

SAFIT

SOUTHWEST ASSOCIATION OF FRESHWATER INVERTEBRATE TAXONOMISTS

Dear new SAFIT member,

Welcome to the Southwest Association of Freshwater Invertebrate Taxonomists (SAFIT). SAFIT members are scientists and citizen volunteers working in a collaborative way to standardize the taxonomy of inland freshwater invertebrates in the southwest United States. Our mission is to promote the standardized taxonomy of inland freshwater invertebrates in support of biotic assessments of aquatic ecosystems in the southwestern region.

Until the SAFIT website is fully functional we will send you periodic emails, like this one, announcing upcoming workshops and meetings and to provide you with the titles of relevant taxonomic literature and other news from the world of freshwater invertebrate taxonomy.

We would like to hear from you directly. Please feel free to contact us with any ideas or requests for workshops you would like SAFIT to conduct in the future or to pass on information you would like to share with other taxonomists in our group. In the future the SAFIT website will provide you with the ability to contact us with these ideas online.

SAFIT is a 501(c)(3) non-profit corporation, so your membership dues and donations are tax exempt. You should receive a receipt from SAFIT. If you have not, please contact us and we will make sure you receive one promptly.

Below you will find a listing of upcoming SAFIT sponsored events and a listing of recent papers you may find interesting.

Thank you for your membership,

Joseph Slusark, President 530.898.4792

D. Christopher Rogers, Vice President 530.756.4481

Ken Schiff, Treasurer 714.755.3202

Kim Kratz, Secretary 503.675.6225

Scott Johnson, Member at Large 805.643.5261 x11



WORKSHOPS

27 June 2008 *Estuarine Crustacea of California, Oregon and Washington*. This will be our second joint workshop with our sister organization the Southern California Association of Marine Invertebrate Taxonomists (SCAMIT)! This workshop is a one day introduction to the crustaceans found at the freshwater/marine interface along the Pacific Coast of California, Oregon and Washington and will be held at Cal Poly San Luis Obispo. We will have a brief introduction to what is known about the crustacean fauna of these habitats and then spend most of our time identifying material. Don Cadien of SCAMIT and D. Christopher Rogers of SAFIT will co-lead the workshop. Seats are limited!!!! Please RSVP to Larry Lovell at LLovell@lacsds.org, or 310.830.2400 x5613. This workshop is free to SAFIT and SCAMIT members.

Required texts are:

Carlton, J. T. (editor). 2007. *The Light and Smith Manual: Intertidal Invertebrates from Central California to Oregon*, 4th Edition. University of California Press. 1001 pp.

Rogers, D. C. 2005. *Identification Manual to the Freshwater Crustacea of the Western United States and Adjacent Areas Encountered During Bioassessment*. EcoAnalysts, Inc. Technical Publication #1.

July 23-24, 2008 *Hazmat Shipping Certification Training*. This will be our third annual hazmat shipping workshop. Instructed by Bob Todd, chemist of the California Department of Fish & Game, this workshop is tailored to the invertebrate taxonomist who needs to ship alcohol preserved specimens anywhere in the USA or internationally. This workshop provides USDOT CFR-49 and IATA compliant training and certification required under federal law to ship alcohol fixed material. The workshop is free to SAFIT members, and will be held at the *Yolo County Public Library in Davis, California* (not Woodland as in past years!!!!). The workshop will be from 9AM to 5PM in the Blanchard Room. Parking is free. Remember: your certification is only valid for two years!! For location information: <http://www.yolocounty.org/Index.aspx?page=256> or call: 530.757.5593. Seats are limited, so to register please call or email Joe Slusark at 530.898.4792, jslusark@csuchico.edu.

Bugfest. SAFIT is planning on a bugfest get together. The purpose of Bugfest is for folks to bring in their problem specimens or difficult taxa for others to help with the identification. This will enable us to identify things together and make certain that we are all seeing the same



characters. This not only will foster collaboration but will help us strengthen each other and SAFIT as a group. If you are interested in this opportunity to hob knob with your fellow wizards, please contact Joe Slusark (jslusark@csuchico.edu, 530.898.4792) or Christopher Rogers (crogers@ecoanalysts.com, 530.756.4481). If we get enough folks interested, we will select a date and a venue. Ideally we will hold the bugfest at an entomological museum where there will be plenty of material for examination and comparison, as well as libraries.

