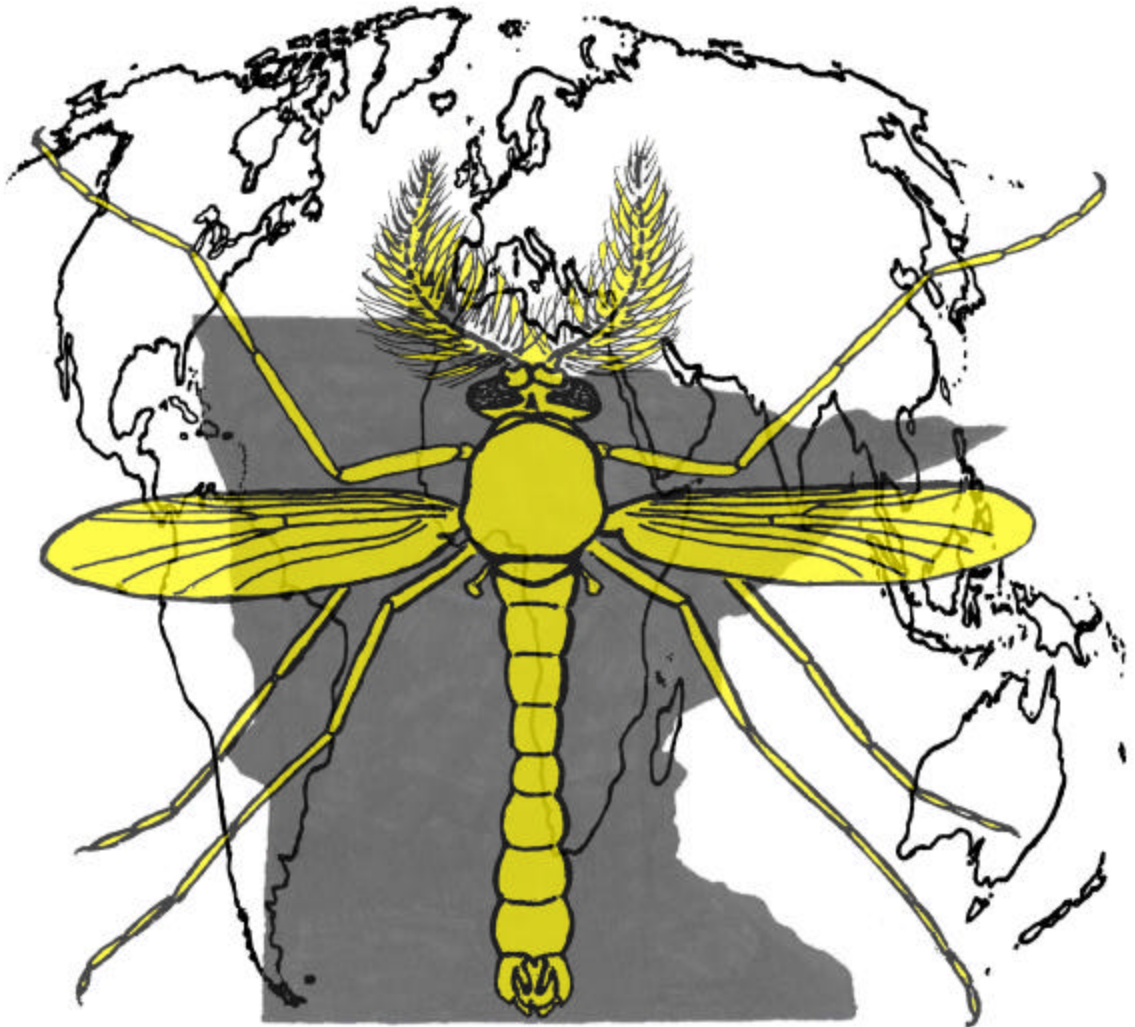


Scientific Program
for the
XV International Symposium on Chironomidae



12-14 August 2003
The University of Minnesota
Minneapolis, Minnesota

Scientific Program
for the
XV International Symposium on Chironomidae

12 August 2003

7:30-8:30 AM Registration and Coffee
8:30-9:00 AM Welcome, Introductions and Announcements

9:00-10:00 AM **The Honorary Thienemann Lecture**

**THE ROLE OF CHROMOSOMES IN CHIRONOMID
SYSTEMATICS, ECOLOGY AND PHYLOGENY**

PROFESSOR WOLFGANG F. WUELKER
Institute of Biology I (Zoology), University of Freiburg, D-79111
Freiburg, Germany

NOTES:

10:00-10:20 AM Mid-Morning Refreshments
10:20-11:40 AM Contributed Oral Presentations

