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

[published in August 2015]

**Society for Freshwater Science**Formerly *North American Benthological Society*<http://www.freshwater-science.org>

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**In Memoriam: Dr. Andrew (Andy) P. Nimmo (1938–2015).**

The past and present members of the SFS Literature Review Committee dedicate this bibliographic compilation for the year 2013 to Dr. Andy P. Nimmo, who passed away on 14 May 2015. Andy served as a dedicated member of this committee for 30 years, compiling and contributing the Trichoptera sections for the years 1984 through 2013. He is survived by his wife, Carita Nybom, daughters Alice (Douglas James) and Emma Nimmo, and grandchildren Gillian and Thomas Nimmo-James. He is warmly remembered by his many friends and colleagues throughout the global Trichoptera community, as well as in Edmonton where he lived, at the University of Alberta, and by members of this Society.

An extensive memoriam prepared by colleagues Bruce Heming and David Ruitter (from which the above information has been taken) will be published in an upcoming issue of SFS' journal, *Freshwater Science*.

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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 during the year (2013). Additionally, pertinent titles of articles published prior to 2012 also have been included if they had not been cited in previous reviews, or to correct errors in previous annual bibliographies, and authors of several sections have included citations for recent (2014–) publications. I extend my appreciation to past and present members of the MBS, NABS and SFS Literature Review and Publications Committees and the Society presidents for their support, to librarians Elizabeth Wohlgemuth (Illinois Natural History Survey) and Susan Braxton (Prairie Research Institute) for their assistance in accessing journals, other publications, bibliographic search engines and abstracting resources, and rare publications critical to the compilation and verification of citations included herein, and to Kristi L. Moss for her assistance during the editing and compilation of sections included in this annual bibliography. Additional information on SFS membership (including on-line and downloadable print/mail membership forms) is available here: <http://www.freshwater-science.org/About/About-SFS-Membership.cfm>, or contact: **SFS Membership Services**, 5005 Old Main Hill, Logan, UT 84322 USA; Phone: (435) 797-7902; Email: [sfsmembership@usu.edu](mailto:sfsmembership@usu.edu)

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### Please Read These Notes:

Historically, annual compilations of this bibliography were presented in a two-column format. However, the annual NABS / SFS bibliography has not been published / available in a printed format (7-7/8" x 10", soft cover) since 2002. This current bibliography is being presented in a single column, full-page width format. The keen eye will discern slight variations in citation style (within and between sections). Many section authors 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) -- a citation format that was best for the database at that time). Other perennial members of this committee have provided citations formatted differently (likely congruent with their own preferred bibliographic database formats). Resolution: 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 have discussed options regarding the future of this annual bibliography with the Society's Publications Committee, and have been searching to rediscover past annual compilations (1993–2002) that have not been included in the searchable database (1959–1992) nor as yet available 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](#); it is 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 literature compilations (years 1965 through ~1975, so please contact me if you have copies. Patina Mendez (SFS Webmeister) and Deb Finn (*In The Drift* Newsletter editor) recently posted (via the society website and the newsletter) my request to members for these older documents. Once received, these documents will be scanned to PDF documents, then 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 on this committee is extensive, I strongly encourage each of them to contact me with their years of service on this committee.

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 – NABS/SFS Annual Bibliography, and Chair, SFS Literature Review Committee. E-mail: [mjwetzel@illinois.edu](mailto:mjwetzel@illinois.edu)**

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**ANNELIDA: Acanthobdellida, Branchiobdellida, oligochaetous Clitellata (microdriles and megadriles), Polychaeta, miscellaneous Annelida, and general interest publications – Mark J. Wetzel**

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**Introduction.**

The Annelida sections of previously published NABS and SFS bibliographies (compilations for the years 1992 through 2009 are located in the [bibliographic section of The INHS Center for Annelida Resources website](#). Recent annual compilations for 2010 through 2012, and 2013 (presented herein) are being combined and will soon be accessible 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: microdrile oligochaetes and megadrile oligochaetes), **Polychaeta**, and **miscellaneous Annelida** (e.g., Archiannelida, Echiura, Myzostomida, Pogonophora, Sipuncula, and Vestimentifera -- primarily systematic papers describing new taxa). A **general interest section** has also been included for interesting papers not necessarily focused on annelids. Papers discussing taxa from more than one of the above groups will be included with each of those group compilations, below.

Authors should send reprints of their publications [PDF preferred] to me to ensure accurate inclusion in future bibliographies, and that 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*.

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**Acanthobdellida**

Kaygorodova, I.A.; Dzyuba, E.V.; Pronin, N.M. 2012. Leech-like parasites (Clitellata, Acanthobdellida) infecting native and endemic eastern Siberian salmonid fishes. *The Scientific World Journal* 2012, Article ID 652827, doi:10.1100/2012/652827.

Timm, T. 2012. Life forms in Oligochaeta: a literature review. *Zoology in the Middle East* 58 (Suppl. 4): 71-82.

Urbisz, A.Z.; Świątek, P. 2013. Ovary organization and oogenesis in two species of Lumbriculida (Annelida, Clitellata). *Zoology* 116(2): 118-128.

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.