Workshops in the Works: We have a number of workshops in the planning stages for this year and years to come. If you have any workshop ideas, please submit them to Joe Slusark (jslusark@csuchico.edu, 530.898.4792) or Christopher Rogers (crogers@ecoanalysts.com, 530.756.4481). We are currently working towards: Western Ephemeroptera, Western Aquatic Mites, Western Aquatic Gastropods, Western Trichoptera, Endangered Species and Bioassessment, Seasonal Wetland Invertebrates, field techniques, and Quality Control Procedures. We are also considering some focused workshops on specific families or genera.

LATEST LITERATURE

Balke, M, J. Gomez-Zurita, I. Ribera, A. Vilorio, A. Zillikens, J. Steiner, M. Garcia, L. Hendrich, & A. P. Vogler. 2008. Ancient associations of aquatic beetles and tank bromeliads in the Neotropical forest canopy. *Proceedings of the National Academy of Sciences of the United States of America*, 105: 6356-6361.

Bortolus, A. 2008. Error cascades in the biological sciences: The unwanted consequences of using bad taxonomy in ecology. *Ambio*, 37: (2) 114-118.

Bots, J, L. De Bruyn, R. Van Damme, & H. Van Gossum. 2008. Effects of phenotypic variation onto body temperature and flight activity in a polymorphic insect. *Physiological Entomology*, 33: (2) 138-144.

Bueno-Soria, J. & R. W. Holzenthal. 2008. The genus *Ochrotrichia* Mosely (Trichoptera: Hydroptilidae) in Costa Rica, with the description of four new species. *Zootaxa* 1763: 41-54.

Dubois, A. 2008. Authors of zoological publications and nomina are signatures, not persons. *Zootaxa* 1771: 63-68.

Dumas, L. L. & J. L. Nessimian. 2008. A new species of *Neotriplectides* Holzenthal, 1997 (Insecta: Trichoptera: Atriplectididae), from Brazil, including description of the pupa of the



genus. *Zootaxa* 1773: 63-68

Erseus, C., M. J. Wetzel & L. Gustavsson. 2008. ICZN rules - a farewell to Tubificidae (Annelida, Clitellata). *Zootaxa* 1744: 66-68.

Gilbert, B, P.J. Dillon, K. M. Somers, R. A. Reid, & L. Scott. 2008. Response of benthic macroinvertebrate communities to El Nino related drought events in six upland streams in south-central Ontario. *Canadian Journal of Fisheries and Aquatic Sciences*, 65:890-905

Haase, R, & U. Nolte. 2008. The invertebrate species index (ISI) for streams in southeast Queensland, Australia. *Ecological Indicators*, 8: 599-613.

Rehn, A. C. 2008. Benthic macroinvertebrates as indicators of biological condition below hydropower dams on west slope Sierra Nevada streams, California, USA. *River Research and Applications*. www.interscience.wiley.com. DOI: 10.1002/rra.1121.

Smithers, C.N., G. N. Forteach, & A. Osborn. 2008. A new species of *Sisyra* Burmeister (Insecta: Neuroptera: Sisyridae) from Lake Pedder, Tasmania. *Australian Journal of Entomology*, 47: 77-79 Part 2.

Ware, J.L., S.Y.W. Ho, K. Kjer. 2008. Divergence dates of libelluloid dragonflies (Odonata: Anisoptera) estimated from rRNA using paired-site substitution models. *Molecular Phylogenetics and Evolution*, 47: 426-432.

NEWS

We are having a logo contest! We are hoping to develop a simple, easy to understand logo for SAFIT. We are looking for something that is basic, easy to scan, easily discernable when reduced, and not copyrighted. Any member who wishes to submit an idea for a SAFIT logo needs to send it as a .tiff file, scanned to 600 dpi, and email it to Joe Slusark at jslusark@csuchico.edu. Please have all submissions in by 1 November 2008, so that we can vote on them at the next SAFIT meeting in November.



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Greetings!

This newsletter is intended as an organ for the SAFIT Membership. This means that any and all appropriate messages and announcements, requests for specimens, requests for literature, new workshops . . . anything that fits with our mission statement can be submitted by the members for publication here. We want to foster the participation and interaction of the membership with each other. We can all be useful resources to our colleagues. Through information sharing and peer review, we will only make each other stronger, better entomologists, invertebrate biologists, taxonomists, and ecologists.

