

**REPORT ON THE X INTERNATIONAL
CONFERENCE ON EPHEMEROPTERA
AND XIV INTERNATIONAL SYMPOSIUM
ON PLECOPTERA**

The XIVth International symposium on Plecoptera was held jointly with the X International Conference on Ephemeroptera August 5-11, 2001, in Perugia Italy. Conference site was the Hotel Giò, where accommodations for participants were also provided. Oral presentations and posters on mayfly and stonefly science were integrated according to the topics: behavior; systematics, taxonomy and phylogeny; life history and reproduction; biogeography, biodiversity and ecology; and physiology, morphology and ultrastructure. More than 110 participants from 31 countries attended, along with numerous accompanying persons. There was an exciting and encouraging increase in young researchers and participation from South America and Africa.

The meetings were planned and convened by Professor Elda Gaino, Director of the Department of Animal Biology and Ecology of the University of Perugia and member of the Permanent Committee of the International Conferences on Ephemeroptera. Members of her organizing committee were Manuela Reborá, Gianandrea Salerno and Carlo Belfiore, and collaborators were Antonello Sotgiu, Matteo Cardinali, Umberto Chiappafreddo, Tisza Lancioni and Barbara Todini.

Elda, her committee, and her family Gabriele, Daniele and Silvia were gracious hosts, providing excellent facilities, superb opportunities for fellowship among participants, excellent breakfasts and luncheons at the Hotel Giò, a magnificent conference dinner with local dancers for entertainment, and an instructive and interesting field trip to Valle Umbra, River Vera (with opportunity for collecting), Monti Sibillini National Park, Pian Grande, Norcia, and River Sordo (collecting). Tasty snacks of pizza, homemade desserts and drinks were provided at the stream collection sites. An optional trip to the historic walled city of Assisi, with tour through the Church of St. Francis of Assisi, was enjoyed by many participants on the last day of the joint meeting.

Our Standing Committee expresses its appreciation to Elda and her workers for their hard work and planning that made the joint meeting a **RESOUNDING SUCCESS!** The titles of papers and posters and their presenters are reprinted here. Manuscripts submitted from these are in the process of review, and Elda has indicated that accepted ones will be published in a Proceedings by 2003.

**2001 IJM ON EPHEMEROPTERA AND PLECOPTERA
PERUGIA, 5-11 AUGUST 2001**

Monday, 6

8.30	Registration
9.30	Gaino E. - Opening speech
9.40	Welcome by Academic and Official Personalities
10.30	Celebration drink
11.00	Flannagan .J.: Obituary for our Dear Departed Colleagues
11.15	Invited speaker- Dallai R. - The sperm structure of Paleoptera revisited
Oral presentations BEHAVIOUR - Chairman: John E. Brittain	
12.15	Dominguez E. - Unusual mating flight and oviposition in a species of <i>Miroculis</i> (Leptophlebiidae) from NE Argentina
12.35	Rupprecht R. - Drumming signals within the genus <i>Dinocras</i> (Plecoptera: Perlidae)
13.00	Lunch
Oral presentations BEHAVIOUR: Chairman: John E. Brittain	
15.30	Sandberg J.S., Stewart K.W. - Continued studies of drumming in North America Plecoptera; Evolutionary implications
15.50	Takemon Y. - Distance of upstream migration by female mayfly <i>Ephemera strigata</i> Eaton
16.10	Albarino R., Diaz Villanueva V.- Feeding plasticity of two Plecopteran larvae in an Andean low order mountain stream
16.30	Füreder L., Welter C., Jackson J.K. - Dietary and stable isotope (d13C, d15N) analyses in alpine Ephemeroptera and Plecoptera

