

N° 32 - 1999

ISSN 1161-2398

**BULLETIN DU
CENTRE INTERNATIONAL DE MYRIAPODOLOGIE**

*LIST OF WORKS
PUBLISHED OR IN PRESS*

*LISTE DES TRAVAUX
PARUS ET SOUS-PRESSE*

MYRIAPODA

&

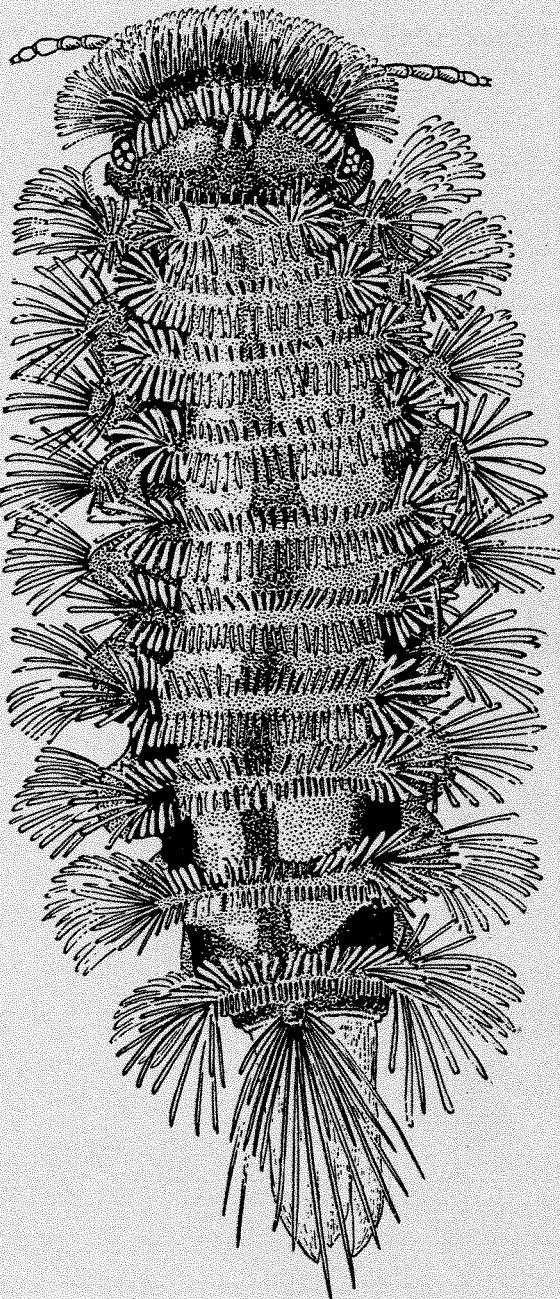
ONYCHOPHORA

**ANNUAIRE MONDIAL
DES MYRIAPODOLOGISTES**

**WORLD DIRECTORY
OF THE MYRIAPODOLOGISTS**

DEMANGE J.M., GEOFFROY J.J., MAURIES J.P. & NGUYEN DUY - JACQUEMIN M. (EDS)

1999

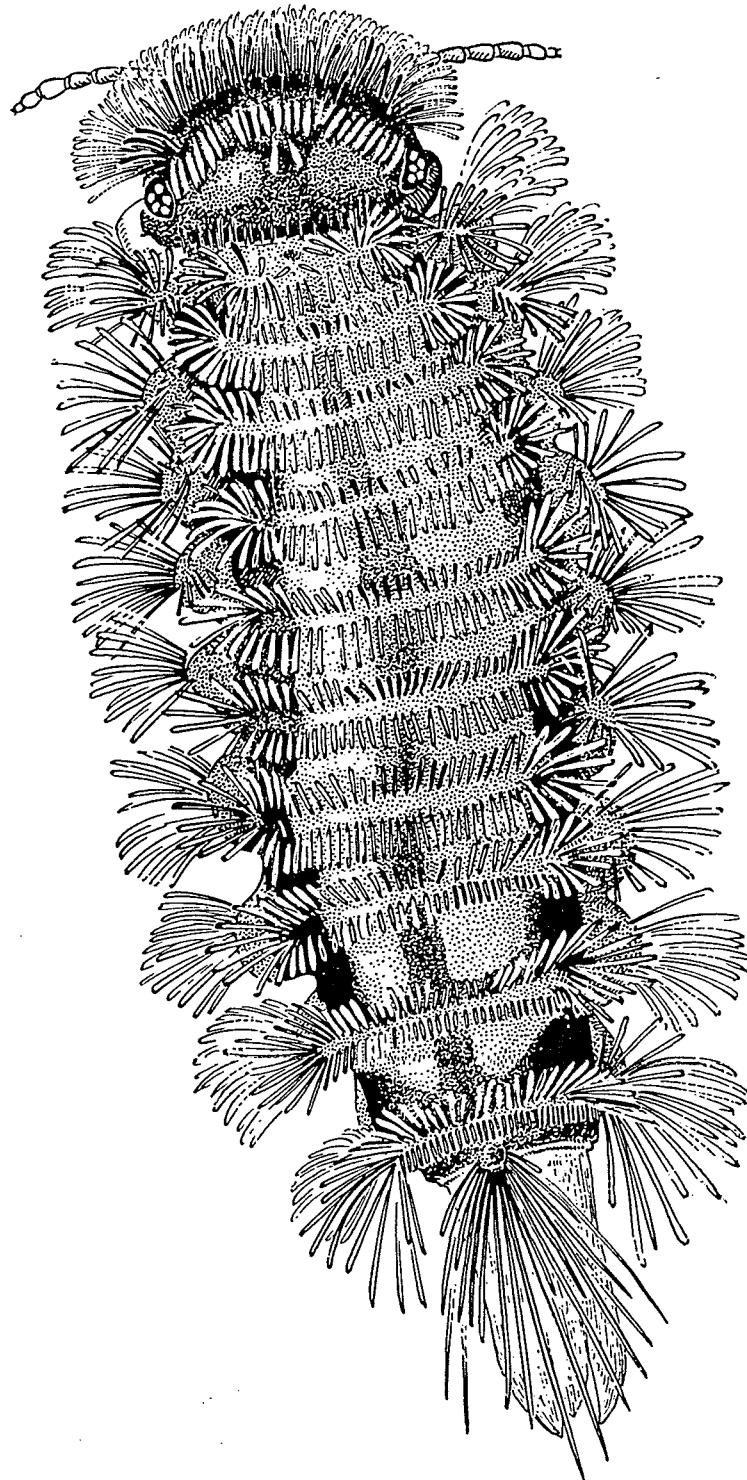


N° 32 - 1999

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**BULLETIN DU
CENTRE INTERNATIONAL DE MYRIAPODOLOGIE**

Muséum National d' Histoire Naturelle, Laboratoire de Zoologie-Arthropodes, 61 rue Buffon F-75231 PARIS Cedex 05



REPERTORIE DANS LA BASE PASCAL DE L'INSTITUT D'INFORMATION SCIENTIFIQUE ET TECHNIQUE (INIST CNRS)

DEMANGE J.M., GEOFFROY J.J., MAURIES J.P. & NGUYEN DUY - JACQUEMIN M. (EDS)

1999

[Handwritten signatures and initials]

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Cover: *Polyxenus lagurus* (Linnaeus, 1758) bisexual form, a portrait [Dessin de Maurice GAILLARD, MNHN, Paris], after NGUYEN DUY - JACQUEMIN, 1996 [*MILLEPATTIA*, 4]

L'équipe de rédaction a conçu et réalisé ce bulletin grâce à la collaboration des 89 collègues qui ont répondu cette année à notre questionnaire. *The editorial team have conceived and realized the present bulletin with the participation of 89 colleagues who answered the questionnaire.*

Merci à tous de votre participation. *Thank you very much, all of you.*

Avant-propos / Foreword recent past and near future for the CIM

This issue number 32 of the **Bulletin du Centre International de Myriapodologie** states with the present situation of the CIM and mentions some questions dealing with the very near future.

The present bulletin is the result of the work realized by the permanent secretariat during 1998-1999, in collaboration with colleagues that have sent informations and answered the questionnaire. Thank you very much to all of you for help and contribution.

In 1999, the CIM file is composed of 210 active members. 4 new members have been registered, from Belgium, Germany, Slovakia and USA. 18 previous members have been withdrawn from the list, 2 after decease, 3 after resignation and 13 after complete disappearance during more than 6 years.

