



FAB Mission:

To provide a forum for the exchange of information and training for aquatic biologists and scientists in related disciplines

Peggy Morgan, Editor
Pinellas County Natural Resources
22211 US19 N
Clearwater, FL 33765
mmorgan@pinellascounty.org

Julianne Knight-Gray, Assistant Editor
Florida Fish & Wildlife
100 8th Ave SE
St. Petersburg, FL 33572
Julianne.Knight@MyFWC.com

Volume 29, Issue 1

IN THIS ISSUE

Announcements – Part 1: 2021 Taxonomic Workshops
2021 FAB Annual Meeting
2021 Aquatic and Marine Biology Workshops
President-Elect: Scott Duncan
Conferences of Interest
Literature Citations
Announcements, Part 2: News, Books
Minutes of 2021 Executive Committee and Business Meetings
Addendums to Business Meeting
FAB Financial Reports
Special Election Meeting (Virtual)
Membership and Reminder to Pay Annual Dues

[Like us on Facebook](#)



ANNOUNCEMENTS – PART 1

2021 Annual Meeting

Due to Covid-19, the status of this year's Annual Meeting is currently undetermined. We would like to have an in-person meeting later in the year at Cedar Key, as planned for last year, when it is safer. However, we may be looking at another virtual meeting in the fall. The 2020 virtual meeting was a success, so we will be ready!

STAY TUNED!

2021 Spring Freshwater Taxonomic Workshop

There FAB Executive Committee discussed the possibility of offering the 2021 Spring Workshop in-person or virtually, but decided that would be unlikely, with the current Covid-19 situation and the workshops are intended to be a hands-on experience. We may be able to plan the Freshwater Workshop in tandem with the 2021 Annual Meeting if we are able to meet in person later in the year.

STAY TUNED!

**If we are able to hold an in-person workshop, the
2021 Fall Marine Taxonomic Workshop will be
opisthobranch Gastropods.**

**Dr. Michael Middlebrooks,
Assistant Professor, Biology, University of Tampa**



Michael Middlebrooks is a marine ecologist with an emphasis on photosynthetic kleptoplastic sea slugs. His research is particularly focused on how photosynthetic activity affects the behavior and ecological interactions for motile marine herbivores.

In addition, Tom Dix will present revisions on the Pyramidellids and Turbonillids



President-Elect: Scott Duncan



I was born and raised in Geneva, FL. I graduated from UCF in 2013 with a B.S. in Biology with a focus on invasion and conservation biology. I was hired by Reedy Creek Improvement District in 2013 as an Environmental Technician where I bounced around departments until I landed in the Macroinvertebrate Dept, under the one and only Dana Denson. I am a Macroinvertebrate Biologist III working under Dana as a taxonomist. I currently live in Merritt Island, FL and am married to my beautiful wife Katie of 7 years and we have two stinky boys Rhett (almost 4) and Emmett (9 months). We spend most of our days outdoors or on the water boating, fishing, or diving.

Growing up on the St. Johns River I have been an avid fisherman my entire life. As I began my career with bugs it was an immediate interest due to it being the fundamental building blocks of my favorite past time. I have developed a keen interest in odonates, where I try to spend any extra work hours learning more about them. I have been a member of FAB since 2015 and am really excited for this opportunity to become President Elect to such a great organization. I look forward to meeting and getting to know everyone and hope I can fill the shoes of my predecessors.

WELCOME, SCOTT!!

CONFERENCES AND MEETINGS OF INTEREST

- [Society for Freshwater Science](#) (SFS-aka NABS). May 23-27, 2021, Virtual Meeting
- [International Conference on Marine Biology and Biological Sciences ICMBB](#). April 22-23, 2021, Boston, MA
- [International Conference on Marine Biology and Diversity ICMBD](#). June 15-16, 2021, Toronto, Canada
- [International Conference on Biological Oceanography and Marine Biology ICBOMB](#). August 5-6, 2022, Vancouver, Canada
- [Worldwide Dragonfly Association](#). : August 29- September 3, 2021, Paphos, Cyprus
- [2021 Joint AWRA & National Capital Annual Water Symposium](#). April 15-16, 2021 Virtual Annual Conference
- [Crustacean Society Annual Meeting](#). January 3-7, 2022, Phoenix, AZ
- [Coastal and Estuarine Research Federation](#) (CERF). November 7-11, Richmond, VA
- [Entomological Society of America](#). October 31-November 3. Denver, CO
- [Joint International Conference on Ephemeroptera and Plecoptera](#). July 24-30, 2022, Fort Collins, Co