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**Annelida: Branchiobdellida and Oligochaetous Clitellata (microdriles)**

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- Agbo, S.O.; Keinanen, M.; Keski-Saari, S.; Lemmetyinen, J.; Akkanen, J.; Leppanen, M.T.; Mayer, P.; Kukkonen, J.V.K. 2013. Changes in *Lumbriculus variegatus* metabolites under hypoxic exposure to benzo(a)pyrene, chlorpyrifos and pentachlorophenol: Consequences on biotransformation. *Chemosphere* 93(2): 302-310.
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- Atanackovic, A.D.; Sporka, F.; Csanyi, B.; Vasiljevic, B.M.; Tomovic, J.M.; Paunovic, M.M. 2013. Oligochaeta of the Danube River - a faunistical review. *Biologia (Bratislava)* 68(2): 269-277.
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- Blakemore, R.J.; Lee, W.; Ryu, J.-S.; Ahn, M.-H.; Kim, S.R. 2013. Accidental vaginal parasitism by oligochaete worms (Annelida: Oligochaeta). *Opuscula Zoologica* 43(2): 197-201.
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**Miscellaneous Annelida; general interest publications.**

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**Miscellaneous Annelida (including Archiannelida, Echiura, Myzostomida, Pogonophora, Sipuncula, and Vestimentifera -- primarily systematic papers describing new taxa).**

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**General Interest Publications.**

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- Straube, D.; Juen, A. 2013. Storage and shipping of tissue samples for DNA analyses: A case study on earthworms. *European Journal of Soil Biology* 57: 13-18.
- Zhang, Z.-Q. 2012. Editorial. A new era in zoological nomenclature and taxonomy: ICZN accepts e-publication and launches. *ZooBank Zootaxa* 3450: 8.

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


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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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- Bahmani, M., H. Golshani, F. Ghotbian, and F. Bahmani. 2013. Internal hirudiniasis in a hen (*Gallus gallusdomesticus*) -The first report in literature. *Asian Pacific Journal of Tropical Disease*. 3(3):232-234.
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- Gouda, H.A. 2013. Spermatogenesis, Spermiogenesis and Sperm Transfer in Two Freshwater Leeches from Assiut, Egypt. *Research in Zoology*. 3(2):45-55.
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**Annelida: Hirudinida.**

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- Jader Rivera-Usme, J.; Antonio Pinilla-Agudelo, G.; Orlando Rangel-Ch, J. 2013. Assemblage of aquatic macroinvertebrates and its relationship with physical and chemical variables in the wetland Jaboque-Colombia. *Caldasia* 35(2): 389-408.
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**EPHEMEROPTERA – Luke M. Jacobus**


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**ODONATA – No contribution for this section was received for inclusion in this year’s annual bibliography; however, in last year’s compilation (for the year 2012) by John Abbott included citations for many papers published in 2013, and those have been presented, again, below; several citations that were incorrect or incomplete in the compilation for 2012...have also been corrected.**

Please contact Mark if you are interested in compiling this section section for the years 2014 and 2015 as a member of SFS Literature Review Committee.

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**TRICHOPTERA – Andrew P. Nimmo<sup>†</sup>**


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Where known, I [Andy] 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 ‘CSAan’, 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<sup>†</sup>*.

***Important note from editor M.J. Wetzel:*** *As noted on the first page of this annual bibliographic compilation, Andy Nimmo – who compiled this section on Trichoptera for the years 1984 through 2013 – passed away on 14 May 2015. If you are interested in serving on this committee and as compiler for the section on Trichoptera for the years 2014 and 2015, please contact me (MJW).*

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**MEGALOPTERA – Jeffrey S. Heilveil.**


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**DIPTERA: Ceratopogonidae** – Beth Wohlgenuth, Illinois Natural History Survey, Librarian. Please contact Mark if you are interested in compiling the Ceratopogonidae section (for the years 2014 and 2015) as a member of SFS Literature Review Committee.

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**DIPTERA: Chironomidae** – Beth Wohlgemuth, Illinois Natural History Survey Librarian. *Please contact Mark if you are interested in compiling the Chironomidae section for the years 2014 and 2015 as a member of SFS Literature Review Committee.*

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**DIPTERA: Other dipteran groups – No contribution for this section received this year. *Please contact Mark* if you are interested in compiling this section for upcoming 2014 and 2015 annual bibliographies as a member of the SFS Literature Review Committee.**

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**MOLLUSCA – Kevin S. Cummings**


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The following are papers on freshwater mollusks that have been published up to and including 2013 that have not appeared in previous Freshwater Science bibliographies. Citations for Aquatic Mollusca will be split into five groups for the convenience of researchers: **Unionoida**, **Sphaeriidae**, **Corbiculidae**, **Dreissenidae & other Freshwater Bivalves**, and **Gastropoda**. Those papers which list taxa from more than one of the above categories will be included in each group. A web searchable database of over 23,000 references on freshwater mollusks (including all previous NABS/Freshwater Science 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 pdf's or reprints to:

Kevin S. Cummings, Illinois Natural History Survey, 607 E. Peabody Dr., Champaign, IL 61820.  
email: [kscummin@illinois.edu](mailto:kscummin@illinois.edu).

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**Acarina.**

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**ACARINA: No contribution for this section received this year.** A few citations, included in other sections, are presented below. Please contact Mark if you are interested in compiling this section section for the years 2014 and 2015 as a member of SFS Literature Review Committee

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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)**
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  - Biochemistry, Physiology, Molecular and Genetic Methods (7)**
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  - 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.**

**ENVIRONMENTAL REQUIREMENTS – *No contribution for this section received this year. Please contact Mark if you are interested in compiling this section for the years 2014 and 2015 as a member of SFS Literature Review Committee***

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**MACROINVERTEBRATE TOXICOLOGY:** *No contribution for this section received this year. Please contact Mark if you are interested in compiling this section for upcoming annual bibliographies as a member of SFS Literature Review Committee.*

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**END – – SFS Annual Literature Review Compilation for the year 2013.**