In July, we will have the 11th International Congress in Poland. We hope most of you will meet together in Bialowieza Forest, so we are waiting for new candidates to organize the future meetings in 2002 and 2005. Proposals are welcome.

As you know, the permanent secretariat of the CIM is assisted by an international committee, including founding members of the CIM, organizers of international congresses and several members nominated by the plenary international sessions of myriapodologists / onychophorologists. Today, this committee is composed of: J.M. DEMANGE (Paris, France); J.P. MAURIES (Paris, France); O. KRAUS (Hamburg, Germany); J.G. BLOWER (Levens, UK); R.L. HOFFMAN (Martinsville, Virginia, U.S.A.); C.A.W. JEEKEL (Oisterwijk, The Netherlands); A. MINELLI (Padova, Italy); H. ENGHOFF (Copenhagen, Denmark); E. MEYER (Innsbruck, Austria); M. NGUYEN DUY - JACQUEMIN (Paris, France) and J.J. GEOFFROY (Brunoy, France).

We will have in July 1999 the 11th International Congress of Myriapodology, to be held in Poland. During the formal CIM session, one or several new persons could be added to become formal member(s) of the CIM International Committee.

I remind you that we will have important points to discuss during this session,

1) the organization of the next congresses, 2002, 2005. We hope we will listen to the presentation of several proposals.

2) the possibility of the creation of a formal association or society, more official than the actual situation for the CIM, as it was already suggested during the CIM session at Copenhagen. The secretariat is now studying the question and will appreciate your opinion.

A first preliminary inquiry shows that the opinion is not unanimous but fifty-fifty divided. Some people suggest to transform the CIM in an International Society, other people consider that the present functioning must go on.

As it is not our job to decide this alone, the CIM Secretariat suggest the following:

— We will investigate towards the administrative conditions to create an International Society for myriapodologists and onychophorologists.

— We will think of a preliminary document to propose some rules, constitution and by-laws.

— In any case, we will transform the present state of the CIM by constitution of an association, at Paris, in order to improve the administrative functioning and accounts.

And now, let us go and read what are the mille-pattes news for this year.

Best wishes and regards

Jean-Jacques GEOFFROY
CIM Secretariat

Contact the CIM Secretariat

ELECTRONIC-MAIL
FAX

You can contact the permanent Secretariat [and answer the questionnaire] by Fax or by
Electronic-Mail:

Vous pouvez contacter le Secrétariat permanent du CIM [et répondre au questionnaire]
par Courrier électronique ou par Fax:

Fax +33 1 40 79 38 63

(Laboratoire de Zoologie Arthropodes du M.N.H.N.)

E-mail : millicim@mnhn.fr

The secretariat members

geoffroy@mnhn.fr (Jean-Jacques Geoffroy)

collmill@mnhn.fr (Jean-Paul Maurès)

monguyen@mnhn.fr (Monique Nguyen Duy)

are listening to you

In near future, we will have a CIM-homepage on MNHN-server
<http://www.mnhn.fr/mnhn/cim/index.htm>
...in progress...

CENTRE INTERNATIONAL DE MYRIAPODOLOGIE
Muséum National d'Histoire Naturelle
(Zoologie-Arthropodes)
61, rue Buffon F-75231 Paris Cedex 05 (France)

Créé à Paris en 1968, le CENTRE INTERNATIONAL DE MYRIAPODOLOGIE (CIM) représente le groupement des myriapodologistes et onychophorologistes du monde entier. Le secrétariat permanent du CIM est situé au Muséum National d'Histoire Naturelle de Paris: Laboratoire de Zoologie-Arthropodes. Il a pour mission d'informer rapidement les myriapodologistes (mais aussi les autres zoologistes et biologistes qui le désirent) sur les travaux en cours ou publiés dans tous les domaines de la myriapodologie (Myriapoda & Onychophora), allant de l'étude des macromolécules à celle des complexes d'écosystèmes.

Pour son fonctionnement, Le CIM reçoit de la part de ses membres une aide financière annuelle de 100 francs français (20 US\$, 15,30 EURO) ou, à défaut, des ouvrages ou tirés-à-part destinés à constituer une bibliothèque spécialisée. Celle-ci est déposée au Muséum National d'Histoire Naturelle, Zoologie-Arthropodes.

En décembre de chaque année, tous les collègues inscrits au CIM reçoivent un questionnaire. Celui-ci demande à chacun la liste des travaux publiés ou sous-presse pour l'année écoulée, mais aussi les sujets d'étude en cours ou en projet. En outre, il sollicite demandes ou informations pouvant intéresser tout chercheur dont le travail touche, de près ou de loin, aux Myriapodes et aux Onychophores.

Les scientifiques interrogés renvoient ce questionnaire fin février et, de l'ensemble des réponses venues de pays du monde entier, naît le bulletin, bibliographique et analytique, complété de l'annuaire, qui est envoyé à tous les collègues en avril-mai.

Lorsqu'un collègue reste cinq ans sans répondre au questionnaire, ou sans envoyer de contribution, sa radiation de la liste devient effective.

Outre son rôle majeur d'information, le CIM aide à une meilleure coordination de certains travaux mais est, de plus, chargé d'assurer, en tant que co-organisateur, la tenue régulière des Congrès Internationaux de Myriapodologie, qui ont lieu tous les trois ans:

1) 1968 (Paris, France); 2) 1972 (Manchester, Grande-Bretagne); 3) 1975 (Hamburg, R.F.Allemagne); 4) 1978 (Gargnano, Italie); 5) 1981 (Radford, Virginia, U.S.A.); 6) 1984 (Amsterdam, Hollande); 7) 1987 (Vittorio Veneto, Italie); 8) 1990 (Innsbruck, Autriche); 9) 1993 (Paris, France); 10) 1996 (Copenhague, Danemark); 11) 1999 (Bialowiewza, Pologne).

Le secrétariat permanent est assisté d'un conseil international comportant les membres fondateurs du CIM, les organisateurs de congrès internationaux et plusieurs membres désignés par la session plénière internationale des myriapodologistes. Il est composé de: J.M. DEMANGE (Paris, France); J.P. MAURIES (Paris, France); O. KRAUS (Hamburg, Allemagne); J.G. BLOWER (Levens, G.B.); R.L. HOFFMAN (Martinsville, Virginia, U.S.A.); C.A.W. JEEKEL (Oisterwijk, Hollande); A. MINELLI (Padova, Italie); H. ENGHOFF (Copenhague, Danemark); E. MEYER (Innsbruck, Autriche); M. NGUYEN DUY - JACQUEMIN (Paris, France) & J.J. GEOFFROY (Brunoy, France).

Pour tout renseignement, veuillez contacter le secrétariat permanent:

J.P. MAURIES et/ou M. NGUYEN DUY - JACQUEMIN: MNHN, Zoologie-Arthropodes, 61, rue Buffon, F-75231 Paris Cedex 05 (France).

Tel. +33 1 40 79 35 84 et +33 1 40 79 35 82

Fax. +33 1 40 79 38 63

Email : <millicim@mnhn.fr> et <collmill@mnhn.fr> ou <monguyen@mnhn.fr>
et

J.J. GEOFFROY, MNHN, Ecologie générale, 4, avenue du Petit Château, F-91800 BRUNOY (France).

Tel. +33 1 60 47 92 22. Fax. +33 1 60 46 57 19

E-mail : <geoffroy@mnhn.fr>

CENTRE INTERNATIONAL DE MYRIAPODOLOGIE
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(Zoologie-Arthropodes)
61, rue Buffon F-75231 Paris Cedex 05 (France)

Created in Paris in 1968, the CENTRE INTERNATIONAL DE MYRIAPODOLOGIE (CIM) regroups myriapodologists of whole world. The permanent secretariat of the CIM is located in the « Muséum National d'Histoire Naturelle of Paris: Laboratoire de Zoologie-Arthropodes ». Its mission is to rapidly inform myriapodologists (and other zoologists and biologists) of works which are in progress or published in all the fields of myriapodology (Myriapoda & Onychophora), from the study of macromolecules to the study of ecosystems and landscape ecology.

For its functioning, the CIM receives from its members either an annual contribution of 100FF (US\$20\$, EURO 15.30), or books and reprints destinated to set up a specialized library. This library is located in the « Muséum National d'Histoire Naturelle, Paris, Laboratoire de Zoologie-Arthropodes ».

Each year, on December, registered members of the CIM receive a questionnaire. This questionnaire asks each member to provide a list of papers published or in press during the year, as well as research work in progress or in project. It also asks for any informations of general interest to researchers whose work involves Myriapoda or Onychophora.

