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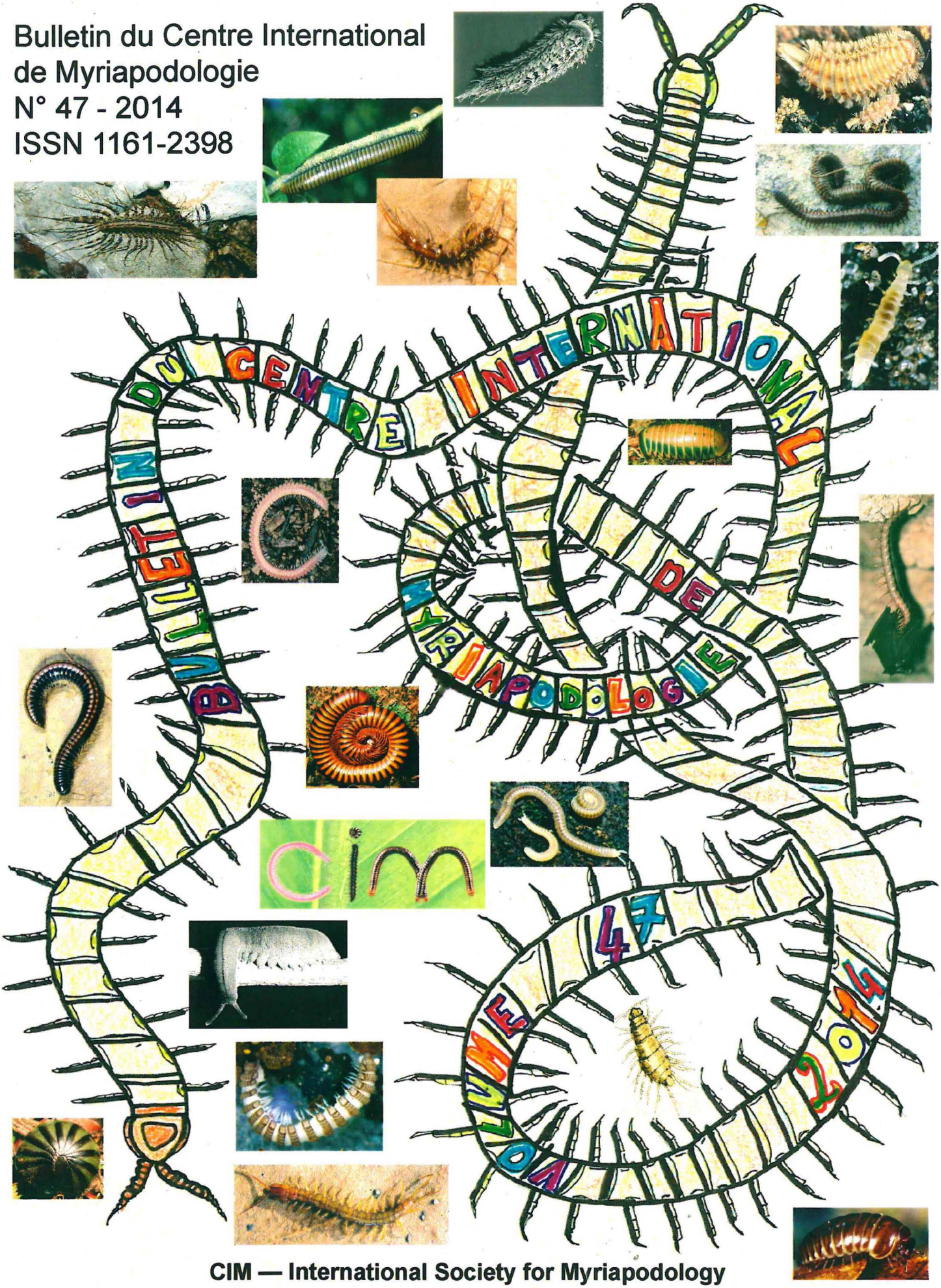