LITERATURE

Hyperlinks provided for downloads of entire article (if free access) or abstract

- Blake, James A., 2021. [New species and records of Orbiniidae \(Annelida, Polychaeta\) from continental shelf and slope depths of the Western North Atlantic Ocean](#). Zootaxa Vol 4930, No 1
- Boyko, C.B., J.D. Williams, 2020. [A new species of Parthenopea Kossmann, 1874 \(Cirripedia: Rhizocephala: Parthenopeidae\) from Florida: The first record of a rhizocephalan from a lobster \(Decapoda: Nephropoidea\)](#). Proceedings of the Biological Society of Washington 133(1): 1–6
- Brito, J.S., T.S. Michelan & L. Juen, 2021. [Aquatic macrophytes are important substrates for Libellulidae \(Odonata\) larvae and adults](#). Limnology 22: 139–149
- Colin, S.P., et al., 2020. [The role of suction thrust in the metachronal paddles of swimming invertebrates](#). Scientific Reports 10(17790)
- Conlan, K.E., 2020. [New genera for species of Jassa Leach \(Crustacea: Amphipoda\) and their relationship to a revised Ischyrocerini](#). Zootaxa Vol 4921(1)
- Derouen, Z.C., et al., 2020. [Determinants of Tubastraea coccinea invasion and likelihood of further expansion in the northern Gulf of Mexico](#). Marine Biodiversity 50(101)
- Davenport, J.S., C.J. Glasby, & D.J. Karlen, 2020. [Redescription of Neanthes micromma Harper, 1979 \(Annelida: Nereididae\) based on types and additional material from Tampa Bay, Florida, USA, with a discussion of ontogenetic morphological variation](#). Zoosymposia 19: 135–150

