikenaga M., Sinigalliano C., Brandt-Williams S. Assessment of N₂-Fixation in Lakes Jesup and Monroe, Florida. FLMS meeting, June 2-5, Sandestin, FL.
- 2007** **Thomas S.**, Scinto L.J. Monitoring, Assessment, Education and Management of Aquatic Resources in Miami Lakes Florida. City Hall, Town of Miami Lakes, FL, USA.
- 2006** **Thomas S.**, Gaiser E.E. How do flooding, fire and shade influence periphyton in the Everglades marl prairie? Greater Everglades Ecosystem Restoration (GEER), June 5-9, Lake Buena Vista, FL.
- 2003** **Thomas S.**, Gaiser E.E., Gantar M., Scinto L.J., Jones R.D. Dry benthic periphyton recovery and phosphorus buffering upon wetting in the Everglades: a microcosm survey. ESA (Ecological Society of America), August 3-8, Savannah, GA.
- Thomas S.**, Gaiser E.E., Gantar M., Scinto L.J., Jones R.D. Evaluation of a periphyton-based stormwater treatment area (PSTA) in the margin of the C-111 canal and the Everglades national park (ENP): Results of a two-year investigation (2001-2002). Greater Everglades and Florida Bay ecosystems restoration, April 13-18, Palm Harbor, FL, USA.
- 2002** **Thomas S.**, Gaiser E.E., Gantar M., Scinto L.J., Jones R.D. Growth of calcareous epilithic mats in margin of the natural and polluted hydrosystems: phosphorus removal implications (C-111 basin, Everglades, Florida). ASLO (the American Society of Limnology and Oceanography), June 10-14, Victoria, BC, Canada.
- Thomas S.** The advantage of using an incubation chamber over light and dark BOD bottles in measuring periphyton productivity. Long Term Ecological Research meeting (LTER), FIU, Miami, FL, USA.
- 2000** **Thomas S.**, Cecchi P., Corbin D., Lemoalle J. Impact of water-level fluctuations on the periphyton colonization of vertical artificial substrata in a tropical lake (Brobo, West Africa) ASLO, Jun 5-9, Copenhagen, Denmark.

- Lemoalle J., **Thomas S.** The effects of macrophytes on the water quality during a drought in a shallow tropical lake (L. Chad). ASLO, Jun 5-9, Copenhagen, Denmark.
- 1999** **Thomas S.**, Cecchi P., Corbin D., Lemoalle J. The minor importance of periphytic communities on total primary production in a small African tropical reservoir: an ecosystem study (Brobo, Ivory Coast). ASLO, February 1-5, Santa Fe, NM.
- Thomas S.**, Cecchi P., Corbin D., Lemoalle J. Periphyton Dynamics on artificial and natural substratum of a small tropical reservoir (Brobo, Côte d'Ivoire). IV Congrès International Limnologie-Océanographie, September 7-10, Bordeaux, France.
- Poster**
- 2017** Everham E.E. **Thomas S.**, Ferlita J., Lucius M., Ceilley D. State of Lake Trafford Following Restoration Dredging. GEER 2017, April 17-20, Coral Springs, FL.
- 2016** **Thomas S.** Southwest Florida stormwater ponds have morphed from ecological filters to landscape features. 2016 FCE LTER All Scientists Meeting, March 14-15, Miami, FL.
- 2015** **Thomas S.** The limnology of Lake Trafford prior and post dredging (1997-2012 period). FLMS, June 8-11, Naples, FL.
- Lucius M., **Thomas S.**, Kim J.Y. 2015. Investigating the water flow and nutrient loading into Lake Trafford, FL. FLMS, June 8-11, Naples, FL.
- Thomas S.** Stormwater ponds of SW Florida could deal a blow to GEER. GEER conference, April 21-23, Coral Springs, FL.
- Urakawa H., Dettmar D., Garcia J., **Thomas S.** Origin of Plant Root Microbial Communities in Artificial Floating Islands: Plant Root-Water Interface. ASM, May 30-June 2, New Orleans, LA.
- Everham E.E. **Thomas S.**, Ferlita J., Lucius M., Ceilley D. Guiding Lake Trafford's restoration: Lake Trafford Management Action Plan. GEER conference, April 21-23, Coral Springs, FL.
- 2014** Ceilley D., **Thomas S.**, Everham E., Ferlita J. Guiding Lake Trafford's Recovery: Lake Trafford Management Team and Management Action Plan. CHNEP 2014 Watershed Summit, March 25-27, Punta Gorda, FL.
- 2013** Gunnels C.W., Everham E.M., **Thomas S.**, Bovard B., Demers N., Loh A.N. Class-Directed Undergraduate Research Maintains Universal Experience for all Science Graduates. Pre-ISSOTL Conference CUR Symposium, October 2, Rayleigh, NC.
- 2012** Ferlita J., Everham E., Ceilley D., **Thomas S.** Spatial and Temporal Community Dynamics of Freshwater Invertebrates in a Southwest Florida Lake: Measuring Restoration Success. Inaugural South Florida Graduate Research Symposium. University of Florida IFAS, July 18, Ft Lauderdale, FL.
- 2011** Nielsen S.M., Fugate D., **Thomas S.** Assessing sediment dynamics of the Middle St. Johns River Basin, Lake Jesup. FGCU 10th Annual Research Day, FGCU, Ft. Myers.
- 2010** Nielsen S.M., Anderson W.T., Scinto L.J, **Thomas S.**, Fugate D., Corbett R. and Brandt-Williams S. Assessing sediment dynamics of the Middle St. Johns River Basin, Lake Jesup. AGU Fall meeting, December 13-17 San Francisco, CA.
- Ceilley D.W., E. M. Everham III, **S. Thomas**, J.A. Morris, and K.M. Ross. An Update of the Biological Monitoring Plan for the Lake Trafford Restoration Project, Collier Co. FL. GEER meeting, July 12-16, Naples, FL.
- 2010** **Thomas S.**, A. Teegarden, and J. Boyer. Looking at the impact of temperature on the photosynthesis of oligotrophic short-hydroperiod epilithic calcareous periphyton. FCE LTER meeting, March 15-16, Miami, FL.
- 2004** **Thomas S.**, Gaiser E. Benthic periphyton recovery and phosphorus dynamics upon artificial flooding in a newly burned freshwater marl prairie (Everglades National Park, FL, USA). NCER (National Conference on Ecosystem Restoration), December 6-10, Orlando, FL, USA.
- 1999** **Thomas S.**, Cecchi P., Corbin D., Lemoalle J. The different primary producers in a small African tropical reservoir during a drought period (Brobo, Ivory Coast, West Africa). SEFS (Symposium for European Freshwater Sciences), 22-28 August, Antwerpen, Belgium.

