



FAB Mission:

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

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ANNOUNCEMENTS – PART 1

TAXONOMIC WORKSHOPS

**Summer Taxonomic Workshop
August 14 – 16, 2019**

Taxonomy and Ecology of North American Dragonfly Nymphs



Presented by
Kenneth J. Tennessen, PhD



**University of Florida, Department of Entomology and Nematology
1881 Natural Area Drive, Bldg. 970
Gainesville, FL 32611**

We are very excited about the upcoming odonate workshop at the UF Department of Entomology and Nematology (where we have met before), which is being led by Dr. Ken Tennessen, one of the foremost odonate authorities in North America! Ken will be giving an overview of the biology of dragonflies, and then will discuss taxonomy of the nymphs. There will be ample time for lab work to look at specimens and get verifications. At least one field trip to a local area is also planned. Ken will also be introducing his recently-released book **Dragonfly Nymphs of North America: An Identification Guide** (2019). Be sure to make plans now to be a part of this great workshop. Due to the size of the teaching lab where we will be meeting, **workshop attendance is limited to thirty (30) persons**, so be sure to register today via the website at www.floridaaquaticbiologists.org/.





Dates/times: The workshop will begin at 1:00 PM on Wednesday, August 14, and conclude around lunchtime on Friday, August 16, 2019.

Location: As with many of our recent freshwater workshops, this one will be held at the excellent teaching laboratory of the University of Florida Department of Entomology and Nematology (Charles Steinmetz Hall) on the UF campus in Gainesville. The address is shown above. When attending the workshop, be sure to park to the **right** of the entrance drive, or behind the building. If you park to the left of the main entrance, you will be ticketed.

Workshop cost: \$70 for FAB members, \$125 for non-members, and \$45 for students

Lodging: A block of 20 rooms has been reserved at the Hampton Inn at 4225 SW 40th Blvd., Gainesville, FL 32608 (www.gainesville.HamptonInn.com). SW 40th Blvd. is the first road to the right just off I-75 at Archer Road. Rooms are available with two queen beds or one king bed, all non-smoking. A full breakfast is included. The discounted price is \$99 per night. There is a 14-day cancellation policy. **The block of rooms will be held until July 14th**, but those making reservations after that point might be able to get the discounted FAB rate, pending availability. *Making reservations as soon as possible is recommended.* To make your reservations, please follow this link: [Hilton](#)

Other workshop information:

- Student-quality dissecting microscopes are available at the teaching lab. Participants may bring their own scopes, if desired. Be sure to bring specimens for identification or verification.
- There will be one or more field experiences offered as a part of the workshop, so be sure to bring any needed field clothes and gear, including sunscreen and insect repellent.
- Bring any odonate identification and ecology books you might use during the workshop.
- If you wish to purchase Ken's book beforehand, you can read more about it and get it through Amazon at <https://www.amazon.com/Dragonfly-Nymphs-North-America-Identification/dp/331997775X>.
- Snacks will be provided during the workshop and at breaks.
- Restaurants are abundant in the vicinity of Archer Road. A social at a local venue will probably be organized for one night, and announced at the workshop.

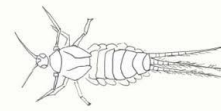
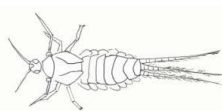
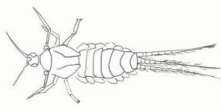
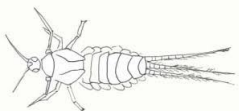


If you have any questions, please contact FAB President Dana Denson at ddenson@rcid.org or president@floridaaquaticbiologists.org. Hope to see you there!

MARINE TAXONOMIC WORKSHOP



The Marine Workshop this year will feature Jose Leal from the Bailey Matthews National Shell Museum presenting on Marine Gastropods. It will be held most likely in November at the University of Tampa Marine Station in Tampa. Exact dates to come soon.