- DelVecchia, A., J. Stanford, & X. Xu, 2016. [Ancient and methane-derived carbon subsidizes contemporary food webs](#). *Nature Communications* 7(13163)
- De Oliveira, Verônica Maria, W.F. Magalhães, P. Da Cunha Lana, 2020. [Ten new species of Phyllodoce Lamarck, 1818 \(Phyllodocidae, Annelida\)](#). *Zootaxa* 4924(1)
- Dontis, E.E., et al., 2020. [Carbon storage increases with site age as created salt marshes transition to mangrove forests in Tampa Bay, Florida \(USA\)](#). *Estuaries and Coasts* 43: 1470–1488
- Felder, D.L., E. Palacios Theil, 2020. [A new pinnotherid crab of the genus *Pinnixulala* Palacios Theil, Cuesta & Felder, 2016 from uncertain infaunal hosts in the northern Gulf of Mexico, with a rediagnosis and updated synonymy for the polychaete symbiont *Pinnixulala retinens* \(Rathbun, 1918\) \(Decapoda: Brachyura: Pinnotheridae\)](#). *Journal of Crustacean Biology* 40(6):887–898
- Felder, D.L., E. Palacios Theil, 2020. [Three new symbiotic crabs of the genus *Glassella* Campos & Wicksten, 1997 from Atlantic and Gulf of Mexico coasts of Florida, USA \(Decapoda: Brachyura: Pinnotheridae\)](#). *Journal of Crustacean Biology* 40(6): 899–917
- Felder, Darryl L. & R. Lemaitre, 2020. [A new species of the hermit crab genus *Cancellus* H. Milne Edwards, 1836 from a mesophotic deep bank in the northwestern Gulf of Mexico \(Crustacea: Decapoda: Diogenidae\)](#). *Zootaxa* 4890(4)
- Gentilin-Avanci, et al. 2021. [The invasive macrophyte *Hydrilla verticillata* causes taxonomic and functional homogenization of associated Chironomidae community](#). *Limnology* 22: 129–138
- Funk, D.H., B.W. Sweeney, J.K. Jackson, 2021. [Oxygen limitation fails to explain upper chronic thermal limits and the temperature size rule in mayflies](#). *Journal of Experimental Biology* 224
- Grischenko, A.V., D.P. Gordon, V.P. Melnik, 2020. [Pandaniopora fragilis—a new deep-water cyclostome bryozoan from the subequatorial Mid-Atlantic Ridge, Atlantic Ocean, and a review of Pandaniopora worldwide](#). *Zootaxa* 4895(4)
- Grogan, Jr., W.L., 2020. [A revision of the nearctic predaceous midges in the *Bezzia* \(*Bezzia*\) *pulverea* complex \(Diptera: Ceratopogonidae\)](#). *Zootaxa* 4877(3)
- Hilliard J., Karlen D., Dix T., Markham S., Schulze A., 2020. [Comparative species abundance modeling of Capitellidae \(Annelida\) in Tampa Bay, Florida, USA](#). *Marine Ecology Progress Series* 653: 105–119
- Jilbert, T., et al., 2020. [Preface: Restoration of eutrophic lakes: current practices and future challenges](#). *Hydrobiologia* 847: 4343–4357
- Löcken, H., O.W. Fischer, J. Selz, M. Boppré, 2020. [Drone-Netting’ for sampling live insects](#). *Journal of Insect Science* 20(5)
- Lörz, Anne-Nina, S. Brix, A.M. Jazdzewska, L.E. Hughes, 2020. [Revision of Chaetacanthus Seidler, 1922 \(Annelida, Phyllodocida, Polynoidae\)](#). *Zoological Journal of the Linnean Society* 190(4): 1095–1122
- Malison, R.L., et al., 2020. [Remarkable anoxia tolerance by stoneflies from a floodplain aquifer](#). *Ecology* 101(10)
- Martin, C.W., et al., 2021. [Diel variability and influence of artificial light on fish and macroinvertebrate communities in Gulf of Mexico seagrass beds](#). *Estuaries and Coasts* 44: 431–441
- Orfinger, A.B., 2020. [Diversity beyond insects in Entomology and allied disciplines](#). *Journal of Insect Science* 20(5)
- Orfinger A.B., & D.A. Etnier, 2020. [Polycentropus dinkinsorum \(Trichoptera: Polycentropodidae\), a newly described caddisfly species from the southern Appalachian Mountains, USA](#). *Zootaxa* 4853(1)
- Ribeiro, P., et al., 2020. [Pilargidae \(Annelida: Phyllodocida\) from coastal and deep waters of the Southwestern Atlantic, with descriptions of two new species](#). *Zootaxa* 4878(1)
- Stachowiak, C., et al., 2021. [Influence of competition and predation on survival of the hydrilla tip mining midge and its success as a potential augmentative biological control agent of hydrilla](#). *Hydrobiologia* 848: 581–591
- Vader, W., A. Helene, S. Tandberg, 2020. [Amphipods and sea anemones, an update](#). *Journal of Crustacean Biology* 40(6)

ANNOUNCEMENTS – PART 2



[ESA Position Statement on the Importance of Entomological Collections](#)



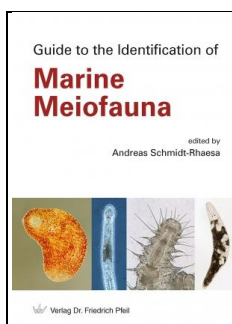
[Stenacron Mayflies 2020 Mack A Beacon Larvae and Adults](#)



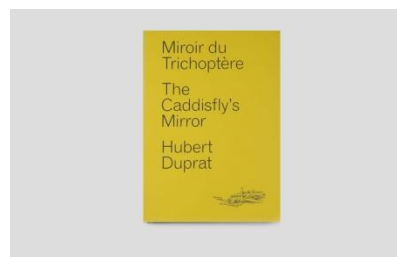
[13th International Polychaete Conference](#)
Free access presentations