Genetics & Cytogenetics of Chironomidae

Session Chairperson: Dr. David Maschwitz

CHROMOSOMAL EVOLUTION OF NEARCTIC AND PALEARCTIC *Chironomus* SPECIES

Iya I. Kiknadze*, Malcolm G. Butler**, Larissa I. Gunderina*, Albina G. Istomina*, Vladimir D. Gusev*** & Lyubov A. Nemytikova***

*Institute of Cytology and Genetics, 630090 Novosibirsk, Russia

**Department of Biological Sciences, North Dakota State University, Fargo, ND 58105, USA

***Sobolev Institute of Mathematics, 630090 Novosibirsk, Russia

NOTES:

THE POLYTENE CHROMOSOMES OF *KIEFFERULUS (NILODORUM)* 'SPECIES YAMUNA' (GOETGHEBUER) (DIPTERA: CHIRONOMIDAE)

Sumitra Saxena

S.G.T.B. Khalsa College, Dept of Zoology, University of Delhi, Delhi 110007, India

E-mail: sumitrasaxena@hotmail.com

NOTES:

IDENTIFICATION AND PHYSICAL MAPPING OF GENES INVOLVED IN HEAVY METAL METABOLISM IN *Chironomus*

Jon Martin, Thavamalar Balakrishnan, Charles Robin and Henry Chung

Department of Genetics, University of Melbourne, Victoria 3010, Australia.

NOTES:

CYTOGENETIC BIOMARKERS IN *Chironomus riparius* (CHIRONOMIDAE: DIPTERA) AS INDICATORS OF HEAVY METAL POLLUTIONS

Paraskeva Michailova*, Ninel Petrova**, Gabriella Sella***, Stefano Bovero***, Keith.White**** & Liliana Ramella***

*Institute of Zoology, Bulgarian Academy of Sciences, 1 Tzar Osvoboditel boulv. Sofia 1000, Bulgaria

** Institute of Zoology, Russian Academy of Sciences, 199034, St. Petersburg, Russia

*** Department of Animal and Human Biology, University of Turin, Via Accademia Albertina 17, 10123, Turin, Italy

**** School of Biology Sciences, University of Manchester, Oxford Road, Manchester M13 9PT UK

NOTES:

11:40 AM-1:00 PM Lunch

1:00-1:30 PM Group Photograph-- Meet at west entrance of BSBE

1:30-2:50 PM Contributed Oral Presentations

Biodiversity & Faunistics I

Session Chairperson: Dr. Monica Andrade-Morrays

ECOLOGY AND DISTRIBUTION OF CHIRONOMIDS IN MOUNTAIN STREAMS IN THE ITALIAN ALPS

Valeria Lencioni*, Bruno Maiolini* & Bruno Rossaro**

* Department of Invertebrate Zoology and Hydrobiology, Natural Science Museum, Via Calepina 14, I-38100 Trento, Italy

** Department of Biology, Section of Ecology, University of Milan, Via Celoria 26, I-20133 Milan, Italy

NOTES:

THE HISTORY, STATUS QUO AND FUTURE PROSPECTS OF CHIRONOMID STUDY IN CHINA

XINHUA WANG, Ruilei ZHANG, Yuhong GUO, Hongqu TANG, Zhen LIU and Chuncai YAN
Department of Biology, The college of Life Science, Nankai University, Tianjin 300071, China

NOTES:

CHIRONOMIDAE (DIPTERA) IN STREAMS AND SPECIAL ENVIRONMENTS FROM BRAZIL

Mônica Andrade-Morrays

Depto de Biologia, FFCLRP-USP, Av. Bandeirantes, 3900 – Ribeirão Preto (SP), Brazil. 14040901

NOTES:

2:50-3:10 PM

3:10-4:10 PM

Mid-Afternoon Refreshments

Contributed Oral Presentations

Biodiversity & Faunistics II
Session Chairperson: Dr. Barbara Hayford

**CHIRONOMIDAE OF THE RYUKYU ARCHIPELAGO - I. TWO SPECIES OF THE GENUS
Stictochironomus KIEFFER FROM IRIOMOTEJIMA ISLAND**

Masaru Yamamoto

Kankyou-kagaku Kabushiki-gaisha, 2-21-7, Nakasakurazuka, Toyonaka, Osaka, 561-0881, Japan

NOTES:

NEW RECORDS OF CHIRONOMIDAE FROM THE LAKE HOVSGOL REGION, MONGOLIA

Barbara Hayford

Wayne State College, Department of Life Sciences, 1111 Main, Wayne, NE 68787 USA

NOTES:

4:10-5:00 PM

Presentation of Bids to Host XVI International Symposium in 2006

NOTES:

7:00-9:30 PM

Evening Mixer at Weisman Art Museum

7:30-8:20 PM

Special presentation by Dr. Dean Hansen

13 August 2003

7:30-8:30 AM

Coffee and Poster Set-up (Poster Session I)

8:30-9:40 AM

Contributed Oral Presentations

Paleolimnological Studies

Session Chairperson: Dr. Donna Francis

THE STATE OF CHIRONOMIDAE PALAEOECOLOGY IN AUSTRALIA

Sophia Dimitriadis* and Peter S. Cranston**

*School of Botany and Zoology, The Australian National University, Canberra, ACT 0200, Australia.