The questionnaires are returned by the end of February; the bibliographical and analytical **bulletin** with the **directory** is compiled from all the replies, which come from countries around the world. This bulletin is sent to every member in April-May.

Any member who does not reply to the questionnaire during five years or does not send money or reprints, is then immediatly removed from the list.

Apart from its wider role of providing information, the CIM helps to better coordinate some projects and also must ensure, as co-organizer, the regular holding of the international congresses of myriapodology which take place every three years:

1) 1968 (Paris, France); 2) 1972 (Manchester, UK); 3) 1975 (Hamburg, Germany); 4) 1978 (Gargnano, Italy); 5) 1981 (Radford, Virginia, U.S.A.); 6) 1984 (Amsterdam, The Netherlands); 7) 1987 (Vittorio Veneto, Italy); 8) 1990 (Innsbruck, Austria); 9) 1993 (Paris, France); 10) 1996 (Copenhagen, Denmark); 11) 1999 (Bialowieza, Poland).

The permanent secretariat is assisted by an international committee, including founding members of the CIM, organizers of international congresses and several members nominated by the plenary international sessions of myriapodologists. This secretariat is composed of: J.M. DEMANGE (Paris, France); J.P. MAURIES (Paris, France); O. KRAUS (Hamburg, Germany); J.G. BLOWER (Levens, UK); R.L. HOFFMAN (Martinsville, Virginia, U.S.A.); C.A.W. JEEKEL (Oisterwijk, The Netherlands); A. MINELLI (Padova, Italy); H. ENGHOFF (Copenhagen, Denmark); E. MEYER (Innsbruck, Austria); M. NGUYEN DUY - JACQUEMIN (Paris, France) and J.J. GEOFFROY (Brunoy, France).

For further information, please contact the permanent secretariat: J.P. MAURIES and/or M. NGUYEN DUY - JACQUEMIN: MNHN, Zoologie-Arthropodes, 61, rue Buffon, F-75231 Paris Cedex 05 (France).

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Fax. +33 1 40 79 38 63

Email : <millicim@mnhn.fr> and <collmill@mnhn.fr> or <monguyen@mnhn.fr>
and

J.J. GEOFFROY, CNRS, MNHN, Ecologie générale, 4, avenue du Petit Château, F-91800 BRUNOY (France).

Tel. +33 1 60 47 92 22. Fax. +33 1 60 46 57 19

E-mail : <geoffroy@mnhn.fr>

FINANCIAL CONTRIBUTIONS

PLEASE NOTE !!!!!

**CONTRIBUTIONS SHOULD BE MADE PAYABLE TO THE ORDER OF
MME NGUYEN DUY MONIQUE AND NOT TO C.I.M.**

Cheques to the order of C.I.M. cannot be accepted and will be returned to sender !!!!

To avoid bank charges, I would be grateful if you could arrange for payment to be made by one of the following methods¹:

- Postal transfer to Mme NGUYEN DUY Monique Account CCP Paris 21 322 41 J*
- International money order by postal Giro payable to Mme NGUYEN DUY Monique*
- Cheque drawn on french bank in Paris, made payable to Mme NGUYEN DUY Monique*

(Money orders and cheques must be sent to Mme NGUYEN DUY Monique, Mus. Nat. Hist. Nat., Laboratoire de Zoologie - Arthropodes- 61 rue de Buffon, 75231 Paris cedex 06).

If payment is made in a currency other than francs (FF) you will be charged for the costs.

Kindly note that Eurocheques may no longer be utilized. Since august 1996, the total charges per Eurocheque amounts to 61,50 FF.

*Un accusé de réception vous sera envoyé uniquement sur demande.
A receipt for payments will only be sent on request.*

Je remercie les collègues qui envoient régulièrement, parfois même à l'avance leur contribution financière, et aussi ceux qui ont rattrapé leur retard.

I am very grateful to those colleagues who regularly send their financial contributions, sometimes even in advance, as well as those who have brought their payments up to date.

Encore merci de votre coopération. Bien cordialement.

Thank you for your cooperation. Yours faithfully.

Monique NGUYEN DUY.

¹ If you have problems with these methods of payment please write to me for advice.

BILAN FINANCIER du 1-01-1998 au 31-12-98
FINANCIAL BALANCE from 1-01-1998 to 31-12-1998

EN CAISSE au 1-01-1998	6911, 21 FF
<i>BALANCE, 1-01-1998</i>	
RECETTES / RECEIPTS :	
- Contributions financières perçues en 1998.....	9716, 76 FF
- <i>Financials contributions of the members registered in 1998</i>	
TOTAL des RECETTES	9716, 76 FF
<i>TOTAL RECEIPTS</i>	
DEPENSES / EXPENSES :	
- Coût du bulletin n° 31 (Juin 1998)	7068,57 FF
- <i>Bulletin n° 31 (juin 1998)</i>	
Recherche bibliographique informatisée: 520 F	
<i>On-line bibliographic search</i>	
Fabrication : 6548, 57 F	
<i>Edition</i>	
- Envois postaux 1998.....	1577 FF
bulletin 98	
questionnaire 98	
correspondance 98	
- <i>Postal costs 1998</i>	
<i>bulletin 98</i>	
<i>questionnaires 98</i>	
<i>correspondence 98</i>	
- Frais de fonctionnement	161 FF
- <i>Running costs</i>	
TOTAL des DEPENSES	8806, 57 FF
<i>TOTAL EXPENSES</i>	
SOLDE au 31-12-98.....	7821, 40 FF
<i>BALANCE, 31-12-98</i>	

EUROCHEQUES INTERDITS !!
EUROCHEQUES FORBIDDEN !!
EUROCHEQUES VERBOTEN !!

If you want, you can pay for one, two or even three years at the same time.

For each year, the financial contribution is 100FF (20 US \$, EURO 15.30)

11th International Congress of Myriapodology



Białowieża 20-24 July 1999

INFORMATIONS FROM THE SECOND CIRCULAR

We are glad to inform you that the Organizing Committee of the 11th International Congress of Myriapodology have got more than a hundred preliminary register forms which came from 30 countries from all over the world.

The third circular, with all fixed details should be expected in May-June, 1999. Please, do not hesitate to contact organizers about all the problems concerning your participation; we will try to do our best to help you. You will be very welcome to Poland and Białowieża!

Seat of the Congress

Białowieża is a small village, which is situated north-east of Poland 232 km away from Warsaw, near the frontier with Belarus. The village lies in the heart of the Białowieża Forests and is situated in the neighbourhood of the oldest and well known Polish National Park: Białowieża National Park, protected since 1921. This Park has belonged to the World Biosphere Reserves since 1977 and two years later became the transboundary Polish-Belarus World Heritage Site. There are protected forest ecosystems there, which are almost in primeval state.



Preliminary programme

The provisional schedule of the congress may run as follows:

Monday, July 19: arrival to Warsaw, bus travel to Białowieża, registration, welcome party

Tuesday, July 20: opening, scientific session

Wednesday, July 21: scientific session

Thursday, July 22: excursion to Białowieża National Park and Białowieża Forests,

Friday, July 23: scientific session

Saturday, July 24: scientific session, business meeting and plenary session of C.I.M, farewell bonfire

Sunday, July 25: departure to Warsaw

The Organizing Committee

Jolanta WYTWER

Wojciech JEDRYCZKOWSKI, Grzegorz KANIA, Małgorzata LESNIEWSKA, Henryk TRACZ

Secretariat: 11th International Congress of Myriapodology

Museum and Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, POLAND
tel. +48 22 629-32-21, fax +48 22 629-63-02, email: jolawyt@robal.miiz.waw.pl

Welcome to **W**ytwerland!

Some additional news from Warsaw-Bialowieza

Now the third circular is in prep., which will be sent to participants in the first week of June. There are some news but these are rather details and all what have been written in the second circular is actual. Only this, the rate of exchange currency has changed this year in Poland. Now 1\$ is 3.95 PLN, so prices of some hotel rooms are a little higher in PLN (c.a. 10 PLN) now. The prices of all items of Congress will not be higher.

The Organizing Committee would have the following request to the participants: if somebody could use the earlier congress bus which leave Warsaw at noon but has reserved the place on later time (2 p.m.) please let it know to Jolanta Wytwer. If the first bus is not to be full at noon it's departure should be postponed to 2 p.m. People who will choose the first bus, will have more time for

the rest in Bialowieza before the welcome party !