[Conchology, or, The natural history of shells](#)
Read more here: [George Perry](#)



[Guide to the Identification of Marine Meiofauna](#)



[Hubert Duprat | The Caddisfly's Mirror](#)



[Trichoptera Nearctica - Caddisflies of The United States and Canada](#)
Andy Rasmussen, Florida A&M University



**Minutes of the Executive Committee Meeting of the Florida Association of Aquatic Biologists
34th Annual Meeting
Google Meet Virtual Meeting
December 1, 2020**

Doug Strom presiding

Attendees: Robert Mattson, Dave Karlen, Palmer Kinser, Jennifer Davenport, Mark Wetzel, Doug Strom, Peggy Morgan, Shannon McMorrow, Alex Orfinger, Andy Rasmussen, Julianne Knight-Gray, Wayne Price

Approval of the Minutes: Rob presented the motion to approve the EC minutes from August 2020 and Alex seconded. These minutes were not published in the Newsletter and will be included in the next one, January or February 2021. All minutes are published in the FAB newsletter.

Committee Reports:

Treasury (Finance and Endowment): Rob Mattson, Chair.

- Rob provided summary reports for the 2019 and 2020 and Endowment Fund and bank accounts.
- Balance in the Endowment Fund is \$47,912.28 as of the end of November 2020. Checking account balance is currently \$12,316.10 as of end of October 2020.
- Cedar Key offered to put the down payment FAB provided for the intended Spring Workshop toward next year. Rob and Shannon will get with them to determine what course to take. It is expected we would not be able to host an in-person Spring Workshop in 2021.
- Rob and Jennifer will work on getting Jen authorized as signature for our financial accounts as a second for him should he not be available.
- Rob proposed that it is time for a periodic audit of our checking and endowment accounts. Rob and Jennifer will work on finding an appropriate entity.

Nominating and Awards: The EC is deliberating nominees for:

- Contributions to Florida Aquatic Biology
- Contributions to FAB

Please send suggestions for deserving biologists to Rob or any other member of the awards committee.
rmattson@sjrwmd.com

Bylaws: Doug Strom for Chair, Marc Minno. The Bylaws Committee proposes making the term of the new FAB officers as beginning in the calendar year. Doug suggested the following wording: The term of office for elected officials shall begin January 1 of the following year in which the election was held. The Committee will discuss via email and return a recommendation to the EC for adoption. The need for changes to the wording in ARTICLE VI. ELECTIONS was also discussed, and the Committee will deliberate via email and report back to the EC.

Editorial: Chair, Peggy Morgan. Next newsletter to be published in January or February 2021. Please send literature, news items and other announcements to Peggy. mmorgan@pinellascounty.org

Internet Committee Jennifer Davenport, Chair. No news to report. Everyone is happy with the new website. Please continue to send invertebrate photos to Dana Denson.



Membership: Jennifer Davenport, Chair. Carrie Goethel has provided Jennifer new membership software and Jennifer is evaluating it. Alex and Wayne have both comprised lists of academic contacts in Florida. They will work together to get information about FAB to students and educators.

Workshop and Certification: Chair, Shannon McMorrow. It was not possible to hold the 2020 Taxonomy Workshops for obvious reasons. The Fall Marine Workshop is hoping to go on as planned in October or November of 2021 at the University of Tampa Marine Lab. Dr Michael Middlebrooks will be presenting on opisthobranch Gastropods. There was discussion on the possibility of offering the 2021 Spring Workshop and it was determined to be unlikely. Possibility of a virtual workshop was rejected, as the workshops are intended to be a hands-on experience. Shannon suggested we may be able to plan the Freshwater Workshop in tandem with the 2021 Annual Meeting. Decisions will be made once we can assess the Covid19 situation in August or September 2021.