Please provide feedback to us on how we can improve the Newsletter, the website, our workshops, and our performance.

Thanks!

The SAFIT Board

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OTHER NEWS

John Epler johnepler3@comcast.net sent us:

A water beetle identification workshop will be held 7-9 October 2008 at Wakulla Springs (northern Florida). This course will emphasize Florida/Southeastern US taxa, but more can be covered depending on participants. The instructor for the workshops will be Dr. J.H. Epler, author of numerous identification manuals for larval midges, water beetles and water bugs.

For more information, please visit my web site at:

<http://home.comcast.net/~johnepler3/index.html>

LATEST LITERATURE

Alencar, J., F. C. Castro, H. A. O. Monteiro, O.V. Silva, N. Degallier, C. B. Marcondes & A. E. Guimaraes. 2008. New records of *Haemagogus* (*Haemagogus*) from Northern and Northeastern

Brazil (Diptera: Culicidae, Aedini) *Zootaxa* 1779: 65-68.

Allford, A., S. J. B. Cooper, W. F. Humphreys, & A. D. Austin. 2008. Diversity and distribution of groundwater fauna in a calcrete aquifer: does sampling method influence the story? *Invertebrate Systematics*, 22: 127-138 2008.

Blocksom, KA, B. C. Autrey, M. Passmore, & L. Reynolds. 2008. A comparison of single and multiple habitat protocols for collecting macroinvertebrates in wadeable streams. *Journal of the American Water Resources Association*, 44: 577-593.

Bogan, A. E. & K. Roe. 2008. Freshwater bivalve (Unioniformes) diversity, systematics, and evolution: status and future directions. *Journal of the North American Benthological Society*, 27: 349-369.

Braasch, D & H. Freitag. 2008. *Palawaneuria*, a new subgenus of *Compsoeuria* and new species of *Compsoeuria* and *Afronurus* (Ephemeroptera, Heptageniidae) from Palawan, Philippines. *Deutsche Entomologische Zeitschrift*, 55: 117-128.

Brown, K. M., Lang, B. & K. E. Perez. 2008. The conservation ecology of North American pleurocerid and hydrobiid gastropods. *Journal of the North American Benthological Society*, 27: 484-495.

Cartwright, D. I. 2008. A review of the Australian species of *Ecnomina* Kimmins and *Daternomina* Neboiss (Trichoptera: Ecnomidae). *Zootaxa*, 1774: 3-76

Calor, A. R. & C. G. Froehlich. 2008. Description of the immature stages of *Notalina morsei* Holzenthal, 1986 (Trichoptera: Leptoceridae) and an updated key to larvae of Neotropical Leptoceridae genera. *Zootaxa* 1779: 45-54.

Ciampor Jr., F., & Z. Ciamporova-Zatovicova. 2008. A new species of *Hedyselmis* Hinton and notes on the phylogeny of the genus (Coleoptera: Elmidae). *Zootaxa* 1781: 55-62.

Cooper, S. J. B., K. M. Saint, S. Taiti, A. D. Austin, & W. F. Humphreys. 2008. Subterranean archipelago: mitochondrial DNA phylogeography of stygobitic isopods (Oniscidea: Haloniscus) from the Yilgarn region of Western Australia. *Invertebrate Systematics*, 22: 195-203.

Cranston, PS. 2008. Phylogeny predicts larval biology in a wood-mining chironomid (Diptera : Chironomidae). *African Entomology*, 16: 1-6.

Cressa, C., V. Maldonado, S. Segnini, & M. M. Chacon. 2008. Size variation with elevation in adults and larvae of some Venezuelan stoneflies (Insecta: Plecoptera: Perlidae). *Aquatic Insects*, 30: 127-134.

da Silva, AM, N. J. de Camargo, D. R. dos Santos, R. Massafera, A. C. Ferreira, C. Postai, E. Cristovao, J. F. Konolsaisen, A. Bisetto, R. Perinazo, U. Teodoro, & E. A. B. Galtai. 2008.