33rd FAB Annual Meeting

May 28-30

Apalachicola National Research Reserve, Eastpoint, FL

The meeting was held in Eastpoint, Florida, at the Apalachicola National Estuarine Research Reserve, May 28 through May 30. The officers and membership of FAB would like to express our sincere appreciation to the Apalachicola National Estuarine Research Reserve in for hosting the FAB annual meeting. The venue was excellent, and the cooperation and hospitality of the staff was tremendous. A special thank you is due to Jennifer Harper for coordinating with us to reserve the meeting space and provide coffee, easels for poster display, etc., and for arranging the boat tour, as well as to Jason Garwood for presenting an excellent overview of the work being carried out at ANERR at the beginning of our meeting. We hope to have the opportunity to work with this great group of folks again in the future. *Thank you very much!*

The agenda and presentation abstracts can be found here. [2019 Annual Meeting Agenda](#)



2019 FAB Student Award Presentations

FAB offers cash awards for student talks; one oral graduate level, one oral undergraduate level, and one poster award (graduate or undergraduate). There were four student presentations at the Annual Meeting in May, 2019. Two were oral presentations and two were posters. Three of the students were undergraduate and one was graduate.

Best Oral Presentation given by a Graduate Student

Alex Orfinger, Florida A&M University/University of Florida, Tallahassee, FL

Systematics of the Eastern North American *Polycentropus* sensu stricto (Trichoptera: Polycentropodidae): A Proposal





Best Oral Presentation given by an Undergraduate Student

Samantha Stewart, University of Tampa, Tampa, FL

Impact of Salinity on the Diversity of Epifauna on the Seawhip *Leptogorgia virgulata* in Tampa Bay, FL





Best Poster Presentation

Kassandra Weeks and Ryan Tharp

Stomach Content Analysis of *Cichlasoma urophthalmus* (Mayan Cichlid) in the Tampa Bay Watershed.



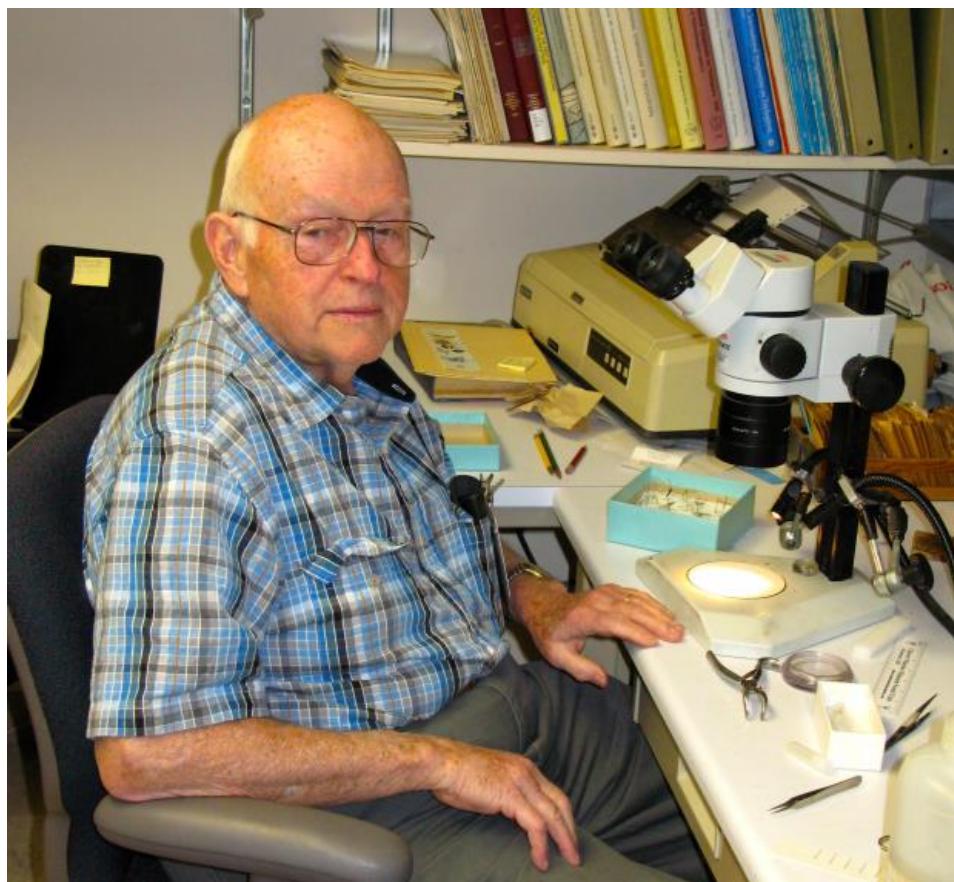
Congratulations to all the student presenters! FAB hopes it was a valuable experience for you and hope you continue with our group!

In Memorium – Oliver “Ollie” Flint, Jr.