**Department of Entomology, University of California, Davis, 1 Shields Ave., Davis, CA 95616-8584, USA.

NOTES:

SUBFOSSIL CHIRONOMID ASSEMBLAGES IN THE PYRENEAN LAKES

Maria Rieradevall, Rosa Casanovas-Berenguer, Narcís Prat and Jordi Catalán

Department of Ecology, University of Barcelona, Diagonal 645, 08028 Barcelona, Spain.

NOTES:

A NEW TECHNIQUE FOR USING CHIRONOMID REMAINS IN PALEOCLIMATE RESEARCH

Donna R. Francis¹, Matthew J. Wooller², Gifford H. Miller³, Ian R. Walker⁴, Marilyn L. Fogel⁵, and Alexander P. Wolfe⁶

¹ Dept. of Geosciences, University of Massachusetts, Amherst, MA 01003

² Alaska Stable Isotope Facility, University of Alaska Fairbanks, Fairbanks, AK 99775

³ Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO 80303

⁴ Departments of Biology and Earth & Environmental Sciences, Okanagan University College, Kelowna, British Columbia V1V 1V7 Canada

⁵ Geophysical Laboratory, Carnegie Institution of Washington, Washington DC 20015-1305, USA

⁶ Department of Earth & Atmospheric Sciences, University of Alberta, Edmonton, AB T6G 2E3, Canada

NOTES:

9:40-10:30 AM

Mid-Morning Refreshments and Previewing of Posters

10:30-11:40 AM

Contributed Oral Presentations

Biomonitoring & Bioassessment
Session Chairperson: Dr. Samantha Jane Hughes

USING CHIRONOMIDS AS INDICATORS IN IMPLEMENTING THE EU WATER FRAMEWORK DIRECTIVE

Xavier-Francois Garcia, Mario Brauns, Martin Pusch, and Norbert Walz

Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Department of Lowland Rivers and Shallow Lakes.
Müggelseedamm 301, D-12587 Berlin, Germany.

NOTES:

BANK PROTECTION WORKS IMPACT ON CHIRONOMID FAUNA IN THE MIDDLE REACHES OF THE CHIKUMA RIVER IN CENTRAL JAPAN

Kimio Hirabayashi* & Masaru Yamamoto**

*Department of Applied Biology, Shinshu University, 3-15-1, Tokida, Ueda, Nagano, 386-8567, Japan

**Kankyō-kagaku Kabushiki-gaisha, 2-21-7, Nakasakurazaka, Toyonaka, Osaka, 560-0881, Japan

NOTES:

THE USE OF CHIRONOMID PUPAL EXUVIAE FOR MONITORING WATER QUALITY ON THE ISLAND OF MADEIRA

Samantha Jane Hughes* ** and Declan A. Murray ***

* Laboratório Regional de Engenharia Civil, Rua Agostinho Pereira da Oliveira, 9000-264 Funchal, Portugal.

** Centro de Estudos de Macaronesia, Universidade da Madeira, Campus da Penteadá 9000, Funchal, Portugal.

*** Department of Zoology, University College, Belfield, Dublin 4, Republic of Ireland.

NOTES:

11:40 AM-1:00 PM Lunch
1:00-2:00 PM Contributed Oral Presentations

Ecology & Phenology
Session Chairperson: Dr. Jim Kennedy

CHIRONOMID-HYDROPERIOD RELATIONSHIPS IN EVERGLADES NATIONAL PARK

Richard E. Jacobsen & Sue A. Perry

*South Florida Natural Resources Center, Everglades National Park, Homestead, Florida 33034 USA

NOTES:

RECONSTRUCTING LAKE CHEMISTRY FROM PUPAL SKIN TRAINING SETS

Leslie P. Ruse and Stephen J. Brooks**

* Environment Agency, Fobney Mead, Rose Kiln Lane, Reading RG2 0SF, UK.

** Department of Entomology, Natural History Museum, Cromwell Road, London SW7 5BD, UK.

NOTES:

CHIRONOMIDAE (DIPTERA) ASSOCIATED WITH SPRINGS IN THE SOUTHWESTERN UNITED STATES OF AMERICA.