These informations will be in the 3rd circular (among many other things).

With best regards,

Jolanta Wytwer



Iosif Capuse [1935 — 1999]

Notre collègue Iosif Capuse est décédé subitement le 24 janvier 1999 à l'âge de soixante quatre ans, à la suite d'une maladie de cœur. Il était, depuis son enfance, un naturaliste passionné.

Né le 21 février 1935 à Mehadia, département de Cars-Severin, il a suivi l'enseignement du lycée de Timisoara puis a fréquenté la Faculté des Sciences Naturelles de Bucarest. Étudiant, il a fait partie du Cercle d'Hydrobiologie dirigé par le Professeur Orghidan, où il a préparé ses thèse et licence sur la faune des puits de sa région natale. En 1972, il a soutenu à l'Université de Bucarest sa thèse de doctorat en biologie, ayant pour sujet une famille de Lepidoptera, les Coleophoridae.

Entre 1964 et 1970, il a travaillé au Muséum d'Histoire Naturelle « Grigore Antipa » puis, de 1970 jusqu'à sa mort, à l'Institut de Spéléologie « Emil Racovitza ».

Sa production scientifique comporte la publication de trois livres et de 121 articles dont la grande majorité concerne les lépidoptères. Une trentaine de travaux a pour sujet la faune souterraine de différents groupes d'invertébrés : Ciliata, Trematoda, Cestoda, Gordiidae, Amphipoda, Pseudoscorpiones, Chilopoda.

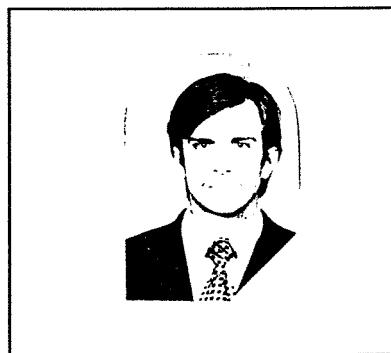
Pour ce qui est de ces derniers, et des myriapodes plus généralement, Iosif Capuse a rassemblé une collection au Muséum d'Histoire Naturelle « Grigore Antipa » et a publié trois articles sur les Geophilomorpha : une contribution à l'étude des genres *Insigniporus* et *Pachymerium*, une note contenant la description d'espèces nouvelles de Majorque et, en collaboration avec C. Prunescu, une contribution à l'étude du développement post-embryonnaire chez différentes espèces de Geophilomorpha.

En 1979, il a reçu le prix « Emil Racovitza » de l'Académie Roumaine. En outre, il fut membre des Sociétés Roumaines de Zoologie Systématique et de Lépidoptérologie, ainsi que de la Société Entomologique de Mulhouse et de la Société Européenne de Lépidoptérologie. Il fut également, durant des années, un membre du Centre International de Myriapodologie.

Ses qualités humaines, de chercheur passionné, d'homme de terrain et d'ami ornent le souvenir que nous gardons de lui.

Ionel Tabacaru & Jean-Jacques Geoffroy

Youri Tarasevitch [.... — 1998]



With deep sorrow I have to inform you that my brother Dr Youri Tarasevitch has gone in July 1998 from cancer, which was the result of his scientific work in the Tchernobyl radioactive zone, where Youri and his research group investigated the influence of comparatively low levels of radiation on soil fauna.

He was one of the leaders of myriapodology in Belarus and his death was a great shock for his colleagues, and not only for us his relatives, his wife, his daughters.

He was also, during years, a member of the Centre International de Myriapodologie.

All his life was an example of scientific feat. I cannot but admire him.

Youri could not finish his work, but the results obtained would help those who choose the scientific road of radiological myriapodology and who continue the previous investigations.

Vadim Tarasevitch

Economic Research Institute, Minsk

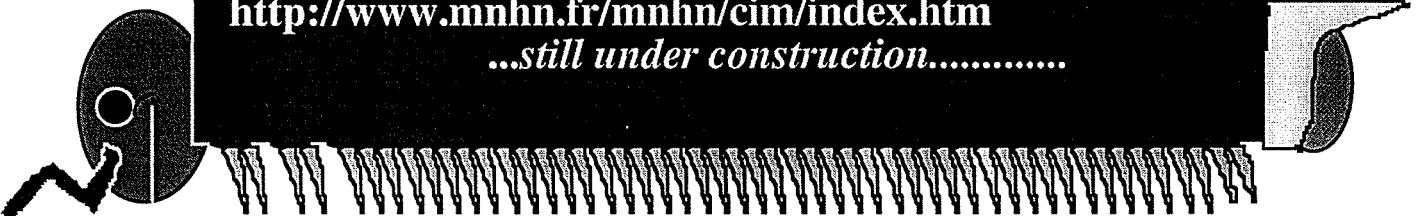
some web sites

<http://www.world/Myriapoda/Onychophora>

In the future, we will have a CIM-homepage in MNHN-server

<http://www.mnhn.fr/mnhn/cim/index.htm>

...still under construction.....



A KSN website under construction

try to visit <http://www.emporia.edu/s/www.biosci/ksn/public.htm>
or contact Kansas School Naturalist Division of Biological Sciences
Box 4050 Emporia State University
Emporia KS 66801-5087 USA

Bill SHEAR's myriapod discussion site

already well known and an establishment of good repute

talk to yourself and other people on myriapod@tiger.hsc.edu

the tigered-myriapod will give you an answer !!

just one additional question, what is the colour of the stripes ?

Stephen W. Bullington maintains a web page on millipedes with links to photos
and other millipedes pages

<http://www.herper.com/Millipede.html>

Bernard Lebreton maintains a web site related to the Société de Biospéologie [Biospeleological Society] in which members do work on cave myriapods

<http://members.aol.com/socdebiosp/index.htm>

see also (next page) the interesting biblio.data.bases sites

mailto <blebre0760@aol.com>
homepage: [<http://members.aol.com/blebre0760/blf.htm>]

Appi on the web !!

you will find on Association pour la Protection des Invertébrés site

- le descriptif des revues que APPI diffuse (*Cahiers de l'Appi*, *Connaissances des Invertébrés* (série *Arachnides* et série *Myriapodes*), *Pénélope*, *Millepattia*).
- des textes sur l'environnement (Conventions internationales, textes légaux).
- des orientations bibliographiques sur différents sujets...

<http://www.mygale.org/04/appi>

Steve P. Hopkin still maintains his web site (myriapods, isopods, springtails, ??) already known as

<http://www.rdg.ac.uk/AcaDepts/sa/AMS/staff/hopkin/sphome.html>

Julian Monge-Najera and the Onychophoran web site

<http://www.ots.duke.edu>
or
<http://www.ots.ac.cr>

see below the Onychophora newsletter

BIBLIO-DATA-BASES

Biblio.CIM

Number of references = 3950 (May 1999)

From 1888 to 1999

MYRIAPODOLGY and ONYCHOPHOROLOGY: every topics

All references cited in the « Bulletin du CIM » from n° 19, 1986 to n° 32, 1999

Key-Words & Key-Words+

4Dimension programme on Macintosh computer

Informations: J.M. DEMANGE <documill@mnhn.fr>

Biblio.Milpath

Number of references = 7200 (May 1999)

From 1749 to 1999

Directory of specific key-words = 317

Directory of periodical journals = 1097

MYRIAPODOLGY and ONYCHOPHOROLOGY: every topics

Main topics: Biogeography; Biospeleology; Ecology (populations, communities, ecosystems); Forest ecology;

Soil biology; Systematics (phylogeny, cladistics);

Additive topics: Biodiversity; Cytology (histology); Development; Environment; Ethology; Evolution;

Physiology (ecophysiology, ecotoxicology); Reproduction; Ultrastructure; Venoms

BiblioMacPC programme on Macintosh

Informations: J.J. GEOFFROY <geoffroy@mnhn.fr>

This data base includes the papers available in the specialized CIM-librairy

BIOSPEOLOGICA BIBLIOGRAPHIA

World bibliography on cave fauna and flora

World Wide Web URL: [[Http://members.aol.com/blebre0760/index.htm](http://members.aol.com/blebre0760/index.htm)]

World bibliography on cave Chilopoda:

World Wide Web URL: [[Http://members.aol.com/blebre0760/chilopoda.htm](http://members.aol.com/blebre0760/chilopoda.htm)]

World bibliography on cave Diplopoda:

World Wide Web URL: [[Http://members.aol.com/blebre0760/diplopoda.htm](http://members.aol.com/blebre0760/diplopoda.htm)]