- Diversity, distribution and abundance of Sandflies (Diptera: Psychodidae) in Parana State, Southern Brazil. *Neotropical Entomology*, 37: 209-225.
- DiStefano, R.J. 2008. Conservation of imperiled crayfish - *Orconectes (Procericambarus) quadruncus* (Creaser, 1933) (Decapoda: Cambaridae). *Journal of Crustacean Biology*, 28: 417-421.
- Funk, D.H., J. K. Jackson, & B. W. Sweeney. 2008. A new parthenogenetic mayfly (Ephemeroptera: Ephemerellidae: *Eurylophella* Tiensuu) oviposits by abdominal bursting in the subimago. *Journal of the North American Benthological Society*, 27: 269-279.
- Giacomini, H. C. & P. De Marco Jr. 2008. Larval ecomorphology of 13 Libellulidae (Anisoptera, Odonata) of the Middle Rio Doce Valley, Minas Gerais, Brazil. *Brazilian Journal of Biology*, 68: 211-219.
- Hancock, P.J. & A. J. Boulton. 2008. Stygofauna biodiversity and endemism in four alluvial aquifers in eastern Australia. *Invertebrate Systematics*, 22: 117-126.
- Humphreys, W.F. 2008. Rising from Down Under: developments in subterranean biodiversity in Australia from a groundwater fauna perspective. *Invertebrate Systematics*, 22: 85-101.
- Hwang, J. M. & Y. J. Bae. 2008. Review of the tropical Southeast Asian Ephemera (Ephemeroptera: Ephemeridae). *Aquatic Insects*, 30: 105-126.
- Leys, R. & C. H. Watts. 2008. Systematics and evolution of the Australian subterranean hypoporine diving beetles (Dytiscidae), with notes on Carabhydrus. *Invertebrate Systematics*, 22: 217-225.
- Li, W. H. & D. Yang. 2008. Two new species of *Indonemoura* (Plecoptera: Nemouridae) from China, with redescription of *Indonemoura longiplatta* (Wu, 1949), comb. n. *Aquatic Insects*, 30: 97-103.
- Liu, X., F. Hayashi & D. Yang. 2008. Species of the *Protohermes sabahensis* group (Megaloptera: Corydalidae) from eastern Malaysia. *Zootaxa* 1782: 49-60.
- Lysne, S.J., K. E. Perez, K. M. Brown, R. L. Minton, & J. D. Sides. 2008. A review of freshwater gastropod conservation: challenges and opportunities. *Journal of the North American Benthological Society*, 27: 463-470.
- Mansur, M. C. D. & D. M. Pimpao. 2008. *Triplodon chodo*, a new species of pearly fresh water mussel from the Amazon Basin (Mollusca: Bivalvia: Unionoida: Hyriidae). *Revista de Brasileira Zoologia* 25: 111-115.
- Matushkina, N. A. 2008. Skeletomuscular development of genital segments in the dragonfly *Anax imperator* (Odonata, Aeshnidae) during metamorphosis and its implications for the

evolutionary morphology of the insect ovipositor. *Arthropod Structure & Development*, 37: 321-332.

McCauley, S. J., C. J. Davis, & E. E. Werner. 2008. Predator induction of spine length in larval *Leucorrhinia intacta* (Odonata). *Evolutionary Ecology Research*, 10: 435-447.

Michaud, M. R., J. B. Benoit, G. Lopez-Martinez, M. A. Elnitsky, R. E. Lee, & D. L. Denlinger. 2008. Metabolomics reveals unique and shared metabolic changes in response to heat shock, freezing and desiccation in the Antarctic midge, *Belgica Antarctica*. *Journal of Insect Physiology*, 54: 645-655.

Nascimento, H. L. S. & R. da G. Alves. 2008. Cocoon production and hatching rates of *Branchiura sowerbyi* Beddard (Oligochaeta: Tubificidae). *Revista de Brasileira Zoologia* 25: 16-19.

Nerudova, J. & D. Kovac. 2008. Biology and description of larva and puparium of the Palaearctic soldier fly *Stratiomys ruficornis* (Diptera: Stratiomyidae). *Aquatic Insects*, 30: 135-143.

