



## The Mayfly Newsletter

---

Volume 14 | Issue 2

Article 1

---

2-1-2006

### The Mayfly Newsletter

Peter M. Grant

Southwestern Oklahoma State University, [peter7grant@gmail.com](mailto:peter7grant@gmail.com)

Follow this and additional works at: <https://dc.swosu.edu/mayfly>

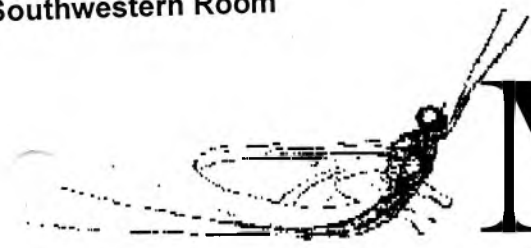
---

#### Recommended Citation

Grant, Peter M. (2006) "The Mayfly Newsletter," *The Mayfly Newsletter*. Vol. 14 : Iss. 2 , Article 1.  
Available at: <https://dc.swosu.edu/mayfly/vol14/iss2/1>

This Article is brought to you for free and open access by the Newsletters at SWOSU Digital Commons. It has been accepted for inclusion in The Mayfly Newsletter by an authorized editor of SWOSU Digital Commons. An ADA compliant document is available upon request. For more information, please contact [phillip.fitzsimmons@swosu.edu](mailto:phillip.fitzsimmons@swosu.edu).





# THE MAYFLY NEWSLETTER

SWOSU LIBRARY  
Weatherford, OK

Vol. 14 No. 2      Southwestern Oklahoma State University, Weatherford, Oklahoma 73096-3098 USA      February 2006

## News from the Permanent Committee

Congratulations to Michel Sartori who was recently elected as chair of the Permanent Committee for the International Conferences on Ephemeroptera. Congratulations, also, to John Brittain who was elected chair of the International Society of Plecopterologists. John serves on both committees.

The current members of the Permanent Committee are:

**Javier Alba-Tercedor**

Universidad de Granada, Facultad de Ciencias,  
Departamento de Biología Animal Ecología y Genética,  
18071 Granada, Spain, jalba@ugr.es

**John Brittain**

Freshwater Ecology and Inland Fisheries Laboratory  
(LFI), The Natural History Museums and Botanical  
Garden, University of Oslo, PO Box 1172, Blindern, 0318  
Oslo, Norway, j.e.brittain@nhm.uio.no

**Ian Campbell**

Department of Ecology and Evolutionary Biology,  
Monash University, East Caulfield, Victoria 3145,  
Australia, campbell@mrcmekong.org

**Eduardo Dominguez**

Facultad de Ciencias Naturales, Universidad Nacional de  
Tucuman, Miguel Lillo 251, 4000 Tucuman, Argentina,  
mayfly@unt.edu.ar

**John Flannagan, Treasurer**

Treasurer, 456 Isabella Point Road, Salt Spring Island,  
British Colombia V8K 1V4, Canada, jpflannagan@  
saltspring.com

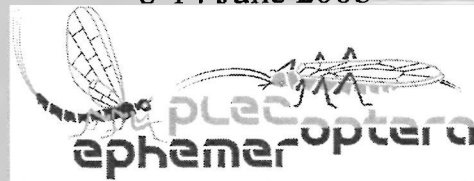
**Elda Gaino**

Dipartimento di Biologia Animale ed Ecologia, Via Elce  
di Sotto, 06123 Perugia, Italy, gaino@unipg.it

### 2008 International Joint Meeting

Stuttgart, Germany

8-14 June 2008



<http://www.naturkundemuseum-bw.de/stuttgart/projekte/jointmeeting08/index.htm>

**Peter Grant, Secretary**

Department of Biological Sciences, Southwestern  
Oklahoma State University, 100 Campus Drive,  
Weatherford OK 73096-3098, USA, peter.grant@swosu.  
edu

**Peter Landolt**

Imbisbuehlstrasse 106, CH 8049 Zurich, Switzerland,  
peter.landolt@vkhs.ch

**Michel Sartori, President**

Museum of Zoology, Palais de Rumine, Place de la  
Riponne 6-Cp, CH-1014 Lausanne, Switzerland, michel.  
sartori@serac.vd.ch

**Tomas Soldan**

Institute of Entomology, Academy of Sciences of  
the Czech Republic, University of South Bohemia,  
Branisovska 31, 37005 Ceske Budejovice, Czech  
Republic, soldan@entu.cas.cz

Some topics that the members of the Permanent  
Committee have been discussing lately:

- Replacing the treasurer (John would like to resign)
- Composition of the committee
- Establishing an official Committee web site
- Rewriting the bylaws
- Possible name change for the committee
- Writing biographies of mayfly workers

If you would like to comment on one of these topics, or others that concern the Committee, please contact one of the members listed above.

### Inside This Issue

'Twas the Night Before Hatch .....	2
"Weird Al" Yankovic.....	2
NABS bibliography .....	3
Address changes.....	12
Nike Mayfly .....	12



---

## 'Twas the Night Before Hatch

or Account of a Visit from *Drunella grandis*

by Luke Jacobus (12 Dec 2000)

based on a poem by Clement Clarke Moore

'Twas the night before Hatch, when all through the flow  
Not a creature was stirring, not even a subimago;  
The sulphurs were tied by the anglers with care,  
In hopes that hungry trout soon would be there;

The salmonids were nestled all snug in their beds,  
While search-images of flies hadn't yet formed in their heads;  
And caddis in their cases, and notonectids on their back,  
Were just coming out for a late evening's snack,

When down in the benthos there arose such a clatter,  
That the fish started to wake to see what was the matter.  
Up from the surface the first risers flew like a flash,  
Tore away from their shucks with ne'er a splash.

The moon on the surface of the white riffled flow  
Gave the lustre of mid-day to objects below,  
When, what to the trout's wondering eyes should appear,  
But a mighty ephemerellid, and eight spiny crawlers,

Upon a sunken lilly pad, so lively a fella',  
All the stream dwellers knew it must be *Drunella*.  
More rapid than siphonurids his coursers they came,  
And he whistled, and shouted, and called them by name;

"Now, *Serratella*! now, *Caurinella*! now, *Uracanthella* and  
*Cincticostella*!  
On, *Critinella*! on *Acerella*! on, *Torleya* and *Caudatella*!  
To the top of the cascade! to the top of the fall!  
Now swim away! swim away! swim away all!"

As swarming males that over the rapids fly,  
When they meet with an collector's net, mount to the sky,  
So up from the surface the coursers they flew,  
With an unwettable skin, surface tension was no glue.

And then, just down the bend, was heard in a flash,  
The unmistakable sound of a trout feeding-splash!  
As the sulphurs began to hatch by the pound,  
Up from the bottom the grand-daddy of them all came with a bound.

He was covered in spines, from his head to his foot,  
And his integument was all tangled with alga and roots;  
A bundle of tubercles he had along on his back,  
And he looked like a dragon in search of a snack.

His eyes-how fiery! his appearance how scary!  
He was a fiend. A grudge against the fish he did carry!  
His complex mouthparts were held like a frown,  
And even the beard of his chin was matted down;

The stump of a fish fin he held tight in his teeth,  
Even though the predators encircled his head like a wreath;  
He had a broad face and chitinized sterna,  
That shook, when he roared, like a mighty inferna'.

He was chubby and plump, a right scary larval insect,  
And he was pleased when he saw the dinner plans he had wrecked;  
A flick of his caudal filaments and a twist of his head,  
Soon told the rest of the fauna they had something to dread;

He spoke not a word, but went straight to the top,  
And emerged from the water's surface, with a mighty ker-plop;  
He wrenched and he wriggled in his post-molt throes,  
Then giving a nod, up in the night air he rose;

Flying free in the skies, to his team he gave a whistle,  
And then away they all flew like the down of a thistle.  
But I heard him exclaim, "You hungry fish, you never caught me,  
Due to my mighty, razor-sharp tubercles: a quite lucky pleisiomorphy!"

---

## "Weird Al" Mobbed by Unwanted Fans

DU QUOIN, Ill. (AP) - Things got hairy for parody singer "Weird Al" Yankovic as a flock of unwanted fans rushed on stage during his performance at a state fair in southern Illinois. Green moths swarmed the Grammy-winning recording artist, some nesting in his trademark long, curly locks.

"My band asked me if I could find a concert where we would be attacked by insects," Yankovic told his audience Wednesday at the Du Quoin State Fair. "I said I would see what I could do."

Yankovic didn't seem bugged by the uninvited guests, though, as he plugged along with songs and costume changes during his self-described "rock and comedy multimedia extravaganza" to support his recent album, "Poodle Hat." (<http://forums.slickdeals.net/showthread.php?t=39250>)

### A response to this article from "Weird Al"

I was kind of surprised when the AP wire picked this up and it became a worldwide news story. (Gee, maybe I should get attacked by bugs more often!) What happened was, we were doing a concert at a state fair in DuQuoin, Illinois, when we basically found ourselves playing in the middle of a swarm of bugs. (They weren't really moths, they were mayflies - which, for the record, are much, much more disgusting). They were all over my clothes, my accordion and my hair, but luckily they didn't find their way into any of my orifices. When I rolled around on the floor at the end of the show, I found myself rolling over hundreds of mayflies. Yecch. (<http://www.weirdal.com/aaarchive.htm#090604>)  
[Editor's note: My thanks to friend and "Weird Al" fan Jeff Gentry who shared this information with me.]

## 2004 Mayfly Bibliography

[Editor's note: This bibliography was published as the Ephemeroptera portion of the 2004 (2005) North American Benthological Society's (NABS) *Current and Selected Bibliography on Benthic Biology*.]

The following is a list of current publications on Ephemeroptera that have been published up to and during 2004 and have not appeared in previous NABS Bibliographies.

I would appreciate receiving a reprint or complete bibliographic reference of any article about mayflies, especially if it contains scientific names, so that it may be included in next year's bibliography. Also, I would like to be informed of any corrections or omissions in this or past bibliographies. Suggestions are always welcome.

Please send all correspondence to Peter M. Grant, Department of Biological Sciences, Southwestern Oklahoma State University, 100 Campus Drive, Weatherford, Oklahoma 73096-3098 USA, phone (580) 774-3294, fax (580) 774-7140, email [peter.grant@swosu.edu](mailto:peter.grant@swosu.edu).