World bibliography on cave Paurotopoda:

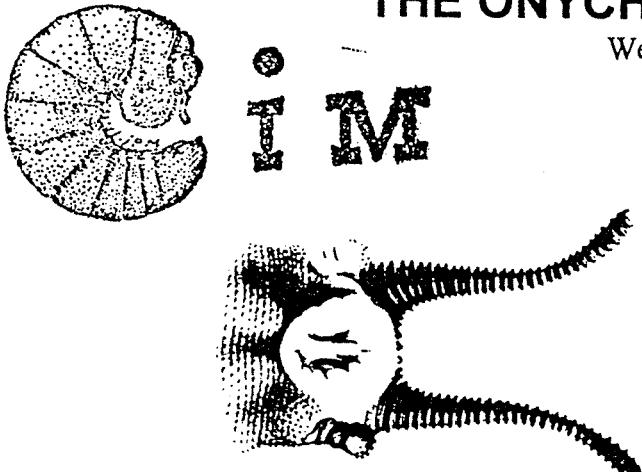
World Wide Web URL: [[Http://members.aol.com/blebre0760/paurotopoda.htm](http://members.aol.com/blebre0760/paurotopoda.htm)]

World bibliography on cave Symphyla:

World Wide Web URL: [[Http://members.aol.com/blebre0760/symphyla.htm](http://members.aol.com/blebre0760/symphyla.htm)]

THE ONYCHOPHORA NEWSLETTER

Web page in: www.ots.ac.cr



THE ONYCHOPHORA NEWSLETTER

Nr. 7, February 1999

Editor: Julián Monge-Nájera, Biología Tropical,
Universidad de Costa Rica 2060 San José, Costa Rica
E-mail: julianm@cariari.ucr.ac.cr

Editorial Board: Bernal Morera (Barcelona), Carlos Valerio and José Vargas (San José).

EDITORIAL

As we approach the end of the 20th century, onychophorology seems to be in good condition, as you can see from the news included in this edition, but the number of published studies is low, possibly because some important researchers have retired, and because others are working on large papers that require years to finish. I hope that we will see more publications in forthcoming years, particularly much needed field studies and better DNA analyses. It is no secret that I am often dissatisfied with biochemical studies that consistently produce contradictory results and come from professionals with no previous experience with onychophorans. Molecular biologists should meet the quality standard that our Australian colleagues have set. Conservation biology is a *must* for the 21st century. The *Onychophora Newsletter* has grown and this is good, but it has become impossible for me to finance the mailing of a printed version to all of you, so I am sending only this contents description and beg you to see the complete newsletter in my web page (*Onychophora On-Line* inside www.ots.ac.cr). Only libraries, and those of you who write mentioning lack of Internet access will receive the complete printed version. And finally: thank you very much to those who sent checks to help finance this edition.

MICHAEL GHISELIN'S ONYCHOPHORA BIBLIOGRAPHY IS NOW AVAILABLE

A highly comprehensive and carefully assembled bibliography on the Onychophora was prepared by one of the leading Darwinian authorities of the century, and well known expert about onychophoran evolution, Dr. Michael Ghiselin of the California Academy of Science. A first version of his growing database is available on-line to Internet users in the *Onychophora On-Line* page that is part of *Tropiweb*:

www.ots.ac.cr or www.ots.duke.edu

The OTS site is growing rapidly and requires periodic reorganization, so if you fail to find it there, use a finder (such as Lycos, Altavista, Yahoo, Webcrawler or similar) and look for *Onychophora*

On-Line or for my name. The onychophoran community (particularly students in countries with poor libraries) will no doubt be greatly indebted to Dr. Ghiselin for sharing his database.

ONYCHOPHORAN SWARMING IN TASMANIA

Dr. Robert Mesibov provides a very interesting observation about Tasmanian egg-laying onychophorans (*Ooperipatellus decoratus* Baehr 1977). 'Mass swarming' occurs on tree-trunks in wet forest (he was accompanied by German student Claudia Brockmann). Additionally, he comments on onychophoran conservation, a field in which he is a pioneer.

NEW FINDING ABOUT THE ONYCHOPHORA OF LA SELVA

University of Colorado's Dr. Terrence P. McGlynn tells us about his experience with onychophorans in La Selva, an Organization for Tropical Studies field station in Caribbean Costa Rica. He discusses possible associations among onychophorans, ants and habitat characteristics.

HOW DID ONYCHOPHORAN LEGS ORIGINATE?

A paper by a large team in which our good friend and well known onychophoran expert Dr. Muriel Walker was a member recently published "The origin and evolution of animal appendages" (Proc. Ntl. Acad. Sci. USA 94: 5162-5166). They wanted to know if the Distal-less (DII) homeoprotein appeared in both protostomes and deuterostomes, suggesting a very old origin of the genes that control appendage growth. Studied taxa included the South African onychophoran *Peripatopsis capensis*. They suggest that the DII gene evolved in association with antenniform outgrowths in a pre-Cambrian worm, and that it allowed independent development of parapodia in polychaetes and of "lobopodia" (oncopods) in onychophorans. They mention, however, that some of their results could also reflect crossreactivity of the DII antibody to other proteins and that the DII genes "could have been co-opted independently for appendage formation from some

other function".

NEW STUDY ONONYCHOPHORAN LEG AND INTEGUMENT

Chantal Gabriel (cjgab@yahoo.com), a third year biology student at the University of Natal in South Africa is beginning a study of integument and leg structures of two local species, *Peripatopsis moseleyi* and *Opisthopatus cinctipes*. If she sends reports of her results, I will include them in a future edition.

ONYCHOPHORA OF MEXICO

The second volume of *The Arthropoda of Mexico* will be published by the prestigious Universidad Nacional Autónoma de México (UNAM) before the end of 1999. It will include a chapter on Mexican Onychophora written by J. Monge-Nájera. The chapter reviews the biology of the phylum as well as the history of research in Mexico, the state of collections and estimates the number of undescribed species. Of particular interest for non-Mexican readers may be the statistical analysis of bibliometric trends about the phylum that covers more than 150 years of technical literature.

ONYCHOPHORA AND THE EVOLUTION OF ARTHROPODA

The Aragon Entomological Society will publish a new volume of their thick *Boletín de la Sociedad Entomológica Aragonesa* dedicated to the latest about evolution and phylogeny of Arthropoda. Antonio Melic, its editor, has reported that it will include a section about Onychophora. The Boletín traditionally presents extensive reviews of an impressive quality and is based in Zaragoza.

HOW TO COLLECT AND PRESERVE ONYCHOPHORANS

Onychophorans are rare animals and should be preserved with the greatest care to guarantee scientific value and to justify removal from the genetic pool of each species. This guide explains how to find them and how to properly preserve them for museum and for DNA study (in Spanish, a volunteer for translating it into English is wanted).

COSTA RICAN STUDIES ABOUT ONYCHOPHORAN EVOLUTION

A journalistic account written by Andrea Brenes and published in a university bulletin, that describes the Costa Rican contribution to our knowledge of onychophoran evolution.

UPDATED DIRECTORY OF PEOPLE INTERESTED IN ONYCHOPHORANS

Finally an updated directory, with complete addresses (including e-mail in some cases) and geographically classified, is available on-line in this edition.

GERMAN VOLUNTEER TO SCAN SLIDES

I was contacted by a German biologist who kindly offered to scan material from the Ruhberg collection of onychophoran photographs. Unfortunately, I lost all his data when my computer crashed (I was without Internet access for months). If you know him, please help us re-establish contact.

FORTHCOMING

The next Onychophora On-Line update will include:

- The ascent of life: a comparison of the philosophical views of Alexander Skutch and Stephen Gould using onychophorans as a guide
- A life of change: the external body changes of onychophorans from embryo to adult
- The evolution of Onychophora: on-line version of the published study that placed 150 years under a Darwinian perspective
- Onychophoran habitats: on-line version of the only published comparison of onychophoran habitats
- Onychophorans versus scorpions: on-line version of the published study about why these two groups of small predators took different evolutionary roads.
- Keep visiting the page for these sections and for related news
- Photos from the Böckeler expeditions to Costa Rica, including Ira Richlings slides of a dark giant onychophoran from the Atlantic versant.

HOW TO HELP

You can assist by providing text, images, translations, volunteer works and small money contributions (if so, please state if you want to remain anonymous).

Text: send in Rich Text Format or Microsoft Word as e-mail attachment, in diskette or if these are impossible, in printed form.

