

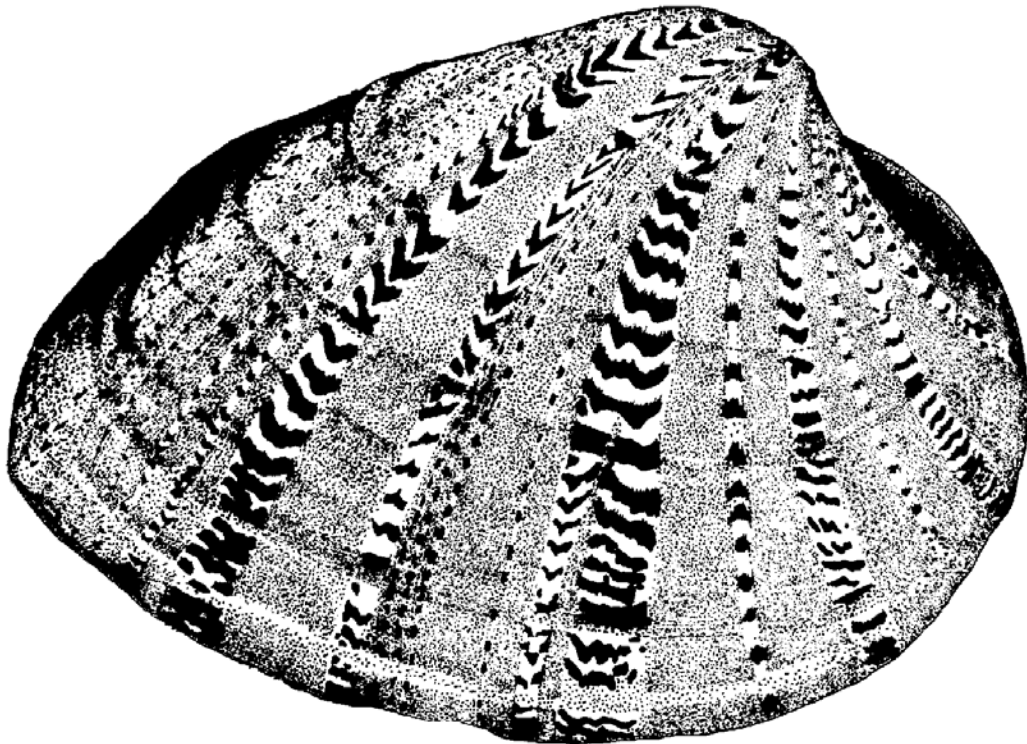
# *Ellipsaria*

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The Newsletter of the Freshwater Mollusk Conservation Society

Volume 5 - Number 2

August 2003



*In this issue:*

**Workshops!**

**Bibliography**

**Membership List**

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Submissions for the December 2003 issue of *Ellipsaria* can be sent in at any time but are due by November 7, 2003. Anyone may submit an article but you must be a member of FMCS to receive *Ellipsaria*. Categories for contributions include news, new publications, meeting announcements, current issues affecting mollusks, job postings, contributed articles (including ongoing research projects), abstracts, and society committee reports. Electronic submissions are preferred; please send submissions to the editor. Submissions to *Ellipsaria* are not peer reviewed, but are checked for content and general editing. Please send change of address information to the Secretary, Rita Vilella.

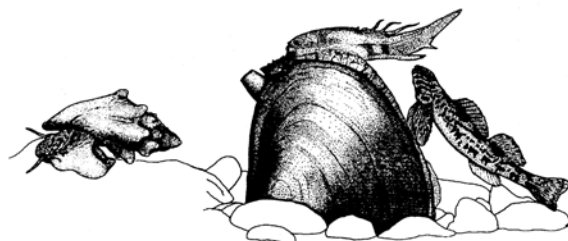
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Freshwater Mollusk Conservation Society



### Workshop on Conservation Genetics of Freshwater Mollusks and Fishes

The Freshwater Mollusk Conservation Society and U.S. Fish and Wildlife Service will conduct a two-day workshop on conservation genetics, June 29-30, 2004, at the National Conservation Training Center, Shepherdstown, West Virginia. A flyer will be included in the next issue of *Ellipsaria* to announce registration, costs, and program details. The goal of the workshop is to provide resource managers and field biologists an opportunity to learn about and discuss conservation genetic issues with an emphasis on practical genetic principles relevant to recovery of rare freshwater mollusks and fishes in the United States, in an environment that minimizes technical jargon. The science of conservation genetics is an important and rapidly emerging discipline being incorporated into natural resource management programs. Because experience in conservation genetics of freshwater taxa is still in its infancy, invited speakers will share their experience in research and management of endangered fish, marine bivalves, freshwater mollusks, and other organisms.