J.H. Kennedy* and L.C. Ferrington Jr**

*Department of Biological Sciences, P.O. 310559 University of North Texas, Denton, TX 76203-0559

**Department of Entomology, 219 Hodson Hall, 1980 Folwell Avenue, St. Paul MN 55108

NOTES:

2:00-3:00 PM

3:00-3:40 PM

3:40-4:55 PM

Poster Session I

Mid-Afternoon Refreshments

Contributed Oral Presentations

Physiology, Physiological Ecology & and Microbial Interactions

Session Chairperson: Dr. Odwin Hoffrichter

MECHANISM INDUCING ANHYDROBIOSIS IN THE SLEEPING CHIRONOMID

Takashi Okuda, Masahiko Watanabe, Takahiro Kikawada & Akihiko Fujita

National Institute of Agrobiological Sciences, Ohwashi 1-2, Tsukuba. Ibaraki, 305-8634 Japan

NOTES:

DO CHIRONOMIDS PLAY A KEY ROLE IN THE ONSET OF CHOLERA EPIDEMICS?

Meir Broza¹, Malka Halpern¹, Hanan Gancz² & Yechezkel Kashi²

¹Faculty of Science & Science Education, University of Haifa, Oranim, Tivon 36006, Israel

²Faculty of Food Engineering and Biotechnology, the Technion, Haifa 32000, Israel

NOTES:

7:00 PM

Mixer at Days Inn

14 August 2003

7:30-8:30 AM

Coffee and Poster Set-up (Poster Session II)

8:30-9:40 AM

Contributed Oral Presentations

Production & Ecology

Session Chairperson: Dr. David C. Wartinbee

PRODUCTION ECOLOGY OF *Chironomus major* WUELKER AND BUTLER IN KENTUCKY LAKE, USA

Pinar Balci*, David White*

* Hancock Biological Station, Murray State University, Murray, KY 42071

NOTES:

THE PRODUCTION OF CHIRONOMIDS IN A SUBARCTIC RIVER

Gísli Már Gíslason¹, Arnthor Gardarsson¹, Thóra Hrafnadóttir^{1,2} and Jón S. Ólafsson¹

¹ Institute of Biology, University of Iceland, Grensasvegur 12, IS-108 Reykjavik.

² Icelandic Institute of Natural History, Hlemmur 3, IS-105, Reykjavik.

NOTES:

THE CHIRONOMIDAE OF THE KENAI RIVER, ALASKA FROM COLLECTIONS OF PUPAL EXUVIAE

David C. Wartinbee

Kenai Peninsula College, University of Alaska Anchorage, 34840 College Drive, Soldotna, Alaska 99669

NOTES:

9:40-10:30 AM Mid-Morning Refreshments and Previewing of Posters
10:30-11:40 AM Contributed Oral Presentations

Taxonomy & Morphology
Session Chairperson: Dr. Dean Hansen

CAN THE GONOSTYLUS HEEL OF *Procladius (Holotanypus)* BE A KEY CHARACTER TO IDENTIFY SPECIES?

Tadashi Kobayashi

Institute for Environmental and Social Welfare Studies, Kurobe, Toyama, 938-0001

NOTES:

RELATING MORPHOLOGICAL TRAITS OF CHIRONOMIDS TO THE ENVIRONMENT

Brian R. Creutzburg* and Charles P. Hawkins**

* Department of Aquatic, Watershed, and Earth Resources, Utah State University, 5210 Old Main Hill, Logan, Utah 84322-5210 USA

** Department of Aquatic, Watershed, and Earth Resources, and Ecology Center, Utah State University, Logan, Utah 84322-5210 USA

NOTES:

11:40 AM-1:00 PM Lunch
1:00-2:00 PM Contributed Oral Presentations

Community Structure

Session Chairperson: Dr. Susan Gresens

CHIRONOMID LARVAE AND THE GREEN ALGAE *CLADOPHORALES*; A TALE FROM A SUB-ARCTIC LAKE

Jón S. Ólafsson^{*}, Árni Einarsson^{**}, Arnthor Garðarsson^{*}, Anna Halldórsdóttir^{*} & Sigurður S. Snorrason^{*}

^{*}Institute of Biology, University of Iceland, Grensásvegur 12, IS-108 Reykjavík, Iceland

^{**}Mývatn Research Station, Skútustaðir, IS-660 Mývatn, Iceland

NOTES:

INFLUENCE OF RIPARIAN MANAGEMENT ON CHIRONOMID COMMUNITIES IN HARVESTED PINE FORESTS IN NEW ZEALAND

Ian K. G. Boothroyd[#] and John M. Quinn^{*}

^{*}National Institute of Water & Atmospheric Research, P. O. Box 11-115, Hamilton, New Zealand

[#]Present address: Kingett Mitchell Ltd., P. O. Box 33-849, Takapuna, Auckland, New Zealand

NOTES:

CHIRONOMID SPECIES RICHNESS IN STREAMS DRAINING AREAS OF SERPENTINE VS. NON-SERPENTINE BEDROCK

Susan E. Gresens^{*} and Leonard C. Ferrington, Jr.^{**}

^{*}Department of Biological Sciences, Towson University, Towson, Maryland 21252-0001 USA