Images: send photographs, drawings, paintings, etc. in Jpeg, GIF, Tiff or Photoshop format as e-mail attachment, in diskette or if these are impossible, in printed form.

Translations: our official language is English to reach the great readership, but I have sections in other languages for lack of time to translate them: if you can do a better job than an automatic translator, please let me know.

Volunteer work: if you can help produce the next newsletter, or are coming to Costa Rica and want to help just for the satisfaction, let me know.

Money: Globalization hit Costa Rican industries because markets were open to large foreign companies, but it also had one good effect; Costa Rican banks now accept checks in dollars from any bank of the world, so money orders and the like are no longer necessary. Contact me for additional information

THE CIM QUESTIONNAIRE HOW IMPROVE IT ?

Dear colleagues,

It is very important for the CIM Secretariat to receive EACH YEAR an answer to the Questionnaire. First of all, it is important to know and update any modification dealing with addresses, phone, fax or e-mail numbers, topics in progress, web sites and so on. But, even if you have not any news to communicate, it is important for us to receive this answer, it proves you are still existing and you are still interested by the CIM activities.

so, do not forget to reply !!

You can answer the questionnaire by classic postal mail or by fax. You can also send your informations by electronic-mail to the e-mail address of the CIM secretariat (see above). Just precise : this is my reply to the questionnaire.

Please, do it ! Do it as you want, but just do it !

In any case, please do write very clearly, in capital blocks if possible or type-writing. Consider that some questionnaires are not so easy to read and interpret. The purpose of the secretariat is obviously to deliver precise and correct informations, so please avoid the risk of misunderstanding.

Recommendations for the references : list of the works Liste des travaux : recommandations pour la bibliographie

This is particularly important for the way to write the list of your works. We absolutely need a very correct writing for the references.

Please, do avoid references such as : « my work in collaboration with any and any in this book » or « my paper *et al.* in the proceedings of the congress »... Such informations cannot be received any more !

If you please, we ask you for a precise and coherent way to write your bibliography, just as it asked for a paper in a journal, **with the different authors in the correct order**, as follows :

BARLOW C. A. — 1957 — A factorial analysis of distribution of three species of diplopods. *Tijdschrift voor Entomologie*, **100** : 349-426.

BLOWER J.G.E. & MILLER P.F. — 1977 — The life history of the julid millipede *Cylindroiulus nitidus* in a Derbyshire wood. *Journal of Zoology*, **183** : 339-351.

MANTON S. M. — 1977 — *The Arthropoda. Habits, functional morphology and Evolution*. Clarendon Press, London, 527 pp.

CRAWFORD C. S. — 1979 — Desert millipedes: a rationale for their distribution. In: *Myriapod Biology* (CAMATINI M., Ed), Academic Press, London : 171-181.

Thank you very much in advance for your help.

CONGRESSES, BOOKS, BULLETINS, JOURNALS IN « MYRIAPOD WORLD »

International Congresses

- 1) 1968: Paris, France / J.M. Demange & J.P. Maurès
- 2) 1972: Manchester, UK / J.G. Blower
- 3) 1975: Hamburg, Germany / O. Kraus
- 4) 1978: Gargnano, Italy / M. Camatini
- 5) 1981: Radford, Virginia, U.S.A. / R.L. Hoffman
- 6) 1984: Amsterdam, The Netherlands / C.A.W. Jeekel
- 7) 1987: Vittorio Veneto, Italy / A. Minelli
- 8) 1990: Innsbruck, Austria / E. Meyer & K. Thaler
- 9) 1993: Paris, France / J.J. Geoffroy, J.P. Maurès & M. Nguyen Duy - Jacquemin
- 10) 1996: Copenhague, Denmark / H. Enghoff
- 11) 1999: Białowieża, Poland / J. Wytwer
- 12) 2002
- 13) 2005

Books and Proceedings

DEMANGE J/M. & MAURIES J.P. (Eds) -1969- Ier Congrès International de Myriapodologie. Paris (France), 8-13 avril 1968, Comptes-Rendus. *Bulletin du Muséum National d'Histoire Naturelle, Paris*, Vol. 41, Suppl. n°2, 448 pp.

BLOWER J.G. (Ed) -1974- Myriapoda. Second International Congress of Myriapodology. *Symposia of the Zoological Society of London*, n°32, Academic Press, London, 712 pp.

KRAUS O. (Ed) -1978- Myriapoda. III. Internationaler Kongress für Myriapodologie. Hamburg, 3.—9. April 1975. *Abhandlungen und Verhandlungen des Naturwissenschaftlichen Vereins in Hamburg*, (NF), 21/22, 380 pp.

CAMATINI M. (Ed) -1979- *Myriapod Biology*. Academic Press, London, 456 pp.

ELLIS W.N., JEEKEL C.A.W. & PIETERS F.F.J.M. (Eds) —1985— Proceedings of the 6th International Congress of Myriapodology. Amsterdam, 12-17 April 1984. *Bijdragen tot de Dierkunde*, Vol. 55, n°1, 218 pp.

MINELLI A. (Ed) —1990— *Proceedings of the 7th International Congress of Myriapodology*. E.J.Brill, Leiden, 480 pp.

MEYER E., THALER K. & SCHEDL W. (Eds) —1992— Advances in Myriapodology. *Ber. nat.-med. Verein Innsbruck*, Supplement 10, 465 pp.

GEOFFROY J.J., MAURIES J.P. & NGUYEN DUY - JACQUEMIN M. (Eds) —1996— ACTA MYRIAPODOLOGICA. *Mémoires du Museum National d'Histoire Naturelle*, tome 169, 682 pp.

ENGHOFF H. (Ed) —1997— Many-legged animals — A collection of papers on Myriapoda and Onychophora. *Entomologica scandinavia*, Supplement 51, 329 pp.

Bulletin du Centre International de Myriapodologie

Edited by: DEMANGE JM, GEOFFROY JJ, MAURIES JP & NGUYEN DUY - JACQUEMIN M.
From n°1, 1968 to n°32, 1999.
©MNHN, Paris

Bulletin of the British Myriapod Group

Edited by: J. GORDON BLOWER, COLIN FAIRHURST, TONY BARBER & HELEN J. READ
From n°1, 1972 and then n° 2, 1985, to n°14, 1998.
©BMG, Ivybridge

with also the **BRITISH MYRIAPOD GROUP NEWSLETTER**, edited by **DICK JONES**.

issue n° 27 , autumn 1997
issue n° 28 , spring 1998
issue n° 29 , autumn 1998
issue n° 30 , spring 1999

Myriapodologica

Edited by RICHARD L. HOFFMAN

Virginia Museum of Natural History Martinsville, Va, USA

an American Journal for Myriapod Taxonomy

5 volumes have been published, from 1978 to 1997 :

I 1,2,3,4,5,6,7,8,9,10,11,12,13,14: 1978-1984
II 1,2,3,4,5,6,7,8,9,10,11,12,13: 1984-1993
III 1,2,3,4,5,6,7,8,9,10,11,12,13: 1994-1995
IV 1,2,3,4,5,6,7,8,9,10,11,12, 13, 14: 1996-1997
V 1,2,3,4,5,6,7,8,9,10,11,12, 13: 1997-1998

Onychophora Newsletter

Edited by JULIAN MONGE-NAJERA

1, 1987; 2, 1988; 3, 1991; 4, 1993; 5, 1995; 6, 1997; 7, 1999

General informations about onychophorans
Biología Tropical, Universidad de Costa Rica

remember also the Japanese Journal **TAKAKUWAIA** 1976 1993

dedicated to Takakuwa and to the Oriental myriapods.

SUJETS ACTUELLEMENT ABORDES OU *EN PROJET

Cette rubrique n'est pas complète. Elle est la somme des renseignements transmis par les 89 collègues qui ont bien voulu répondre à notre questionnaire, ce dont nous les remercions bien vivement.

MATTERS BEING DEALT OR *SCHEDULED

This list is not complete. It is the sum of information send to us by 89 colleagues who were kind enough to answer our questionnaire, for which we thank them very much.

LAUFENDE ODER *IN VORBEREITUNG BEFINDLICHE VORHABEN

Dieser Abschnitt erhebt keinen Anspruch darauf vollständig zu sein. Er enthält die Summe der Hinweise, die uns durch 89 Kollegen zugegangen sind, welche so freundlich waren, unsere Fragebogen zu beantworten, und denen wir verbindlich danken möchten.

NOMENCLATURE

JEEKEL & MINELLI, Nomenclator Chilopodorum.
SHELLEY, Nomenclator Diplopodorum (II).