The program will consist of eight to ten platform presentations each day. Talks presented the first day will introduce the basics of quantitative genetics, molecular genetics, species concepts, phylogenetic and taxonomic analysis, phylogeography, and genetic management guidelines for captive propagation and stocking of endangered species. In the evening of the first day, a computer laboratory demonstration will be conducted to introduce and explain to non-geneticists the basic software and statistical methods used to analyze genetic data. Case studies will be presented the second day to demonstrate how the science of conservation genetics is applied to understand the biology and to manage populations of mollusks and fishes.

A discussion at the end of the second day will give attendees the opportunity to question the presenters and clarify the implications of concepts, as applied to their own species' problems. This will provide the opportunity to have experienced geneticists give you professional advice. This discussion also will be an ideal time to solicit input and promote acceptance of guidelines under development for propagation and stocking of endangered freshwater species. Any comments or questions about the workshop are to be forwarded to Dr. Richard Neves at [mussel@vt.edu](mailto:mussel@vt.edu).

*Submitted by Jess Jones*

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## Gastropod Workshop

The Freshwater Mollusk Conservation Society will be hosting a workshop on gastropods in early 2004. More information will be sent to the membership in a separate mailing soon. Current plans include a general gastropod identification session, invited speakers with talks focusing on topics including biology, ecology, physiology, propagation, genetics, and conservation, and a review of a draft national conservation strategy for gastropods. For further information on the workshop, contact Paul Johnson at [pdj@tennis.org](mailto:pdj@tennis.org).

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### *Walkerana*

This is the First Call for Papers for submission to *Walkerana*, soon-to-be the new journal of the FMCS (see the Information Exchange Committee report for more details). We will also be soliciting papers from authors directly in order to get things started. The process (at least initially): manuscripts will be sent to the editor-in-chief, who will route them to an associate editor, who will in turn send them out for review. The associate editor will compile the reviews and send the manuscript back to the editor-in-chief with a recommendation to publish, revise, or reject. The editor-in-chief will make the final call. Dr. Burch has indicated that he wants to finish up with this year's issues (2003), so we plan to begin publishing in 2004. Please send papers or questions to:

Kevin Cummings  
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Illinois Natural History Survey  
607 E Peabody Dr.  
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217-333-1623  
[ksc@inhs.uiuc.edu](mailto:ksc@inhs.uiuc.edu)

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### Strayer and Smith Mussel Sampling Guide

Each current FMCS member has received a copy of "A Guide to Sampling Freshwater Mussel Populations" with this newsletter. The guide is written by David L. Strayer and David R. Smith and published by the American Fisheries Society in June 2003.

Additional copies are can be purchased from AFS:  
<http://www.fisheries.org/publications/catbooks/x52008.shtml>

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## FMCS Committee Reports

### Guidelines and Techniques Committee Report

Final versions of the mussel valuation and kill assessment documents were provided to the American Fisheries Society for inclusion in the update of AFS Special Publication 24, "Investigation and Valuation of Fish Kills". The updated publication is expected to be available in August.

*Submitted by John Van Hassel*

### Information Exchange Committee Report

As mentioned in the last newsletter, a brief meeting of the Information Exchange Committee was held at the March meeting in Raleigh. Most of the discussion centered on the FMCS launching/taking over the journal *Walkerana*. Tom Watters, Dan Graf, and myself have had discussions with current editor Dr. Jack Burch of the University of Michigan who has kindly agreed to help shepherd us along the way.

As incoming editor, I have set up a draft editorial board for *Walkerana*. I looked over the title pages of a number of journals and came up with a structure that includes an Editor-in-Chief, Production Editor, Consulting Editor, and an as-yet undefined number of Associate Editors. I will be contacting some of you to serve as associate editors in the near future. I am still open to suggestions on other editors or formats so please pass along any ideas you have.