If you would like an electronic copy of this year's mayfly bibliography, simply send me a request via email. I will send this file to you as an attachment. This bibliography is also available on my website: <http://faculty.swosu.edu/peter.grant/research.htm>.

- Aagaard, K.; Solem, J. O.; Bongard, T.; Hanssen, O. 2004. Studies of aquatic insects in the Atna River 1987-2002. *Hydrobiologia* 521(1-3): 87-105.
- Akers, A. A.; Peters, W. L.; Peters, J. G. 2003. *Radima edmundsorum*, a new genus and species of Atalophlebiinae from Madagascar (Ephemeroptera: Leptophlebiidae). pp. 85-89. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Alba-Tercedor, J.; Derka, T. 2004. The status of knowledge of the genus *Ecdyonurus* in the Iberian Peninsula, with description of two new species of the *E. venosus* group from Spain (Ephemeroptera: Heptageniidae). *Aquat. Insects* 26(3/4): 227-242.
- Alba-Tercedor, J.; Jaimez-Cuellar, P. 2003. Checklist and historical evolution of the knowledge of Ephemeroptera in the Iberian Peninsula, Balearic and Canary Islands. pp. 91-97. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Anonymous. 2003. Proceedings of the 1st Dresden Meeting on Insect Phylogeny: Phylogenetic relationships within the insect orders, Dresden, Germany, September 19-21, 2003. *Entomol. Abh.* 61(2): 119-172.
- Anonymous. 2003. Mayflies and stoneflies of Germany and adjacent regions. 4th meeting in Bad Bevensen. 15th to 17th March 2002. *Lauterbornia* 47: 1-172. [In German]
- Arscott, D. B.; Tockner, K.; Ward, J. V. 2003. Spatio-temporal patterns of benthic invertebrates along the continuum of a braided Alpine river. *Arch. Hydrobiol.* 158(4): 431-460.
- Aznar, J.-C. 2001(2003). Sampling of the ephemeran community in an intermittent Mediterranean stream by volunteers (The Bueges, southern France). *Ephemera* 3(2): 95-107.
- Bae, Y. J.; Finlay, K. J. 2003. A new species of an Australian burrowing mayfly (Leptophlebiidae, Ephemeroptera). *Pan.-Pac. Entomol.* 79(2): 90-99.
- Bae, Y. J.; Finlay, K. J.; Campbell, I. C. 2004. Taxonomic status of the Australian mayfly genera *Jappa* and *Ulmerophlebia* (Ephemeroptera: Leptophlebiidae). *Entomol. News* 115(1): 1-10.
- Baker, A. M.; Hughes, J. M.; Dean, J. C.; Bunn, S. E. 2004. Mitochondrial DNA reveals phylogenetic structuring and cryptic diversity in Australian freshwater macroinvertebrate assemblages. *Mar. Freshwater Res.* 55(6): 629-640.
- Balassa, G. C.; Fugl, R.; Hahn, N. S.; Galina, A. B. 2004. Diet of Anostomidae species (Teleostei, Characiformes) in the influence area of Manso Reservoir, Mato Grosso, Brazil. *Iheringia Ser. Zool.* 94(1): 77-82. [In Portuguese]
- Ball, S. L.; Turner, S. A. 2003. Ciliate presence and the incidence of castration in the obligately parthenogenetic mayfly, *Centroptilum triangulifer* (Ephemeroptera: Baetidae). *Northeastern Natur.* 10(4): 421-424.
- Barber-James, H. M. 2003. The biogeography of the Prosopistomatidae, with a particular emphasis on Southern African species. pp. 263-270. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Bauernfeind, E. 2003. The mayflies of Greece (Insecta: Ephemeroptera) - a provisional check-list. pp. 99-107. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Bauernfeind, E. 2003. *Rhithrogena lisettae* sp. n. - a new representative of the *R. diaphana* species-group from Greece (Insecta: Ephemeroptera). pp. 109-112. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Baumgardner, D. E.; Burian, S. K.; Bass, D. 2003. Life stage descriptions, taxonomic notes, and new records for the mayfly family Leptohyphidae (Ephemeroptera). *Zootaxa* 332: 1-12.
- Beketov, M.; Kluge, N. Yu. 2003. Mayflies of southwestern Siberia, Russia (Ephemeroptera). *Opuscula Zool. Fluminensia* 211: 106.
- Belanger, S. E.; Lee, D. M.; Bowling, J. W.; LeBlanc, E. M. 2004. Responses of periphyton and invertebrates to a tetradecyl-pentadecyl sulfate mixture in stream mesocosms. *Environ. Toxicol. Chem.* 23(9): 2202-2213.
- Belfiore, C.; Barber-James, H.; Gaino, E. 2003. The eggs of *Afronurus* Lestage, 1924 (Ephemeroptera: Heptageniidae): A cue for phylogenetic relationships. pp. 113-116. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Benabid, M.; Arrington, J. 2003. Some biological data on the noble crayfish *Astacus astacus* in sight of its propagation in Morocco. *L'Astaculteur France* 75: 2-14. [In French, English summary]
- Benstead, J. P.; De Rham, P. H.; Gattolliat, J.-L.; Gibon, F.-M.; Loisel, P. V.; Sartori, M.; Sparks, J. S.; Stiassny, M. L. J. 2003. Conserving Madagascar's freshwater biodiversity. *Bioscience* 53(11): 1101-1111.
- Benstead, J. P.; Douglas, M. M.; Pringle, C. M. 2003. Relationships of stream invertebrate communities to deforestation in eastern Madagascar. *Ecol. Appl.* 13(5): 1473-1490.
- Berlin, A. 2003. Checklist of Ephemeroptera and Plecoptera in

- Mecklenburg-Vorpommern, Germany. *Lauterbornia* 47: 5-11. [In German, English summary]
- Besprosvannykh, V. V. 2003. The trematode *Lecthodolus anatina* (Pleurogenidae) and its life cycle in Primorye. *Parazitologiya* 37(2): 154-158. [In Russian, English summary]
- Blanco-Belmonte, L.; Ruaise, V.; Peters, J. G. 2003. The nymph of *Paramaka* Savage & Dominguez (Ephemeroptera: Leptophlebiidae: Atalophlebiinae). pp 117-121. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Blouin, M. A.; Hudson, P.; Chriscinske, M. 2004. Habitat selection by two species of burrowing mayfly nymphs in the Les Cheneaux Islands region of northern Lake Huron. *J. Freshwater Ecol.* 19(3): 507-514.
- Braasch, D. 2003. Some interesting mayflies in the river Mulde (Saxony/Germany) (Ephemeroptera). *Lauterbornia* 46: 73-76. [In German, English summary]
- Brackenbury, J. 2004. Kinematics and hydrodynamics of swimming in the mayfly larva. *J. Exper. Biol.* 207(6): 913-922.
- Brauns, M. 2003. The water insects (Ephemeroptera, Plecoptera, Coleoptera, Trichoptera) of the Buckau, a Flaeming brook in Brandenburg / Germany. *Maerkische Entomol. Nachr.* 5(2): 59-66. [In German, English summary]
- Bretfeld, R.; Bellstedt, R. 2003. To the fresh water fauna of the mountain brook "Schweina" in the "Wartburgkreis" (Thuringia). *Thuringer Faun. Abh.* 9: 61-72. [In German, English summary]
- Brittain, J. E.; Castella, E.; Knispel, S.; Lencioni, V.; Lods-Crozet, B.; Maiolini, B.; Milner, A. M.; Saltveit, S. J.; Snook, D. L. 2003. Ephemeropteran and plecopteran communities in glacial rivers. pp. 271-277. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Brittain, J. E.; Sartori, M. 2003. Ephemeroptera (Mayflies). pp. 373-380. In: Resh, V. H.; Carde, R. T. (eds.) *Encyclopedia of Insects*. Academic Press, New York. 1266 pp.
- Bruhin, M.; Masselot, G. 2001(2002). French inventory of mayflies: Check-list in 2002 (Ephemeroptera). *Ephemera* 3(1): 15-25. [In French, English summary]
- Buffagni, A.; Belfiore, C.; Erba, S.; Kemp, J. L.; Cazzola, M. 2003. A review of Ephemeroptera species distribution in Italy: Gains from recent studies and areas for future focus. pp. 279-290. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Butcher, J. T.; Stewart, P. M.; Simon, T. P. 2003. A benthic community index for streams in the northern lakes and forests ecoregion. *Ecol. Indicators* 3(3): 181-193.
- Cain, D. J.; Luoma, S. N.; Wallace, W. G. 2004. Linking metal bioaccumulation of aquatic insects to their distribution patterns in a mining-impacted river. *Environ. Toxicol. Chem.* 23(6): 1463-1473.
- Camargo, C.; Roza, M. P. 2003. Colombian Darien Ephemeroptera. pp. 291-292. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Campos, R. E.; Fernandez, L. A.; Sy, V. E. 2004. Study of the insects associated with the floodwater mosquito *Ochlerotatus albifasciatus* (Diptera: Culicidae) and their possible predators in Buenos Aires Province, Argentina. *Hydrobiologia* 524(1): 91-102.
- Carlisle, D. M.; Clements, W. H. 2003. Growth and secondary production of aquatic insects along a gradient of Zn contamination in Rocky Mountain streams. *J. N. Amer. Benthol. Soc.* 22(4): 582-597.
- Caudill, C. C. 2003. Empirical evidence for nonselective recruitment and a source-sink dynamic in a mayfly metapopulation. *Ecology* 84(8): 2119-2132.
- Caudill, C. C.; Peckarsky, B. L. 2003. Lack of appropriate behavioral or developmental responses by mayfly larvae to trout predators. *Ecology* 84(8): 2133-2144.
- Cereghino, R.; Legalle, M.; Lavandier, P. 2004. Drift and benthic population structure of the mayfly *Rhithrogena semicolorata* (Heptageniidae) under natural and hydropowering conditions. *Hydrobiologia* 519(1-3): 127-133.
- Chaloner, D. T.; Lamberti, G. A.; Merritt, R. W.; Mitchell, N. L.; Ostrom, P. H.; Wipfli, M. S. 2004. Variation in responses to spawning Pacific salmon among three south-eastern Alaska streams. *Freshwater Biol.* 49(5): 587-599.
- Clements, W. H. 2004. Small-scale experiments support causal relationships between metal contamination and macroinvertebrate community responses. *Ecol. Appl.* 14(3): 954-967.
- Collier, K. J.; Wright-Stow, A. E.; Smith, B. J. 2004. Trophic basis of production for a mayfly in a North Island, New Zealand, forest stream: Contributions of benthic versus hyporheic habitats and implications for restoration. *New Zealand J. Mar. Freshwater Res.* 38(2): 301-314.
- Compagnon, A.; Cereghino, R. 2003. Sensitivity of aquatic insect species richness to disturbance in the Adour-Garonne stream System (France). *Ecol. Indicators* 3(2): 135-142.
- Connolly, N. M.; Crossland, M. R.; Pearson, R. G. 2004. Effect of low dissolved oxygen on survival, emergence and drift of tropical stream macroinvertebrates. *J. N. Amer. Benthol. Soc.* 23(2): 251-270.
- Creed, R. P., Jr.; Reed, J. M. 2004. Ecosystem engineering by crayfish in a headwater stream community. *J. N. Amer. Benthol. Soc.* 23(2): 224-236.
- Dahl, J.; Johnson, R. K. 2004. A multimetric macroinvertebrate index for detecting organic pollution of streams in southern Sweden. *Arch. Hydrobiol.* 160(4): 487-513.
- Dahl, J.; Peckarsky, B. L. 2003. Does living in streams with fish involve a cost of induced morphological defences? *Canadian J. Zool.* 81(11): 1825-1828.
- Da-Silva, E. R. 2003. Nymphs of *Thraulodes* Ulmer, 1920 (Insecta: Ephemeroptera: Leptophlebiidae) from Rio de Janeiro State, Brazil. *Biota Neotropica* 3(2): 1-7. [In Portuguese, English summary]
- Da-Silva, E. R.; Salles, F. F.; Nessimian, J. L.; Coelho, L. B. N. 2003. On the identification of the families of Ephemeroptera (Insecta) from Rio de Janeiro State, Brazil: Pictorial key to the nymphs. *Bol. Mus. Nac. Rio de Janeiro Zool.* (508): 1-6. [In Portuguese]
- Death, R. G.; Baillie, B.; Fransen, P. 2003. Effect of *Pinus radiata* logging on stream invertebrate communities in Hawke's Bay, New Zealand. *New Zealand J. Mar. Freshwater Res.* 37(3): 507-520.
- Death, R. G.; Joy, M. K. 2004. Invertebrate community structure in streams of the Manawatu-Wanganui region, New Zealand: The roles of catchment versus reach scale influences. *Freshwater Biol.* 49(8): 982-997.
- de Carvalho, E. M.; Uieda, V. S. 2004. Colonization by benthic macroinvertebrates in artificial and natural substrates in a mountain stream from Itatinga, Sao Paulo, Brazil. *Rev. Brasileira Zool.* 21(2): 287-293. [In Portuguese]

- Di Giovanni, M. V.; Goretti, E.; Ceccagnoli, D.; La Porta, G.; Chiappafreddo, U. 2003. Ephemeroptera and Plecoptera in the Chiascio River (central Italy) since a dam's building. pp. 293-298. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Diaz Villanueva, V.; Albarino, R. 2003. Algal ingestion and digestion by two ephemeropteran larvae from a Patagonian Andean stream. pp. 469-475. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Dolisy, D.; Dohet, A. 2003. The use of Ephemeroptera to assess aquatic biodiversity in the rhithral part of the Luxembourgish rivers. pp. 299-303. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Dominguez, E.; Zuniga, M. C. 2003. First generic record and description of a new species of *Ulmeritoides* (Ephemeroptera: Leptophlebiidae) from Colombia. pp. 123-125. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Dominique, Y.; Thomas, A. 2001(2002). Mayflies of French Guiana: 5. Description of *Camelobaetidioides ortizi* n. sp. (Ephemeroptera, Baetidae). *Ephemera* 3(1): 27-32. [In French, English summary]
- Dominique, Y.; Thomas, A.; Fenoglio, S. 2001(2002). Redescription of *Camelobaetidioides musseri* (Traver & Edmunds, 1968) (Ephemeroptera, Baetidae). *Ephemera* 3(1): 33-41. [In French, English summary]
- Dorn, A.; Weinzierl, A. 2003. A contribution to the knowledge of the mayflies and stoneflies (Ephemeroptera; Plecoptera) from the River Isar in Bavaria inferior/Germany. *Lauterbornia* 47: 21-26. [In German, English summary]
- Elliott, J. M. 2003. Interspecific interference and the functional response of four species of carnivorous stoneflies. *Freshwater Biol.* 48(9): 1527-1539.
- Elouard, J.-M.; Gattolliat, J.-L.; Sartori, M. 2003. Ephemeroptera, mayflies. pp. 639-645. *In*: Goodman, S. M.; Benstead, J. P. (eds.). The natural history of Madagascar. University of Chicago Press, Chicago. 1728 pp.
- Engblom, E. 2001(2003). An annotated check-list of Swedish mayflies (Ephemeroptera). *Ephemera* 3(2): 109-116.
- Englund, G.; Hambrack, P. A. 2004. Scale-dependence of movement rates in stream invertebrates. *Oikos* 105(1): 31-40.
- Erba, S.; Melissano, L.; Buffagni, A. 2003. Life cycles of Baetidae (Insecta: Ephemeroptera) in a North Italian Prealpine stream. pp. 177-186. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Feck, J.; Hall, R. O. 2004. Response of American dippers (*Cinclus mexicanus*) to variation in stream water quality. *Freshwater Biol.* 49(9): 1123-1137.
- Fowler, R. T. 2004. The recovery of benthic invertebrate communities following dewatering in two braided rivers. *Hydrobiologia* 523(103): 17-28.
- Freeman, P. L.; Schorr, M. S. 2004. Influence of watershed urbanization on fine sediment and macroinvertebrate assemblage characteristics in Tennessee Ridge and Valley streams. *J. Freshwater Ecol.* 19(3): 353-362.
- Frydrychova, R.; Grossmann, P.; Trubac, P.; Vitkova, M.; Marec, F. 2004. Phylogenetic distribution of TTAGG telomeric repeats in insects. *Genome* 47(1): 163-178.
- Fureder, L.; Welter, C.; Jackson, J. K. 2003. Dietary and stable isotope ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ ) analyses in alpine Ephemeroptera and Plecoptera. pp. 39-46. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Fujitani, T.; Hirowatari, T.; Kobayashi, N.; Tanida, K. 2004. First record of *Baetis taiwanensis* Muller-Liebenau from Japan, with description of the imago and subimago (Ephemeroptera: Baetidae). *Entomol. Sci.* 7(1): 39-46.
- Fujitani, T.; Hirowatari, T.; Tanida, K. 2003. Genera and species of Baetidae in Japan: *Nigrobaetis*, *Alainites*, *Labiobaetis*, and *Tenuibaetis* n. stat. (Ephemeroptera). *Limnology* 4(3): 121-129.
- Fujitani, T.; Hirowatari, T.; Tanida, K. 2003. Nymphs of *Nigrobaetis*, *Alainites*, *Labiobaetis*, *Tenuibaetis* and *Baetis* from Japan (Ephemeroptera: Baetidae): Diagnoses and keys for genera and species. pp. 127-133. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Gaedike, R. 2003. Bibliography of keys to European insects (1996-2000). *Nova Suppl. Entomol.* 16: 1-121.
- Gage, M. S.; Spivak, A.; Paradise, C. J. 2004. Effects of land use and disturbance on benthic insects in headwater streams draining small watersheds north of Charlotte, NC. *Southeast. Natur.* 3(2): 345-358.
- Gaino, E. 2003. Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Gaino, E.; Rebora, M. 2003. Detection of apoptosis in the ovarian follicle cells of *Ecdyonurus venosus* (Ephemeroptera, Heptageniidae). *Ital. J. Zool.* 70(4): 291-295.
- Gaino, E.; Rebora, M. 2003. Adhesiveness of the eggs of *Ecdyonurus venosus* to siliceous and calcareous substrate. pp. 437-443. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Gaino, E.; Rebora, M. 2003. The sensilla on the labial and maxillary palps of the nymph of *Baetis rhodani* (Ephemeroptera: Baetidae). pp. 445-451. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Gallardo-Mayenco, A. 2002-2003. Spatial distribution of mayfly (Insecta: Ephemeroptera) in two Mediterranean river basins at different altitudes. *Zool. Baetica* 13-14: 93-110. [In Spanish, English summary]
- Garbage, S.; Cereghino, R. 2004. Ontogenetic microhabitat shifts in stream invertebrates with different biological traits. *Arch. Hydrobiol.* 160(3): 329-346.
- Gattolliat, J.-L. 2003. The genera *Demoulinia* Gillies and *Potamocloeon* Gillies (Ephemeroptera: Baetidae) in Madagascar. *Zootaxa* 184: 1-18.
- Gattolliat, J.-L. 2004. A distinctive new species of *Xyrodromeus* Lugo-Ortiz & McCafferty (Ephemeroptera: Baetidae) from Madagascar. *Zootaxa* 452: 1-10.
- Gattolliat, J.-L.; Sartori, M. 2003. An overview of the Baetidae of Madagascar. pp. 135-144. *In*: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Università di Perugia, Perugia. 487 pp.
- Gerhardt, A.; De Bisthoven, L. J.; Soares, A. M. V. M. 2004. Macroinvertebrate response to acid mine drainage: Community metrics and on-line behavioural toxicity bioassay. *Environ. Pollut.* 130(2): 263-274.
- Godunko, R. J. 2004. A new fossil subgenus and species of the genus *Ecdyonurus* Eaton, 1868 from Eocene Baltic amber (Ephemeroptera: Heptageniidae). *Genus* 15(3): 323-328.
- Godunko, R. J.; Klonowska-Olejnik, M.; Soldan, T. 2004.

- Ecdyonurus rizuni* sp. nov. (Ephemeroptera: Heptageniidae) from the Eastern Carpathians. *Ann. Zool.* 54(3): 519-524.
- Godunko, R. J.; Soldan, T. 2003. Lectotype fixation and redescription of *Ecdyonurus subalpinus* (Ephemeroptera: Heptageniidae) with notes on its biology and distribution. *Klapalekiana* 39(4): 211-224.
- Godunko, R. J.; Sontag, E. 2004. *Burshtynogena fereci* gen. and sp. nov. (Ephemeroptera: Heptageniidae) from Eocene Baltic amber. *Ann. Zool.* 54(3): 515-518.
- Gonzalez, J. M.; Basaguren, A.; Pozo, J. 2003. Life history and production of *Epeorus torrentium* Eaton (Ephemeroptera: Heptageniidae) in a north Iberian stream. *Aquat. Insects* 25(4): 247-258.
- Gonzalez, J. M.; Basaguren, A.; Pozo, J. 2003. Life history, production and coexistence of two leptophlebiid mayflies in three sites along a northern Spain stream. *Arch. Hydrobiol.* 158(3): 303-316.
- Gosselin, A.; Hare, L. 2004. Effect of sedimentary cadmium on the behavior of a burrowing mayfly (Ephemeroptera, *Hexagenia limbata*). *Environ. Toxicol. Chem.* 23(2): 383-387.
- Grandjean, F.; Momon, J.; Bramard, M. 2003. Biological water quality assessment of the white-clawed crayfish habitat based on macroinvertebrate communities: Usefulness for its conservation. *Bull. Fr. Peche Piscic.* 370-371: 115-125.
- Guerrero-Bolano, F.; Manjarres-Hernandez, A.; Nunez-Padilla, N. 2003. The benthonic macroinvertebrates of Pozo Azul (Gaira River basin, Colombia) and their relationship with water quality. *Acta Biol. Colombiana* 8(2): 43-55. [In Spanish, English summary]
- Gupta, S.; Gupta, A. 2004. Scanning electronmicroscopic study of the cuticular structures on the head of *Gerris* sp. (Hemiptera: Gerridae) and *Cloeon* sp. (Ephemeroptera: Baetidae). *Entomol.* 29(1): 25-30.
- Hamada, N.; de Oliveira, S. J. 2003. Food items of larvae of *Rimanella arcana* (Needham, 1933) (Odonata: Amphipterygidae) in Central Amazonia, Brazil. *Entomotropica* 18(2): 153-155.
- Hanelt, B.; Janovy, J., Jr. 2004. Life cycle and paratenesis of American gordiids (Nematomorpha: Gordiida). *J. Parasitol.* 90(2): 240-244.
- Hansen, E. A.; David, B. O.; Closs, G. P. 2004. Diel patterns of feeding and prey selection in giant kokopu (*Galaxias argenteus*). *New Zealand J. Mar. Freshwater Res.* 38(2): 341-345.
- Harding, J. S.; Hawke, D. J.; Holdaway, R. N.; Winterbourn, M. J. 2004. Incorporation of marine-derived nutrients from petrel breeding colonies into stream food webs. *Freshwater Biol.* 49(5): 576-586.
- Haybach, A. 2003. Egg-structures of German mayflies (Insecta: Ephemeroptera) – an overview. *Lauterbornia* 47: 41-58. [In German, English summary]
- Haybach, A.; Belfiore, C. 2003. Key to the larvae of the genus *Electrogena* Zurwerra & Tomka 1985 in Germany (Insecta: Ephemeroptera: Heptageniidae). *Lauterbornia* 46: 83-87. [In German, English summary]
- Haybach, A.; Malzacher, P. 2003. List of the mayflies (Ephemeroptera) of Germany. *Entomofauna Germanica* 6: 33-46. [In German, English summary]
- Haybach, A.; Schleuter, M.; Tittzer, T. 2003. Current distribution of mayflies (Insecta: Ephemeroptera) in German Federal Waterways. pp. 313-315. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Hirasawa, R.; Urabe, M.; Yuma, M. 2004. Relationship between intermediate host taxon and infection by nematodes of the genus *Rhabdochona*. *Parasitol. Int.* 53(1): 89-97.
- Hirasawa, R.; Yuma, M. 2003. *Ephemerella strigata* imagoes are the likely source of a parasitic nematode infection of fish. *Folia Parasitol.* 50(4): 313-314.
- Hoexter, W. 2003. First record of *Rhithrogena beskidensis* Alba-Tercedor & Sowa, 1987 (Ephemeroptera, Heptageniidae) in Lower Saxony, northern Germany. *Braunschweiger Natur. Schrift.* 6(4): 799-802. [In German]
- Holomuzki, J. R.; Biggs, B. J. F. 2003. Mechanisms influencing community composition and succession in mountain stream periphyton: Interactions between scouring history, grazing, and irradiance. *J. N. Amer. Benthol. Soc.* 22(4): 542-553.
- Hose, G. C.; Hyne, R. V.; Lim, R. P. 2003. Toxicity of endosulfan to *Atalophlebia* spp. (Ephemeroptera) in the laboratory, mesocosm, and field. *Environ. Toxicol. Chem.* 22(12): 3062-3068.
- Hubbard, M. D. 2003. William Lee Peters (1939-2000). pp. 15-20. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Huebner, C. B.; Vinson, M. R. 2004. Groundwater invertebrate fauna of the Bear River Range, Utah. *West. N. Amer. Natur.* 64(1): 131-134.
- Hughes, J. M.; Mather, P. B.; Hillyer, M. J.; Cleary, C.; Peckarsky, B. 2003. Genetic structure in a montane mayfly *Baetis bicaudatus* (Ephemeroptera: Baetidae), from the Rocky Mountains, Colorado. *Freshwater Biol.* 48(12): 2149-2162.
- Humpesch, U. H.; Elliott, J. M. 2003. Egg hatching: One mechanism for life-cycle partitioning in Plecoptera and Ephemeroptera. pp. 187-188. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Hwang, J. M.; Lee, S. J.; Bae, Y. B. 2003. Morphological diversity of mayfly nymphs and its adaptive derivation. *Korean J. Limnol.* 36(4): 427-433.
- Ishiwata, S.-I. 2003. A revision of the genus *Cincticostella* (Insecta: Ephemeroptera: Ephemerellidae) from Japan. *Species Diversity* 8(4): 311-346.
- Iwata, T.; Nakano, S.; Inoue, M. 2003. Impacts of past riparian deforestation on stream communities in a tropical rain forest in Borneo. *Ecol. Appl.* 13(2): 461-473.
- Jacob, U. 2003. *Baetis* Leach 1815, *sensu stricto* or *sensu lato*. A contribution to the genus concept based on species groups with identification keys. *Lauterbornia* 47: 59-129. [In German, English summary]
- Jacob, U. 2003. Africa and its Ephemeroptera: Remarks from a biogeographical view. pp. 317-325. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Jacobsen, D. 2003. Altitudinal changes in diversity of macroinvertebrates from small streams in the Ecuadorian Andes. *Arch. Hydrobiol.* 158(2): 145-167.
- Jacobus, L. M.; McCafferty, W. P. 2003. Revisionary contributions to North American *Ephemerella* and *Serratella* (Ephemeroptera: Ephemerellidae). *J. N. Y. Entomol. Soc.* 111(4): 174-193.
- Jacobus, L. M.; McCafferty, W. P. 2004. First larval description of *Paraleptophlebia calcarica* Rowbotham and Allen (Ephemeroptera: Leptophlebiidae). *J. Kansas Entomol. Soc.* 77(2): 110-115.
- Jacobus, L. M.; McCafferty, W. P. 2004. Contribution to the morphology and descriptive biology of *Caurinella idahoensis* (Ephemeroptera: Ephemerellidae). *West. N. Amer. Natur.* 64(1):



- 101-108.
- Jergentz, S.; Mugni, H.; Bonetto, C.; Schulz, R. 2004. Runoff-related endosulfan contamination and aquatic macroinvertebrate response in rural basins near Buenos Aires, Argentina. *Arch. Environ. Contam. Toxicol.* 46(3): 345-352.
- Jezberova, M. 2003. Distribution and density of Ephemeroptera and Plecoptera of the Radikovsky brook (Czech Republic) in relation to selected environmental variables. pp. 327-331. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Johnson, E. B.; Bierzychudek, P.; Whiteman, H. H. 2003. Potential of prey size and type to affect foraging asymmetries in tiger salamander (*Ambystoma tigrinum nebulosum*) larvae. *Canadian J. Zool.* 81(10): 1726-1735.
- Johnson, P. T. J.; Ritchie, E. G. 2003. Macroinvertebrate fauna of an iron-rich stream in the wet tropics of Australia: A comparative analysis of communities using a rapid bioassessment protocol. *Mem. Queensland Mus.* 49 (1): 331-338.
- Johnson, R. K.; Goedkoop, W.; Sandin, L. 2004. Spatial scale and ecological relationships between the macroinvertebrate communities of stony habitats of streams and lakes. *Freshwater Biol.* 49(9): 1179-1194.
- Jolivet, S.; Masselot, G.; Nel, A. 2001(2002). Occurrence of *Metreletus* sp. (Ephemeroptera: Ameletidae) in the Forest of Rambouillet (Yvelines, France). Use of artificial substrates for the study of macrobenthos in a small temporary brook. *Ephemera* 3(1): 53-68. [In French, English summary]
- Kaller, M. D.; Hartman, K. J. 2004. Evidence of a threshold level of fine sediment accumulation for altering benthic macroinvertebrate communities. *Hydrobiologia* 518(1-3): 95-104.
- Kelly, D. J.; Bothwell, M. L.; Schindler, D. W. 2003. Effects of solar ultraviolet radiation on stream benthic communities: An intersite comparison. *Ecology* 84(10): 2724-2740.
- Kennedy, A. J.; Cherry, D. S.; Currie, R. J. 2004. Evaluation of ecologically relevant bioassays for a lotic system impacted by a coal-mine effluent, using *Isonychia*. *Environ. Monit. Assessment* 95(1-3): 37-55.
- Kennedy, J. H. 2003. Contributions to the life history and knowledge of the ecology of mayflies (Ephemeroptera) from the New River, Virginia. pp. 333-337. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Kjer, K. M. 2004. Aligned 18S and insect phylogeny. *Syst. Biol.* 53(3): 506-514.
- Klonowska-Olejnik, M. 2004. Redescription of *Electrogena quadrilineata* (Landa, 1969) from type material (Ephemeroptera, Heptageniidae). *Aquat. Insects* 26(2): 85-95.
- Klonowska-Olejnik, M.; Godunko, R. J. 2003. Contribution to the taxonomy of the Central European species of *Rhithrogena loyolae* species-group (Ephemeroptera: Heptageniidae). pp. 339-348. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Klonowska-Olejnik, M.; Jazdzewska, T. 2003. Scanning electron microscopy study of the eggs of some rare mayfly (Ephemeroptera) species: *Ametropus fragilis*, *Isonychia ignota* and *Neophemera maxima*. pp. 457-462. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Kluge, N. Yu. 2003. System and phylogeny of Pinnatitergalia (Ephemeroptera). pp. 145-152. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Knispel, S.; Castella, E. 2003. Disruption of a longitudinal pattern in environmental factors and benthic fauna by a glacial tributary. *Freshwater Biol.* 48: 604-618.
- Konno, Y. 2004. Lotic aquatic insects in the Azusa River, in the Kamikochi Valley of Chubu Sangaku National Park. *Japanese J. Limnol.* 65(1): 21-26. [In Japanese]
- Kornijow, R.; Moss, B. 2003. Do night oxygen depletions contribute to the summer decline in abundance of zoobenthos in lake littoral? *Int. Ver. Theor. Angew. Limnol. Verh.* 28(4): 1899-1901.
- Kosnicki, E.; Burian, S. 2003. Life history aspects of the mayfly *Siphonurus typicus* (Ephemeroptera: Siphonuridae) with a new application for measuring nymphal development and growth. *Hydrobiologia* 510: 131-146.
- Kovacs, T.; Ambrus, A.; Juhasz, P. 2003. Data to the Hungarian mayfly (Ephemeroptera) fauna arising from collectings of larvae II. *Folia Hist. Natur. Mus. Matraensis* 27: 59-72.
- Kovacs, T.; Bauernfeind, E. 2003. Checklist of the Hungarian mayfly fauna (Ephemeroptera). *Folia Entomol. Hungarica* 64: 69-84.
- Kriska, G.; Andrikovics, S. 2003. Parasite relationship between the *Symbiocladius rhithrogene* and *Electrogena lateralis* larvae. *Allattani Kozlemenyei* 88(1): 109-116. [In Hungarian, English summary]
- Krupa, M. 2004. Food of the Willow Warbler *Phylloscopus trochilus* nestlings: Differences related to the age of nestlings and sex of feeding parents. *Acta Ornithologica* 39(1): 45-51.
- Kuery, D. 2003. Invertebrate communities in the running and standing waters of Wildenstein. *Mitt. Natur. Gesell. Basel* 7: 205-219. [In German]
- Leal, J. J. F.; de Assis Esteves, F.; Farjalla, V. F.; Enrich-Prast, A. 2003. Effect of *Campsurus notatus* on NH<sub>4</sub><sup>+</sup>, DOC fluxes, O<sub>2</sub> uptake and bacterioplankton production in experimental microcosms with sediment-water interface of an Amazonian lake impacted by bauxite tailings. *Int. Rev. Hydrobiol.* 88(2): 167-178.
- Lecureuil, J.-Y.; Chovet, M. 2001(2003). Additions to the Ephemeroptera fauna of France. (8-9) : *Brachycercus europaeus* Kluge, 1991 and *Cercobrachys minutus* (Tshernova, 1952) (Ephemeroptera, Caenidae, Brachycercinae). *Ephemera* 3(2): 83-90. [In French, English summary]
- Leonard, A. W.; Hyne, R. V.; Lim, R. P.; Leigh, K. A.; Le, J.; Beckett, R. 2001. Fate and toxicity of endosulfan in Namoi River water and bottom sediment. *J. Environ. Qual.* 30(3): 750-759.
- Leppä, M.; Hamalainen, H.; Karjalainen, J. 2003. The response of benthic macroinvertebrates to whole-lake biomanipulation. *Hydrobiologia* 498: 97-105.
- Licht, O.; Jungmann, D.; Ludwichowski, K.-U.; Nagel, R. 2004. Long-term effects of fenoxycarb on two mayfly species in artificial indoor streams. *Ecotoxicol. Environ. Safety* 58(2): 246-255.
- Licht, O.; Jungmann, D.; Nagel, R.; 2003. Method development on aufwuchs and mayfly larvae to determine the effects of chemicals in artificial indoor streams. *Fresenius Environ. Bull.* 12(6): 594-600.
- Lohse, S.; Haase, P. 2003. Mayflies (Ephemeroptera) of Buntsandstein and Basalt streams in Germany highlands - First results. *Lauterbornia* 47: 13-20. [In German, English summary]
- Macadam, C. 2003. Managing priority habitats for invertebrates: Volume 7 Ephemeroptera and Plecoptera - mayflies and



- stoneflies. Buglife: The Invertebrate Conserv. Trust. 39 pp.
- Macadam, C. 2003. Scanning of specimens in a museum collection. *Bull. Amateur Entomol. Soc.* 62(449): 146-147.
- Macadam, C. R. 2003. Notes on *Heptagenia longicauda* (Stephens, 1835) (Ephemeroptera: Heptageniidae). *Entomol. Monthly Mag.* 139(1670-1672): 179-181.
- Manach, A.; Thomas, A.; Brulin, M. 2001(2003). Predation in flight by females of the genus *Palpomyia* (Diptera, Ceratopogonidae) on *Serratella ignita* and *Habrophlebia lauta* (Ephemeroptera, Ephemerellidae and Leptophlebiidae). *Ephemera* 3(2): 91-93. [In French, English summary]
- Mantel, S. K.; Dudgeon, D. 2004. Dietary variation in a predatory shrimp *Macrobrachium hainanense* (Palaemonidae) in Hong Kong forest streams. *Arch. Hydrobiol.* 160(3): 305-328.
- Marden, J. H. 2003. The surface-skimming hypothesis for the evolution of insect flight. *Acta Zool. Cracoviensia* 46: 73-84.
- Maret, T. R.; Cain, D. J.; MacCoy, D. E.; Short, T. M. 2003. Response of benthic invertebrate assemblages to metal exposure and bioaccumulation associated with hard-rock mining in northwestern streams, USA. *J. N. Amer. Benthol. Soc.* 22(4): 598-620.
- Marshall, N. A.; Bailey, P. C. E. 2004. Impact of secondary salinisation on freshwater ecosystems: Effects of contrasting, experimental, short-term releases of saline wastewater on macroinvertebrates in a lowland stream. *Mar. Freshwater Res.* 55(5): 509-523.
- Maxted, J. R.; Evans, B. F.; Scarsbrook, M. R. 2003. Development of standard protocols for macroinvertebrate assessment of soft-bottomed streams in New Zealand. *New Zealand J. Mar. Freshwater Res.* 37(4): 793-807.
- McCafferty, W. P. 2004. Contribution to the systematics of *Leucrocota*, *Nixe*, and related genera (Ephemeroptera: Heptageniidae). *Trans. Amer. Entomol. Soc.* 130(1): 1-9.
- McCafferty, W. P. 2004. Higher classification of the burrowing mayflies (Ephemeroptera: Scaphodonta). *Entomol. News* 115(2): 84-92.
- McCafferty, W. P.; Baumgardner, D. E. 2003. *Lugoiops maya*, a new genus and species of Ephemeroptera (Baetidae) from central America. *Proc. Entomol. Soc. Wash.* 105(2): 397-406.
- McCafferty, W. P.; Baumgardner, D. E.; Guenther, J. L. 2004. The Ephemeroptera of Central America. Part 1: Guatemala. *Trans. Amer. Entomol. Soc.* 130(2-3): 201-219.
- McCafferty, W. P.; Lenat, D. R. 2003. A new Nearctic *Paracloeodes* (Ephemeroptera: Baetidae). *Entomol. News* 114(1): 33-36.
- McCafferty, W. P.; Meyer, M. D.; Webb, J. M.; Jacobus, L. M. 2004. New state and provincial records for North American small minnow mayflies. *Entomol. News* 115(2): 93-100.
- McIntosh, A. R.; Peckarsky, B. L. 2004. Are mayfly anti-predator responses to fish odour proportional to risk? *Arch. Hydrobiol.* 160(2): 145-151.
- McIntosh, A. R.; Peckarsky, B. L.; Taylor, B. W. 2004. Predator-induced resource heterogeneity in a stream food web. *Ecology* 85(8): 2279-2290.
- Meyer, M. D.; McCafferty, W. P.; Silldorff, E. L. 2003. Relationships of *Edmundsius* Day (Ephemeroptera: Siphonuridae), with notes on early instar larvae and eggs. *Pan-Pac. Entomol.* 79(2): 112-118.
- Milani, D.; Reynoldson, T. B.; Borgmann, U.; Kolasa, J. 2003. The relative sensitivity of four benthic invertebrates to metals in spiked-sediment exposures and application to contaminated field sediment. *Environ. Toxicol. Chem.* 22(4): 845-854.
- Miserendino, M. L.; Pizzolon, L. A. 2003. Distribution of macroinvertebrate assemblages in the Azul-Quemquemtreu river basin, Patagonia, Argentina. *New Zealand J. Mar. Freshwater Res.* 37(3): 525-539.
- Misof, B.; Fleck, G. 2003. Comparative analysis of mt LSU rRNA secondary structures of odonates: Structural variability and phylogenetic signal. *Insect Molecular Biol.* 12(6): 535-547.
- Molineri, C. 2003. *Haplohyphes* (Ephemeroptera: Leptohyphidae), new species and stage descriptions with a key to separate the species of the genus. *Zootaxa* 263: 1-11.
- Molineri, C.; Zuniga, M. C. 2004. *Lumahyphes*, a new genus of Leptohyphidae (Ephemeroptera). *Aquat. Insects* 26(1): 19-30.
- Monaghan, M. T.; Hieber, M.; Robinson, C. T.; Spaak, P.; Ward, J. V. 2003. Spatial patterns of Ephemeroptera, Plecoptera and Trichoptera diversity in fragmented alpine streams. *Int. Ver. Theor. Angew. Limnol. Verh.* 28(3): 1429-1435.
- Mookerji, N.; Weng, Z.; Mazumder, A. 2004. Food partitioning between coexisting Atlantic salmon and brook trout in the Sainte-Marguerite River ecosystem, Quebec. *J. Fish Biol.* 64(3): 680-694.
- Moring, J. B. 2003. Baseline assessment of fish communities, benthic macroinvertebrate communities, and stream habitat and land use, Big Thicket National Preserve, Texas, 1999-2001. U. S. Geol. Surv. Water Res. Invest. Rep. 03-4270. 33 pp.
- Morisi, A.; Battezzato, M.; Fenoglio, S. 2003. Ecological considerations on the presence and distribution of the genus *Epeorus* Eaton in the district of Cuneo (NW Italy) (Ephemeroptera: Heptageniidae). pp. 373-376. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Moulton, T. P.; de Souza, M. L.; Silveira, R. M. L.; Krsulovic, F. A. M. 2004. Effects of ephemeropterans and shrimps on periphyton and sediments in a coastal stream (Atlantic forest, Rio de Janeiro, Brazil). *J. N. Amer. Benthol. Soc.* 23(4): 868-881.
- Musslewhite, J. 2004. Effects of alternatives to clearcutting on invertebrate and organic detritus transport from headwaters in southeastern Alaska. U. S. Forest Service Pacific Northwest Research Station General Technical Report PNW-GTR Vol. 602: 1-28.
- Nguyen, V. V.; Bae, Y. J. 2003. The mayfly family Leptophlebiidae (Ephemeroptera) from Vietnam. *Insecta Koreana* 20 (3-4): 453-466.
- Nguyen, V. V.; Bae, Y. J. 2003. A new euthyplociid burrowing mayfly (Ephemeroptera: Euthyplociinae, Polymitarcyidae) from Vietnam. *Korean J. Biol. Sci.* 7(4): 279-282.
- Nguyen, V. V.; Bae, Y. J. 2003. Two new species of *Afronurus* (Ephemeroptera: Heptageniidae) from Vietnam. *Korean J. Entomol.* 33(4): 257-261.
- Nguyen, V. V.; Bae, Y. J. 2004. Descriptions of *Rhoenanthus sapa*, new species, and larval stage of *R. magnificus* Ulmer (Ephemeroptera: Potamanthidae) from Vietnam. *Aquat. Insects* 26(1): 9-17.
- Nieto, C. 2003. The genus *Camelobaetidioides* (Ephemeroptera: Baetidae) in Argentina. *Acta Zool. Mexicana Neuva Ser.* 88: 233-255. [In Spanish, English summary]
- Nieto, C. 2003. A new species of *Guajirolus* (Ephemeroptera: Baetidae) from Argentina and description of a new genus from Bolivia. pp. 153-158. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Ocon, C. S.; Capitulo, A. R. 2004. Presence and abundance of Ephemeroptera and other sensitive macroinvertebrates in relation

- with habitat conditions in pampean streams (Buenos Aires, Argentina). Arch. Hydrobiol. 159(4): 473-487.
- Ogbogu, S. S. 2003. Effects of different concentrations of inorganic compounds on the survival of *Cloeon perkinsi* larvae (Ephemeroptera). pp. 377-379. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Ogden, T. H.; Whiting, M. F. 2003. Phylogeny of Ephemeroptera: Molecular evidence. Entomol. Abh. 61(2): 126.
- Oscos, J.; Campso, F.; Escala, M. C. 2003. Feeding of the goby (*Gobio gobio* (L., 1758)) in Larraun river (Navarra, N. Spain). Limnetica 22(3-4): 77-84. [In Spanish, English summary]
- Palmer, C. G.; Williams, M. L.; Gordon, A. K. 2003. Riverine macroinvertebrate responses to chlorine and chlorinated sewage effluents: Community structure in the Umsunduze and Umbilo Rivers, KwaZulu-Natal, South Africa. Water SA 29(4): 473-481.
- Parnrong, S.; Campbell, I. C. 2003. The effects of temperature on egg hatching of the mayfly *Austrophlebioides marchanti* (Ephemeroptera: Leptophlebiidae). pp. 189-193. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Peru, N.; Thomas, A. 2001(2003). Additions and corrections to the Ephemeroptera fauna of North Africa. 7. Complementary description of *Baetis berberus* Thomas, 1986 (Ephemeroptera, Baetidae). Ephemera 3(2): 75-82. [In French, English summary]
- Pino Chala, W.; Mena Garcia, D.; Mosquera, M. L.; Caicedo, K. P.; Palacios, J. A.; Castro, A. A.; Guerrero, J. E. 2003. Diversity of macroinvertebrates and evaluation of the quality of the water of the Gulch the Bendicion, Municipality of Quibdo (Choco, Colombia). Acta Biol. Colombiana 8(2): 23-30. [In Spanish, English summary]
- Plant, W.; Ciborowski, J. J. H.; Corkum, L. D. 2003. Do tube-dwelling midges inhibit the establishment of burrowing mayflies? J. Great Lakes Res. 29(3): 521-528.
- Poff, N. L.; Wellnitz, T.; Monroe, J. B. 2003. Redundancy among three herbivorous insects across an experimental current velocity gradient. Oecologia 134(2): 262-269.
- Poinar, G., Jr.; Rykken, J.; LaBonte, J. 2004. *Parachordodes tegonotus* n. sp. (Gordioidea: Nematomorpha), a hairworm parasite of ground beetles (Carabidae: Coleoptera), with a summary of gordiid parasites of carabids. Syst. Parasitol. 58(2): 139-148.
- Polegatto, C. M.; Froehlich, C. G. 2003. Feeding strategies in Atalophlebiinae (Ephemeroptera: Leptophlebiidae), with considerations on scraping and filtering. pp. 55-61. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Poppels, A. 2003. Peculiarities and changes of benthic communities in the reservoirs of small HPP in Latvia. Acta Biol. Univ. Daugavpiliensis 3(1): 21-23.
- Puckett, R. T.; Cook, J. L. 2004. Physiological tolerance ranges of larval *Caenis latipennis* (Ephemeroptera: Caenidae) in response to fluctuations in dissolved oxygen concentration, pH and temperature. Texas J. Sci. 56(2): 123-130.
- Pupilli, E.; Puig, M. A. 2003. Effects of a major flood on the mayfly and stonefly populations in a Mediterranean stream (Matarranya Stream, Ebro River basin, north east of Spain). pp. 381-389. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Quinn, J. M.; Boothroyd, I. K. G.; Smith, B. J. 2004. Riparian buffers mitigate effects of pine plantation logging on New Zealand streams 2. Invertebrate communities. Forest Ecol. Manage. 191(1-3): 129-146.
- Ranvestel, A. W.; Lips, K. R.; Pringle, C. M.; Whiles, M. R.; Bixby, R. J. 2004. Neotropical tadpoles influence stream benthos: Evidence for the ecological consequences of decline in amphibian populations. Freshwater Biol. 49(3): 274-285.
- Ratti, C.; Barton, D. R. 2003. Decline in the diversity of benthic invertebrates in the wave-zone of eastern Lake Erie, 1974-2001. J. Great Lakes Res. 29(4): 608-615.
- Reash, R. J. 2004. Dissolved and total copper in a coal ash effluent and receiving stream: Assessment of *in situ* biological effects. Environ. Monit. Assessment. 96(1-3): 203-220.
- Rebora, M.; Piersanu, S.; Gaino, E. 2004. Visual and mechanical cues used for prey detection by the larva of *Libellula depressa* (Odonata Libellulidae). Ethology Ecol. Evolut. 16(2): 133-144.
- Richardson, J. S.; Shaughnessy, C. R.; Harrison, P. G. 2004. Litter breakdown and invertebrate association with three types of leaves in a temperate rainforest stream. Arch. Hydrobiol. 159(3): 309-325.
- Righetti, B.; Thomas, A. 2001(2002). Contribution to the study of *Baetis* species of the *alpinus*-group: *Baetis pasquetorum* n. sp. from the Southern Alps (Ephemeroptera, Baetidae). Ephemera 3(1): 5-14. [In French, English summary]
- Sagawa, S.; Yamashita, S.; Satou, K.; Nakamura, F. 2003. Fall habitat use and foraging mode of immature *Sakhalin taimen* in the river tributaries in northern Hokkaido, Japan. Japanese J. Ecol. 53(2): 95-105. [In Japanese]
- Salles, F. F.; Francischetti, C. N. 2004. *Cryptonympha dasilvai* sp. nov. (Ephemeroptera: Baetidae) from Brazil. Neotropical Entomol. 33(2): 213-216. [In Spanish]
- Salles, F. F.; Francischetti, C. N.; Roque, F. O.; Pepinelli, M.; Strixino, S. T. 2003. Preliminary survey of genera and species of Baetidae (Insecta: Ephemeroptera) from Sao Paulo State, with emphasis in the fauna sampled in low order forested stream. Biota Neotropica 3(2): 1-7. [In Portuguese, English summary]
- Salles, F. F.; Lugo-Ortiz, C. R. 2003. New species of *Cloeodes traver* (Ephemeroptera: Baetidae) from the State of Rio de Janeiro, Brazil. Neotrop. Entomol. 32(3): 449-452. [In Portuguese]
- Sartori, M. 2004. *Kangella* nom. nov. (Ephemeroptera, Ephemerellidae), replacement name pro *Eburella* Kang & Yang, 1995 nec Monne & Martins, 1973 (Coleoptera, Cerambycidae). Aquat. Insects 26(1): 75-76.
- Sartori, M.; Derleth, P.; Gattolliat, J.-L. 2003. New data about the mayflies (Ephemeroptera) from Borneo. pp. 403-406. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Sartori, M.; Elouard, J.-M. 2003. Mick Gillies (1920-1999). pp. 3-6. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Sartori, M.; Gattolliat, J.-L. 2003. First record and new species of the genus *Prosopistoma* Latreille, 1833 (Ephemeroptera, Prosopistomatidae) from Borneo (East Kalimantan, Indonesia). Mitt. Schweiz. Entomol. Gesell. 76 (3-4): 301-305.
- Sartori, M.; Peters, J. G. 2004. Redescription of the type of *Siphonurus davidi* (Navas, 1932) (Ephemeroptera: Siphonuridae). Zootaxa 469: 1-6.
- Schiller, W.; Schwenke, B. 2003. *Caenis lactea* (Burmeister) (Ephemeroptera) in north Rhine-Westphalia. Lauterbornia 48: 75. [In German]
- Schroer, A. F. W.; Belgers, J. D. M.; Brock, T. C. M.; Matser, A. M.; Maund, S. J.; Van den Brink, P. J. 2004. Comparison of laboratory single species and field population-level effects of

- the pyrethroid insecticide lambda-cyhalothrin on freshwater invertebrates. *Arch. Environ. Contam. Toxicol.* 46(3): 324-335.
- Shearer, K. A.; Stark, J. D.; Hayes, J. W.; Young, R. G. 2003. Relationships between drifting and benthic invertebrates in three New Zealand rivers: Implications for drift-feeding fish. *New Zealand J. Mar. Freshwater Res.* 37(4): 809-820.
- Shukla, A. N.; Shrivastava, S. 2004. Species diversity of macrozoobenthos: A tool for monitoring water pollution of Gandhisagar Reservoir, M.P., India. *Biol. Mem.* 30(1): 7-13.
- Sinitshenkova, N. D. 2003. Main ecological events in aquatic insects history. *Acta Zool. Cracoviensia* 46: 381-392.
- Slater, J.; Kondratieff, B. C. 2004. A review of the mayfly genus *Cinygmula* McDunnough (Ephemeroptera: Heptageniidae) in Colorado. *J. Kansas Entomol. Soc.* 77(2): 121-126.
- Smith, H.; Wood, P. J.; Gunn, J. 2003. The influence of habitat structure and flow permanence on invertebrate communities in karst spring systems. *Hydrobiologia* 510: 53-66.
- Soldan, T. 2003. Ephemeroptera phylogeny and higher classification: Present status and conflicting hypotheses. *Entomol. Abh.* 61(2): 125-126.
- Soldan, T. 2003. Vladimir Landa (1923-2001). pp. 7-13. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Soldan, T.; Yang, J.-T. 2003. Mayflies (Ephemeroptera) of Taiwan: Species composition, taxonomic shifts, distribution and biogeographical analysis. pp. 413-420. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Stead, T.K.; Schmid-Araya, J. M.; Hildrew, A. G. 2004. The contribution of subsurface invertebrates to benthic density and biomass in a gravel stream. *Arch. Hydrobiol.* 160(2): 171-191.
- Stephens, W. W.; Farris, J. L. 2004. Instream community assessment of aquaculture effluents. *Aquaculture* 231(1-4): 149-162.
- Stief, P.; Altmann, D.; DeBeer, D.; Bieg, R.; Kureck, A. 2004. Microbial activities in the burrow environment of the potamal mayfly *Ephoron virgo*. *Freshwater Biol.* 49(9): 1152-1163.
- Szczesny, B.; Wisniowska, A. 2003. Ephemeroptera of Mt. Babia Gora. pp. 123-139. *In: Woloszyn, B. W.; Woloszyn, D.; Celary, W. (eds.) Monografia fauny Babiej Gory. Komitet Ochrony Przyrody Polskiej Akademii Nauk, Krakow.* 489 pp. [in Polish]
- Taira, H.; Kuranishi, R. B. 2004. Freshwater benthic macroinvertebrates at the upper reaches of the Koito-gawa River. *J. Natur. Hist. Mus. Inst. Chiba Special Issue* 0(7): 47-86. [In Japanese]
- Tanatmis, M. 2004. The Ephemeroptera (Insecta) fauna of the Gokirmak river basin (Kastamonu) and of the seashore lying between Cide (Kastamonu)-Ayancik (Sinop). *Turkiye Entomol. Dergisi* 28(1): 45-56. [In Turkish]
- Taniguchi, H.; Tokeshi, M. 2004. Effects of habitat complexity on benthic assemblages in a variable environment. *Freshwater Biol.* 49(9): 1164-1178.
- Taylor, J. M.; Kennedy, J. H. 2003. Cohort dynamics of an overwintering *Caenis latipennis* population in Honey Creek, Oklahoma, U.S.A. pp. 201-204. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Thaler, K. 2003. Preliminary overview of the fauna of north Tyrol: Lower pterygote insects (Palaeoptera, Paurometabola, Paraneoptera (p.p.)) (Fragmenta Faunistica Tirolensia - XVI). *Linzer Biol. Beitr.* 35(2): 785-800. [In German, English summary]
- Thiere, G.; Schulz, R. 2004. Runoff simulation with particle-associated azinphosmethyl in multispecies stream microcosms: Implications for the field. *Environ. Toxicol. Chem.* 23(8): 1984-1990.
- Thomas, A.; Dominique, Y.; Horeau, V. 2001(2003). Mayflies of French Guiana. 7. Redescription of *Camelobaetidius cayumba* (Traver & Edmunds, 1968) (Ephemeroptera, Baetidae). *Ephemera* 3(2): 117-122. [In French, English summary]
- Thomas, A.; Peru, N. 2002(2003). Mayflies of French Guiana. 6. Description of *Waltzophius roberti* n. sp. (Ephemeroptera, Baetidae). *Bull. Soc. Hist. Natur. Toulouse* 138: 15-20. [In French, English summary]
- Thomas, A.; Peru, N.; Horeau, V. 2001(2003). Mayflies of French Guiana. 8. Description of *Camelobaetidius matilei* n. sp. and a key to the Guianese, species of this genus (Ephemeroptera, Baetidae). *Ephemera* 3(2): 123-133. [In French, English summary]
- Tiunova, T. M.; Kluge, N. Yu.; Ishiwata, S.-I. Revision of the East Palaearctic genus *Isonychia* (Ephemeroptera: Isonychiidae). *Canadian Entomol.* 136(1): 1-41.
- Tiunova, T. M.; Storozhenko, S. Yu. 2003. International Biodiversity Observation Year (IBOY): The mayflies (Insecta: Ephemeroptera) of the forest ecosystems of the Primorye Region. *Far East. Entomol.* 124: 16.
- Tojo, K.; Machida, R. 2003. Techniques in embryological studies of mayflies (Insecta: Ephemeroptera). pp. 205-209. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia.* 487 pp.
- Tojo, K.; Matsukawa, K. 2003. A description of the second species of the family Dipteromimidae (Insecta, Ephemeroptera), and genetic relationship of two dipteromimid mayflies inferred from mitochondrial 16S rRNA gene sequences. *Zool. Sci.* 20(10): 1249-1259.
- Tolonen, K. T.; Hamalainen, H.; Holopainen, I. J.; Mikkonen, K.; Karjalainen, J. 2003. Body size and substrate association of littoral insects in relation to vegetation structure. *Hydrobiologia* 449: 179-190.
- Tong, X.-L.; Dudgeon, D.; McCafferty, W. P. 2003. The adult of *Cloeodes longisetosus* (Braasch and Soldan, 1980) and a revised description of the larva (Ephemeroptera, Baetidae). *Acta Zootaxonom. Sinica* 28(4): 669-672.
- Usio, N.; Townsend, C. R. 2004. Roles of crayfish: Consequences of predation and bioturbation for stream invertebrates. *Ecology* 85(3): 807-822.
- Valladolid, M.; Przybylski, M. 2003. Feeding ecology of *Cobitis paludica* and *Cobitis calderoni* in central Spain. *Folia Biol.* 51 (Suppl.): 135-141.
- Verneaux, J.; Verneaux, V.; Schmitt, A.; Prouteau, C. 2004. Assessing Biological Orders of river sites and biological structures of watercourses using ecological traits of aquatic insects. *Hydrobiologia* 519(1-3): 39-47.
- Verneaux, V.; Verneaux, J.; Schmitt, A.; Lambert, J.-C. 2004. Relationships of macrobenthos with dissolved oxygen and organic matter at the sediment-water interface in ten French lakes. *Arch. Hydrobiol.* 160(2): 247-259.
- Vidinova, Y. 2003. Contribution to the study of mayfly fauna (Ephemeroptera) in Bulgaria. pp. 159-163. *In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di*

- Perugia, Perugia. 487 pp.
- Vidinova, Y.; Yaneva, I.; Tyufekchieva, V. 2003. Boris Konstantinov Russev (1929-2002). pp. 21-27. In: Gaino, E. (ed.) Research update on Ephemeroptera and Plecoptera. Universita di Perugia, Perugia. 487 pp.
- Vieira, N. K. M.; Clements, W. H.; Guevara, L. S.; Jacobs, B. F. 2004. Resistance and resilience of stream insect communities to repeated hydrologic disturbances after a wildfire. *Freshwater Biol.* 49(10): 1243-1259.
- Villanueva, V. D.; Albarino, R.; Modenutti, B. 2004. Grazing impact of two aquatic invertebrates on periphyton from an Andean-Patagonian stream. *Arch. Hydrobiol.* 159(4): 455-471.
- Vinson, M. R.; Hawkins, C. P. 2003. Broad-scale geographical patterns in local stream insect genera richness. *Ecography* 26(6): 751-767.
- Voigt, H.; Beilharz, M. 2003. Remarkable records of nymphs of mayflies in the upper region of the Elbe River in Germany. *Lauterbornia* 46: 69-72. [In German, English summary]
- von der Ohe, P. C.; Liess, M. 2004. Relative sensitivity distribution of aquatic invertebrates to organic and metal compounds. *Environ. Toxicol. Chem.* 23(1): 150-156.
- Wang, B.-X.; Lu, S.; Yang, L.-F. 2003. A study on the selection of metrics in water quality bioassessment – a case study on small water bodies in Zijinshan Mountain Nanjing City. *Nanjing Nongye Daxue Xuebao* 26(4): 46-50. (In Chinese, English summary]
- Wang, T.-Q.; McCafferty, W. P. 2004. Heptageniidae (Ephemeroptera) of the world. Part I: Phylogenetic higher classification. *Trans. Amer. Entomol. Soc.* 130(1): 11-45.
- Webb, J. M.; McCafferty, W. P. 2003. New records of mayflies (Ephemeroptera) from Alberta, Canada. *Entomol. News* 114(4): 230-232.
- Wellnitz, T.; Rader, R. B. 2003. Mechanisms influencing community composition and succession in mountain stream periphyton: Interactions between scouring history, grazing, and irradiance. *J. N. Amer. Benthol. Soc.* 22(4): 528-541.
- Wendling, K.; Haybach, A. 2003. Notes on some mayflies (Insecta: Ephemeroptera) collected in the River Tisza (Hungary) after the cyanide spill at Baia Mare (Romania) in 2000. *Lauterbornia* 46: 77-81. [In German, English summary]
- Wennemann, L.; Sipos, P.; Wright, L. C. 2004. The mayfly monument and the moth of freedom. *Amer. Entomol.* 50(2): 87-89.
- Wiersema, N. A. 2003. *Acerpenna sulfurosus*, comb. n. (Ephemeroptera: Baetidae). *Entomol. News* 114(1): 55.
- Wiersema, N. A.; McCafferty, W. P. 2003. *Ableptemetes*: A new genus of Tricorythodinae (Ephemeroptera: Leptohyphidae) from Mexico and Central America. *Entomol. News* 114(1): 37-40.
- Williams, D. D. 2003. The brackishwater hyporheic zone: Invertebrate community structure across a novel ecotone. *Hydrobiologia* 510: 153-173.
- Williams, M. L.; Palmer, C. G.; Gordon, A. K. 2003. Riverine macroinvertebrate responses to chlorine and chlorinated sewage effluents: Acute chlorine tolerances of *Baetis harrisoni* (Ephemeroptera) from two rivers in KwaZulu-Natal, South Africa. *Water SA* 29(4): 483-488.
- Zahn, S. 2003. Discovery of *Ephemera glaucops* (Insecta: Ephemeroptera; Ephemeridae) in post-mining lakes in Brandenburg and Saxony (Germany). *Lauterbornia* 46: 89-92. [In German, English summary]
- Zawal, A. 2003. The role of insects in the dispersion of water mites. *Acta Biol. Univ. Daugavpiliensis* 3(1): 9-14.
- Zhang, L.-B.; Liang, B.; Zhou, S.-Y.; Lu, L.-R.; Zhang, S.-Y. 2004. Prey selection of *Tylonycteris pachypus* and *T. robustula* (Chiroptera : Vespertilioninae) in Guangxi, China. *Zool. Res.* 25(2): 105-110. [In Chinese]
- Zhang, Y.; Negishi, J. N.; Richardson, J. S.; Kolodziejczyk, R. 2003. Impacts of marine-derived nutrients on stream ecosystem functioning. *Proc. Roy. Soc. Biol. Sci. Ser. B* 270(1529): 2117-2123.
- Zhou, C.; Gui, H.; Zhou, K. 2003. Imaginal key to families of Ephemeroptera from China (Insecta). *Nanjing Shida Xuebao* 26(3): 57-60. [In Chinese]
- Zhou, C.-F.; Peters, J. G. 2003. The nymph of *Siphuriscus chinensis* and additional imaginal description: A living mayfly with Jurassic origins (Siphuriscidae new family: Ephemeroptera). *Fla. Entomol.* 86(3): 345-352.
- Zhou, C.-F.; Sun, L.; McCafferty, W. P. 2004. A new species of *Brachycercus* Curtis (Ephemeroptera: Caenidae) from China. *Proc. Entomol. Soc. Wash.* 106(2): 312-318.
- Zhou, C.-F.; Zheng, L.-Y. 2003. On the etymology of the Chinese name for the mayfly "Fu-You." *Entomol. Knowledge* 40(2): 190-191. [In Chinese, English summary]
- Zhou, C.-F.; Zheng, L.-Y. 2003. The primitive and unique characters of extant mayflies. *Entomol. Knowledge* 40(4): 294-298. [In Chinese, English summary]
- Zhou, C.-F.; Zheng, L.-Y. 2003. The genus *Cinygmia* (Ephemeroptera: Heptageniidae) in China, with a description of a new species. *Acta Entomol. Sinica* 46(6): 755-760.
- Zhou, C.-F.; Zheng, L.-Y. 2003. Two synonyms and one new species of the genus *Ephemera* from China (Ephemeroptera, Ephemeridae). *Acta Zootaxonom. Sinica* 28(4): 665-668.
- Zhou, C.-F.; Zheng, L.-Y. 2004. The genus *Prosopistoma* from China, with descriptions of two new species (Ephemeroptera: Prosopistomatidae). *Aquat. Insects* 26(1): 3-8.
- Zhou, C.-F.; Zheng, L.-Y.; Zhou, K.-Y. 2003. Morphological diversity of mayfly nymphs and its adaptive derivation. *Chinese J. Zool.* 38(6): 81-85. [In Chinese]
- Zhou, C.-F.; Zhou, K.-Y. 2003. Status of phylogenetic research on the Palaeoptera (Insecta, Pterygota). *Acta Zootaxonom. Sinica* 28(2): 192-195. [In Chinese]



The Mayfly Newsletter (ISSN 1091-4935) is the official newsletter of the International Conferences on Ephemeroptera and is published to facilitate

communication among ephemeropterists. Subscriptions to the Newsletter are free. To place your name on the mailing list or to contribute information for the next issue, contact Peter M. Grant, editor, *The Mayfly Newsletter*, Department of Biological Sciences, Southwestern Oklahoma State University, 100 Campus Drive, Weatherford, Oklahoma 73096-3098 USA, phone (580) 774-3294, FAX (580) 774-7140, email peter.grant@swosu.edu. This publication was authorized by the Dean of Arts and Sciences and was printed at a cost of \$489.75 for 500 copies.

# Address Updates

Corrections or additions to the information in the mailing list since the last issue are listed below. Updated addresses will be published as they become available. Please inform the editor of any changes in postal or email addresses.

JR BAARS  
LIMNOLOGY UNIT  
ZOOLOGY DEPARTMENT  
UNIVERSITY COLLEGE DUBLIN  
BELFIELD  
DUBLIN 4  
IRELAND  
janrobert.baars@ucd.ie

MA BEKETOV  
PO BOX 156  
630048 NOVOSIBIRSK  
RUSSIA  
mbeketov@mail.ru

J EARLE  
20 RED FOX LANE  
MECHANICSBURG PA 17050-1627  
USA  
JaneEarle7@msn.com

C ESQUIVEL  
BIOLOGIA UNA  
HEREDIA  
COSTA RICA  
cesquive@una.ac.cr

T FUJITANI  
4-6-7-105 KAMITODA  
TODA  
SAITAMA 335-0022  
JAPAN  
zxcvpoiulkjh1108@almond.ocn.ne.jp

JL GATTOLLIAT  
MUSEUM OF ZOOLOGY  
PALAIS DE RUMINE  
PLACE DE LA RIPONNE 6-CP  
CH-1014 LAUSANNE  
SWITZERLAND

A HAYBACH  
LANDESUMWELTAMT NRW  
FB 55 GUTE DER  
OBERFLACHENGWASSER  
POSTFACH 102363  
45023 ESSEN  
GERMANY  
Arne.Haybach@lua.nrw.de

R LOUQUE  
101 CITY HALL PLAZA  
STORMWATER SERVICES  
DURHAM NC 27701-3329  
USA  
Robert.Louque@durhamnc.gov

W MABEE  
MISSOURI DEPARTMENT OF  
CONSERVATION  
RESOURCE SCIENCE CENTER  
1110 SOUTH COLLEGE AVENUE  
COLUMBIA MO 65201-5204  
USA  
WR.Mabee@mdc.mo.gov

SE MCMURRAY  
MISSOURI DEPARTMENT OF  
CONSERVATION  
RESOURCE SCIENCE CENTER  
1110 SOUTH COLLEGE AVENUE  
COLUMBIA MO 65201-5204  
USA  
Stephen.McMurray@mdc.mo.gov

TH OGDEN  
SCHOOL OF LIFE SCIENCES  
PO BOX 874501  
ARIZONA STATE UNIVERSITY  
TEMPE AZ 85287-4501  
USA  
heath\_ogden@asu.edu

JW RICHARDSON JR  
5273 COBBLE CREEK ROAD APT 231  
SALT LAKE CITY UT 84117-6738  
USA

M SARTORI  
MUSEUM OF ZOOLOGY  
PALAIS DE RUMINE  
PLACE DE LA RIPONNE 6-CP  
CH-1014 LAUSANNE  
SWITZERLAND

KG SIVARAMAKRISHNAN  
FLAT NO 3 "RAMS"  
NO 7 NATESAN STREET  
T NAGAR  
CHENNAI 600017  
INDIA  
kgskrishnan@hotmail.com

S SPICHIGER  
7031 ELIZABETHTOWN ROAD  
MANHEIM PA 17545-8391  
USA

T STONE  
804 BUCKINGHAM ROAD  
COLUMBIA SC 29205-2111  
USA  
traystone@sc.rr.com

K TENNESSEN  
PO BOX 585  
WAUTOMA WI 54982-0585  
USA  
ktennessen@centurytel.net

## Current Address Unknown

AE FELDMAN  
7917 E SANDALWOOD DRIVE  
SCOTTSDALE AZ 85250-7212  
USA

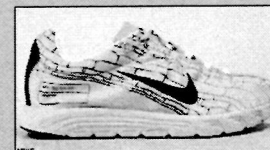
CR LUGO-ORTIZ  
DEPARTMENT ENTOMOLOGY  
PURDUE UNIVERSITY  
WEST LAFAYETTE IN 47907-1968  
USA

RL NEWELL  
1550 JOHNSTON AVENUE  
RICHLAND WA 99352-2913  
USA  
RNewell951@aol.com

P RANDOLPH  
DEPARTMENT ENTOMOLOGY  
SMITH HALL  
PURDUE UNIVERSITY  
WEST LAFAYETTE IN 47907-1968  
USA

W ROCK  
5109 N EAST RIVER ROAD APT 1L  
CHICAGO IL 60656-2618  
USA  
MACHINE21M@aol.com

T VOGT  
WISCONSIN DEPARTMENT OF  
NATURAL RESOURCES  
BUREAU OF ENDANGERED RES  
GEF 2 ER/4  
MADISON WI 53707-7921  
USA



Nike Mayfly Running Shoe