HISTOIRE

DEMANGE, Myriapodes de l'expédition Bonaparte.

INFORMATION

MONGE NAJERA, Update of Onychophora web page for 1999.

STRUCTURE et PHYSIOLOGIE

GENERALITES:

ARTHUR, the ecological genetics and developmental genetics of variation in segment number (Chilopoda: Geophilomorpha: *Strigamia maritima*).

FONTANETTI, morphology, cytogenetics and histochemistry in Brazilian diplopods.

DEMANGE, une synthèse de la segmentation des Myriapodes.

DESCAMPS, FABRE, influence des métaux lourds sur la physiologie et la structure des *Lithobius*.

DESCAMPS, Biosynthèse des ecdystéroïdes.

FODDAI, homologies and evolutionary trends in segmental patterns of chilopod antennae.

FABRE, influence des métaux lourds sur la physiologie et la structure des *Lithobius*.

HANNIBAL, sternal pores of euphoberiid diplopods (Carboniferous).

MINELLI, organisation métamérique des Myriapodes (hétérochronies, phylogénèse).

PENTEADO, physioécologie, rythmes circadiens, acclimatation thermique, métabolisme et respiration des Diplopodes du Brésil.

RUHBERG, systématique, biologie, écologie, et anatomie fine des Onychophores.

ORGANES SENSORIELS:

ERNST, ultrastructure and distribution of different cuticular sensilla on the appendages of the centipede *Geophilus longicornis*.

NGUYEN-DUY, ultrastructure des cônes sensoriels antennaires apicaux de deux espèces de Spirobolida.

APPAREIL RESPIRATOIRE, RESPIRATION, METABOLISME:

GROMYSZ-KALKOWSKA, respiration , metabolism and immunology of Diplopoda.

PENTEADO, métabolisme et respiration des diplopodes du Brésil.

SUSTR, behavioural responses and lethal effects of CO₂ and hypoxia; behaviour in artificial temperature gradient and impact of temperature on energy budget (Millipedes).

APPAREIL CIRCULATOIRE, HEMOLYMPHE, IMMUNOLOGIE:

GROMYSZ-KALKOWSKA, respiration , metabolism and immunology of Diplopoda.

KANIA, mécanismes de défense immunitaires chez les diplopodes.

PASS, morphology and evolution of circulatory organs in Chilopoda.

GLANDES, SECRECTIONS, EXCRETION, ORGANES COXAUX:

MASHBERG, biological function of defensive secretions in millipedes.

WEYDA, * eversible vesicles in myriapods.

APPAREIL GENITAL: voir REPRODUCTION et DEVELOPPEMENT

BIOCHIMIE, BIOLOGIE MOLECULAIRE, METAUX LOURDS, ELECTROPHORESE:

DESCAMPS, FABRE, influence des métaux lourds sur *L. forficatus*.

KANIA, microbiology of Diplopoda.

KÖHLER, stress proteins in Diplopods.

CYTologie, CYTOGENETIQUE:

FONTANELLI, morphology, cytogenetics and taxonomy of Brazilian diplopod species.

KANIA, * cytogenetics of Diplopoda.

TUF, chromosome studies on Geophilomorpha.

ULTRASTRUCTURE:

FONTANELLI, on brazilian species of Diplopods.

NGUYEN-DUY, cônes sensoriels antennaires apicaux de deux espèces de Spirobolida.

REPRODUCTION et DEVELOPPEMENT

GENERALITES:

ARTHUR, the ecological genetics and developmental genetics of variation in segment number (Chilopoda: Geophilomorpha: *Strigamia maritima*).

DUPRE, élevage et développement postembryonnaire des Spirobolida et Spirostreptida; *développement postembryonnaire de *Scolopendra subspinipes dehaani*.

ENGHOFF, Geographical parthenogenesis in *Nemasoma varicorne*.

PEITSALMI, periodomorphosis of Diplopods (Blaniulidae).

SAHLI, stratégies reproductives.

GENITALIA , APPAREIL GENITAL, CARACTERES SEXUELS:

PRUNESCU C & PRUNESCU P., comparative histology of the male genital system in the order Scolopendromorpha.

ONTOGENESE:

ARTHUR, the ecological genetics and developmental genetics of variation in segment number (Chilopoda: Geophilomorpha: *Strigamia maritima*).

DOHLE, Anamorphosis in Pentazonia.

DUPRE, élevage et développement postembryonnaire des Spirobolida et Spirostreptida; *développement postembryonnaire de *Scolopendra subspinipes dehaani*.

MAKAROV, ontogenèse de Diplopodes.

SAHLI, ontogenèse des Diplopodes, péridomorphose.

SERRA, reproduction et développement de quelques Lithobiomorphes.

ETHOLOGIE et ECOLOGIE

ETHOLOGIE:

PENTEADO, physioécologie, rythmes circadiens, acclimatation thermique, métabolisme et respiration des Diplopodes du Brésil.

TOXICOLOGIE, DEFENSES:

MASHBERG, biological function of defensive secretions in millipedes.

ECOLOGIE:

ARTHUR, the ecological genetics and developmental genetics of variation in segment number (Chilopoda: Geophilomorpha: *Strigamia maritima*).

BAKER, effect of habitat patch size on millipede species diversity and abundance.

BOURDANNE KADEBE, influence de l'homme sur les peuplements de Diplopodes (région d'Abidjan, Côte d'Ivoire).

BUENO VILLEGAS, study on millipedes in an altitudinal gradient (Mexico).

DAVID, écologie des Diplopodes épigés en forêt méditerranéenne.

DAVID, GEOFFROY, CELERIER & VANNIER, démographie & écophysiologie de *Polydesmus angustus*.

DESCAMPS, FABRE, influence des métaux lourds sur la physiologie et la structure des *Lithobius*.

GARCIA RUIZ, populations de Myriapodes et distribution selon des critères physico-chimiques.

GEOFFROY, populations et peuplement de diplopodes et chilopodes en forêt tempérée.

HAMER, factors affecting Millipede distribution and diversity in savanna habitats.

HORNUNG, spatial & temporal patterns of diplopod populations in different habitats.

JEDRYCZKOWSKI, *fauna of town green in Viet nam.

KHANNA, ecological studies on the scolopendrids of India, specially in conservation areas.

KIME, ecology and distribution of myriapods in Belgium, Luxemburg, France and Spain.

KÖHLER, Role of cellular and molecular alterations as indicators of soil pollution.

KONDEVA, Millipedes in litter in Bulgaria.

MAHSBERG, ecology of tropical millipede communities.

MEYER, the forest soil fauna at the north and south slope of the eastern Alps.

MIKHALJOVA, Diplopoda of russian Far East and Siberia. * Chilopoda, Paupropoda, Symphyla of Far East.

MONGE-NAJERA, A catalogue of habitats of all Onychophoran species of the world.

NEGREA, Chilopodes des forêts de Roumanie.

OZANOVA, Diplopoda (Czech Republic); * successional row of floodplain forest.

PENTEADO, physioécologie, rythmes circadiens, acclimatation thermique (Diplopodes du Brésil).

READ H., ecology and taxonomy of Siphonophorida from Brazil.

RIBAROV, Centipedes from Stara Planina range (Central Bulgaria).

SCHMITT, Centipedes and Millipedes of Agrosystems.

SERRA, écologie de populations de Myriapodes.

SPELDA, écologie des Myriapodes du sud de l'Allemagne.

SUSR, behaviour of millipedes in artificial temperature gradient and impact of temperature on energy budget of millipedes.

TAJOVSKY, Millipedes and Centipedes in flooded ecosystems - Millipedes in the secondary succession.

TRACZ, recherches comparées sur les Diplopodes et Chilopodes des sols d'origine forestière ou agricole; valorisation de la faune du sol de forêt.

TUF, Chilopoda: successional row of forest.

WYTWER, Chilopoda of different wooded sites of Bialowieza forests.

ZULKA, Myriapoda of salt pan littorals in the Seewinkel region (Austria). Myriapoda and the edge effect.

BIOSPEOLOGIE:

CONDE, Pénicillates endogés et cavernicoles.

GARCIA RUIZ, Chilopodes.

GEOFFROY, Diplopodes & Chilopodes cavernicoles (France, Brésil, Maroc, etc.).

LEBRETON, bibliographie mondiale de la flore et de la faune cavernicole; * bibliographie mondiale des Chilopodes, Diplopodes, Paupropodes et Symphyles souterrains.