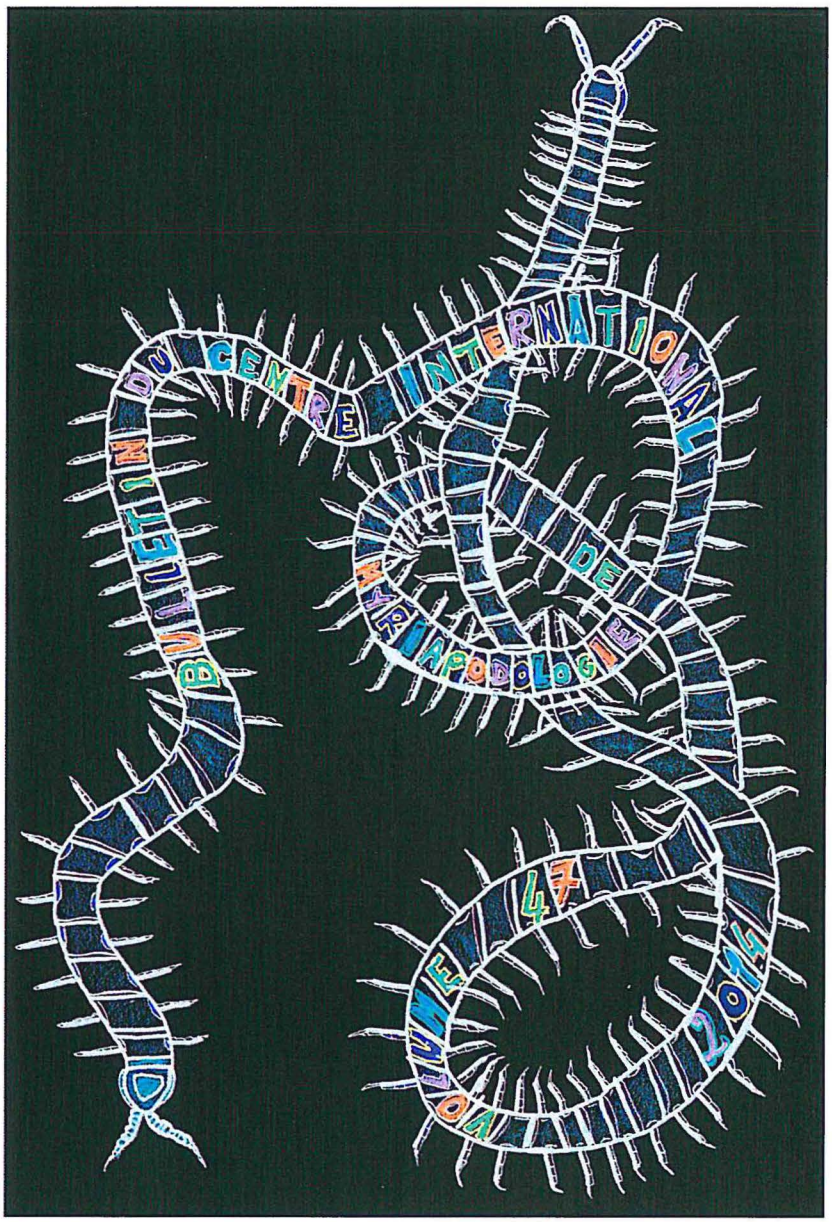
CIM — International Society for Myriapodology

Geoffroy J.-J., Nguyen Duy - Jacquemin M. (Eds)

N° 47 - 2014 ISSN 1161-2398

BULLETIN DU CENTRE INTERNATIONAL DE MYRIAPODOLOGIE

International Society for Myriapodology



Cover picture: The farewell Myriapod
Drawing by Oriane Hubert (8 y.o.) Design CIM Secretariat

MYRIAPODA & ONYCHOPHORA

GEOFFROY J.-J., NGUYEN DUY - JACQUEMIN M. (EDS)

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Drawing by Oriane Hubert Design by CIM Secretariat
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The editorial team have conceived and realized the present (and last) bulletin with the participation of **98** people who answered the questionnaire or sent information, document and data. Thank you very much for contribution.

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BULLETIN DU CENTRE INTERNATIONAL DE MYRIAPODOLOGIE

Cosmic Intergalactic Myriapodology

Picture: Habitus of the Invisible Myriapod (Monitored by the Invisible Myriapodologist)
Design & Drawing by Jean-Jacques Geoffroy - Invisible scale bar : 500 µm

MYRIAPODA & ONYCHOPHORA

Foreword

The present bulletin, the very last volume hard copy to be published by the CIM, is the result of the work realized by the CIM Secretariat during 2013-2014, in collaboration with CIM helpers and colleagues who have kindly sent contributions, news, information and answered the questionnaire. Thank you very much to all of you for constructive help and useful contribution during these past years.

In April 2014, the CIM society comprises 157 members which shows a relative stable situation compared to 2008-2012 but no obvious increase or even a very slight decrease. After the international congress year 2011, 4 new members were registered in 2012-2014, [1 in 2013 and 3 in 2014] from Bulgaria, Russia and Serbia. Several candidates for membership are hoped for 2014-2015. In the mean time, 5 members have been removed from the list in 2012, 1 in 2013 and 4 in 2014 as a result of death, resignation or complete disappearance during at least four to six years.

98 people sent a reply to the questionnaire 2013/2014 or documentation and data, which shows an average and "normal" situation compared to most previous years. Some members answered by post, other via e-mail or directly from the webpage. We hope this reflects the activity of members of the society and we'll have to at least maintain - or improve - such a level of communication during the coming years. This will be a job for the new Council and Board, Secretary and Treasurer.