We hope to produce one volume with two issues per year. However, this is a work in progress and we will see how things develop. We certainly don't want to burden the FMCS with a journal we all wouldn't be proud of or something that drains the Society of funds so we are taking this one step at a time.

A call for papers appears in this newsletter, with a general overview of how we plan to proceed. Please keep in mind that things are flexible at this point and we will adjust as the need arises.

*Submitted by Kevin Cummings*

### Outreach Committee Report

A brochure that explains the society and includes a membership form will be printed soon and will be available for distribution - contact Kurt Welke for more information.

Kurt will be attending the 134th Annual AFS meeting in Quebec and "pressing the flesh" on mussels and the society to the fisheries world.

*Submitted by Kurt Welke*

### Propagation, Restoration, and Introduction Committee Report

See article on Genetics Workshop, page 1.

## News

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### Mollusk Collections at the Carnegie Museum of Natural History

The Mollusk collection at the Carnegie Museum of Natural History is becoming organized and computerized after 20 years (1982 to 2002) without a curator. The extensive and worldwide collection of Unionoidea is strong, especially for Pennsylvania and surrounding states, and includes large numbers of specimens from the early 1900s collected by Arnold E. Ortmann.

The Unionidae have been updated to modern nomenclature and are now organized alphabetically by genus and species to facilitate locating species. The collection includes hundreds of alcohol specimens from the early 1900s. The Unionoidea are about 40% computerized (4603 of about 11,467 lots).

The freshwater gastropods are about 15% computerized (1747 of about 11,685 lots) with best representation being the pulmonate families Lymnaeidae, Physidae, and Planorbidae, and the operculate families Hydrobiidae, Pleuroceridae, and Viviparidae. Various malacologists have deposited freshwater gastropods in the Carnegie, including Ortmann, V. Sterki, and H.H. Smith. Computerization is proceeding haphazardly through the collection (from data ledgers), so no family (and no genus of Unionidae) is completely computerized yet.

Send inquiries for database searches, curation inquiries, or other information requests to:

Tim Pearce, Assistant Curator of Mollusks  
Carnegie Museum of Natural History  
4400 Forbes Ave.  
Pittsburgh, PA 15213, USA  
phone: 412-622-1916  
fax: 412-622-8837  
e-mail: PearceT@CarnegieMuseums.org

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### Online Gallery of Freshwater Mussels

The Mollusc Division of the Ohio State University Museum of Biological Diversity now has an online gallery of freshwater mussels from our collection. Over 500 species are illustrated. Let us know if you encounter any problems viewing the pages or find any errors. New taxa will be added as they become available. Photos are not copyrighted, but we know where you live.

The gallery may be accessed through:  
<http://www.biosci.ohio-state.edu/~molluscs/OSUM2>

## Serious Loss of *Margaritifera auricularia* in its Principle Stronghold

Maintenance work at the Canal Imperial de Aragón has left a section of the canal inhabited with *Margaritifera auricularia* without water, decimating the largest population of this freshwater mollusc to the brink of extinction. According to Aragonese conservationists, this loss could have been avoided with better administrative coordination.



For more information, contact:  
Dr. Rafael Araujo  
Museo Nacional de Ciencias Naturales (C.S.I.C.)  
c/ José Gutiérrez Abascal 2  
28006 Madrid, Spain  
Tel: 914111328 Fax: 915645078  
iagudo@lycos.com

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## Publications

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Greseth, S.L., Cope, W.G., Rada, R.G., Waller, D.L., and Bartsch, M.R. 2003. Biochemical composition of three species of unionid mussels after emersion. *Journal of Molluscan Studies*. 69(2):101-106.

Contact Greg Cope (919-515-5296 or greg\_cope@ncsu.edu) to obtain a reprint of this article.

Zimmerman, L.L., R.J. Neves, and D.G. Smith. 2003. Control of predacious flatworms *Macrostomum* sp. in culturing juvenile freshwater mussels. *North American Journal of Aquaculture* 65(1): 28-32.

Gatenby, C.M., D.M. Orcutt, D.A. Kreeger, B.C. Parker, V.A. Jones, and R.J. Neves. 2003. Biochemical composition of three algal species proposed as food for captive freshwater mussels. *Journal of Applied Phycology* 15(1):1-11.