^{**}Department of Entomology, University of Minnesota, Saint Paul, Minnesota 55108-6125 USA

NOTES:

2:00-3:00 PM

Contributed Oral Presentations

Biology

Session Chairperson: Dr. Martin Berg

TERRESTRIAL CHIRONOMIDS IN DISTURBED HABITATS

Jan Frouz

Institute of Soil Biology, AS CR, Na Sádkách 7, České Budejovice, CZ 37005, Czech Republic

NOTES:

CHIRONOMIDAE RESPONSE TO RESOURCE LIMITATION

Sally Entrekin* and Bruce Wallace**

* Department of Biological Sciences, University of Notre Dame, IN 46556 USA

**Department of Entomology, Institute of Ecology, The University of Georgia, Athens, GA 30602 USA

NOTES:

CONTROL OF PESTIFEROUS EMERGENCES OF CHIRONOMIDAE: A CASE STUDY OF *Polypedilum nubifer*

Martin B. Berg*, Arshad Ali** & Richard W. Merritt***

* Department of Biology, Loyola University Chicago, 6525 North Sheridan Road, Chicago, Illinois 60626 USA

** University of Florida, IFAS, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, Florida 32703 USA

*** Department of Entomology, 243 Natural Science Building, Michigan State University, East Lansing, Michigan 48824 USA

NOTES:

3:00-3:30 PM

Mid-Afternoon Refreshments, followed by Poster Session II, student awards and selection of site for XVI International Symposium on Chironomidae in 2006

POSTER SESSION I- 13 August 2003

RESPONSE OF CHIRONOMIDS TO A VOLCANIC EVENT IN AN ANDEAN LAKE (CHILE)

Alberto Araneda, Roberto Urrutia and Oscar Parra

Unidad de Sistemas Acuaticos, Centro EULA, Universidad de Concepcion, Casilla 160-C, Concepcion, Chile.

NOTES:

COMMUNITY ANALYSIS OF CHIRONOMIDAE (DIPTERA) FROM SHORELINE POND AND SHORELINE LAKE HABITATS OF LAKE HOVSGOL, MONGOLIA

Jamie Bachmann and Barbara Hayford

Wayne State College, Department of Life Sciences, 1111 Main, Wayne, Ne 68787 USA

NOTES:

MIDGE SPECIATION BY INTROGRESSIVE HYBRIDIZATION (CHIRONOMIDAE, DIPTERA)

Belyanina S.I., Polukonova N.V., Durnova N.A.

Medical State University, Department of General Biology, 410026, Saratov, Bolshaja Kazatchja St., 112 Saratov, Russia

NOTES:

A NEW SPECIES OF *Paratanytarsus* (DIPTERA: CHIRONOMIDAE) WITH UNUSUAL LARVAL AND ADULT MALE MORPHOLOGY

Michael J. Bolton*, Torbjørn Ekrem**, James E. Sublette*** and Mary F. Sublette***

*Ohio Environmental Protection Agency, 4675 Homer Ohio Lane, Groveport, Ohio 43125 USA

** Museum of Zoology, University of Bergen, Muséplass 3, N-5007 Bergen, Norway

*** 3550 North Winslow Drive, Tucson, Arizona 85750 USA

NOTES:

THE IMMATURE STAGES OF *Chasmatonotus unimaculatus* LOEW (DIPTERA: CHIRONOMIDAE: ORTHOCLADIINAE) WITH NOTES ON THEIR HABITAT

Michael J. Bolton* & Richard E. Jacobsen**

*Ohio Environmental Protection Agency, 4675 Homer Ohio Lane, Groveport, Ohio 43125 USA

** South Florida Natural Resources Center, Everglades National Park, Homestead, Florida 33034 USA

NOTES:

POSTER SESSION I- 13 August 2003

CHIRONOMID COMMUNITIES FROM URBAN STREAMS IN A RAPIDLY EXPANDING CITY IN NEW ZEALAND

Ian K. G. Boothroyd[†]

Kingett Mitchell Ltd., P. O. Box 33-849, Takapuna, Auckland, New Zealand

NOTES:

THE ICE WORM, *Zealandochlus latipalpis* FROM NEW ZEALAND

Ian K. G. Boothroyd[†] & Peter S. Cranston

[†]Kingett Mitchell Ltd., P. O. Box 33-849, Takapuna, Auckland, New Zealand

^{**}Department of Entomology, University of California, Davis, 1 Shields Ave., Davis, CA 95616-8584, USA.