INVITED PRESENTATIONS AT WORKSHOPS OR SYMPOSIA OF REGIONAL IMPORTANCE

- 2016** **Thomas S.** Southwest Florida stormwater ponds have morphed from ecological filters to landscape features. Audubon Assembly 2016 "One Gulf", St Petersburg.
- 2016** **Thomas S.** Pond management strategies to control algae and sediment accumulation. Two same oral presentations in Naples.
- 2015-2016** **Thomas S.** Pond management strategies to control algae and sediment accumulation. Three same oral presentations in Bonita Springs, Lee High Acres in 2014 and Bonita Springs in 2015.
- 2014** **Thomas S.** Stormwater ponds: Thousands of ticking time bonds for water quality in southwest Florida. Bonita Springs Citizens Water Strategy Task Force

- 2014** **Thomas S.** Algae, the good, bad and ugly. Neighborhood Lakes and Ponds Management NLPM stormwater pond workshop. Fort Myers.
- 2013** **Thomas S.** Algae in ponds. FGCU Kapnik Center, Naples
- 2013** **Thomas S.** Preventing and dealing with pond eutrophication. Pelican Bay Guesthouse Golf Club, Naples.
- 2013** **Thomas S.** Algal developments in detention ponds: the good, the bad and the ugly. FGCU Kapnik Center, Naples
- 2012** **Thomas S.** Temporal dynamics of algae in urban ponds. Pond workshop. FGCU Kapnik Center, Naples.
- 2012** **Thomas S.** Wet detention ponds: Their incapacity to detain pollutants which impacts downstream hydrosystems. Southwest Florida Coastal Watershed Workshop. FGCU, Fort Myers.
- 2012** **Thomas S.** How do stormwater ponds turn turbid green: An ecological perspective. Water Symposium of Florida: Stormwater pond solutions. Bear Paw Country Club, Naples.
- 2011** **Thomas S.** How do retention ponds turn turbid green? Understanding the clear water to turbid water shift of shallow water hydrosystems in South Florida. Rookery Bay, Naples.
- 2011** **Thomas S.** How do retention ponds turn turbid green? Stormwater lake management. Property Owners Association Presidents Meeting, Collier County Comprehensive Planning Services, Naples.
- 2011** **Thomas S.** Eutrophication of shallow retention ponds. South Florida Water Management District, Big Cypress branch, Naples.
- 2011** **Thomas S.** Eutrophication of shallow retention ponds. Greenscape Alliance meeting. Naples Botanical Garden - Kapnick Research & Education Center, Naples.
- 2010** Scinto L.J., **Thomas S.**, Anderson W.T., Ikenaga M., Fugate D., Corbett R., Brandt-Williams S. Assessment of N₂-fixation in Lakes Jesup and Monroe, Florida. St Johns River Water Management District, Palatka, FL.
- 2008** **Thomas S.** Investigations on the periphyton of the Everglades. Whitaker Center Sprouting STEM, FGCU, Ft Myers.
- 2007** **Thomas S.** Monitoring, Assessment, Education and Management of Aquatic Resources in Miami Lakes, Florida. City Hall, Town of Miami Lakes, FL.
- 2003** **Thomas S.** Periphyton response to rewetting in the Southern Everglades. Brown Bag seminar, Southeast Environmental Research Center, FIU, FL.
- 2002** **Thomas S.** How playing with the mud in South Florida can help prevent further Everglades enrichment: results of a two-year investigation. Brown bag seminar, Southeast Environmental Research Center, FIU, FL.