Zimmerman, L.L., and R.J. Neves. 2002. Effects of temperature on duration of viability for glochidia of freshwater mussels (Bivalvia: Unionidae). *American Malacological Bulletin* 17(1-2):31-35.

Jones, J.W., and R.J. Neves. 2002. Life history and propagation of the endangered fanshell pearlymussel (*Cyprogenia stegaria* Rafinesque) (Bivalvia: Unionidae). *Journal of the North American Benthological Society* 21(1):76-88.

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# Contributed Articles

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## Mussel Studies

Steve Ahlstedt

U. S. Geological Survey, Knoxville, TN 37921

ahlstedt@usgs.gov

### Big South Fork Cumberland River, TN and KY

The mussel survey of the Big South Fork has been completed and a draft is being reviewed. This was a project funded by the National Park Service. Twenty-six species were found including five federally listed species: *Alasmidonta atropurpurea*, *Epioblasma brevidens*, *E. walkeri*, *Pegias fabula*, and *Villosa trabilis*. All five listed species are recruiting in the river along with some of the other mussels. The Big South Fork contains the largest extant populations for *P. fabula* and may be considered the best mussel fauna remaining in the upper Cumberland River system.

### Duck River, TN

The freshwater mollusk survey of the Duck River, including a few collecting sites on the Buffalo River, is completed. Information is being tabulated and report preparation is in progress. This is a three-year Nature Conservancy project that is being done jointly with Dr. Paul Johnson, Tennessee Aquatic Research Unit, Cohutta, Georgia.

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Survey work will continue on the Cumberland Plateau and in the lower Tennessee, Cumberland, and Mobile River basins to find T & E species and identify habitats for mollusk restoration. This is a Species at Risk project funded by the USGS and USFWS.

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## Discovery of a New Population of Endemic *Lampsilis bracteata* in Central Texas, with Comments on Species Status

Robert G. Howells<sup>1</sup>, James L. Dobie<sup>2</sup>, William L. Lindemann<sup>3</sup>, and Jane A. Crone<sup>4</sup>

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<sup>2</sup>211 South Spanish Oak Trail, Kerrville, Texas 78028; Professor Emeritus, Dept. of Zoology and Wildlife Science, Auburn University, Auburn, Alabama; wjdobie@ktc.com;

<sup>3</sup>884 Loudon Road, Fredericksburg, Texas 78624; wlljhl@ktc.com;

<sup>4</sup>980 Dinosaur Ranch Road, Harper, Texas 78631; jjcrone@hctc.net

Texas fatmucket (*Lampsilis bracteata*) is endemic to portions of the Guadalupe-San Antonio and Colorado River

drainages of Central Texas, with an apparent historic record (as *L. streckeri*) from the central Brazos River system (Howells et al. 1996). Habitat loss and modification in conjunction with droughts and floods have dramatically reduced its numbers in recent years. Howells et al. (1997) documented only one location (Runnels County) throughout its historic range where survivors had been found from 1978 through 1995. Living specimens were confirmed at three additional sites (Kerr, Menard, and Tom Green counties) over the next few years. However, all four locations suffered major disturbances from floods, droughts, or both since 1999, and three of these may no longer support this or other unionids. Following record floods in July 2002, J.L. Dobie collected a series of recently dead Texas fatmucket shells (with dried soft tissue attached) at a fifth location (Gillespie County). Reexamination of the Gillespie County location in July 2003 produced a single living specimen and several additional recently dead shells or valves.

Recently recognized populations and their currently known status include:

Colorado River tributary, Runnels County, Texas: This stream dewatered extensively, if not completely, in late 1999 and early 2000. This was followed by extensive flood scouring in late 2000 and early 2001. When examined by J.A.M. Bergmann (pers. comm.) in July 2001, no living or recently dead specimens could be found and the stream had suffered major morphological alterations. Either this population has been lost entirely or reduced to a small number of survivors that have not yet been detected.

Concho River tributary, Tom Green County, Texas: Local musselers reported this small stream dried completely in 1999 and 2000. It is questionable whether any unionids could have survived and none have been reported since.

San Saba River, Menard County, Texas: This small population was last surveyed in 1997. Water levels were reduced at times during recent droughts and the site experienced flooding in early 2000. However, based on the morphology of the river bottom and banks, local mussels would have been expected to experience limited flood-related losses and survivors likely still persist here.