Emeritus Curator of Neuropteroids, Department of Entomology, Smithsonian Natural History Museum. Excerpted from the obituary published on the [Smithsonian website](#)

During his long career in the museum, Dr. Flint curated a number of aquatic insect orders including Trichoptera (caddisflies), Megaloptera (fishflies), Ephemeroptera (mayflies), Plecoptera (stoneflies), and Odonata (dragonflies) as well as Neuroptera (lacewings), Mecoptera (scorpionflies), and Raphidioptera (snakeflies) – a collection of more than 12,000 species and almost 400,000 specimens.

Dr. Flint authored more than 230 papers and books on aquatic insects. This remarkable scientific output spanned almost 70 years; his first paper was in 1951 and publications are in press. The



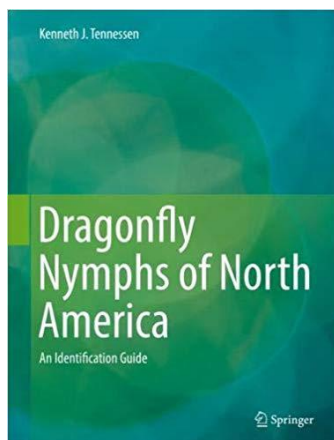
majority of his research output focused on the systematics of Neotropical caddisflies, a group for which he was a world-recognized authority. Ollie described more than 1,200 species, 21 genera, and one family of caddisflies during his career.

Throughout his career, Dr. Flint held key positions and received significant honors from organizations including the Entomological Society of America, the North American

Benthological Society, and the Virginia Museum of Natural History Foundation. Ollie was honored for his expertise in caddisflies at the 12th International Symposium on Trichoptera in 2006 in Mexico City. Three genera and more than 60 species from six insect orders have been named in Ollie's honor to recognize his extensive contributions to the field.

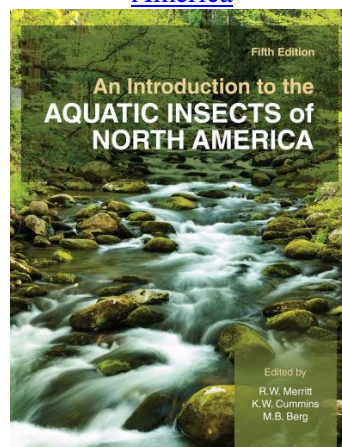
ANNOUNCEMENTS – Part 2

[Dragonfly Nymphs of North America: An Identification Guide](#) \$215.98 on Amazon



This monograph is the first of its kind devoted entirely to the dragonfly nymphs of North America north of Mexico, the focus being accurate identification of the 330 species of Anisoptera that occur in the region.

[An Introduction to the Aquatic Insects of North America](#)

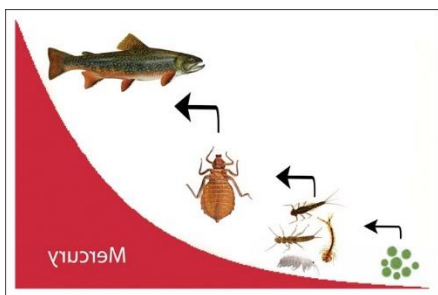


An Introduction to the Aquatic Insects of North America serves as a standard guide on the immature and adult stages of aquatic and semiaquatic insects of North America.
Available in print this month



Peggy Morgan is awarded the Society for Freshwater Science Resolution of Appreciation

At their Annual Business Meeting in May, 2019, the Society for Freshwater Science (SFS) bestowed a Resolution of Appreciation to recognize Peggy's contributions to the Society. Peggy was the SFS Student Award Coordinator from 1994 to 2018. In 2005, SFS awarded Peggy their Distinguished Service Award for the coordination of the Student Awards Program. This Resolution of Appreciation offers additional gratitude to Peggy as she retires and makes way for a new, more technical coordination of the SFS Student Awards Program and judging process.



[Dragonfly Mercury Project](#)

Mercury can enter the food chain, increasing in concentration for higher level predators. The Dragonfly Mercury Project engages citizen scientists to collect juvenile dragonflies in national parks.



[Developing Methods to Detect Toxicity in Water using Mayflies and Mussels](#)

Development of short-term toxicity test methods to estimate chronic toxicity using the freshwater parthenogenic mayfly, *Neocloeon triangulifer*

Graduate Research

Exciting Research and Professional Development Opportunity
Apalachicola National Estuarine Research Reserve's

Margaret A. Davidson Graduate Fellowship



This two-year fellowship at the Florida Department of Environmental Protection's Apalachicola National Estuarine Research Reserve will focus on field research within one of the nation's most diverse estuaries. You will work with a mentor, fellow scientists and the local community to help address coastal challenges within the Apalachicola River Basin. The fellowship includes networking opportunities and career-readiness training.