PROFESSIONAL SERVICE

Manuscript Reviewer for

- 2017** Wetlands (manuscript WELA-D-17-00078)
- 2014** Wetlands (manuscript WELA-D-14-00098)
- 2013** Estuaries and Coasts (manuscript ESCO-D-12-00365R1)
- 2012** Estuaries and Coasts (manuscript ESCO-D-12-00365)
- 2012** Ecological Engineering (manuscript ECOLENG-D-12-00029)
- 2011** Science of the total environments (STOTEN) (manuscript STOTEN-D-11-01112)
- 2011** Fl. Scientist (Provost et al.)
- 2010** Limnology and Oceanography (manuscript L&O 10-022)
- 2010** North American Benthological Society (manuscript #09-129)
- 2009** Hydrobiologia (manuscript # HYDR4576R1)
- 2007** Biogeochemistry (manuscript # BIOG824)
- 2007** Ecological Engineering (manuscript ECOLENG-D-00065)
- 2001** Archiv für Hydrobiologie (Calijuri et al.)

External Proposal Reviewer

- 2007** Natural Environment Research Council (proposal # NE/E011675/1)
- 2007** National Institute for Water Resources (NIWR) (proposal # 2007PR39G)
- 2005** NSF CAREER (proposal # 0545965)

Professional affiliations

American Society of Limnology Oceanography (ASLO), Association Française de Limnologie (AFL), Ecological Society of America (ESA), Florida Lake Management Society and North American Lake Management Society, Florida Coastal Everglades Long Term Ecological Monitoring (collaborator).

COLLEGE LEVEL SERVICE

- 2018-present** Chair of the College Governance Team, College of Arts and Sciences
2017-present School of Integrated Coastal and Watershed Studies Steering Committee
2016-present Faculty Senator
2012-present MS Environmental Science and the MA Environmental studies graduate admission committee
2011-present Advisor for the Food Forest Committee (<http://fgcufoodforest.weebly.com>)
2015-2016 No service (sabbatical year)
2014-2015 Program Leader for the BA Environmental Studies
Senator for Faculty Senate
FGCU Budget Committee.
Strategic Planning & Budget Advisory Committee (SPBAC)
2012-2014 College Governance Team (CGT): department of Marine and Ecological Sciences representative
2012-2013 Custodian of The Campus Ecological Model <http://www.fgcu.edu/CAS/CEM/index.html>
Honor students interview to select them into the program
2012 "Whitaker Eminent Scholar in Science" Req. 1481, Search Committee chaired by Dr. Volety
"Sea grass Science" Req. 1423, Assistant Professor Search Committee chaired by Dr. Rumbold
2011 "Hydrodynamic modeler" Req. 1232, Assistant Professor Search Committee chaired by Dr. Fugate
2010 "Whitaker Eminent Scholar in Science" Req. 1104, Search Committee chaired by Dr. Volety
"Aquatic microbial Ecologist" Req. 932, Assistant/Associate Professor Search committee chaired by Dr. Parsons
2009 "Whitaker Eminent Scholar in Science" Req. 903, Search Committee chaired by Dr. Volety

EXTRAMURAL SERVICE: PROFESSIONAL SERVICES IN NON-PROFIT ORGANIZATIONS

- 2017- present** Member of the Calusa Waterkeeper (<http://www.calusawaterkeeper.org>, replaces www.swfwc.org)
Member of the Board of Directors of the Florida Lake Management Society (FLMS.net)
2012- present Member of the Bonita Springs Citizens Water Strategy Task Force
2012-2017 Member of the Southwest Florida Watershed Council: <http://www.swfwc.org> (now defunct)
2011- present Member of the association Greenscape: www.rookerybay.org/greenscape
2003- present Member of the Florida Coastal Everglades Long Term Ecological Research Network (FCE-LTER)

EXTRAMURAL SERVICE: COMMUNITY OUTREACH

Newspapers and other grey literature articles

- 2018** **USA Today.** 10/09/2018. Hurricane Michael may affect red tide and blue-green algae. Here's how.
<https://www.elpasotimes.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>
<https://www.pal-item.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>
<https://ux.news-leader.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>
<https://www.htrnews.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>
<https://www.naplesnews.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>
<https://www.chillicothe Gazette.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>
<https://www.marconews.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>

<https://www.citizen-times.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>

<https://www.ldnews.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>

https://www.dailyamerican.com/news/usa_today/hurricane-michael-may-affect-red-tide-and-blue-green-algae/article_de97dbf2-a5a3-5e11-9ff8-31a8258ab5c5.html

<https://www.jsonline.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>

<https://ux.reporternews.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>

<https://www.elpasotimes.com/story/news/nation-now/2018/10/09/hurricane-michael-red-tide-blue-green-algae-effects/1578546002/>

2017 **NBC2** Investigation: Has our water quality improved? <http://www.nbc-2.com/story/34588071/nbc2-investigation-has-our-water-quality-improved>

2016 **NBC2.** Boost in lake flows means new Caloosahatchee concerns. <http://www.nbc-2.com/story/32072627/boost-in-lake-flows-means-new-caloosahatchee-concerns>

2012 The waterfront war: Retention ponds have morphed from storm filters to landscape features. Naples Daily News article 08/10/12.

Oral presentations

Cf. Invited presentations at workshops or symposia of local importance section.

Broadcasted

2019 **Spectrum News 9.** 05/13/2019. Blue-Green Algae Behind Rotten Smell at Sarasota Bay. <https://www.baynews9.com/fl/tampa/news/2019/05/13/blue-green-algae-behind-rotten-smell-at-sarasota-bay>

NBC2. 05/09/2019. 3.5 minutes. Can blue-green algae blooms be predicted? <https://www.nbc-2.com/story/40448396/can-bluegreen-algae-blooms-be-predicted>

Wink News. 2 minutes. 04/16/2019. Blue-green algae creeps back into the Caloosahatchee River. <https://www.winknews.com/2019/04/16/blue-green-algae-creeps-back-into-the-caloosahatchee-river/>

NBC2. 3 minutes. 04/05/2019. Your GPS might stop working on Saturday. Here's why. <https://www.nbc-2.com/clip/14797131/your-gps-might-stop-working-on-saturday-heres-why>

Wink News. 2.75 minutes. 04/08/2019. Sample from Cape Coral canal tests positive for blue-green algae. <https://www.winknews.com/2019/04/08/sample-from-cape-coral-canal-tests-positive-for-blue-green-algae/>

Abc7. 03/27/2019. 2.5 minutes. Device lets troopers deploy GPS trackers onto fleeing cars. <https://www.abc-7.com/story/40207622/device-lets-troopers-deploy-gps-trackers-onto-fleeing-cars>

Wink News. 03/20/2019. 2.5 minutes. Ultrasonic sound buoys could solve SWFL's algae problems. <http://www.winknews.com/2019/03/20/ultrasonic-sound-buoys-could-solve-swfls-algae-problems/>

WGCU radio. 03/05/2019. 31.5 minutes. Exploring the Tiny House Lifestyle. <https://news.wgcu.org/post/exploring-tiny-house-lifestyle>

WGCU radio. 01/08/2019. 40 minutes. The Swamp: Nature Never Surrenders. <http://news.wgcu.org/post/swamp-nature-never-surrenders>

Abc7. 01/28/2019. 3.25 minutes. Fact Check: Are reusable bags actually worth it? <https://www.abc-7.com/story/39865964/fact-check-are-reusable-bags-actually-worth-it>

2018 **Abc7.** 12/07/2019. Cape Coral says no to micro-cottage communities <https://www.abc-7.com/story/39608779/cape-coral-says-no-to-microcottage-communities>

NBC2. 11/23/2019. Local scientist says EAA reservoir needs more treatment areas. <https://www.nbc-2.com/story/39530027/local-scientist-says-eaa-reservoir-needs-more-treatment-areas>

Wink News. 11/07/2018. 2 minutes. More algae spotted near Franklin Lock in Alva. <https://www.winknews.com/2018/11/07/more-algae-spotted-near-franklin-lock-in-alva/>

WLRN radio. 10/09/2018. Hurricane Michael may affect red tide and blue-green algae. Here's how. With a follow up on 10/10/2019.

Wink News. 09/06/2018. US Army Corps of Engineers reduce flows from Lake Okeechobee.

Wink News. 08/25/2018. Third kind of algae found amidst the deadly red tide. <https://www.winknews.com/2018/08/25/third-kind-of-algae-found-amidst-the-deadly-red-tide/>

Wink News. 08/20/2018. What happened to all the bees? Researcher says algae could be the cause. <https://www.winknews.com/2018/08/20/what-happened-to-all-the-bees-researcher-says-algae-could-be-the-cause/>

Wink News. 08/15/2018. Breaking down test results of algae in Lee County <https://www.winknews.com/2018/08/15/breaking-down-test-results-of-algae-in-lee-county/>

Fox4. 06/01/2018. 1.5 minutes. Students research impact of microplastic pollution in Imperial River. <https://www.fox4now.com/news/local-news/students-research-impact-of-microplastic-pollution-in-imperial-river>

Wink News. 05/24/18, 1.5 minutes, FGCU team testing for micro-plastics in SWFL waters <https://www.winknews.com/2018/05/24/fgcu-team-testing-for-micro-plastics-in-swfl-waters/>

2017 Wink News. 11/21/17, 3 minutes (also broadcasted on Wink radio on 11/21 and 11/22). What lurks beneath the waves? Water in the Caloosahatchee is put to the test. <http://www.winknews.com/2017/11/21/lurks-beneath-waves-water-caloosahatchee-put-test/>

2017 Wink News. 08/17/17, 3 minutes. Ingredients for toxic algae bloom exist in SWFL water. <http://www.winknews.com/2017/08/17/ingredients-for-toxic-algae-bloom-exist-in-swfl-water/>

2017 WGPU radio. 06/01/17, 18 minutes. Pond Watchers: Local Efforts for Clean Ponds link to Cleaner Water in SWFL. <http://news.wgcu.org/post/pond-watchers-local-efforts-clean-ponds-link-cleaner-water-swfl>

2016 NBC2 News. 3/21/2016, 3 minutes. Community ponds lakes could be poisoning lee collier waterways. <http://www.nbc-2.com/story/31540963/community-ponds-lakes-could-be-poisoning-lee-collier-waterways#.VvPgPulrKM9>

2015 TEDx FGCU. 03/19/15, 13 ¾ minutes. Ponds of Southwest Florida: Ticking Time Bombs. <https://www.youtube.com/watch?v=Nh67wvxgTtQ>

2011 Collier TV, 10/26/11, 23 minutes. How do retention ponds turn turbid green? Collier TV, 10/26/11, 23 minutes. http://collier.granicus.com/MediaPlayer.php?view_id=4&clip_id=1041

2011 Periphyton of the Everglades. Contribution to the WGPU show "Curious Kids".

Mentorship of secondary education students (Science fair)

2011 Kathie Thorp, Bonita Springs Middle, "Does Copper sulfate affect the algal communities of the retention ponds of Stoney Brook Estero, HOA"

2011 Emmett Coyle, North Naples Middle, "Does ant species selection affect tunneling patterns?". Won 3rd at Collier County Science Fair and 3rd place at Florida State Science Fair.

2010 Emmett Coyle, North Naples Middle, "Impact of various fertilizers on the growth of the common bean *Phaseolus vulgaris*."

2006 Oscar Marti, Felix Varela Senior High School, "Algal isolation from Florida Bay"

Science fair judge

2018 Lee County Thomas A. Edison Regional Science & Inventor's Fair, Fort Myers, FL.

2017 Collier County Regional Science Fair, Naples, FL.

2016 Collier County Regional Science Fair, Naples, FL.

2015 Collier County Regional Science Fair, Naples, FL.

2013 Collier County Regional Science Fair, Naples, FL.

2012 Collier County Regional Science Fair, Naples, FL.

2011 Three Oaks Middle School, Fort Myers, FL.

2011 South Florida Regional Science and Engineering Fair, Miami Dade College, Miami, FL.

2010 Alva Middle School, Alva, Fl.

Weather station

2015-present <https://lee.weatherstem.com/fgcu>, located on FGCU grounds. Implement, maintain and broadcast weather data on the Internet

2013-2014 <http://www.weatherlink.com/user/pelicanlanding/index.php?view=main&headers=1>, located within the development of Pelican Landing, Bonita Springs/Estero and part of the Weatherunderground and METAR networks

2010-2014 www.fgcuweather.info, located on FGCU grounds. Implement, maintain and broadcast weather data on the Internet (Weatherunderground and METAR networks).

05/27/2019