Guadalupe River, Kerr County, Texas: This population was discovered in late 1996, but lost in 1998 when the City of Kerrville drew down the level of the Guadalupe River to build a foot bridge in a local park. At the time, dead Texas fatmuckets were found in dewatered areas. No trails were discovered to indicate any had followed declining water levels and this population is presumed to have been eliminated. Shell fragments reported further upstream could suggest there may still be survivors in the system, but none have been confirmed to date.

Pedernales River tributary, Gillespie County, Texas: This population was not discovered, although the area had been previously surveyed, until flood waters stranded specimens in 2002. The recent collection of only a single living

specimen suggests that if others do persist at this site, their numbers must be limited.

Despite the obvious rarity of Texas fatmucket, it is not listed as threatened or endangered under state or federal regulations. Indeed, the only legal protection that applies is a minimum harvest size of 63.5 mm in shell height. Although this species grows larger than some sources would suggest, few if any ever reach legally harvestable sizes. Neither state nor federal agencies have recovery plans in place or under development.

#### References:

- Howells, R.G., R.W. Neck, and H.D. Murray. 1996. Freshwater mussels of Texas. Texas Parks and Wildlife Department Press, Austin.
- Howells, R.G., C.M. Mather, and J.A.M. Bergmann. 1997. Conservation status of selected freshwater mussels in Texas. Pages 117-128 in K.S. Cummings et al. Symposium on the Conservation and Management of Freshwater Mussels II: Initiatives for the Future. UMRCC, Rock Island, Illinois.

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## Range Extension For *Cyrtonaias tampicoensis* in Texas

Robert G. Howells<sup>1</sup> and Andrew J. Tirpak<sup>2</sup>

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<sup>2</sup> Texas Parks and Wildlife Department, Resource Protection Division, 1502 Pine Drive, Dickinson, Texas 77539; Andy.Tirpak@tpwd.state.tx.us

Tampico pearlymussel (*Cyrtonaias tampicoensis*) is native from the Brazos River basin of Central Texas south and west into northeastern Mexico (Howells et al. 1996; Howells 2001) and south along the east coast of Mexico to the Rio Paploapan system, Vera Cruz (Johnson 1999). Two unsuccessful introductions outside its native range were previously reported (Howells et al. 1996). During surveys in Texas in the late 1960s, H.D. Murray collected the species in the upper Trinity River, Tarrant County, Texas (Howells et al. 1996). Later, C.M. Mather (1989) documented a single live specimen at Lakeside on Lake Texoma (Red River drainage), Bryan County, Oklahoma, in 1983. Numerous collections by Texas Parks and Wildlife Department (TPWD) personnel in both the Red and Trinity drainages from 1992 onwards failed to produce any evidence of other specimens in either system.

An additional living specimen (98 mm shell length) was found by A.J. Tirpak in the Lost River tributary of the Trinity River east of Houston (29°51'53.0"N, 94°45'30.0"W), Chambers County, Texas, on 28 April 2003. The specimen was morphologically similar to those from the Brazos and Colorado systems. A shell of Atlantic rangia (*Rangia cuneata*) was also found, but no additional unionids or their shells were collected.

Tampico pearlymussel has supported significant fisheries in Texas for gem-quality freshwater pearls since early colonial times (Howells 1996). It is possible that records outside its native range reflect intentional introductions related to establishing new pearl fisheries. Also, water from the Brazos River is moved via canal from an area southwest of Houston eastward between Houston and Galveston (Fort Bend, Brazoria, and Galveston counties) nearly to the western boundary of Galveston Bay. Tampico pearlymussel shells have been found in these canals. Gars (*Lepisosteus* spp.) hosting glochidia (Howells 1997) may have been able to travel from these canals, through the Galveston and Trinity Bay systems to the lower Trinity River drainage where the Lost River specimen was collected (ca 56 km).