- Margaret A. Davidson Graduate Fellowship: coast.noaa.gov/nerrs/research/davidson-fellowship.html
- Point of Contact at Reserve: Jason Garwood, Research Coordinator, Jason.Garwood@FloridaDEP.gov, (850) 670-7705.



An exciting new fellowship program for graduate students at the national estuarine research reserves. One two-year fellowship opportunity will be available at each of the 29 coastal sites.

<https://coast.noaa.gov/nerrs/research/davidson-fellowship.html>

CONFERENCES AND MEETINGS OF INTEREST

- [Society for Freshwater Science](#) (SFS-aka NABS) 2020 Annual Meeting, Madison, WI, Date TBA, but usually the end of May
- [The 49th Benthic Ecology Meeting](#) April 7-11, 2020. Wilmington, North Carolina
- [Ocean Sciences Meeting 2020](#). February 16-21, 2020, San Diego, CA
- [The 2019 International Congress of Odonatology](#) Austin, Texas, July 14-19, 2019
- [Florida Floodplain Managers Association](#). Orlando, FL, April 7-10, 2020
- [American Water Resources Association](#). Key West, August 1 – 2, 2019.
- [2020 Annual Crustacean Society Meeting](#). January 3-7, Austin, TX
- [13th International Conference on Oceanography & Marine Biology](#), London, United Kingdom, 26 September 2019 to 27 September 2019
- [4th International Conference on Aquaculture & Marine Biology](#) Phuket, Thailand, February 19-20, 2020
- [Benthic Ecology Meeting \(BEM\) 2020](#) April 1-11. Wilmington, NC
- [13th International Polychaete Conference, IPC 13](#), August 4-9, 2019, Long Beach, CA
- [FLMS 30th Annual Technical Symposium](#), August 27-30, 2019. Hawks Cay Resort, Duck Key, Florida
- [Entomological Society of America](#) 2020. Orlando, FL. November 15-18.
- [102nd annual meeting of the Florida Entomological Society](#) Jupiter, FL, July 21–24 2019.

LITERATURE

Hyperlinks provided for downloads of entire article (if free access) or abstracts (if not free)

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Executive Committee Meeting of the Florida Association of Aquatic Biologists
33rd Annual Meeting
Apalachicola National Estuarine Research Reserve
Eastpoint, Florida
May 28, 2019

Doug Strom: Consultant Representative and EC Chair; Dana Denson: Acting President; Rob Mattson, Treasurer; Peggy Morgan: Secretary, Newsletter Editor, Literature Review Committee Chair; Jennifer Davenport (via phone): Endowment Committee Chair, Acting Internet Committee Chair; Dr. Wayne Price: University Representative; Julianne Knight-Gray (via phone): Awards Committee Chair, Membership Committee; Shannon McMorow: Incoming President; Andy Rasmussen, Member At Large; Alex Orfinger, Student Representative

Call to Order: Doug Strom. The meeting was called to order at 0830. Nine members establish a quorum.

Approval of the Minutes: Minutes of the last annual meeting have been pre-approved via email.

Committees Reports:

Awards: Julianne Knight-Gray. There are currently no nominees for the present meeting. Please send suggestions to the Awards Committee to Julianne or Rob for the two FAB awards:

- Contributions to Florida Aquatic Biology
- Contributions to FAB

Bylaws: Marc Minno is not present. Doug Strom reported all changes to the constitution regarding the FAB name change were completed in 2018 and there are no further changes at this time.

Editorial: Peggy Morgan. Next newsletter this summer prior to the workshops. Please send literature, news items and other announcements to Peggy. mmorgan@pinellascounty.org

Finance and Endowment Fund. Rob Mattson. Rob distributed the endowment report prepared by Jennifer Davenport, which shows a value of around \$36,000 as of the end of March, 2019. He also distributed the Treasurer's Report which details financial information through December 31, 2018, although it does not include the proceeds from the fall workshop. Current balance is \$10,956.13 as mid-May, 2019.

There was a fee when we transferred the endowment to Nordmann Wealth Management.

Internet: Jennifer Davenport. The new website is up and running, and continues to be updated. Please let Jennifer know if you have any problems with it. Job postings and old newsletters have been posted. Registration can now be paid online using a credit card. Jennifer plans to work on adding Executive Committee information and historical information in the coming year. Dana will be uploading more photos to the Shutterfly gallery. If you have verified photographs, please send them to Dana.