New Business:

- We currently have no candidates for a President-Elect who will assume the office of President in 2022. We need to find a nominee and have the membership vote electronically as soon as possible. Please send suggestions as soon as possible to Shannon and/or Rob.
- Election of officers will take place at the 2021 Annual Meeting. Rob and Peggy have agreed to continue in their respective offices (Finance and Endowment, Secretary) but we need candidates for President and President-Elect (to take office in 2024). Please send suggestions of deserving nominees to Shannon and/or Rob. Shannon will also send an email blast to membership and the call will also go out in the next Newsletter.
- The EC voted to present to the membership at the Business Meeting a proposal to increase membership dues by \$5 from \$30 to \$35 in order to cover credit card fees. The fee change will go into effect in the calendar year of 2022.

Rob motioned to adjourn, seconded by Alex at 1053.

Submitted 12/18/2020, Peggy Morgan, Secretary

=====

Virtual FAB Business Meeting

December 2, 2020

President Shannon McMorrow presiding

Approval of the Minutes: Minutes of the 2019 business meeting were presented. Andy Rasmussen moved to approve and Rob Mattson seconded the motion. A vote was taken and the minutes were approved.

Committees Reports:

Nominating and Awards: Rob Mattson

The EC is deliberating nominees for:

- Contributions to Florida Aquatic Biology
- Contributions to FAB

Please send suggestions for deserving biologists to Shannon or any other member of the awards committee.



Treasury and Endowment: Rob Mattson, Chair.

Rob provided summary reports for the 2019 and 2020 and Endowment Fund and bank accounts. Balance in the Endowment Fund is \$47,912.28 as of the end of November 2020. Checking account balance is currently \$12,316.10 as of end of October 2020.

Earned income and interest from the Endowment Fund were used to fund the student awards.

Membership: Jennifer Davenport, Chair. Jennifer has the membership data base developed by Carrie Goethel and will work on transferring membership data next year. We currently have 32 dues paying members and a number of life-time members and a couple of honorary memberships. There are 279 people on the mailing list plus contacts at various Florida universities (43). If anyone knows of people interested in becoming members, please direct them to Jennifer.

Internet Committee: Jennifer Davenport, Chair. No updates. Please let Jennifer know of any problems you have using the website.

Bylaws: Shannon McMorro for Marc Minno (Chair). There are two proposed changes to Elections Article VI:

- President serves calendar year
- Add electronic ballot capability

Rob motioned to accept these changes. Mark Wetzel added a minor edit involving proper pronoun. Dave seconded. Vote passed

Editorial: Chair, Peggy Morgan. Next newsletter to be published in January, early February. Please send literature, news items and other announcements to Peggy.

Workshop and Certification: Shannon McMorro The 2020 workshops will be moved to next year. The Freshwater Workshop will be on Cave Biodiversity and Freshwater Amphipods. Typically held in the spring, it is unclear if it will be feasible to have it next year. We are hoping that the Marine Workshop, given in the fall, will proceed as planned. Michael Middlebrooks presenting Opisthobranch Gastropods (primarily nudibranchs)

New Business: A motion was made **to increase membership dues by \$5 from \$30 to \$35 in order to cover credit card fees. The motion was seconded. The membership fee change will go into effect in the 2022 calendar year.**

Rob motioned to adjourn, seconded by Dave Karlen
Adjourned at 1401
Submitted 12/18/2020, Peggy Morgan, Secretary

Addendums to Business Meeting

On December 8, 2020, Doug Strom sent the revised 2020 FAB Constitution & Bylaws regarding election of officers, reviewed and formatting by Marc Minno. It now reads as follows:



ARTICLE VI. ELECTIONS

Section 1. The Immediate Past President, who shall serve as Chair, and at least two other members appointed by the Chair, shall form a Nominating Committee and nominate three candidates (if available) for each elective office to be filled for the ensuing year. The unexpired term of President-Elect, Secretary, or Treasurer, vacated because of incapacitation, death, or resignation, shall be filled by a majority vote of members responding within 30 days to a special mail or electronic ballot. In emergency situations, interim appointments can be made by the Executive Committee.

Section 2. The President shall be elected for the term of two years and shall not be eligible to succeed him/herself. The Secretary and Treasurer shall also be elected for two-year terms but shall be eligible for re-election indefinitely. For each office, the nominee receiving the highest number of votes shall be elected. The term of office for elected officials shall begin January 1 of the following year in which the election was held.