NOTES:

Chironomus tigris SPEC. NOV., A NEARCTIC SPECIES WITH A UNIQUE LARVA AND KARYOTYPE

Malcolm G. Butler^{*} and Iya I. Kiknadze^{**}

^{*}Department of Biological Sciences, North Dakota State University, Fargo, North Dakota 58105-5517 USA

^{**}Institute of Cytology and Genetics, 630090 Novosibirsk, Russia

NOTES:

DESCRIPTION OF THE IMMATURE STAGES AND ADULT FEMALE OF *Neostempellina reissi* (DIPTERA: CHIRONOMIDAE)

Broughton A. Caldwell^{*}, Robert W. Bode^{**} & Alexander J. Smith^{**}

^{*}1035 Lewis Ridge Circle, Lawrenceville, GA 30045-8899

^{**}New York State Department of Environmental Conservation, 625 Broadway, Albany, NY 12233-3502

NOTES:

POSTER SESSION I- 13 August 2003

LAND-USE EFFECTS ON CHIRONOMID COMMUNITY STRUCTURE IN NATURAL AND CONSTRUCTED WETLANDS

Benjamin D. Campbell¹, Roger J. Haro¹, Melinda G. Knutson², and William B. Richardson²

¹ River Studies Center, Department of Biology, University of Wisconsin-La Crosse, La Crosse, Wisconsin, 54601 USA

² United States Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin, 54601 USA

NOTES:

EFFECTS OF SEX AND AGE ON THE SUPERCOOLING POINTS OF *Diamesa mendotae* MUTTKOWSKI

Mario A. Carrillo, Colleen A. Cannon and Leonard C. Ferrington Jr.

Department of Entomology, University of Minnesota, 219 Hodson Hall, 1980 Folwell Avenue, Saint Paul, Minnesota 55108-6125 USA

NOTES:

THE SEMIOTICS OF *Semiocladius* – HALF RIGHT AND HALF WRONG ?

Peter S. Cranston* & Sophia Dimitriadis**

* Department of Entomology, University of California, Davis, 1 Shields Ave., Davis, CA 95616-8584, USA.

** School of Botany and Zoology, The Australian National University, Canberra, ACT 0200, Australia.

NOTES:

Phytotelmatocladus, A NEW GENUS FROM BROMELIADS IN FLORIDA (DIPTERA: CHIRONOMIDAE: ORTHOCLADIINAE)

John H. Epler

461 Tiger Hammock Road, Crawfordville, Florida 32327, U.S.A.

NOTES:

POSTER SESSION I- 13 August 2003

PARASITIZATION OF CHIRONOMIDAE BY WATER MITE LARVAE IN A SPRING OF THE GRAN SASSO MASSIF (CENTRAL ITALY)

Uberto Ferrarese* & Bruno Cicolani**

*Via Lucca, 38, I - 35143 Padova, ITALY

**Department. of Environmental Sciences, University of L'Aquila, I - 67100 L'Aquila, ITALY

NOTES:

LONGEVITIES OF *Diamesa mendotae* MUTTKOWSKI, A HIBERNAL EMERGING SPECIES OF CHIRONOMIDAE

Leonard C. Ferrington, Jr*., Dan Hansen*, Byron Karns** and R. Will Bouchard*

* Department of Entomology, University of Minnesota, 219 Hodson Hall, 1980 Folwell Avenue, Saint Paul, Minnesota 55108-6125 USA

** National Park Service, Department of the Interior, P. O. Box 708, Saint Croix Falls, Wisconsin 54024 USA

NOTES:

BODY ALLOMETRY IN GYNANDROMORPHS OF A TERRESTRIAL CHIRONOMID, *Bryophaenocladus* cf. *illimbatus*

Jan Frouz

Institute of Soil Biology, AS CR, Na Sádkách 7, České Budejovice, CZ 37005, Czech Republic

NOTES:

BIOCHEMICAL CHARACTERIZATION OF *Chironomus* SPP. EGGMASS AND ITS CONSUMPTION BY *Vibrio cholerae*

Hanan Gancz¹, Malka Halpern², Yechezkel Kashi¹ and Meir Broza²

¹Faculty of Food Engineering and Biotechnology, the Technion, Israel Institute of Technology, Haifa 32000, Israel.

²Faculty of Science & Science Education, University of Haifa, Oranim, Tivon 36006, Israel

NOTES:

POSTER SESSION I- 13 August 2003

20,000+ REFERENCES ARE WAITING FOR YOU

Odwin Hoffrichter

University of Freiburg, Department of Evolutionary Biology and Ecology, Hauptstr. 1, D-79104 Freiburg, Germany

NOTES:

COMMUNITY STRUCTURE OF CHIRONOMID LARVAE WITHIN THE SURF ZONE OF ICELANDIC LAKES

Erlín Emma Jóhannsdóttir*, Hilmar J. Malmquist* & Jón S. Ólafsson**

*Natural History Museum of Kópavogur, Hamraborg 6A, IS - 200 Kópavogur, Iceland

**University of Iceland, Institute of Biology, Grensásvegur 12, IS - 108 Reykjavík, Iceland

NOTES:

EFFICACY OF COLLECTIONS OF SURFACE-FLOATING PUPAL EXUVIA FOR ESTIMATING EMERGENCE FREQUENCIES OF ABUNDANT SPECIES

Jeffrey L. Kavanaugh*, **R. Will Bouchard**** and Leonard C. Ferrington Jr**

* Department of Biology, University of Dayton, Dayton, Ohio, USA 45469-2320

** Department of Entomology, University of Minnesota, 219 Hodson Hall, 1980 Folwell Avenue, Saint Paul, Minnesota, USA 55108-6125

NOTES:

THE APPLICATION OF MAXIMUM PARSIMONY APPROACH TO THE ANALYSIS OF CHIRONOMID'S (DIPTERA) SPATIAL DISTRIBUTION

L.S. Kravtsova and D.Yu. Shcherbakov

Limnological Institute RAS (Sib.Div.), Ulan-Batorskaya, 3, Irkutsk, 664033 Russia

NOTES:

POSTER SESSION II- 14 August 2003

DESIGNING EFFICIENT SAMPLING PLANS USING A SPATIO-TEMPORAL CHIRONOMIDAE (DIPTERA) LARVAL DISTRIBUTION MODEL

Richard J. Lobinske and Arshad Ali

Mid-Florida Research and Education Center, Institute of Food and Agricultural Sciences, University of Florida, 2725 Binion Road, Apopka, Florida 32703-8504 USA.

NOTES:

INFLUENCE OF SELECTED SEDIMENTS PHYSICAL PARAMETERS ON SPATIAL DISTRIBUTION OF LARVAL *Glyptotendipes paripes* (DIPTERA: CHIRONOMIDAE) IN THREE CENTRAL FLORIDA LAKES

Richard J. Lobinske, Arshad Ali, and Robert J. Leckel, Jr.

Mid-Florida Research and Education Center, Institute of Food and Agricultural Sciences, University of Florida, 2725 Binion Road, Apopka, Florida 32703-8504 USA.

NOTES:

DEFINITION AND ASSIGNMENT OF INDICATOR WEIGHTS TO DIFFERENT CHIRONOMID SPECIES

Laura Marziali* , Carlotta Casalegno*, Valeria Lencioni** & Bruno Rossaro*

* Department of Biology, Section Ecology, University of Milan, Via Celoria 26, 20133 Milan, Italy

** Department of Invertebrate Zoology and Hydrobiology, Museum of Natural Science of Trento, Trento, Italy

NOTES:

THE CHIRONOMIDS OF THE TARO RIVER (ITALY)

Laura Marziali* , Carlotta Casalegno*, Giorgio Hanozet**, Giuseppe Parenti**, Matilde Forcella**, Elisa Berra**, Roberto Giacchini** & Bruno Rossaro*

* Department of Biology, Section Ecology, University of Milan, Via Celoria 26, 20133 Milan, Italy

** Department of Environmental Sciences, University of Milan-Bicocca, Milan, Italy

NOTES:

POSTER SESSION II- 14 August 2003

ALLOMETRY IN CHIRONOMID (DIPTERA) MORPHOLOGY AND RATIOS UNDER EXPERIMENTAL TEMPERATURE MANIPULATIONS.

Brendan McKie*, **Peter S Cranston**** and Serica Zwack**

*Department of Ecology and Environmental Science, Umeå University, SE-90187 Umeå, Sweden

**Entomology Department, University of California, Davis, California 95616, USA

NOTES:

TWO NEW BRAZILIAN SPECIES OF THE *Axarus* "rogersi-GROUP" (DIPTERA, CHIRONOMIDAE)

Humberto F. Mendes* & Trond Andersen**

*Departamento de Biologia-FFCLRP, Universidade de São Paulo, Av. Bandeirantes, 3900, 14040-901 Ribeirão Preto, SP, Brazil

**Museum of Zoology, University of Bergen, Muséplass 3, N-5007 Bergen, Norway

NOTES:

REVIEW OF MORPHOLOGY OF LARVAE AND PUPAE OF *Cryptochironomus* (DIPTERA: CHIRONOMIDAE) FROM EUROPEAN WATERBODIES

E. Morozová and H. Vallenduuk²

¹ Saratov State University, Chapaeva st. 6A-70, 410056 Saratov, RUSSIA

² Adviesbureau Vallenduuk, De Cock van Neerijnenstraat 9, 5482 GR Schijndel, THE NETHERLANDS

NOTES:

MOUTHPART MORPHOLOGY AND DIET OF CHIRONOMID LARVAE WITH SPECIAL EMPHASIS ON THE FIRST INSTAR LARVAE

Jón S. Ólafsson

Institute of Biology, University of Iceland, Grensásvegur 12, IS-108 Reykjavík, Iceland

NOTES:

POSTER SESSION II- 14 August 2003

CHIRONOMIDS OF THE HIGH MOUNTAIN LAKE REDÓ (PYRENEES, SPAIN)

Maria Rieradevall & Narcís Prat

Department of Ecology, University of Barcelona, Diagonal 645, 08028 Barcelona, Spain.