Membership: Jennifer Davenport: Carrie is working on a beta version for a membership database. She had a baby last year and that understandably slowed her progress. Jennifer will be



getting an update from her. Rob reports that as he gets new members, he is entering them in a spreadsheet, but has not entered them into the old Access database. We will either use the old database, or the new one that Carrie is developing.

Nominating: Rob Mattson: No report. This year is an off year, so officer nominations are not needed.

Workshops: Dana Denson. Taxonomy and Ecology of North American Dragonfly Nymphs, August 14- 16 at the UF Department of Entomology and Nematology in Gainesville. Dana and Shannon will be preparing the Workshop announcement for the website and Facebook, as well as other means of advertisement. Dave Karlen is currently working on the fall Marine Workshop. There was discussion on the need for an EC meeting at the Marine Workshop. It is not required.

Registered Agent: David Evans not present.

Unfinished Business/New Business: The Vision Committee was formed in 2017 to address the future of FAB. The major goals of the Visioning Committee have been achieved: Changing the name of FAB from Florida Association of Benthologists to Florida Association of Aquatic Biologists, changing administration of the website, updating the website, more regular activity on the FAB Facebook page. Still pending is the consolidation of one of the workshops with the Annual Meeting. Reconvening of the Vision Committee was discussed. Julianne will contact the members and set up another meeting if there is a need. The President has the prerogative to schedule the timings of the meetings and workshops during their tenure. Shannon has no firm plans, but is considering the usual schedule with the Annual Meeting in Cedar Key. There was discussion on getting more university involvement and more student involvement in FAB. Alex Orfinger offered to present FAB at University of Florida Graduate Student Council, as well as disseminate information to various graduate student groups and young professionals throughout Florida.

Until the Vision Committee presents a definite proposal, FAB will continue having the Spring Workshop in the spring and the Marine Workshop and Annual Meeting in the fall.

There was discussion about expanding the address list for the email blasts. The list is not restricted to members.

We have endowment money available for student travel, but no one applied this year. There was discussion about promoting this opportunity for students in future.

There was discussion about outreach to other organizations to promote involvement in FAB. Now that we have expanded into more general aquatic biology, there is ample opportunity for including more areas of academic and applied aquatic biology. It was suggested that we reach out to organizations and colleges in the communities where we are holding future meetings.

Adjourn: Doug Strom, 1037

Submitted by Peggy Morgan, FAB Secretary, June 28, 2019



Business Meeting of the Florida Association of Aquatic Biologists 33rd Annual Meeting
Apalachicola National Estuarine Research Reserve
Eastpoint, Florida. May 29, 2019
Dana Denson, Interim President presiding

Approval of the Minutes: Minutes of the last annual and business meetings have been pre-approved via email by the Executive Committee. Any questions see Dana or Doug. All minutes are published in the FAB newsletter.

Committees Reports:

Awards: The EC is deliberating nominees for:

- Contributions to Florida Aquatic Biology
- Contributions to FAB

Because the last annual meeting was in the fall of 2018, new awards will not be presented until the next meeting. Please send suggestions for deserving biologists to Julianne or any other member of the awards committee.

Bylaws: Chair, Marc Minno, is not present. Doug Strom reported all changes to the constitution regarding the FAB name change have been completed.

Editorial: Chair, Peggy Morgan. Next newsletter to be published in July, prior to the Dragonfly Workshop. Please send literature, news items and other announcements to Peggy.

Finance: Rob Mattson for Jennifer Davenport, Chair. Earned income and interest from the Endowment Fund were used to fund the student awards. Balance in the Endowment Fund is \$36,169.10 as of the end of March, 2019. Checking account balance is currently \$10,956.13. Rob provided summary reports for the Endowment Fund (prepared by Jennifer Davenport) and the bank account.

Membership: Rob Mattson for Jennifer Davenport, Chair. No membership updates. We currently have about 30 dues paying members and a number of life-time members and a couple of honorary memberships.

Internet Committee: Dana Denson for Jennifer Davenport, Chair. The website is being updated. All appropriate changes in regards to the FAB name change have been completed. Registrations can now be paid on line with a credit card.

Nominating: Chair, Rob Mattson. Nothing to report at this time.