Special Election Meeting (Virtual)

December 4, 2020. Doug Strom called a virtual EC meeting to vote on accepting Scott Duncan as FAB President-Elect, to serve in that capacity until the end of 2021, becoming President for 2022-2023.

- Dana Denson made a motion to vote
- David Karlen seconded the motion

The motion was passed on December 4, 2020.

December 7, 2020. Shannon called a virtual FAB business meeting to Order to vote on accepting Scott Duncan as FAB President-Elect, to serve in that capacity until the end of 2021, becoming President for 2022-2023.

- David Karlen made the motion to proceed
- Doug Strom seconded the motion

December 8, 2020. Shannon sent out a voting form to the FAB membership to vote on the motion.

December 14, 2020. The vote is completed and ballots tallied. The motion carried. Scott Duncan as FAB President-Elect, to serve in that capacity until the end of 2021, becoming President for 2022-2023.

Congratulations, Scott!



Final Treasurer's Report – 2019

Submitted by Robert A. Mattson

2019 August Workshop

Income (registrations, memberships, merchandise, donations)	\$2,242.00
Expenses (Snacks/drinks, instructor expenses/honorarium, credit card fees).....	\$1,376.68
Net income	\$865.32

2019 November Workshop

Income (registrations, memberships, merchandise, donations)	\$2,097.00
Expenses (Snacks/drinks, instructor expenses/honorarium, credit card fees).....	\$1,114.77
Net income	\$982.23

Finances

Checking Account – as of December 31, 2019

- Beginning Balance January 1, 2019..... \$9,805.18
- Ending Balance December 31, 2019..... \$13,269.09
- Total Deposits/Credits: \$7,197.42
2019 Dues, Workshop & Meeting income, merchandise sales and donations
- Total Withdrawals/Debits: \$3,733.51
Workshop, Meeting & general expenses, web site fees

Endowment Fund – 2019 Summary

- Balance as of December 31, 2018..... \$32,552.54
- Balance as of December 31, 2019..... \$39,943.14

Moving Forward:

- We probably want to get a second person authorized to sign checks, access the account, etc. just in case I'm incapacitated.

To-Do:

- Still need to get independent audit?

Final Treasurer's Report – 2020

Submitted by Robert A. Mattson

2020 Spring Workshop

NO WORKSHOP HELD IN 2020.....\$0.00

2020 Fall Workshop

NO WORKSHOP HELD IN 2020.....\$0.00

Finances

Checking Account – as of December 31, 2020

- Beginning Balance January 1, 2020..... \$13,269.09
- Ending Balance December 31, 2020..... \$12,346.74



- Total Deposits/Credits:\$983.46
2020 Dues, Workshop & Meeting income, merchandise sales and donations
- Total Withdrawals/Debits:\$1,905.81
Workshop, Meeting & general expenses, web site fees

Endowment Fund – 2020 Summary

- Balance as of December 31, 2019.....\$39,943.14
- Balance as of December 31, 2020.....\$49,607.28

Moving Forward:

- We should request a refund of the check to Cedar Key to rent their facility earlier this year
- We probably want to get a second person authorized to sign checks, access the account, etc. just in case I'm incapacitated.

To-Do:

- Still need to get independent audit?

Membership

If you would like to become a member of the Florida Association of Aquatic Biologists (FAB), membership is only \$30.00 and due February 15th of each year. Your membership is for one year: Jan 1– Dec 31. Click [here](#) to become a member today! Once registered, you will receive email confirmation of your purchase. If you would like to pay your dues and register for a workshop, you may add them to your cart and they will be displayed as separate items on the receipt for easy bookkeeping. We accept major credit cards, or you may send your check, payable to FAB to:

Rob Mattson, Treasurer
121 Palm Trail
East Palatka, FL 32131

REMINDER!!

CURRENT MEMBERS ANNUAL DUES!
Click to renew: [Membersip Fees Due in February!](#)



"Yeah, yeah, buddy, I've heard it all before: You've just metamorphosed and you've got 24 hours to find a mate and breed before you die. ... Well, get lost!"

The End