Parhi, J., W.S. Lakra, K. C. Majumdar, S. C. Mukherjee, M. Goswami, K. Ravinder, & L. Sahoo. 2008. Molecular phylogeny of freshwater prawn (Genus: *Macrobrachium*) species based on mtDNA 16S rRNA gene sequencing. *Indian Journal of Animal Sciences*, 78: 425-429.

Perez, K. E. & R. L. Minton. 2008. Practical applications for systematics and taxonomy in North American freshwater gastropod conservation. *Journal of the North American Benthological Society*, 27: 471-483.

Rasmussen, A. K., S. C. Harris & D. R. Denson. 2008. Two new species of Leptoceridae (Trichoptera) from Florida, USA. *Zootaxa* 1779: 55-64.

Scheibler, E. E. & G. O. Debandi. 2008. Spatial and temporal patterns in the aquatic insect community of a high altitude Andean stream (Mendoza, Argentina). *Aquatic Insects*, 30: 145-161.

Stepenuck, K. F., R. L. Crunkilton, M. A. Bozek, & L. Z. Wang. 2008. Comparison of macroinvertebrate-derived stream quality metrics between snag and riffle habitats. *Journal of the American Water Resources Association*, 44: 670-678.

Turnbow, R. H. Jr. & M. C. Thomas. 2008. An annotated checklist of the Coleoptera (Insecta) of the Bahamas. *Insecta Mundi* 2008 (0034): 1-64.

Walther, A. C., M. F. Benard, L. P. Boris, N. Enstice, A. Lindauer-Thompson, & J. Wan. 2008. Attachment of the freshwater limpet *Laevapex fuscus* to the hemelytra of the water bug *Belostoma flumineum*. *Journal of Freshwater Ecology*, 23: 337-339.

Woodruff, R. E. 2007. What is peer review? In: Skelley, P. E. & M.C. Thomas. *Insecta Mundi*: procedures, production and publication. *Insecta Mundi* 2007(0001): 6-7.

Zwick, P. & H. Zwick. 2008. *Scirtes hemisphaericus* uses macrophyte snorkels to pupate under water, with notes on pupae of additional European genera of Scirtidae (Coleoptera). *Aquatic Insects*, 30: 83-95.

THANK YOU FOR YOUR MEMBERSHIP!

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Greetings!

Wow! Our third issue of the Newsletter. So, is it useful? Are there other features that you would like to see? Any complaints or criticisms? Any feed back at any time would be most useful.

Have a job opening that you want to announce, or are looking for a job? Let SAFIT know in the Newsletter! Looking for a certain species or literature reference? Need material for research or comparative purposes? Let your colleagues know in the SAFIT Newsletter! Want a workshop on a particular group of organisms? Have references to sell or share? Looking for a collecting partner? Put it here in the SAFIT Newsletter. All appropriate requests, queries, non-commercial advertisements and announcements will be considered, and are free to the SAFIT membership.

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EcoAnalysts, Inc. will be again offering **Introduction to the fairy shrimps, tadpole shrimps and clam shrimps: their ecology, biology, and identifying their habitat** to be taught by D. Christopher Rogers on 3 – 5 September 2008 at UC Davis. In this presentation D. Christopher Rogers will discuss Branchiopod general biology, ecology, zoogeography, and conservation, with a strong emphasis on morphology and taxonomy. This workshop is mandatory for people wishing to get permitted by the US Fish & Wildlife Service to conduct special status vernal pool crustacean surveys. Questions are welcome throughout the presentation, and discussion is encouraged. Attendees are encouraged to bring any material that they may want identified. Any questions regarding this class should be directed to: D. Christopher Rogers 530.756.4481; crogers@ecoanalysts.com

EMPLOYMENT OPPORTUNITIES

EcoAnalysts, Inc. has **job openings for a chironomid taxonomist and a periphyton taxonomist, as well as lab tech positions**. The lab tech positions and the chironomid taxonomist positions are in the Moscow, Idaho office and the periphyton taxonomist position would be in either Moscow, Idaho or Joplin, MO. The full details are available at <http://ecoanalysts.com/>.