Workshop and Certification: Chair, Dana Denson. The Freshwater Taxonomy Workshop will be held August 14 – 16, 2019: **Taxonomy and Ecology of the Dragonfly Larvae of North America**, led by Dr. Ken Tennessen. Dr. Tennessen recently published Dragonfly Nymphs of North America: An Identification Guide. The workshop will be held at UF Department of Entomology and Nematology in Gainesville.

New Business: Incoming President, Shannon McMorow. There are no firm plans yet for the location of next year's annual meeting but Shannon is considering the UF Biological Station in Cedar Key. If anyone has other ideas and/or suggestions, please let Shannon know.

Dana motioned to adjourn, seconded by Doug Strom

GROUP PHOTO, 2019 ANNUAL MEETING, EASTPOINT, FL





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!!

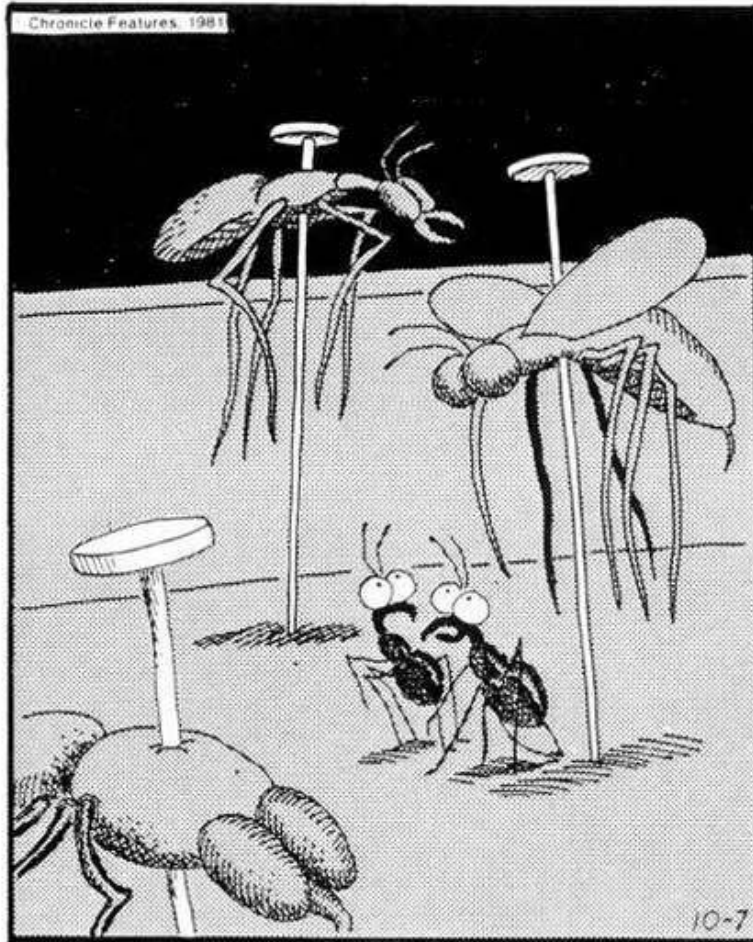
CURRENT MEMBERS ANNUAL DUES!

Click to renew: [Membersip Fees Due in February!](#)

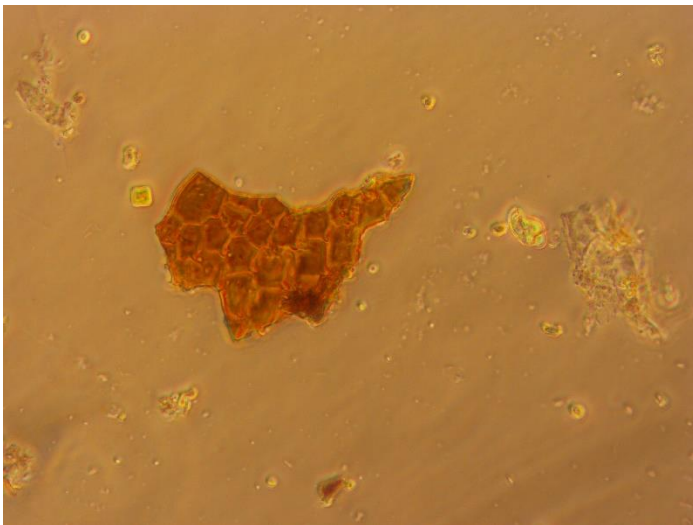


THE FAR SIDE

By GARY LARSON



"Gad, I hate walking through this place at night."



The sample was loaded with dirt and debris, and the United States of Detritus!