16.50	Coffee break
17.15	Poster presentations BEHAVIOUR
	Macedo Polegatto C., Froehlich C.G. - Feeding strategies in Atalophlebiinae (Ephemeroptera: Leptophlebiidae) [with a consideration of scraping and filtering]
	Luzòn Ortega J.M., Tierno de Figueroa J.M. - Adult behaviour of <i>Nemoura fulviceps</i> Klapalek, 1902 (Plecoptera, Nemouridae)
	Zuniqa de Cardoso M. del C., Grisales H.M. - Nocturnal emergence patterns of <i>Anacroneuria</i> sp. (Plecoptera: Perlidae)
Tuesday, 7	
9.00	Soldan T. - Current knowledge on the order Ephemeroptera: Present state and future perspectives
Oral presentations SYSTEMATICS, TAXONOMY & PHYLOGENY OF EPHEMEROPTERA - Chairman: Michael D. Hubbard	
10.00	Staniczek A.H. - The mandible of mayflies and its implications for pterygote phylogeny
10.20	Glaizot O., Oliarinony R., Elouard J.M., Sartori M. - Evolution of Tricorythidae and allied taxa (Ephemeroptera: Pannota): A revisited phlogeny
10.40	Gattolliat J.L., Sartori M. - An overview of the Baetidae of Madagascar
11.00	Coffee break
Oral presentations SYSTEMATICS, TAXONOMY & PHYLOGENY OF EPHEMEROPTERA - Chairman: Michael D. Hubbard	
11.15	Bauernfeind E. - Mayflies from Greece (Insecta: Ephemeroptera) - A provisional check-list
11.35	Nieto Peñalver M.C. - Two new species of the genus <i>Guajirolus</i> (Ephemeroptera:Baetidae) from Bolivia and Argentina

11.55	Pescador M.L., Elouard J.M. - New generic status of <i>Madeconeuria</i> from Madagascar (Ephemeroptera: Oligoneuriidae)
12.15	Alba-Tercedor J., Derka T., Jáimez Cuéllar P. - Taxonomical problems identifying European species of the genus <i>Epeorus</i> Eaton, 1881 (Ephemeroptera: Heptageniidae)
12.35	Alba-Tercedor J., Derka T. - European species of the genus <i>Torleya</i> Lestae, 1917 (Ephemeroptera: Ephemerellidae)
13.00	Lunch
Oral presentations SYSTEMATICS, TAXONOMY & PHYLOGENY OF EPHEMEROPTERA - Chairman: Michael D. Hubbard	
15.00	Blanco-Belmonte L., Ruaise V., Peters J.G. - The nymph of <i>Paramaka</i> Savage and Dominguez (Ephemeroptera: Leptophlebiidae: Atalophlebiinae)
15.20	Kluge N.J. - System and phylogeny of Pinnatitergaliae
15.40	Poster presentations SYSTEMATICS, TAXONOMY & PHYLOGENY OF EPHEMEROPTERA
	Alba-Tercedor J., El Alami M. - A new species of <i>Rhithrogena</i> group- <i>germanica</i> from Morocco (Ephemeroptera: Heptageniidae)
	Alba-Tercedor J., El Alami M. - New taxonomical finding in Ephemeroptera of genus <i>Baetis</i> from Morocco
	Fujitani T. - Some <i>Baetis</i> species in Japan (Ephemeroptera, Baetidae), with placement in species groups
	Ishiwata S. - The eggs of Japanese mayflies
	Puig M.A., Gaino E., Ubero-Pascal N., Ferreras-Romero M. - New species of Leptophlebiidae (Ephemeroptera) from the Iberian Peninsula
	Belfiore C., Barber James H.M., Gaino E. - The eggs of <i>Afromurus</i> Lestage, 1924 (Ephemeroptera, Heptageniidae)
	Akers A., Peters W.L., Peters J.G. - <i>Radima edmundsorum</i> , a new genus and species of Leptophlebiidae: Atalophlebiinae from Madagascar (Ephemeroptera)

	Hitchings T.R., <u>Staniczek A.H.</u> - Taxonomy and phylogeny of the New Zealand mayfly genus <i>Nesameletus</i>
	Vidinova Y. - Contribution to the study of mayfly fauna in Bulgaria (Ephemeroptera)
	Wichard W. - Fossil mayfly nymphs in Baltic amber
	Alba-Tercedor J., <u>Jáimez Cuéllar P.</u> - The knowledge of mayflies in Spain
	Zuniga de Cardoso M. del C., Dominguez E. - First generic record and description of a new species of <i>Ulmeritoides</i> (Ephemeroptera: Leptophlebiidae) from Colombia
Oral presentations	
HISTORY & REPRODUCTION - Chairman: Michel Sartori	
16.00	Haigh E.H. - Life history of <i>Adenophlebia auriculata</i> (Leptophlebiidae) in a subtropical stream in South Africa
16.20	Zabric D. - Sampling scheme and life histories of mayflies from Heptageniidae family (Insecta: Ephemeroptera) in Alpine running waters
16.40	<u>Humpesch U.H.</u> , Elliott J.M. - Egg hatching: one mechanism for life cycle partitioning in Plecoptera and Ephemeroptera
17.00	Coffee break
17.30	<u>Parnrong S.</u> , Campbell I.C. - The effects of temperature on egg hatching of the mayfly <i>Austrophlebioides marchanti</i> (Ephemeroptera: Leptophlebiidae)
17.50	<u>Knispel A.</u> , Sartori M. - Egg development at low temperatures in some species of Ephemeroptera and Plecoptera.
18.10	Poster presentations LIFE HISTORY & REPRODUCTION
	Maradova M. - Life history of <i>Oligoneuriella rhenana</i> (Ephemeroptera: Oligoneuriidae) at two selected Vitava basin localities, Czech Republic
	<u>Stewart K.W.</u> , Sandberg J.B. - The life history of <i>Kogotus modestus</i> (Banks) (Plecoptera: Perlodidae)