#### References:

- Howells, R.G. 1996. Tampico pearlymussel (*Cyrtonaias tampicoensis*): shades of the Old West. *American Conchologist* 24(2):24-26.
- Howells, R.G. 1997. New fish hosts for nine freshwater mussels (Bivalvia: Unionidae) in Texas. *The Texas Journal of Science* 49:79-82.
- Howells, R.G. 2001. Status of freshwater mussels of the Rio Grande, with comments on other bivalves. Texas Parks and Wildlife Department, Austin.
- Howells, R.G., R.W. Neck, and H.D. Murray. 1996. Freshwater mussels of Texas. Texas Parks and Wildlife Press, Austin.
- Johnson, R.I. 1999. Unionidae of the Rio Grande (Rio Bravo del Norte) System of Texas and Mexico. *Occasional Papers on Mollusks, Museum of Comparative Zoology* 6(77):1-65.
- Mather, C.M. 1989. New bivalve records from Lake Texoma, Oklahoma – Texas. *The Southwestern Naturalist* 34:563-564.

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## Additional information concerning the conquest of Europe by the invasive Chinese Pond Mussel *Sinanodonta woodiana*

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The invasive Chinese Pond mussel *Sinanodonta woodiana* (Lea, 1834) seems to continue its spread in Europe. This review includes information about the first records from Belgium, new developments in Germany, and various information from Hungary and Slovakia.

#### First records from Belgium

Sablon (2002) has recorded the presence of *Sinanodonta woodiana* in a fishpond in Diest in the spring of 1999 and in a similar pond between Zonhoven and Zolder in January 2001. These are the first records of the Chinese Pond



mussel from Belgium. No information is given how these mussels managed to reach these ponds.

One of my Belgian correspondents, Marc Keppens, revisited the locality in Diest in May 2003 and was able to confirm the presence of this mussel. The locality serves as a rowing-pond, situated on the estate “de Halve Maan”. According to the director of the estate no exotic fish-species have been introduced in that particular pond, but a nearby fishpond is stocked annually with Trout in autumn. However, both ponds are connected below the surface by a conduit, therefore a faunal exchange must not be ruled out.

#### **New and old localities in Germany**

Pfeifer (2002) reported the presence of *Sinanodonta* in fishponds at two localities in the Oberlausitz-area in Dresden. In April 2000, empty shells of this mussel species were collected by Kerstin Tschiedel in the Salgaer Teich (=Pond), between Malschwitz and Gutttau, about 10 km NE of Bautzen. This was followed by the discovery of large numbers of empty valves in a drained complex of fishponds near Niedergurig, N.E. of Bautzen on May 3, 2001 by Matthias Pfeifer. Exotic carp species have not been introduced in these fishponds since 1992; the ponds have been stocked only with fingerlings reared from fry from locally bred carp. However, in the ponds, and later elsewhere in the vicinity of Bautzen, specimens were discovered of the Topmouth Gudgeon *Pseudorasbora parva*. This cyprinid fish species may act as an optional intermediate host for the glochidia of *Sinanodonta woodiana* (Fukuhara et al., 1986), although usually other cyprinids are preferred. So we may not rule out the possibility that *Pseudorasbora* served as intermediate host of *Sinanodonta* in the Oberlausitz-area.

Reichling (1999) reported the presence of *Sinanodonta woodiana* in the Seilersee, which was at that time the first known locality of the Chinese Pond mussel in Germany. In August 2001 the Little Seilersee, the so-called Fountain pond, was drained for clean up and some repair. Employees at a local hatchery caught all of the fish and also transferred some 200-300 living Pond mussels (species not known) to the nearby Great Seilersee. Mr. Reichling and his wife checked the empty Little Seilersee for the presence of freshwater molluscs in September and November. Only the shells of six species were found, including the common Pond mussel *Anodonta anatina*, but not a trace of *Sinanodonta*.

#### **Mollusc biocoenoses in the river Tisza, Hungary**

Bába, Sári & Tóth (2002\*\*) have studied the biocoenoses of freshwater molluscs in the Tisza, a river in Hungary, which has been contaminated with heavy metals for over 2000 years. Seven species of large freshwater mussels were encountered: three species of *Unio*, two of *Anodonta*, and one each of *Pseudanodonta* and *Sinanodonta*. The Chinese Pond mussel was only encountered at two localities in the vicinity of Algyő. At these two localities *Pseudanodonta complanata* was absent. *Sinanodonta woodiana* was not encountered where *Pseudanodonta* was present. The authors gave no further explanation of this interesting

situation, so it is not known whether this apparent exclusion is being caused by competition or by differences in the substrate in the river Tisza near Algyő.