NOTES:

PRELIMINARY STUDY OF SUBFOSSIL CHIRONOMID AND BIOGENIC SILICA IN A PATAGONIC LAKE

Andrea P. Rizzo¹, Silvia Dutrús*, Julieta Massaferró¹, Sergio Ribeiro Guevara* & María A. Arribére*².

*Laboratory de Análisis por Activación Neutrónica. Centro Atómico Bariloche. (CNEA). Bustillo 9,500. (8400) Bariloche. Argentina.

¹CONICET- Argentina.

²Instituto Balseiro. Universidad Nacional de Cuyo y CNEA. Argentina.

NOTES:

CHIRONOMIDAE AND OTHER MACROINVERTEBRATES OF *Eichhornia azurea* IN JATAÍ ECOLOGICAL STATION – SP, BRAZIL

Marlon Pelaez-Rodriguez¹, Susana Trivinho-Strixino² and Fabio de Oliveira Roque²

¹ Programa de Biología con Énfasis en Biorrecursos. Universidad de la Amazonía. Florencia (Caquetá) Colombia.

² Laboratory Entomologia Aquática/ DHb/Universidade Federal de São Carlos, Cx. Postal 676 São Carlos – SP, Brazil

NOTES:

CHIRONOMIDAE (DIPTERA) LIVING IN FRESHWATER SPONGES FROM BRAZIL

Fabio de O. Roque*, Susana Trivinho-Strixino*, Sheyla Cordeiro**, Neusa Hamada** & Cecília Volkmer-Ribeiro***

* Laboratório de Entomologia Aquática / Depto. de Hidrobiologia / Universidade Federal de São Carlos, SP, Brasil

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NOTES:

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***Ferringtonia*, A NEW ORTHOCLAD GENUS FROM ARGENTINA AND SOUTHERN CHILE (DIPTERA: CHIRONOMIDAE)**

Ole A. Sæther & Trond Andersen

Museum of Zoology, University of Bergen, Muséplass 3, N-5007 Bergen, Norway

NOTES:

DNA PROFILING FOR BIOMONITORING OF AQUATIC ECOSYSTEMS

David Sharley¹, Vin Pettigrove² and Yvonne Parsons¹

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NOTES:

CHIRONOMIDAE OF A FLOODPLAIN POND IN CÓRDOBA, ARGENTINA

John B. Stahl

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NOTES:

CHANGES IN CHIRONOMID COMMUNITY STRUCTURE IN RURAL AND URBAN AREAS OF THE UPPER TRINITY RIVER BASIN, NORTH CENTRAL TEXAS

Jaynie M. Stephenson* and James H. Kennedy**

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NOTES:

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COLONIZATION OF RICE CROPS BY CHIRONOMIDS IN SOUTHERN AUSTRALIA

Mark M. Stevens and Glen N. Warren

NSW Agriculture and Cooperative Research Centre for Sustainable Rice Production,
Yanco Agricultural Institute, Private Mail Bag, Yanco NSW 2703 Australia

NOTES:

NEW RECORDS AND RANGE EXTENSIONS FOR SEVERAL CHIRONOMID GENERA IN LAKE SUPERIOR

Kevin T. Stroom¹, Kurt Schmude², Jim Snitgen³, Stephen J. Lozano⁴, Timothy Corry⁵, and Jill V. Scharold⁵

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NOTES:

STRUCTURAL AND FUNCTIONAL CHANGES OF THE THORACIC CAVITY IN *Diamesa steinboeckii* GOETGHEBUER

Stefano Vanin*, **UBERTO FERRARESE**** & Margherita Turchetto*

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NOTES:

PROPERTIES IN RESPIRATIONAL PHYSIOLOGY OF A JAPANESE CHIRONOMID, *Propiloscerus akamusi*

Koichiro Kawai*, Kyoko Abe**, Atsushi Ishimatsu*** and Hiromichi Imabayashi*

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NOTES:

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THE FEMALE OF *Bethbilbeckia floridensis* FITTKAU, 1988 WITH A REVIEW OF THE GENUS (DIPTERA: CHIRONOMIDAE)

CHARLES N. WATSON, JR

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NOTES:

WATER QUALITY AND BENTHIC MACROINVERTEBRATE BIODIVERSITY OF THE SNYDER'S BRANCH CREEK (SALEM, VIRGINIA)

Brian C. Wilson, Christine E. Taylor** and **Jorge A. Santiago-Blay*****

**Peace Corps, Namibia, Africa

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NOTES:

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ADDITIONAL NOTES: