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**CURRENT AND SELECTED BIBLIOGRAPHIES ON BENTHIC BIOLOGY – 2013**

# Society for Freshwater Science

Formerly *North American Benthological Society*

<http://www.freshwater-science.org>

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**FOREWORD.** “Current and Selected Bibliographies on Benthic Biology” is published annually for the members of the Society for Freshwater Science (SFS) (formerly, the Midwest Benthological Society [MBS, 1953-1975] then the North American Benthological Society [NABS, 1975-2011]). This compilation summarizes titles of articles published primarily during the previous year (2012). Additionally, many section compilers have 1) included citations of articles published prior to 2012 if they had not been cited in previous annual compilations, 2) provided corrected citations for publications with inadvertent errata when first included in previous annual compilations, and 3) included citations for more recent (2013–) publications. I extend my appreciation to past and present members of the MBS, NABS and SFS Literature Review and Publications Committees, to librarians Elizabeth Wohlgemuth (Illinois Natural History Survey) and Susan Braxton (Prairie Research Institute), and to Kristi L. Moss for her assistance during the editing of contributed sections and compilation of this bibliography.

Recently, the SFS Publications Committee and Society Board of Governors decided to provide open access to all annual bibliographic compilations by the society’s Literature Review Committee – regardless of one’s membership. In doing so, we hope that free and open access of our annual bibliography to all scientists, worldwide, will showcase one of the many exceptional assets of our Society and thus attract new members.

If you are accessing this bibliography and its associated searchable database, but are not yet a member, I encourage you to seriously consider membership in SFS. Information on SFS membership (including downloadable membership forms) is available here: <http://www.freshwater-science.org/About-NABS/About-SFS-Membership.aspx>. Inquiries should be directed towards SFS Member Services: 5400 Bosque Blvd., Suite 680, Waco, TX 76710 USA; telephone: (254) 399-9636; FAX: (254) 776-3767; E-mail: [membership@benthos.org](mailto:membership@benthos.org).

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**Please Read These Notes:**

Historically, annual compilations of this bibliography were presented in a two-column format. Since the annual NABS / SFS bibliography has not been published in hard copy since 2002 (7-7/8” x 10”, soft cover), this current bibliography is being presented in a single column, full-page width format. The keen eye will discern slight variations in citation format from one section to the next. While many section authors have closely followed the citation format recommended years ago by former committee chair Don Webb<sup>†</sup> (in consultation with Ron Hellenthal, who for years integrated annual bibliographic compilations with a global database he maintained for the Society – requiring a citation format that was best for the database at that time), other perennial members of this committee provide citations formatted differently (likely congruent with their own preferred bibliographic database formats).

The annual bibliographic compilations are solely dependent on our committee membership – dedicated volunteers (several who have served for 25+ years) who donate countless hours of their personal and professional time to compiling and vetting citations for their sections. Thus, I feel it is more important to accept contributions from all committee members rather than reject sections that do not follow explicit format or meet fixed deadlines. I will be discussing options regarding the future of this annual bibliography with the Society’s Publications Committee soon, and have been searching to rediscover past annual compilations (1993–2002) that are neither included in the searchable database (1959–1992) nor as MS Word and PDF files (2000–‘present’) via the Society’s website.

Recently, when looking through the extensive reprint collection of Dr. R. Weldon ‘Larry’ Larimore<sup>†</sup> (my first boss and one of the 13 founding members of our Society in 1953), I discovered a pristine copy of the very first ‘annual’ society bibliography (compiled by whom I consider to be the founding members of Society’s first Society literature review committee; this first compilation spanned the years 1959–1964. I scanned that original compilation, and you can now download a PDF version of it from the [SFS Bibliography webpage](#)’ entitled “MBS\_Biblio\_1959to1964.pdf”, it is located on that page just above the subheading “[SFS BIBLIOGRAPHY SEARCH (1959-1992)]”].

I am still searching for original paper copies of the annual compilations for the years 1965 through ~1975, so please contact me if you have archived your historical society documents. I will soon ask Tina Mendez and Deb Finn to post a brief request via the society website and the newsletter *In The Drift*, requesting these documents. I will then scan them, and have them posted on the website with the other annual bibliographic compilations.

At the request of Deb Finn and Tina Mendez, I am preparing an historical perspective on the MBS / NABS / SFS Literature Review Committee, which will also include the names of all contributors and (when possible) their years of tenure on the committee. **Although my list of past and present members and their years of service is extensive, I strongly encourage all who read this to contact me with their years of service.**

As many committee members have noted (at the beginning of their sections as included herein), please send your publications (paper reprint or pdf) to all pertinent section editors to assure they are accurately included – bibliographic download services are incredible assets to committee members when compiling our sections, but we know that citations provided by these services are occasionally inaccurate and/or incomplete, and that several committee members have retired, and may not have easy access to library resources. Over the last few years, we have seen a significant increase in ‘on-line first’ publications, followed later by publication of these papers in more traditional, paper format issues.

If you see errors or omissions in any of the citations included below, please send the *incorrect* as well as the *corrected* citation(s) to the author(s) of the pertinent section(s). Thank you for your interest and your assistance. **Mark J. Wetzel, Editor – 2013 (for 2012) NABS/SFS Annual Bibliography, and Chair, SFS Literature Review Committee. E-mail: mjwetz@illinois.edu**

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<b>MOLLUSCA:</b> <u>Kevin S. Cummings</u> , Illinois Natural History Survey, Prairie Research Institute at the University of Illinois at Urbana-Champaign, 1816 South Oak Street, Champaign, IL 61820. Tel: 217.333-1623. URL: <a href="http://www.inhs.uiuc.edu/~ksc/home.html">http://www.inhs.uiuc.edu/~ksc/home.html</a> E-mail: <a href="mailto:ksc@inhs.illinois.edu">ksc@inhs.illinois.edu</a> .....	<u>167</u>
<b>ACARINA:</b> <i>No contribution for this section received this year.</i> However, Tom Simmons, who compiled this sections as a member of the committee, may be able to provide a multi-year compilation of Acarina papers for inclusion in the 2014 (for 2013) bibliography.	
<b>PERIPHYTON:</b> <u>Becky Bixby</u> , Department of Biology, 167 Castetter Hall, MSC03 2020, University of New Mexico, Albuquerque, NM 87131. Tel: (505) 277-8158; E-mail: <a href="mailto:bbixby@unm.edu">bbixby@unm.edu</a> ; <i>and</i> <u>Paula C. Furey</u> , Department of Biology, St. Catherine University, 2004 Randolph Ave, Mailstop 4246, St. Paul, MN 55105. Tel: (419) 308-7770. E-mail: <a href="mailto:pcfurey@hotmail.com">pcfurey@hotmail.com</a> .....	<u>218</u>
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**Annelida: Introduction; Acanthobdellida; Branchiobdellida; Oligochaetous Clitellata.**

**ANNELIDA: Acanthobdellida, Branchiobdellida, oligochaetous Clitellata ('Oligochaeta'), Polychaeta (including Aeolosomatida), and miscellaneous Annelida – Mark J. Wetzel**

**Introduction.**

The Annelida sections of previously published NABS and SFS bibliographies (compilations for the years 1992 through 2011 are located in the [bibliographic section of The INHS Center for Annelida Resources website](#). More recent annual compilations (for 2012, 2013, and soon, 2014) have been combined and are accessible via the URL immediately above and also via the [links page associated with the INHS Annelida Collections website](#).

Citations included here are split into the following subsections for the convenience of researchers: [Acanthobdellida](#), [Branchiobdellida](#), oligochaetous Clitellata (with two sections: one on [microdrile oligochaetes](#) and one on [megadrile oligochaetes](#) - terrestrial and semi-terrestrial earthworms), [Polychaeta](#) (including a separate section for the [Aphanoneura / Aeolosomatida](#)), and [miscellaneous Annelida](#) (including Archiannelida, Echiura, Pogonophora, Sipuncula), primarily systematic papers describing new taxa). Papers discussing taxa from more than one of the above groups will be included with each of those group compilations, below. Researchers should send reprints of their publications [PDF preferred] to me to ensure that they are included accurately in future bibliographies, and that the information specific to descriptions of new taxa is available for inclusion on our new oligochaete nomenclator website:

[Reynolds, J.W. & M.J. Wetzel. 2015. Nomenclatura Oligochaetologica – A catalogue of names, descriptions and type specimens. Editio Secunda](#)

Please report inaccuracies in this section to me (contact information above). I thank our global annelid 'family' for providing reprints and pdfs of their publications for inclusion in past and present bibliographic compilations. – *MJW*.

**Acanthobdellida**

Świątek, P; Urbisz, A.Z.; Strużyński, W.; Płachno, B.J.; Bielecki, A.; Cios, S. Salonen, E.; Klag, J. 2012. Ovary architecture of two branchiobdellid species and *Acanthobdella peledina* (Annelida, Clitellata). Zoologischer Anzeiger 251(1): 71-82.

Utevsky, S.Y.; Sokolov, S.G.; Shedko, M.B. 2013. New records of the chaetiferous leech-like annelid *Paracanthobdella livanowi* (Epshtein, 1966) (Annelida: Clitellata: Acanthobdellida) from Kamchatka, Russia. Systematic Parasitology 84(1): 71-79.

**Branchiobdellida**

Świątek, P; Urbisz, A.Z.; Strużyński, W.; Płachno, B.J.; Bielecki, A.; Cios, S. Salonen, E.; Klag, J. 2012. Ovary architecture of two branchiobdellid species and *Acanthobdella peledina* (Annelida, Clitellata). Zoologischer Anzeiger 251(1): 71-82.

Williams, B.W.; Williams, K.L.; Gelder, S.R.; Proctor, H.C. 2011. Distribution of Entocytheridae (Crustacea: Ostracoda) in the northern prairies of North America and reports of opportunistic clitellate annelids on crayfish hosts. Western North American Naturalist 71(2): 276-282.

**Oligochaetous Clitellata (primarily microdrile oligochaetes)**

- Abdelsalam, K.M. 2012. Benthic macro- and meso-invertebrates of a sandy riverbed in a mountain stream, central Japan. *Limnology* 13(1): 171-179.
- Al-Abbad, M.Y.M. 2012. New Records of Twelve species of Oligochaeta (Naididae and Aeolosomatidae) from the Southern Iraqi Marshes, Iraq. *Jordan Journal of Biological Sciences* 5(2): 105-111.
- Amorim, M. J. B.; Natal-da-Luz, T.; Sousa, J. P.; Loureiro, S.; Becker, L.; Roembke, J.; Soares, A. M. V. M. 2012. Boric acid as reference substance: pros, cons and standardization. *Ecotoxicology* 21(3): 919-924.
- Armitage, P.D.; Hawczak, A.; Blackburn, J.H. 2012. Tyre track pools and puddles - Anthropogenic contributors to aquatic biodiversity. *Limnologica* 42(4): 254-263.
- Arslan, N.; Öktener, A. 2012. A general review of parasitic Annelida (Hirudinea) recorded from different habitats and hosts in Turkey. In: Çolack, E.; Arslan, N.; Wetzel, M.J.; Timm, T.; Wang, H.-Z.; Pinder, A.; and Schenková, J. (eds.). *Aquatic Oligochaete Biology XI. Proceedings of the 11th International Symposium on Aquatic Oligochaeta held in Alanya, Antalya, Turkey, 5-10 October 2009.* viii + 145 pp. *Turkish Journal of Zoology* 36(1): 141-145.
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- Atanackovic, A.; Sporka, F.; Tomovic, J.; Vasiljevic, B.; Markovic, V.; Simic, V.; Paunovic, M. 2012. First record of *Bothrioneurum vej dovskyanum* Stolc, 1886 (Oligochaeta, Tubificidae) in Serbia. *Archives of Biological Sciences* 64(3): 1123-1126.
- Aviz, D.; de Carvalho, I.L.R.; Rosa, J.S. 2012. Spatial and temporal changes in macrobenthic communities in the Amazon coastal zone (Guajara Estuary, Brazil) caused by discharge of urban effluents. *Scientia Marina* 76(2): 381-390.
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- Baturina, M. 2012. Distribution and diversity of aquatic Oligochaeta in small streams of the middle taiga. In: Çolack, E.; Arslan, N.; Wetzel, M.J.; Timm, T.; Wang, H.-Z.; Pinder, A.; and Schenková, J. (eds.). *Aquatic Oligochaete Biology XI. Proceedings of the 11th International Symposium on Aquatic Oligochaeta held in Alanya, Antalya, Turkey, 5-10 October 2009.* viii + 145 pp. *Turkish Journal of Zoology* 36(1): 75-84.
- Beckingham, B.; Ghosh, U. 2011. Field-Scale Reduction of PCB Bioavailability with Activated Carbon Amendment to River Sediments. *Environmental Science & Technology* 45(24): 10567-10574.
- Behrend, R.D.L.; Takeda, A.M.; Gomes, L.C.; Fernandes, S.E.P. 2012. Using oligochaeta assemblages as an indicator of environmental changes. *Brazilian Journal of Biology* 72(4): 873-884.
- Blair, J.M.; Hicks, B.J.; Pitkethley, R.; Ling, N. 2012. Diet of rainbow trout in Lake Rotoiti: an energetic perspective. *New Zealand Journal of Marine and Freshwater Research* 46(4): 557-565.
- Bolam, S.G. 2011. Burial survival of benthic macrofauna following deposition of simulated dredged material. *Environmental Monitoring and Assessment* 181(1-4): 13-27.
- Bordy, E.M.; Linkermann, S.; Prevec, R. 2011. Palaeoecological aspects of some invertebrate trace fossils from the mid- to Upper Permian Middleton Formation (Adelaide Subgroup, Beaufort Group, Karoo Supergroup), Eastern Cape, South Africa. *Journal of African Earth Sciences* 61(3): 238-244.