#### **The mollusc fauna of the Danube in Slovakia**

Steffek & Lucivjanská (2002\*\*) give an updated review of the mollusc fauna of the Slovakian part of the river Danube. The Chinese Pond mussel is reported from two localities: Cicov and Chl'aba, which had already been mentioned by Kosel (1995 & 1999).

#### **Some additional remarks**

The conquest of Europe by the Chinese Pond mussel is far from over. Records from countries like the Netherlands, Spain, Portugal, Albania, and Greece are still lacking. This in spite of the fact that some of the exotic fish species which may serve as host species for the glochidia of *Sinanodonta woodiana* have been introduced in those countries.

Some hosts, like silver-, grass- and black carps, have also been introduced in the U.S.A. for biological control of organic debris, aquatic plants, and freshwater molluscs in so-called closed areas. In this way, occasional introductions of *Sinanodonta* may occur in the U.S.A. There is a rise in reports of catches of these introduced carp in natural waterways. These carps may cause havoc in the aquatic ecosystem of a lake, canal, or river. If the Chinese Pond mussel manages to establish itself in North America, then its natural mollusc fauna may expect a difficult time in the near future.

#### **Acknowledgements**

I like to thank Matthias Pfeifer (Königswartha, Germany) and Marc Keppens (Dendermonde, Belgium) for supplying me with literature and additional information.

\*During the last couple of years I have regularly reviewed the literature dealing with new records of the invasive Chinese Pond mussel *Sinanodonta woodiana* in Europe (Mienis, 1999, 2001, 2002a-c, & 2003). Without doubt the conquest of Europe by this large Asiatic bivalve will continue for a long time, so additional short reviews may be expected. From now on these will appear under the heading: “Additional information concerning the conquest of Europe by the invasive Chinese Pond Mussel *Sinanodonta woodiana*.” The previous reviews should be considered as nos. 1-6 in that series, i.e.:

Additional information concerning the conquest of Europe by the invasive Chinese Pond Mussel *Sinanodonta woodiana*:

- 1: Once more *Anodonta (Sinanodonta) woodiana*. Triannual Unionid Report, 18: 2-3 (1999);
- 2: Some more information concerning the invasive mussel *Sinanodonta woodiana* (Lea, 1834). Ellipsaria, 3(2):9-10 (2001);
- 3: The Chinese Pond mussel *Sinanodonta woodiana* continues its conquest of Europe. Ellipsaria, 4(1):1-12 (2002);
- 4: The Chinese Pond mussel *Sinanodonta woodiana* in Europe: further gleanings. Ellipsaria, 4(2):12-13 (2002);

- 5: *Sinanodonta woodiana* also in Serbia. *Ellipsaria*, 4(3):9-10 (2002);  
 6: *Sinanodonta woodiana* – news from Europe. *Ellipsaria*, 5(1):13 (2003).

## New freshwater mollusk reports (Gastropoda & Bivalvia) of Santa Catarina State, Southern Brazil

\*\*Although Volume 23 of “Soosiana” is dated 2002, it was published most likely only in 2003. A copy sent to the author was postmarked “Szeged 2003.06.23”.

### References

- Bába, K., Sári, D. & Tóth, T., 2002. Bivalve biocoenoses on different substrates, the 2000-year heavy metal contamination. *Soosiana*, 23: 37-48.
- Fukuhara, S., Nagata, Y. & Yamada, T., 1986. Glochidium parasitic period, host-fish and parasitic site of *Anodonta woodiana* in [a] small pond. *Venus*, 45 (1): 43-52.
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Keywords: Freshwater mollusks; Gastropoda; Bivalvia; Continental malacological fauna survey; Santa Catarina state; Southern Brazilian country; New reports.

The State of Santa Catarina is part of Brazil's southernmost region (Agudo 2002). Field studies on the continental mollusks fauna in this region resulted in the initial determination of 23 freshwater species – 19 Gastropoda and 4 Bivalvia (Agudo 2003).

Recently, 9 new reports (1 Gastropoda–freshwater limpet and 8 Bivalvia) are included in the regional inventory, elevating the known number of freshwater mollusks species from this region of Brazil to 34 (17 Genera, 9 Families, and 2 Classes). For the zoogeographical records in the Santa Catarina territory, see Agudo 2003.