NEW BOOKS

Heckman, Charles W. 2008. Encyclopedia of South American Aquatic Insects: Odonata – Zygoptera Illustrated Keys to Known Families, Genera, and Species in South America. VIII, 692 p., Hardcover ISBN: 978-1-4020-8175-0. \$399. This book is the latest in a series of on the South American aquatic insects. After attempting to use the first two in the series, and reading the reviews on this previous issues of the series, I am extremely dubious about the value of this text. A review of this book can be found at: http://www.nev.nl/tve/tve_bookreviews.pdf. So far, all reviews on previous versions have eviscerated the author over errors in the keys, errors in the figures, errors in the literature cited and the text. The review in NABS (2004:23:151 – 152) concerning the volume on the Ephemeroptera said “Although ambitious in compiling all available keys and illustrations down to species level, the outcome is deeply flawed by careless errors and bad layout decisions.” and “The prospect that this mayfly volume will be followed by others on other orders of aquatic insects does not inspire confidence for the immediate future of Neotropical aquatic insect studies.” The review of the same volume by the European Journal of Entomology (2005: 102: 791 – 792) stated: “Anyone who purchases this book should ignore the keys.”

LATEST LITERATURE

If you know of any literature or if you yourself have published any papers of interest to the SAFIT membership, please send copies or the citations to D. Christopher Rogers (crogers@ecoanalysts.com) for inclusion in the next issue of the SAFIT Newsletter. Thanks!!

Alvarez, F & J. L. Villalobos. 2008. A new species of freshwater cave dwelling *Speocirolana* (Isopoda, Cirolanidae) from San Luis Potosi, Mexico. *Crustaceana*, 81: 653-662.

Barman, E. H., B. P. White, R. Jackson, & G. W. Wolfe. 2008. Identification of mature larvae of *Hydaticus cinctipennis* and *H. bimarginatus* (Coleoptera: Dytiscidae) based on morphology and breeding seasons. *Florida Entomologist*, 91: 315-316.

Bravo, F. 2008. Three new species of *Alepia* Enderlein (Diptera, Psychodidae, Psychodinae) from the Brazilian semi-arid region. *Zootaxa* 1805: 52-60.

Boros, G. & K. Dozsa-Farkas. 2008. *Marionina scintillans* sp n., a new enchytraeid species (Annelida: Oligochaeta) from Hungarian green houses. *Acta Zoologica Academiae Scientiarum Hungaricae*, 54: 113-123.

Buchwalter, D.B., D. J. Cain, C. A. Martin, L. Xie, S. N. Luoma, & T. Garland. Aquatic insect ecophysiological traits reveal phylogenetically based differences in dissolved cadmium susceptibility. *Proceedings of the National Academy of Sciences of the United States of America*, 105: 8321-8326.

Bybee, S. M. & K. J. Tennessen. 2008. Description of the female and nymph of *Philogenia mangosisa* from southern Ecuador (Odonata: Megapodagrionidae). *Zootaxa*, 1787: 63-68.

Calor, A.R. & C. G. Froehlich. 2008. Description of the immature stages of *Notalina morsei* Holzenthal, 1986 (Trichoptera: Leptoceridae) and an updated key to larvae of Neotropical Leptoceridae genera. *Zootaxa*, 1779: 45-54.

Ciampor, F. and Z. Ciamporova-Zatovicova. 2008. A new species of *Hedyselmis* Hinton and notes on the phylogeny of the genus (Coleoptera: Elmidae). *Zootaxa*, 1781: 55-62.

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INTERNET RESOURCES

Backhuys Publishing <http://www.euronet.nl/users/backhuys/>

Animal Base <http://www.animalbase.org/>

Bio Lib <http://www.biolib.de/>

Florida Bureau of Laboratories <http://www.floridadep.org/labs/cgi-bin/sbio/keys.asp#keys>

Directory of Open Access Journals <http://www.doaj.org/>

Instituto de Ciencias del Mar y Limnológica

http://biblioweb.dgsca.unam.mx/cienciasdelmar/anales_i/ins_inx.htm

Ohio Biological Survey <http://www.ohiobiologicalsurvey.org/pubs.html>

Pub Med <http://www.ncbi.nlm.nih.gov/sites/entrez?db=pmc>

Ephemeroptera Galactica <http://www.famu.org/mayfly/>

Freshwater Invertebrate Taxonomy List Server: <http://ecoanalysts.com/listserv.aspx>

THANK YOU FOR YOUR MEMBERSHIP!

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SAFIT

SOUTHWEST ASSOCIATION OF FRESHWATER INVERTEBRATE TAXONOMISTS

Greetings, one and all!

Lots has been going on and there is great stuff coming up. The SAFIT Annual Meeting will be held Friday, 21 November 2008 AFTER the regular CABW meetings, on 19 and 20 November (for meeting time and place see below). Elections and a logo will be subjects for discussion. BugFest was a great success! Special thanks to the Bohart Museum of Entomology for hosting us. A great time was had by all, and for those of you did not attend, you really missed out!

Have a job opening that you want to announce, or are looking for a job? Let SAFIT know in the Newsletter! Looking for specimens of a certain species or literature reference? Need material for research or comparative purposes? Let your colleagues know in the SAFIT Newsletter! Want a workshop on a particular group of organisms? Have references to sell or share? Looking for a collecting partner? Put it here in the SAFIT Newsletter. All appropriate requests, queries, non-commercial advertisements and announcements will be considered, and are free to the SAFIT membership.

Thanks!

The SAFIT Board

PRESIDENT'S UPDATE

SAFIT will be conducting its third annual meeting at the Davis Public Library in Davis California Following the CABW meeting in Davis California on Friday, 28 November 2008. The meeting starts at 9 am and will conclude at 5 pm with a break for lunch. Updates on the board of directors meetings, the treasury status and other business topics will be covered. We will announce the results of Board of Directors elections for Vice president and treasurer and announce the winner of the SAFIT logo competition. We will also discuss the new SAFIT Newsletter and how it can better serve the membership.

We will recap the workshops conducted in 2008 and discuss plans for workshops in 2009 and beyond. There will be an update on the STE status and its future development as well as the development of our web site (www.safit.org), the online digital reference collection and other resources.

We will get an update from the membership development and interagency liaison team on the current number of SAFIT members. In addition we will hear about the teams plan for reaching new potential members and expanding our membership in other South Western States. Finally we will receive an update from the QA Workgroup and the Education/Outreach Committee.

In addition to finding out what has been going on in SAFIT over the last year the annual meeting is your opportunity as a member to bring your ideas. We welcome your ideas for workshops, field trips, fund raisers, etc. Even better, we welcome anyone who wishes to step up and implement these good ideas or who wishes to participate in an existing committee or workgroup.

Hope to see you all there in Davis next month.

Joe Slusark

BUGFEST 2008



Bugfest was a blast! It was a great time of collaboration and bridge building. Groups worked on difficult specimens, so all were able to see the same diagnostic characters. We had around twenty folks from our membership from all over California, as well as Oregon and Idaho. The Bohart

Museum opened their collections and library and provided microscopes. The identified material in the museum collections was a great resource for comparing to the unidentified material brought in by the attendees. Most of the unidentified material was mollusks, mites, midges and heteroptera. SAFIT thanks Lynn Kimsey, Steve Heydon and the rest of the Bohart Museum staff for a very productive day.

NEWS

We are having a logo contest! We are hoping to develop a simple, easy to understand logo for SAFIT. We are looking for something that is basic, easy to scan, easily discernable when reduced, and not copyrighted. Any member who wishes to submit an idea for a SAFIT logo needs to send it as a .tiff file, scanned to 600 dpi, and email it to Joe Slusark at jslusark@csuchico.edu. Please have all submissions in by 1 November 2008, so that we can vote on them at the next SAFIT meeting in November.

The **Evolutionary Biology Program** at **San Diego State University** is in the process of launching a new doctoral program that will be administered jointly with the **University of California, Riverside**. Information about our group is available at <http://www.bio.sdsu.edu/eb/index.html>. Following final administrative approval this winter, the program will review applications in January/February 2009, to begin in September 2009. Basic information about the program's structure is available at the above web site, and students can email Annalisa Berta <aberta@sciences.sdsu.edu> for further information.

SAFIT MEETINGS

The **SAFIT Annual Business Meeting** will be held Friday, 21 November 2008. This is the day AFTER the regular CABW meetings, on 19 and 20 November. Our meeting will be held at the City of Davis Public Library (see <http://www.yolocounty.org/Index.aspx?page=256> for directions) from 9 AM until 5 PM, or until we get done. Parking is free as is attendance. We have lots to discuss, including the STE, elections, workshops, the logo contest and more. Please contact any board member for further details http://www.safit.org/index_files/Page496.htm. Remember, Christopher Rogers lives in Davis, so he can help with "out-of-towner" type questions.

Workshops in the Works: We have a number of workshops in the planning stages for this year and years to come. If you have any workshop ideas, please submit them to Joe Slusark (jslusark@csuchico.edu, 530.898.4792) or Christopher Rogers (crogers@ecoanalysts.com, 530.756.4481). We are currently working towards: Western Ephemeroptera, Western Aquatic Mites, Western Aquatic Gastropods, Western Trichoptera, Endangered Species and Bioassessment, Seasonal Wetland Invertebrates, field techniques, and Quality Control Procedures. We are also considering some focused workshops on specific families or genera.

OTHER NEWS

The annual **CABW** (California Aquatic Bioassessment Working Group) meeting will be held at UC Davis, 19 & 20 November, from 8 AM to 4 PM. This will be the Fifteenth annual meeting. The draft agenda for this year's meeting is still being developed. As in previous years, this meeting will have one and half days for presentations and an optional workshop on the last half of the second day. A possible workshop for this year's meeting is "Causal Criteria" instructed by Richard Norris and his staff from the eWater Cooperative Research Center at the University of Canberra, Australia. It is an 8-step framework and software program which draws together information from the scientific literature, and other data sources, to strengthen conclusions on how a particular human activity, or natural event, may influence the environment. Proposed session topics include, but are not limited to the use of bioassessment to measure river restoration and dam removal projects, the use of bioassessment to evaluate timber lands, the Klamath River and Tribal monitoring efforts, updates on algae and CRAM protocols and updates on regional bioassessment programs and special studies. Please contact Jim Harrington at jharring@OSPR.DFG.CA.GOV or 916.358.2862 for registration information. As always the event is free, but registration is required. Regional and state water board staff can register at: <http://waternet/training/>, all others register at: <http://www.waterboards.ca.gov/academy/>.

The 2009 **NABS** (North American Benthological Society) meeting will be held in Grand Rapids, Michigan <http://www.benthos.org/index.cfm> 17 - 22 May. Please check the NABS website for updates and registration opening.

The international **MALIAF** conference (Managing alien species for sustainable development of aquaculture and fisheries) will be held in Florence (Firenze), Italy, 5-7 November 2008 information can be found at the MALIAF website: www.dbag.unifi.it/maliaf.

EMPLOYMENT OPPORTUNITIES

Taxonomist Positions

Watershed Assessment Associates has an opening for a fulltime benthic taxonomist. For further information visit their web site: www.rwaa.us or http://www.rwaa.us/job_flyer.pdf

EcoAnalysts, Inc. has **job openings for a chironomid taxonomist and a periphyton taxonomist, as well as lab tech positions.** The lab tech positions and the chironomid taxonomist positions are in the Moscow, Idaho office and the periphyton taxonomist position would be in either Moscow, Idaho or Joplin, MO. The full details are available at <http://ecoanalysts.com/>.

LATEST LITERATURE

If you know of any literature or if you yourself have published any papers of interest to the SAFIT membership, please send copies or the citations to D. Christopher Rogers (crogers@ecoanalysts.com) for inclusion in the next issue of the SAFIT Newsletter. Thanks!!

General

Bruce N. L. & R. Wetzer. 2008. New Zealand exports: *Pseudosphaeroma* Chilton, 1909 (Isopoda: Sphaeromatidae), a Southern Hemisphere genus introduced to the Pacific coast of North America. *Zootaxa* 1908: 51-56.

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Odonata

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[URL:<http://mrc.pms-lj.si/illiesia/papers/Illiesia04-04.pdf>]

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Diptera

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Mendes, H. F. & T. Andersen. 2008. A review of *Antillocladius* Sæther and *Litocladius* Mendes, Andersen *et* Sæther, with the description of two new Neotropical genera (Diptera, Chironomidae, Orthoclaadiinae). *Zootaxa* 1887: 1-75.

Rossi, G. C. & R. E. Harbach. 2008. *Phytotelmatomyia*, a new Neotropical subgenus of *Culex* (Diptera: Culicidae). *Zootaxa* 1879: 1-17.

THANK YOU FOR YOUR MEMBERSHIP!

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