MOCK, Millipedes of West carpathian caves.

NEGREA, Chilopodes (Roumanie, Israël, Cuba, Venezuela).

TABACARU, le passage à la vie cavernicole et la troglomorphogenèse chez les Diplopodes.

SYSTEMATIQUE et FAUNISTIQUE

**MONOGRAPHIES, FAUNES, CATALOGUES,
CARTOGRAPHIE, MUSEOGRAPHIE
{see also OUVRAGES GENERAUX}**

- ANDERSSON, Faune des Chilopodes de Suède.
BERG & KIME, Atlas of Myriapods of Benelux.
CRISAN & CEUCA, * Diplopodes de Roumanie.
DI GIOVANNI, taxonomic & faunistique des diplopodes d'Italie.
FLOREZ, catalog of Myriapods(Colombia).
GEOFFROY, systématique et biogéographie des Diplopodes et Chilopodes de France, et divers pays (Maroc, Brésil, Maurice, Québec).
GRUBER, faunistique des Diplopodes et Chilopodes d'Autriche orientale.
HAMER, revision of the Southern African *Doratogonus* and * *Sphaerotherium* - An illustrated key to the southern african Spirostreptid genera.
HOFFMAN, - rev. for Monographie of Gomphodesmidae, in «Das Tierreichs».
JEEKEL, * Paradoxosomatidae d'Australie.
JONES, Atlas of British Millipedes.
KHANNA V., Faune des Chilopodes de l'Inde.
KIME, Atlas of distribution of European Myriapoda.
KORSOS, taxonomie et faunistique des Diplopodes de Hongrie (in the serie: Fauna Hungariae).
LEE, preparation of Atlas of distribution of millipedes in Great Britain.
MAURIES, Diplopodes de Guyane française * Faunes de France des Départements et Territoires français d'Outre-Mer.
MEIDELL, "data bases" sur la littérature myriapodologique et les noms d'espèces.
MIKHALJOVA, Diplopoda of russian Far east and Siberia. * Chilopoda, Pauropoda, Symphyla of Far East.
MINELLI, FODDAI, PEREIRA, SHELLEY, taxonomie et faunistique des Geophilomorpha du monde.
MOCK, Millipedes of West Carpathian localities (and caves).
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- NEGREA & ZAPPAROLI, Chilopodes pour "Fauna Palaestina" (Jerusalem).
- NGUYEN-DUY, systématique et distribution des Pénicillates du monde entier. Révision de 3 genres à sensilles gnathochilariaux biarticulés: *Macroxyenus*, *Macroxyenodes*, *Chilexenus*.
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(Institut de l'Information Scientifique et Technique du C.N.R.S.)

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Soil microarthropod abundance and species richness in successional Douglas-fir forests. *Nordwest Sci.*, 72, sec. issue 2: 96-97, 1998
- 2 · Adis J., Golovatch S.I., Hoffman R.L., Hales D.F., Burrows F.J. 1998
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- 3 · Alderweireldt M. 1997
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- 6 · Andres P., Athias Binche F. 1998
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Glomeris Latreille, 1802 (Diplopoda), *Armadillo* Latreille, 1802, *Armadillidium* Brandt in Brandt and Ratzeburg, (1831) and *Armadillo vulgaris* Latreille, 1804 (currently *Armadillidium vulgare*) (Crustacea, Isopoda): Generic and specific names conserved. *Bull. Zool. Nom.*, 55, 2: 124-128, 1998
- 8 · Arthur W. 0
Variation in centipedes segment number: population genetics meets evolutionary developmental biology. *Sous presse.- Evol. Devel.*, 1
- 9 · Bachmann L., Tomiuk J., Adis J., Vohland K. 1998
Genetic differentiation of the millipede *Pycnotropis epiclysmus* inhabiting seasonally inundated and non-flooded Amazonian forests. *J. Zool. Syst. Evol. Res.*, 36, 1-2: 65-70, 1998
- 10 · Baker G.H. 0
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- 13 · Barber A.D. 1998
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Lithobius forficatus (L.) (Chilopoda, Lithobiomorpha) with highly abnormal features. *Bull. Br. Myriapod group*, 14: 36, 1998
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- 16 · Bittner K., Ruhberg H., Storch V. 1998
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**ANNOUNCES ANNONCES ANZEIGE
WANTED ON RECHERCHE GESUCHT**

BARBER	Chilopoda & Diplopoda from Channel islands & Bretagne - Normandie (France)
BERG	Any Chilopods for study in phylogeny.
BERG	Contact hoped with myriapodologists recording in Germany along dutch border, or myriapods which has broad overview on german species.
BERON	Looking person to study my world collection of Scutigeromorpha.
BOURDANNE KADEBE	Tout document sur les Diplopodes d'Afrique Centrale et de l'Ouest... et sur la distribution des diplopodes en Amérique du Sud.
BUENO VILLEGAS	I need informations about studies of millipedes in an altitudinal gradient.
DI GIOVANNI	Diplopoda from Italy (material & any information).
DUPRE	Spécimens de Spirobolida, Spirostreptida, Scolopendromorpha pour élevage.
FLOREZ DAZA	Papers with myriapod species for Colombia registers.
GEOFFROY	Diplopoda et Chilopoda de France, identifiés ou non, avec localités précises, pour base de données Fauna Gallica Diplopoda (& Chilopoda)
GERDEMAN	Mites found on myriapods, or in alcohol preserving myriapods in collections. Please indicate reference of host, collecting data, institution's name and address.
GRUBER	reprints of several papers by C. Attems are still available (free or exchange).
HAGINO	Pauropoda, especially European and North American
HOPKIN	Informations & contact on the web site : http://www.rdg.ac.uk/AcaDepts/sa/AMS/staff/hopkin/Sphome.htm
HORNUNG	Any literature on the ecology of diplopods.
JASKIEWICZ	Please send me informations about newest nomenclature and taxonomy of diplopods.
JEEKEL	Colleagues are requested to mention any error or omission they may have found in the Nomenclator generum et familiarum Diplopodorum in order that these can be published in a forthcoming erratum. Please send letters to CAW Jeekel, Baerdijk 142, 5062 HV Oisterwijk Netherlands.
KANIA	Large living Diplopoda; behavioural defense reactions in diplopods.
KHANNA	Any material (Scolopendrid) for identification. Requested: Literature on the earlier workers, if available for distribution.
KIME	Distributional data wanted on any European myriapods. Atlases for Diplopoda nearing completion. For many species the information is very patchy and the distributional limits are uncertain.

**ANNOUNCES ANNONCES ANZEIGE
WANTED ON RECHERCHE GESUCHT**

KONDEVA	Reprints on the flat-backed millipedes (Polydesmidae) on the territory of the Balkan Peninsula.
MAURIES	Diplopoda from Guianas. Papers of Takakuwa (purchase or exchange).
MEIDELL	Polydesmids from the Holarctic region.
MONGE-NAJERA	Onychophoran specimens for the UCR collection. News and literature for Onychophora Newsletter. Visit the Onychophora Page on http://www.ots.duke.edu
MRSIC	Wanted: Diplopoda from Indonesia & Balkans.
NEGREA	Toutes informations et publications concernant les Chilopodes du Proche-Orient.
NGUYEN DUY - JACQUEMIN	Pénicillata from South Africa and South America.
PEREIRA	Schendylidae néotropicaux.
REIP	Informations dealing with millipedes of the Seychelles.
RICHARDS	Literature relating to the Diplopoda of S.E Asia and Australasia, with particular reference to the Malay archipelago and Borneo. Identified specimens from this region.
RUHBERG	Wanted ! Bouvier : 1905 + 1907 (Monographie des Onychophores)
SCHILEYKO	Scolopendromorpha & Geophilomorpha from any regions of the globe (especially SE Asia).
SHEAR	Chordeumatid millipedes from anywhere in the world but especially the Tropics /- Fossil myriapods.
STOEV	Looking for any identified/unidentified material of world Scutigeromorpha, and data about the distribution of Scutigeromorpha.
TAJOVSKY	Informations and literature - millipedes of the Near East (esp. Israel). Historical and recent distribution of Scutigera coleoptrata in Europe.
TUF	Living specimens of Geophilomorpha for chromosome studies.
VAN DEN SPIEGEL	Wanted any pill millipedes (especially from Madagascar).
WEYDA	Interest for Onychophora increasing, I have videotapes on some of them. Looking for material for ultrastructural studies.
ZAPPAROLI	Centipedes from the Near East.