### New species:

- Class GASTROPODA  
 SubClass Pulmonata  
 Family ANCYLIDAE (1)  
 -*Hebetancylus moricandi* (Orbigny, 1846)
- Class PELECYPODA = BIVALVIA  
 Order Unionoida  
 Family MYCETOPODIDAE (3)  
 -*Anodontites ferrarisi* (Orbigny, 1835)  
 -*Anodontites trapesialis* (Lea, 1860)  
 -*Monocondylaea minuana* Orbigny, 1835  
 Family HIRIIDAE (2)  
 -*Diplodon ellipticus* (Wagner in Spix, 1827)  
 -*Diplodon expansus* (Küster, 1856)
- Order Veneroida  
 Family CORBICULIDAE (2)  
 -*Corbicula fluminea* (Müller, 1774)  
 -*Corbicula largillierti* (Philippi, 1844)  
 Family SPHAERIIDAE (1)  
 -*Eupera platensis* Doello-Jurado, 1921

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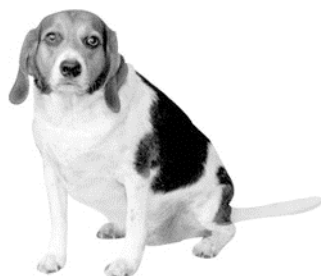
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## Helpful Hints from Hoppy:



Heavy rain...  
Ark finished...  
taking passage to LA  
(lower Alabama)!

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*Submitted by Steve Ahlstedt*

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## **Freshwater Mollusk Conservation Society Standing Committees and Chairs**

If you are interested in joining a committee, please contact the appropriate chair.

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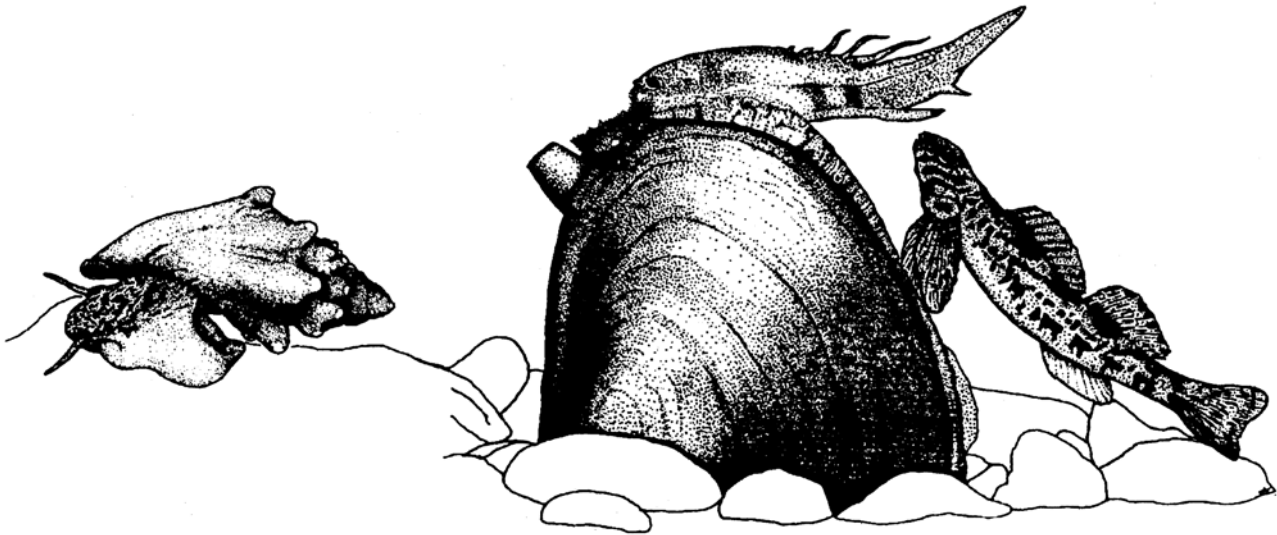
### **Symposium Committee**

To be determined by host of 2005 symposium

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# Freshwater Mollusk Conservation Society



*... dedicated to the advocacy and conservation science of freshwater molluscan resources*