**Annelida: Oligochaetous Clitellata.**

- Brooks, R.T.; Colburn, E.A. 2012. "Island" Attributes and Benthic Macroinvertebrates of Seasonal Forest Pools. *Northeastern Naturalist* 19(4): 559-578.
- Buchmann, K; Skovgaard, A; Kania, P.W 2012. *Myxobolus groenlandicus* n. sp (Myxozoa) distorting skeletal structures and musculature of Greenland halibut *Reinhardtius hippoglossoides* (Teleostei: Pleuronectidae). *Diseases of Aquatic Organisms* 98(2): 133-141.
- Cai, Y.-J.; Jiang, J.-H.; Zhang, L.; Chen, Y.-W.; Gong, Z.-J. 2012. Simplification of macrozoobenthic assemblages related to anthropogenic eutrophication and cyanobacterial blooms in two large shallow subtropical lakes in China. *Aquatic Ecosystem Health & Management* 15(1): 81-91.
- Cai, Y.J.; Gong, Z.J.; Xie, P. 2012. Community structure and spatiotemporal patterns of macrozoobenthos in Lake Chaohu (China). *Aquatic Biology* 17(1): 35-46.
- Camara, I.A.; Diomande, D.; Bony, Y.K.; Ouattara, A.; Franquet, E.; Gourene, G. 2012. Diversity assessment of benthic macroinvertebrate communities in Banco National Park (Banco Stream, Cote d'Ivoire). *African Journal of Ecology* 50(2): 205-217.
- Camusso, M.; Polesello, S.; Valsecchi, S.; Vignati, D.A.L. 2012. Importance of dietary uptake of trace elements in the benthic deposit-feeding *Lumbriculus variegatus*. *Trac-Trends In Analytical Chemistry* 36: 103-112.
- Cantonati, M.; Fureder, L.; Gerecke, R.; Juttner, I.; Cox, E.J. 2012. Crenic habitats, hotspots for freshwater biodiversity conservation: toward an understanding of their ecology. *Freshwater Science* 31(2): 463-480.
- Caramelo, C.; Martínez-Ansemil, E. 2012. Morphological investigations of microdrile oligochaetes (Annelid, Clitellata) using scanning electron microscopy. In: Çolack, E.; Arslan, N.; Wetzel, M.J.; Timm, T.; Wang, H.-Z.; Pinder, A.; and Schenková, J. (eds.). *Aquatic Oligochaete Biology XI. Proceedings of the 11th International Symposium on Aquatic Oligochaeta held in Alanya, Antalya, Turkey, 5-10 October 2009*. viii + 145 pp. *Turkish Journal of Zoology* 36(1): 1-14.
- Carlson, P.E.; Johnson, R.K.; McKie, B.G. 2013. Optimizing stream bioassessment: habitat, season, and the impacts of land use on benthic macroinvertebrates. *Hydrobiologia* 704(1): 363-373.
- Cech, G.; Boros, G.; Dózsa-Farkas, K. 2012. Revision of *Bryodrilus glandulosus* and *Mesenchytraeus kuehneli* (Oligochaeta: Enchytraeidae) using morphological and molecular data. *Zoologischer Anzeiger* 251(3): 253-262.
- Celeste Galizzi, M.; Zilli, F.; Marchese, M. 2012. Diet and functional feeding groups of Chironomidae (Diptera) in the Middle Parana River floodplain (Argentina). *Iheringia Serie Zoologia* 102(2): 117-121.
- Chanabun, R.; Bantaowong, U.; Sutcharit, C.; Tongkerd, P.; James, S.W.; Panha, S. 2012. A new species of semi-aquatic freshwater earthworm of the genus *Glyphidrilus* Horst, 1889 from the Mekong River (Oligochaeta: Almididae). *Raffles Bulletin of Zoology* 60(2): 265-277.
- Chanabun, R.; Sutcharit, C.; Tongkerd, P.; Tan, S.H.A.; Panha, S. 2012. Three new species of semi-aquatic freshwater earthworms of the genus *Glyphidrilus* Horst, 1889 from Malaysia (Clitellata: Oligochaeta: Almididae). *Zootaxa* (3458): 120-132.
- Chiu, K.H.; Lin, C.-R.; Huang, H.-W.; Shiea, J.; Liu, L.L. 2012. Toxic effects of two brominated flame retardants BDE-47 and BDE-183 on the survival and protein expression of the tubificid *Monopylephorus limosus*. *Ecotoxicology and Environmental Safety* 84: 46-53.
- Christensen, B.; Dózsa-Farkas, K. 2012. A new genus *Globulidrilus* and three new enchytraeid species (Oligochaeta: Enchytraeidae) from Seoraksan National Park (Korea). *Journal of Natural History* 46(45-46): 2769-2785.

**Annelida: Oligochaetous Clitellata.**

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- Christoffersen, M.L. 2012. Phylogeny of basal descendants of cocoon-forming annelids (Clitellata). In: Çolack, E.; Arslan, N.; Wetzel, M.J.; Timm, T.; Wang, H.-Z.; Pinder, A.; and Schenková, J. (eds.). Aquatic Oligochaete Biology XI. Proceedings of the 11th International Symposium on Aquatic Oligochaeta held in Alanya, Antalya, Turkey, 5-10 October 2009. viii + 145 pp. Turkish Journal of Zoology 36(1): 95-119.
- Coates, K.A. 1983. A contribution to the taxonomy of the Enchytraeidae (Oligochaeta). Review of *Stephensoniella*, with new records. Proceedings of the Biological Society of Washington 96(3): 411-419.
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**Annelida: Oligochaetous Clitellata – megadrile oligochaetes.**

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**Oligochaetous Clitellata – megadrile oligochaetes (terrestrial, semi-terrestrial earthworms)**

This section includes citations for a few papers that were in my bibliographic database. Please visit the index for the journal, *Megadrilologica* to access citations for additional papers on megadriles published therein: <http://www.inhs.uiuc.edu/~mjwetz/JMEG.Index.html>

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**Annelida: Oligochaetous Clitellata – megadrile oligochaetes.**

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**ANNELIDA (Hirudinida) – William E. Moser and Fredric R. Govedich.**


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*The SFS Literature Review Committee extends our appreciation to Dr. Donald J. Klemm, who compiled the literature for this leech section since 1973, and then in collaboration with Bill Moser since 2000. Don relinquished his 'attachment' to this section after contributing to the 2011 (for 2010) annual bibliography, passing the opportunity to Fred Govedich.*

Leech studies included here are both aquatic and terrestrial, and covered in the bibliography are bioassessment, ecology, embryology, environmental and industrial toxicology, medicine, morphology, parasitology, physiology, systematics, and taxonomy. The leech bibliography is intended to help keep students and biologists current with the leech literature. It is also provided to assist the user in selecting information from the literature to help in evaluating data collected during studies of water quality in lentic and lotic habitats, and of the effects of toxic substances and other pollutants on the ecological integrity and health of indigenous populations and communities of macroinvertebrates, including the leeches.

Researchers should send copies of their papers [paper reprint or as pdf via an email attachment] to both Bill Moser and Fred Govedich to ensure that they are included accurately in future leech bibliographies; their contact information is provided in the Table of Contents at the beginning of this compilation. The reprints and pdfs are greatly appreciated.

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**PLECOPTERA – Bill P. Stark and Boris C. Kondratieff**


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**EPHEMEROPTERA – Luke M. Jacobus**


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[citations have been categorized in three subsections, below]

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**TRICHOPTERA – Andrew P. Nimmo**


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Where known, I have provided references at the end of each citation to ‘abstracting organs’ referencing said paper. Print versions of these were no longer available to me at the University of Alberta -- I have access to electronic versions only. Zoological Record appears to be the only ‘abstracting organ’ supplying volume numbers. Otherwise I can only provide accession numbers (*an*), hoping these may be of use in searching for abstracts of papers. These abstracting organs are: BP [Biological Previews, formerly BA - Biological Abstracts]; ZR *an* [Zoological Record]; TN [Trichoptera Newsletter, now Braueria]. The plethora of, largely awkward, contractions for entries received from Cambridge Scientific Abstracts have been modified herein with simple inclusion of ‘CSA*an*’, as I realised that papers registered by CSA had only one ‘*an*’ regardless of how many of their organs recorded the paper.

Some authors with more than one initial may (may not) use their extra initial(s). Such initials, where omitted by the author in some papers, are given in square brackets thus ‘[A.]’. All papers by a particular author are grouped together in the list as if all initials were given in all papers. Where author names are given in square brackets, thus ‘[. .]’, the name is not given in the publication, but is known to me. -- *Andy Nimmo*.

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## Diptera: Ceratopogonidae.

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**DIPTERA: Ceratopogonidae** – Donald W. Webb<sup>†</sup> and Beth Wohlgemuth, Illinois Natural History Survey. *A short dedicatio to Don, who passed away on 5 September 2012, is presented on page 1 of the previous (2012 for 2011) annual bibliography. Please contact Mark if you are interested in compiling the Ceratopogonidae section for the years 2014 (and beyond) as a member of SFS Literature Review Committee.*

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## Diptera: Chironomidae.

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**DIPTERA: Chironomidae** – Donald W. Webb<sup>†</sup> and Beth Wohlgemuth, Illinois Natural History Survey. *A short dedicatio to Don, who passed away on 5 September 2012, is presented on page 1 of the previous (2012 for 2011) annual bibliography. Please contact Mark if you are interested in compiling the Chironomidae section for the years 2014 (and beyond) as a member of SFS Literature Review Committee.*

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**MOLLUSCA – Kevin S. Cummings**


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The following section lists papers dealing with freshwater mollusks that have been published up to and including 2012; citations included herein have not appeared in previous SFS bibliographies. Citations for Aquatic Mollusca will be divided into five groupings for the convenience of researchers: Unionoida, Sphaeriidae, Corbiculidae, Dreissenidae & other Bivalves, and Gastropoda. Those papers listing taxa from more than one of the above categories will be included in each grouping. A web searchable database of over 22,000 references on freshwater mollusks (including all previous SFS bibliographies on freshwater mollusks) can be found at: <http://ellipse.inhs.uiuc.edu:591/mollusk/biblio.html>.

To insure that papers are cited correctly, researchers are encouraged to send pdfs or reprints to: Kevin S. Cummings, Illinois Natural History Survey, Prairie Research Institute at the University of Illinois at Urbana-Champaign, 1816 South Oak Street, Champaign, IL 61820. E-mail: [ksc@inhs.illinois.edu](mailto:ksc@inhs.illinois.edu)

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[citations divided into five groupings, below]

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**METHODS AND TECHNIQUES – Paul K. Sibley.**


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[citations divided into 13 subsections, below]

- Sampling, Sample Processing and Taxonomic/Systematics Methods (1)**
  - Experimental Design, Data Analysis, Statistical, and Modeling Techniques (2)**
  - Environmental Monitoring and Assessment (3)**
  - Environmental Management, Habitat Restoration, and Conservation Techniques (4)**
  - Techniques in Environmental Toxicology (5)**
  - Environmental Chemistry and Isotope Methods (6)**
  - Biochemistry, Physiology, Molecular and Genetic Methods (7)**
  - Hydrological and Sedimentology Methods (8)**
  - Remote Sensing and Telemetry Methods (9)**
  - Methods in Aquatic and Environmental Microbiology (10)**
  - Methods in Aquatic Algology/Phycology/Botany (11)**
  - Methods in Fish/Fisheries Biology (12)**
  - Miscellaneous Techniques (13)**
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**ENVIRONMENTAL REQUIREMENTS – Paul M. Kotila.**


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