	Tojo K., Machida R. - External features of embrionic development of a mayfly, <i>Ephemera japonica</i> McLachlan (Ephemeroptera, Ephemeridae)
	Vega-Moreno F.J. - Contributions to the knowledge of the biology of <i>Perla madritensis</i> Rambur, 1842 (Plecoptera, Perlidae)
	Watanabe N., Yamamoto K. - Life cycle and effect of temperature on the egg hatching of <i>Ephemera orientalis</i> in a Japanese stream
	Yoshimura M. - Difference of ovariole maturation depending on emergence date in <i>Isoperla aizuana</i> (Perlodidae, Plecoptera)
	Earle J. - Flight periods of stoneflies from several Pennsylvania streams
	Erba S., Melissano L., <u>Buffagni A.</u> , Life cycles of four species of Baetidae (Insecta, Ephemeroptera) in a north Italian prealpine stream
18.45	Auction
Wednesday, 8	
	Field trip
Thursday, 9	
9.00	Zwicky P. - Plecoptera research today: questions to be asked in the new millennium
Oral presentations SYSTEMATICS, TAXONOMY & PHYLOGENY OF PLECOPTERA - Chairman: Claudio G. Froehlich	
10.00	Sezzi E. <u>Fochetti R.</u> , Caccone G.- Mitochondrial DNA rates and phylogeny in the genus <i>Tyrrhenoleuctra</i> (Plecoptera, Insecta)
10.20	<u>Fochetti R.</u> , De Mattheis E., Ketmaier V., Oliverio M., Tierno de Figueroa J.M., Sezzi E. - Electrophoretic studies on the Mediterranean genus <i>Tyrrhenoleuctra</i> (Plecoptera, Insecta)
10.40	Orce M. - A new species of <i>Anacroneuria</i> from NW Argentina (Plecoptera: Perlidae)

11.00	Coffee break
11.30	Szczytko S.W. - Update on studies on Eastern Nearctic <i>Isoperla</i> (Plecoptera: Isoperlinae)
11.50	Harper P.P., Harper F. - Comparison of Nearctic and Palaearctic species groups of <i>Leuctra</i> . Affinities and origin of the North American fauna
12.10	Sivec I., Graf W. - What we really know about European stonefly fauna - Description of new <i>Perla</i> species from Central Europe
12.30	Poster presentations SYSTEMATICS, TAXONOMY & PHYLOGENY OF PLECOPTERA
	Helesic J. - New records of Plecoptera in Central Europe
	Zhiltzova L.A. - The Leuctriclae (Plecoptera) of Russia and Adjacent territories (within the limits of the former USSR)
	Stark B.P., Zuniga de Cardoso M. del C. - The <i>Anacroneuria guambiana</i> complex (Plecoptera: Perlidae) of South America
	Neu-Becker U., Zwick P. - Plecoptera World Catalogue Database Project
13.00	Lunch
Oral presentations BIOGEOGRAPHY, BIODIVERSITY & ECOLOGY - Chairman: Carlo Belfiore	
15.30	Arnekleiv J.V., Kjaerstad G. - Changes in the abundance and densities of Plecoptera, Ephemeroptera and Trichoptera following hydropower regulation in a Central Norwegian river
15.50	Barber-James H.M. - The biogeography of Afrotropical Prosopistomatidae
15.50	Brittain J.E., Castella E., Knispel S. - Ephemeropteran and Plecopteran communities in glacial rivers and other arctic and alpine running waters
16.10	Derleth P., Schaefer R., Sartori M., Gattolliat J.L. - Mayflies (Ephemeroptera). A valuable tool to assess the impact of activities in tropical forests?

16.50	Coffee break
17.15	Helesic J. - Habitat preference and life strategy of <i>Perlambutmeisteriana</i> Claassen, 1936 (Plecoptera) in Central European streams
17.35	Grant P.M., Richardson A.K. - Temporal and spatial distribution of mayflies (Ephemeroptera) in a sandy bottom stream in Western Oklahoma (USA)
17.55	Poster presentations BIOGEOGRAPHY, BIODIVERSITY & ECOLOGY
	Camargo C., Rozo M.P. - Colombian Darien Ephemeroptera
	Derleth P., Schaepfer R., Sartori M., Gaitniliat J.L. - How do jogging activities influence the macroinvertebrate composition in tropical stream systems (East Borneo, Indonesia)?
	Di Giovanni M.V., Goretti E., Ceccagnoli D., La Porta G., Chiappafreddo U. - Community composition and longitudinal distribution of Ephemeroptera and Plecoptera in the Chiascio River (Umbria-Italy)
	Dolisy D., Dohet A. - The use of Ephemeroptera to assess aquatic biodiversity in the rhithral part of the Luxembourgish rivers
	Morisi A., Battegazzore M., Fenoglio S. - Ecological considerations on the distribution of Epeorus species in Cuneo district (N-W Italy)
	Giustini M., Fochetti R., Cicolani B., Miccoli F.P., Tierno de Figueroa M. -The Plecoptera of Abruzzo (Central Italy)
	Godunko R.J. - Biodiversity of mayflies (Insecta: Ephemeroptera) of the Crimean Peninsula
	Godunko R.J., Klonowska-Olejnik M. - Contribution to the taxonomy, ecology and biogeography of the Central European species of <i>Rhithrogena loyolaea</i> species-group (Ephemeroptera, Heptageniidae)
	Eriksson L. - Recolonisation of Ephemeropterans due to decreased sulphur deposition

	Zahradkova S., Dusek L., Vojtiskova D., Soldan T. - Environmental profiles of some Central European Ephemeroptera and Plecoptera: A discussion of the importance of identification on the species, generic and family level
	Buffagni A., Belfiore C., Erba S., Kemp J.L., Cazzola M., Hering D. - Mayfly information in the development of a Europe-wide system for assessing the quality of rivers: The AQEM project, with special emphasis on Italy and Southern Europe
Friday, 10	
Oral presentations BIOGEOGRAPHY, BIODIVERSITY & ECOLOGY - Chairman: Kenneth Stewart	
9.00	Jacob U. - Africa and its Ephemeroptera: Remarks from a biogeographical view.
9.20	Krno I. - The stonefly regions and habitats in Slovakia
9.40	McLellan I. - Stewart Island stoneflies
10.00	Ogbogu S.S. - Effects of different concentration of inorganic compounds on the survival of <i>Cloeon perkinsi</i> larvae (Ephemeroptera: Baetidae)
10.20	Pescador M.L., Rasmussen A.K., Barton A. R. - The Florida Panhandle: A biogeographic enigma
10.40	Coffee break
11.10	Rocabado G., Wasson J.G. - Habitat and distribution of Ephemeroptera in 30 stream sites of the Bolivian Amazonian Basin
11.30	Sartori M., Derleth P., Gattolliat J.L. - Mayflies (Ephemeroptera) from Borneo: Should we open the Pandora Box or not?
11.50	Bae Y.J., Campbell I.C. - Mayfly (Ephemeroptera) burrowers in Australia
13.00	Lunch
Oral presentations BIOGEOGRAPHY, BIODIVERSITY & ECOLOGY - Chairman: Javier Alba-Tercedor	

15.30	Soldan T., Yang Y-T. - Diversity of mayflies (Ephemeroptera) of Taiwan: A biogeographical analysis
15.50	Teslenko V.- Biogeographical aspects of the stonefly fauna (Plecoptera) of the Kuril Archipelago
16.10	Yaneva I., Vidinova Y., Tyufekchieva V. - Composition and abundance of Ephemeroptera and Plecoptera (Insecta) in river sections with water discharged installations
16.30	Puig M.A., Puig E., - Effects of a major flood-disaster to the mayfly and stonefly populations in a Mediterranean stream (Matarranya Stream, Ebro River Basin, North East of Spain)
16.50	Coffee break
17.15	Poster presentations BIOGEOGRAPHY, BIODIVERSITY & ECOLOGY
	Jezberova M. - Distribution and density of Ephemeroptera and Plecoptera in the Radikový brook, Czech Republic, in relation to selected environmental factors
	Kennedy J.H. - Mayfly diversity and seasonality in the upper New River, Virginia, USA
	Kraft G.F., Kishimoto T. - Mayflies and stoneflies collected in the intertidal zone of the Yachats River, Lincoln County, Oregon, USA
	Loskutova O. - Fauna of stoneflies (Plecoptera) of the European North-East of Russia and its change under influence of the anthropogenic factor
	Mavri U., Podgornik S., Sivec I., Toman M.I. - The ecological investigations of the stoneflies distribution in a subalpine stream
	Rasmussen A.K., Pescador M.L., Barton A.R. - A survey of the Plecoptera of Florida
	Sherk T.E., Rau G.H., Kraft G.F. - Emergence of Plecoptera from Findley Lake in the coniferous forest of the Cascade Mountains, USA
	Sivec I., Chanpaisaeng J., Damrak K. - Biodiversity of stoneflies in Khao-Yai National Park, Thailand

	Spacek J. - Mayflies and stoneflies (Plecoptera) of Krkonose Mountains in 20th century
	Tyufekchieva V. - Composition and distribution of Plecoptera order (Insecta) in Bulgaria
	Graf W., Weinzierl A. - Distribution of <i>Brachyptera starmarchi</i> Sowa, 1966 and <i>Capnia vidua rilensis</i> Rauser, 1962 in Europe with some ecological notes
	Graf W., Hutter G. - Recent findings of the endangered stonefly <i>Brachyptera trifasciata</i> (Pictet, 1832) in Austria with a description of its habitat
20.30	Social dinner (entertainment by a folk group, prize for . the best poster)
Saturday, 11	
Oral presentations PHYSIOLOGY, MORPHOLOGY & ULTRASTRUCTURE- Chairman: Elda Gaino	
9.00	Fausto A.M., Belardinelli M., Tierno de Figueroa J.M., Fochetti R., Mazzini M. - Spermatozoa ultrastructure in Plecoptera: Adaptive and phylogenetic implications
9.30	Puig M.A., Ríos H. - About the respiration patterns of Perla larvae: Differences between sexes and responses to toxic crude-extracts of epilithic cyanobacteria
9.50	Rosciszewska E. - Ultrastructure of the egg capsules of the South-American stoneflies (Plecoptera: Perlidae)
10.10	Zwick P. - Characteristic shapes and patterns of change of developing wing pads in larvae of different Plecoptera families
10.30	Gaino E., Rebora M. - Feeding behaviour and sensilla of the (Ephemeroptera: Baetidae)
10.50	Coffee break
11.15	Poster presentations PHYSIOLOGY MORPHOLOGY & ULTRASTRUCTURE
	Díaz Villanueva V., <u>Albarino, R.</u> - Algal ingestion and digestion by two Ephemeropteran larvae from a Patagonian Andean stream

	Kionowska-Cilejnik M., Jazdzewska T. - Scanning electron microscopy study of the eggs of some rare mayfly species: <i>Ametropus fragilis</i> Albarda, <i>Isonychia jpnota</i> (Walker) and <i>Neoephemera maxima</i> (Joly)
	Macedo Polegatto C., Froehlich C.G. - Functional morphology of the muscles of the mouthparts of Atalophlebiinae (Ephemeroptera: Leptophlebiidae) with adaptive approach
	Kapoor N. - Fine structure of the compound eye of a stonefly
	Gaino E., Rebora M. - Adhesiveness of the eggs <i>Ecdyonurus venosus</i> . Effect of the substratum lithology
12.00	Ephemeroptera & Plecoptera concluding speech
13.00	Lunch
16.30	Visit of Assisi (20 km far from Perugia)



SYMPOSIUM PARTICIPANTS (LEFT SIDE)



SYMPOSIUM PARTICIPANTS (RIGHT SIDE)

**JOINT BUSINESS MEETING
MAYFLY AND STONEFLY COMMITTEES
9 AUGUST, 2001**

Members of both committees met to discuss the site for the 2004 joint meeting. Two formal proposals were submitted to host the meeting in the USA: one by Jack Stanford, communicated by Stan Szczytko, for the Flathead Biological Station in Montana, and the other by Peter Grant for Oklahoma. Copies of the proposals were distributed to participants, who later voted for the Montana site.

Next, there was discussion of the site for the 2007 meetings. Two preliminary proposals were submitted: Yasuhiro Takemon and Shigekazu Uchida for Japan and Helen Barber-James and Elird Haigh for South Africa. Other potential sites in France or Austria were also mentioned. Concerns were expressed for the proposals, and it was decided that representatives Peter Zwick and Michel Sartori of the joint committee would meet with proposers and advise the committee before a final decision to be made during the 2004 meetings.

Other actions:

1. Agreed there should be guidelines for submitting proposals for meeting site; conferences should be held throughout the world, and perhaps the mayfly and stonefly committees could alternate hosting these meetings, although this would not be a rigid rule. Peter Zwick, Michel Sartori and Peter Grant will compose guidelines for future proposals, that will be published.

2. Agreed that whether conference papers on mayflies and stoneflies should be separated in the program or integrated would be left up to the convener.

3. Agreed that joint meetings proceedings should continue to be published.

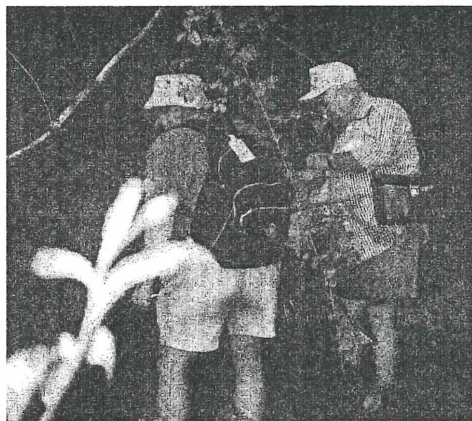
SELECTED SYMPOSIUM PHOTOS



Collector Zhiltzova



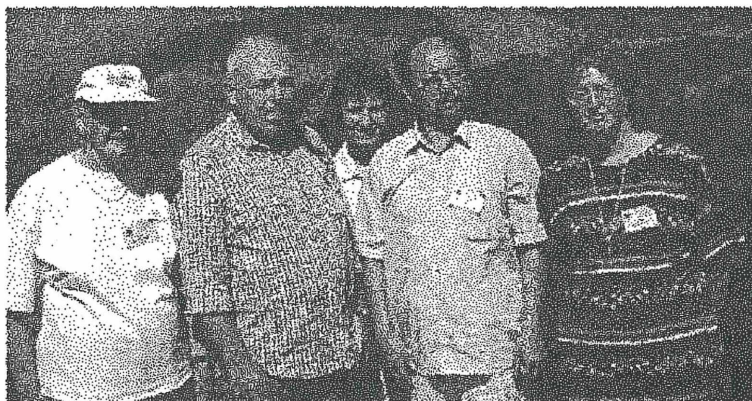
"Drummer" Rupprecht



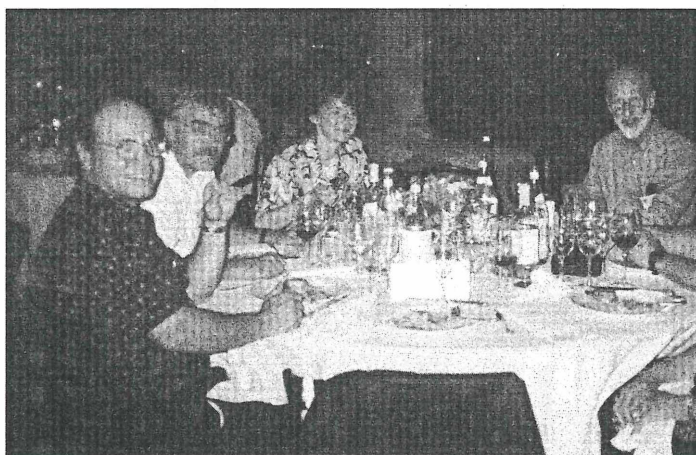
Ian McLellan and Peter Zwick



Narinder Kapoor and Claudio Froehlich, field trip



Russian Ladies Zhiltzova, Teslenko and Loskutova
with Zwick and Du



Participants at formal dinner



International Committeemen Froehlich, Brittian, Stewart
McLellan, Szczytko and Zwick

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Perla](#)

Jahr/Year: 2002

Band/Volume: [20](#)

Autor(en)/Author(s): Redaktion

Artikel/Article: [Report on the X International Conference on Ephemeroptera and XIV International Symposium on Plecoptera 3-19](#)