Besides the management of the Society through the Webpage, Secretariat and Treasury, and the development of the CIM as an international scientific Society, one of the main activities we had to manage during the period 2013-2014 was the organisation of the future of the society and the 16th International Congress of Myriapodology (16ICM), and of the General Assembly of our Society to be held in Cezch Republic (Olomouc) on July 25, 2014.

The President Greg Edgecombe and myself remind you that 2014 will be a most important year for the CIM Society and the myriapodological community. We have to prepare a vote for the renewal of the CIM Council for 2014-2017 and we need candidates to replace definitive departures from the council after the end of their mandates, according to statutes, constitution and by-laws. The present Council is listed in this Bulletin.

It will be now of major interest to consider the future of the CIM: Congresses, Council, succession for Secretary and Treasurer positions, webpage and bulletin or newsletter for the future period 2014-2017... and beyond!

N total since 1968 762	Ex-Members since 1968 605	**Members 2014 157**	**Active Members 138**	
The CIM in 2014				
		Benefactor Members 0	Moral Members 7	Honorary Members 12

How to become a member of the CIM

Anyone aiming to become a regular active member of the **Centre International de Myriapodologie / International Society for Myriapodology** has to simply send a request for candidature to the General-Secretary.
The new candidate is invited to send his request via a simple informative mail or e-mail.
The new candidate is invited to send his complete address, telephone, e-mail address, and the topics related to myriapodology in which he is involved. To this document is joined a short *curriculum vitae* including age, position and interests of the candidate.
The new candidate must be supported by one proposer (sponsor, godfather), regular member of CIM in good statement.
The candidature is registered by the General-Secretary and forwarded to the members of the Council. The candidate is accepted after quick evaluation by the Council.
The new member is informed and is therefore invited to send his subscription to the Treasurer.
The name and research activities of the member are listed in the CIM Directory and the member receives the CIM Bulletin and the CIM questionnaire, or whatever will be mailed after 2014-2015.

Informations on statutes and rules are available on
http://www.mnhn.fr/assoc/myriapoda/CIMSOC.HTM

Best wishes and regards

Jean-Jacques GEOFFROY General-Secretary of the CIM

Centre International de Myriapodologie — International Society for Myriapodology
Muséum National d'Histoire Naturelle, Département Systématique & Evolution
Section Arthropodes
CP n° 53 61, rue Buffon F-75231 Paris Cedex 05 (France)
http://www.mnhn.fr/assoc/myriapoda.INDEX.HTML moves to
http://www.myriapodology.org/

President's Words

Presidential Report (Rapport Moral) 2013-2014
by
Gregory D. Edgecombe, President of the CIM

2014 is shaping up to be a pivotal year in the history of the CIM. In July, we will meet at the 16th International Congress of Myriapodology in Olomouc, Czech Republic. In addition to our usual scientific agenda (presenting talks and posters and exchanging ideas) and enjoying the collegial atmosphere of our community, we have many important decisions to make about the future of the CIM. The input, advice and partnership of all CIM members is sought to help us make the CIM something we want to keep alive and thriving for years to come.

Olomouc is on course to be a well-attended Congress. At the time of writing (May 2014), 80 participants had registered, a very healthy figure. This level of interest demonstrates that myriapodologists still recognize the congresses as an important part of our scientific lives. Our hosts in the Czech Republic – Ivan Tuf, Karel Tajovsky and their team - have planned what promises to be a great meeting.

The General Assembly and Council Meeting on the last day of 16ICM will be forums for discussing new directions for the CIM. As I am sure you are aware, and as stressed by our Secretary, Jean-Jacques Geoffroy, in his reports in this Bulletin, our colleagues in Paris will shortly leave their posts at the MNHN and in the CIM secretariat. Accordingly, we as a group must decide on the roles of General-Secretary and Treasurer. The voluntary support of people like yourselves will be needed to fill vacancies in the day-to-day operations and broader strategic agenda of the CIM.

The CIM Council had a large turnover in 2011 and most of the Councillors appointed for 2011-2014 will be able to stand for reappointment for 2014-2017. I encourage my colleagues who have served on Council for the past three years to continue for a second term. One of our Councillors, Bob Mesibov, will complete his mandate and the role of Vice-President of the CIM will be vacated and we will need a new appointee in this role.

We all appreciate that a major raison d'être of the CIM is our Congresses. In all discussions that I have had with myriapodologists over the past three years about where the CIM should head, the continuation of our Congresses is the strongest point of concensus. Fortunately, at the 15th CIM in Brisbane, a few colleagues indicated their willingness to be considered as hosts for the 17th CIM in 2017. We hope to hear that these possible venues are still candidates at our General Assembly in July, and we ask that anyone keen to host the 18th CIM in 2020 come forward in Olomouc and offer a potential venue so we can start making plans. Though we have not formally stated that congresses will necessarily alternate between European and non-European venues, we have trended in this direction since the start of the millenium.

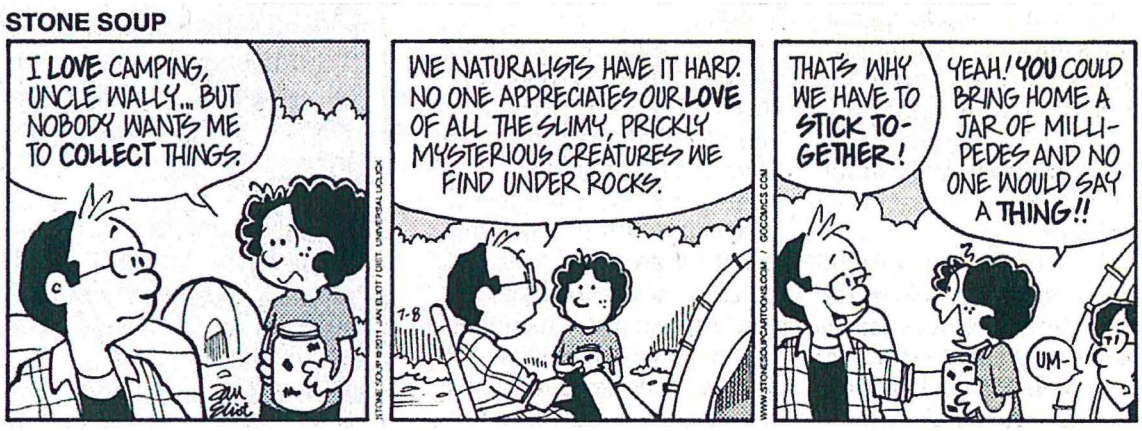
This Bulletin, the 47th in a distinguished series, is the last hard-copy volume to be produced in Paris. As many of our peer-reviewed journals have moved to an electronic-only format and as we become ever more familiar with absorbing science via E-prints rather than reprints, we can be optimistic that an electronic successor to the Bulletin will be met with a positive reception. Getting CIM news and our research profiles onto the web will allow a wider audience to access myriapodology and will facilitate more regular transmission of news.

The E-version of the Bulletin goes hand in hand with the our revamped CIM website (we expect information to be increasingly communicated via the website). I am delighted to report that our colleagues at the Senckenberg Museum für Naturkunde Görlitz have led in the development of a great-looking, informative website that will hopefully have gone live (and been announced to you on the Myriapod Yahoo server) before you read these words in hard copy. Willi Xylander has generously arranged for the Senckenberg to host our website, and Karin Voigtländer and Peter Decker have expertly orchestrated the content and design. Please road-test the new site (http://www.myriapodology.org/) at your convenience and give us feedback in Olomouc about what you'd like to see in Version 2.0 (and then, even better, join the team and prepare additional content for the site).

Lastly, I reiterate a message of my previous reports (as well as those of my predecessors). CIM would be unimaginable without the support of the Muséum National d'Histoire Naturelle (Paris) and the leadership of our colleagues there over the 46 years of our existence. Jean-Jacques and Monique have served the CIM most admirably as Secretary and Treasurer, respectively, over many years. Let's all extend our thanks for their efforts and prepare to roll up our sleeves and pick up where they will leave off. Vive le CIM !

Greg Edgecombe

Stone Soup



CIM Story: The Bulletin of the CIM 1968 - 2014

by

Jean-Jacques Geoffroy, CIM General-Secretary

Since the very beginning of the CIM history, a printed hard copy of our journal, *The Bulletin of the CIM*, has been published and mailed every year to members. The first issue was a very short list of works published in 1968 and the very last one (this one) is volume 47 for 2014.
As usual, it offers news, informations related to international congresses or research programmes, obituaries, topics, world directory of myriapodologists - including onychophorologists - and references of published papers.
The Bulletin has been successively edited by Jean-Marie Demange and Jean-Paul Mauriès, then, for more than a decade, by Jean-Jacques Geoffroy and Monique Nguyen Duy - Jacquemin (See below).
Throughout the past years and decades, the publishing concept and technology evolved, from a simple list of papers or members printed with roneo-stencil technology to a more and more enriched and detailed Bulletin edited electronically and printed first as xerox copies then by laser colour printer.

Volume	Year	Pages	Editor
01	1968	25	J.-M. Demange & J.-P. Mauriès
02	1969	25	J.-M. Demange & J.-P. Mauriès
03	1970	30	J.-M. Demange & J.-P. Mauriès
04	1971	41	J.-M. Demange & J.-P. Mauriès
05	1972	31	J.-M. Demange & J.-P. Mauriès
06	1973	48	J.-M. Demange & J.-P. Mauriès
07	1974	42	J.-M. Demange & J.-P. Mauriès
08	1975	47	J.-M. Demange & J.-P. Mauriès
09	1976	40	J.-M. Demange & J.-P. Mauriès
10	1977	36	J.-M. Demange & J.-P. Mauriès
11	1978	54	J.-M. Demange & J.-P. Mauriès
12	1979	47	J.-M. Demange & J.-P. Mauriès
13	1980	31	J.-M. Demange & J.-P. Mauriès
14	1981	47	J.-M. Demange & J.-P. Mauriès
15	1982	47	J.-M. Demange & J.-P. Mauriès
16	1983	41	J.-M. Demange & J.-P. Mauriès
17	1984	28	J.-M. Demange & J.-P. Mauriès
18	1985	47	J.-M. Demange & J.-P. Mauriès
19	1986	43	J.-M. Demange & J.-P. Mauriès
20	1987	44	J.-M. Demange & J.-P. Mauriès
21	1988	51	J.-M. Demange & J.-P. Mauriès
22	1989	34	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
23	1990	44	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
24	1991	59	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
25	1992	53	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
26	1993	53	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
27	1994	56	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
28	1995	46	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
29	1996	49	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
30	1997	50	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
31	1998	58	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
32	1999	60	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
33	2000	81	J.-M. Demange, J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin
34	2001	72	J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin & Demange J.-M.
35	2002	68	J.-J. Geoffroy, J.-P. Mauriès, M. Nguyen Duy - Jacquemin & Demange J.-M.
36	2003	68	J.-J. Geoffroy, J.-P. Mauriès & M. Nguyen Duy - Jacquemin
37	2004	64	J.-J. Geoffroy, J.-P. Mauriès & M. Nguyen Duy - Jacquemin
38	2005	70	J.-J. Geoffroy, M. Nguyen Duy - Jacquemin & J.-P. Mauriès
39	2006	74	J.-J. Geoffroy, M. Nguyen Duy - Jacquemin & J.-P. Mauriès

40	2007	63	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
41	2008	66	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
42	2009	59	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
43	2010	59	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
44	2011	52	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
45	2012	62	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
46	2013	54	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
47	2014	This volume	J.-J. Geoffroy & M. Nguyen Duy - Jacquemin
CIM Newsletter 01	2015	xx	The future editor of the CIM e-newsletter

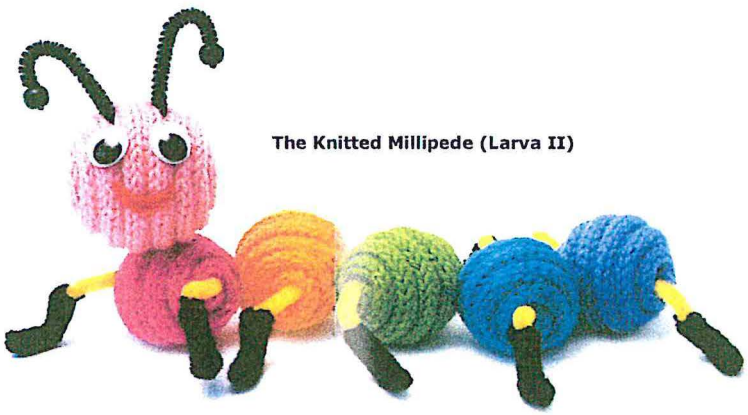
In July 2011, the 15th International Congress of Myriapodology (15ICM) occured at Brisbane, Australia. During the General Assembly and CIM Council and Board Meetings, it was stronly suggested and then decided to maintain the printed and mailed edition of the Bulletin until 2014, i.e. volumes 45-2012, 46-2013 and 47-2014. The edition of the hard copies of the Bulletin will stop at this moment, to be replaced by an electronic newsletter managed in cooperation with the new CIM-Website.
Jean-Jacques Geoffroy was invited to maintain the hard copy version (still very popular to many members) until 2014 while the new website was being remodelled and developed. Therefore, the present volume 47-2014 is the very last issue published by us this way, then an electronic version will be developed afterwards by a new editor of the *CIM Newsletter*, in close collaboration with the webmasters.

During the CIM Meeting and General Assembly, to be held on July 25th, 2014 in Olomouc, Czech Republic, we'll have to name someone as manager of the *CIM Newsletter*. This will be in part or at least strongly related to the management of the CIM Website, in direct collaboration with the future CIM Secretary.

I am deeply grateful to people who gave help and contributions to the making and mailing of the Bulletin during these 47 years: Marie Allinei, Esther Clément, Dominique Moro, Maria Prin, Josette Semblat, Dominique Fouquiau and the Studio-Agisson, to colleagues and friends who contributed with texts, documents, pictures and miscellaneous information, and specially to Michelle "Mimi" Hubert who gave generous help during the editorial work of the nine last issues of the CIM Bulletin.

Thank you very much to everybody and good luck to the *CIM-Newsletter*!

Jean-Jacques



Millipedus tricotinus n. sp. 2014

CIM Future: 2014-2015... and beyond!

by
Jean-Jacques Geoffroy, CIM General-Secretary

Information on the CIM functioning and comments about the present and future of the CIM will be given by Jean-Jacques Geoffroy, CIM Secretary, during the CIM General Assembly to be held on July 25th, 2014 at Olomouc, Czech Republic. The following report aims to summarize the present situation and proposals for the near future.

The CIM 1968-2014

Created in Paris in 1968, 46-47 years ago by J.-M. Demange, J.-P. Mauriès and O. Kraus, the CIM - Centre International de Myriapodologie - International Society for Myriapodology - unites myriapodologists worldwide. The secretariat of the CIM is presently located in the Muséum National d'Histoire Naturelle of Paris (France). Its mission is to inform myriapodologists and other zoologists and biologists of works which are in progress or published in all the fields of myriapodology ('Multipedes' Myriapoda & Onychophora), from macromolecules to ecosystems and landscape ecology.

The CIM receives from members either an annual subscription, or books and reprints destinated to set up a specialized library for myriapodology. This myriapodological library is maintained in the «Muséum National d'Histoire Naturelle, Paris» as a special documentation section.

Members of the CIM receive a yearly questionnaire asking people to provide a list of papers published during the year, as well as research work in progress or planned. It also asks for any informations of general interest to researchers whose work involves Myriapoda or Onychophora. A 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 the course of the year. The information is also available in the webpages of the CIM site, harboured at the MNHN, Paris:

http://www.mnhn.fr/assoc/myriapoda/INDEX.HTM

Apart from its wider role of providing information and promoting research and education on Myriapod and Onychophoran Biology, the CIM could help to better coordinate some projects such as publications, websites, meetings, taxonomical training, 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 (Copenhague, Denmark); 11) 1999 (Bialowieza, Poland); 12) 2002 (South Africa, Mtuzini); 13) 2005 (Bergen, Norway); 14) 2008 (Görlitz, Germany); 15) 2011 (Brisbane, Australia); 16) 2014 (Olomouc, Czech Republic); 17) 2017; 18) 2020....

Since 1999, the CIM has been formally constituted as an International Society with a Council, Board and statutes. Constitution and By-Laws have been adopted in 2002 during the 12th ICM at Mtuzini (South-Africa).

It is now time and of major interest to consider the future of our Society: Congresses, Council, Secretary and Treasurer positions, webpage and bulletin or newsletter for the future period 2014-2017, and beyond.

In 2014, we need to modify the Secretariat and Treasurer positions and enter a successful succession period. This may need to modify the structure of the CIM itself. Many important and decisive questions will be managed by the CIM Council during the next years.

The main point is to think about the evolution of the CIM Society after 2014. At this time (2014-2015) Jean-Jacques Geoffroy and Monique Nguyen Duy – Jacquemin will have to leave their positions at the Museum and the CIM will probably lose the support of the

institute. For this reason, we must think about a succession during the transitory period 2014-2015 in order to be ready in autumn 2015 at most.

The CIM Council and Board 2014-2017

The CIM Council and Board will be replaced in 2014 during the 16th ICM at Olomouc (Czech Republic).

The present Council 2011-2014 comprises 10 members:

Julian Bueno-Villegas (Mexico)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Greg Edgecombe (UK) [P]	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Robert Mesibov (Australia) [VP]	Elected 2005	reelected 2008	reelected 2011	NON reelligible 2014
Megan Short (Australia)	Elected 2008	reelected 2011	reelligible 2014	NON reelligible 2017
Stylianos Simaiakis (Greece)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Bruce Snyder (USA)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Pavel Stoev (Bulgaria)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Ivan Tuf (Czech Republic)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Karin Voigtländer (Germany)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020
Thomas Wesener (Germany)	Elected 2011	reelligible 2014	reelligible 2017	NON reelligible 2020

We need at least 1 new candidate for CIM Council seats in 2014 to replace Bob Mesibov and agreement from reeligible concillors to renew their candidature for a new mandate.

The Council and Board, elected for three years, are assisted by an appointed General-Secretary and an appointed Treasurer.

This is in accordance with the CIM rules as follows

ARTICLE II - OFFICERS (Edition 2007 of the CIM Constitution and By-Laws)

Section 1: 5 to 10 members shall be elected by a majority of the votes cast by members in good standing in a ballot at the General Assembly.

Section 2: The President serve for three years, or until his successor is elected, and can be re-elected twice; his three years duty period shall begin with the closure of one International Congresses of Myriapodology and cease with the closure of the next International Congress. The President may serve an extra period if necessary.

Section 3: The Council Members shall each serve for three years. Their duties shall begin with the closure of one International Congresses of Myriapodology and cease with the closure of the next International Congress. Council members can be re-elected for one or two times.

The CIM Secretariat

Since 1968, the CIM Secretariat is located at the MNHN Paris, France.

Since 1999, the position of Secretary has been assumed by Jean-Jacques Geoffroy, who worked together with four successive Presidents, Jean-Paul Mauriès, John Gordon Elkam Lewis, Michelle Hamer and Gregory D. Edgecombe.

The main current tasks to do as General-Secretary are to regularly manage and update the membership list and data, to prepare and mail the agenda and report of the General Assembly, to provide to members the annual CIM Questionnaire or whatever will replace it, and to register the answers in relation with the directory, the bibliographic database and the dissemination of the news. The Secretary is also supposed to answer to any kind of question sent to the Society.

Jean-Jacques Geoffroy will leave his position as active researcher at the Museum and retire in October 2015. He will no longer be able to maintain his position as CIM Secretary.

We need to find a new Secretary or Associate-Secretary from 2014 if possible, in order to organize a period of succession during 2014-2015.

Candidates to the position are invited to send proposals to the CIM Secretary and President as soon as possible and the point will be formally discussed during the CIM General-Assembly on July 25th, 2014 at Olomouc, Czech Republic. One candidate has provisionally stepped forward to offer their services in this role.

The CIM Treasury

Since 1968, the CIM Treasurer is located at the MNHN Paris, France.

Since 1999, the position of Treasurer has been carried out by Monique Nguyen Duy - Jacquemin, who worked together with the Secretary.

The Treasurer maintains the CIM bank account, receives and inscribes the subcriptions from members and publishes every year the annual financial balance, receipts and expenses.
Monique Nguyen Duy - Jacquemin will leave her position at the Museum in 2014-2015. She will no longer be able to maintain her position as CIM Treasurer at this moment so, accordingly a new Treasurer or Associate-Treasurer must be appointed (from 2014 if possible), in order to organize a transitory succession during 2014-2015, including the opening of another CIM account and different financial management. It is not possible at the moment to have credit card payments.
Paypal could be a possibility, to be studied in the near future with the new Treasurer.
Candidates to the position are invited to send proposals to the CIM Secretary and President as soon as possible and the point will be formally discussed during the CIM General-Assembly on July 25th, 2014 at Olomouc, Czech Republic. One candidate has generous stepped forward to offer their services in this role: Hans Reip confirmed his willingness to stand as our Treasurer.

The CIM Bulletin and Newsletter [See pages 5-6]
Since the very beginning a Bulletin of the CIM has been published every year. The first issue was a very short one in 1968 and the last one (this one) is the volume 47 (2014).
It has been successively edited by Jean-Marie Demange and Jean-Paul Mauriès, then, for more than a decade, by Jean-Jacques Geoffroy and Monique Nguyen Duy - Jacquemin.
It has been suggested in 2011 to have the CIM Bulletin made on line only or replaced by an electronic newsletter.
Jean-Jacques Geoffroy was invited to maintain the hard copy version until 2014 while the new website has been remodelled and developed. The present volume 47-2014 is therefore the very last issue published by us this way, then an electronic version only will be developed after by a new editor of the CIM Newsletter, in collaboration with the webmasters.

The CIM Website

History and location of the former website

The CIM Website was formally opened in December, 1999 and was regularly updated and improved until recent years. It comprises some 250 elements, including html pages, .gif or .jpg pictures, and downlable .rtf, .doc and .pdf documents. It was mainly developed using ©Adobe-Pagemill software on MacIntosh computer. The site is harboured on the MNHN server at Paris in a section devoted to scientific societies
http://www.mnhn.fr/assoc/myriapoda/INDEX.HTM

Aim and structure

The CIM website aims to present the objectives, activiries, history and strategy of the CIM International Society which are mainly stimulating and supporting
- RESEARCH on myriapod groups and onychophorans
- EDUCATION in myriapod and onychophoran biology
- CONSERVATION of myriapod and onychophoran biodiversity and habitats

Via its website, the CIM aims
- to promote scientific research in myriapodology
- to contribute to education and spreading of scientific knowledge related to centipedes, millipedes, pauropods, symphylans and onychophorans
- to contribute to conservation and management of soil and cave habitats and their myriapod biodiversity
- to describe and give interpretation to the most specific characteristics of myriapod biology, from the molecular to the ecosystemic or landcape level.

Actually, the website is first involved in the presentation of the CIM organization and life [members, meetings, publications, news, announcements...]. as a world wide portal allowing

and facilitating communication between scientists working in 'multipede biology' or naturalists interested by 'multipede life'.

Present and future state

For several years, due to technical problems related to the harbouring server and ftp transfert authorizations, and also due to evident lack of time by the CIM Secretary and Webmaster Jean-Jacques Geoffroy, the CIM website has remained in stand by, and most pages fell out of date.

For these reasons, it was recognized that the CIM website needed considerable updating as well as a total and new look using more recent and "modern" tools for webmastering and communication.

Jean-Jacques Geoffroy confirmed he would maintain the contents of the webpages until 2014 and then let it go to someone else hands. We were prepared to organise this.

A website subcommittee was set up in July 2011 during the 15ICM, Brisbane, Australia, comprising the following members:

Robert Mesibov
Bruce Snyder
Pavel Stoev
Ivan Tuf
Karin Voigtländer [Coordinator]

The CIM Website moved to a new domain, and webpages were constructed in order to open a new website and rescue the content of pages from the old one.

The Senckenberg Museum für naturkunde Görlitz generously made provisions for hosting the CIM webpage and the update is ready to go live immediately.

For any information about the CIM Society and CIM activities, please goto
http://www.myriapodology.org/

CIM Bibliodatabase

In parallel with the Bulletin, a biblio database has been maintained for decades by the CIM Secretariat and published as the annual list of works. The database is developed and enriched on the BiblioMacPC software, based on the runtime of 4D programme. In the future, this list will no longer be published in a hard copy bulletin. Already existing relationships with MyriaLit, maintained in Germany by Hans Reip, Peter Decker and collaborators, are in place, and provide the obvious solution. This path to an international myriapod bibliodata center will be examined carefully during the next CIM General Assembly in Olomouc in July.

Further International Congresses of Myriapodology

Although the CIM Secretariat has not receive at the moment any formal project or proposal for Congresses for 2017 and beyond, several proposals emerged, during the General Assembly 2011. They came from Thailand (Prof. Somsak Panha, presented by Henrik Enghoff), USA (Dr Bruce Snyder), Colombia (D. Martinez Torres & A. Flores) and Hungary (Dr Zoltán Korsós, who withdrew his previous proposal)…

There was a discussion to have the 17ICM outside Europe, following the pattern of alternating European and non-European Congresses established in recent times.

Recently, Prof. Florez-Daza and Dr. Martinez Torres withdrew their former proposal to go to Colombia.

A proposal from Prof. Panha to harbour the 17ICM in Thailand is still on the table and will be examined during the next CIM General Assembly in Olomouc in July.

Executive Committee, Council and Board 2011-2014

10 members of the **CIM Council** have been elected for 2011-2014 by the General Assembly 2011 at Brisbane, Australia
The **General-Secretary** and the **General Treasurer** have been appointed for 2011-2014 at Brisbane, Australia

These are the 12 members of the **Executive Committee**
The **President** and **Vice-President** are elected by the Executive Committee
President, Vice-President, Secretary and Treasurer are members of the **Board**

elected President: Greg Edgecombe
Department of Palaeontology
The Natural History Museum
Cromwell Road LONDON SW7 5BD
UK
g.edgecombe@nhm.ac.uk

elected Vice-President: Robert Mesibov
Queen Victoria Museum and Art Gallery
School of Zoology, University of Tasmania
PO Box 101, PENGUIN, Tasmania, 7316
Australia
mesibov@southcom.com.au

appointed Secretary:
Jean-Jacques Geoffroy
Muséum National d'Histoire Naturelle
Département Ecologie et Gestion de la Biodiversité
UMR7204 CESCO CNRS-MNHN-UPMC
4 avenue du Petit Château F-91800 BRUNOY
France
geoffroy@mnhn.fr

appointed Treasurer:
Monique Nguyen Duy - Jacquemin
Muséum National d'Histoire Naturelle
Département Systématique & Evolution
Section Arthropodes
61 rue Buffon F-75231 PARIS Cedex 05
France
monguyen@mnhn.fr

elected Concillors

Julian Bueno-Villegas
Laboratorio de Sistemática Animal
Centro de Investigaciones Biológicas
Universidad Autónoma del Estado de Hidalgo
A.P. 69-1 Pachuca de Soto 42001 HIDALGO
Mexico
milpatas@gmail.com milpatas@yahoo.com.mx

Megan Short
Deakin University School of Life and Environmental Sciences
221 Burwood Hwy
BURWOOD Victoria, 3125
Australia
mshort@deakin.edu.au

Stylianos Simaiakis
Natural History Museum of Crete
University of Crete
Knossos Av. PoBox 2208 GR-71409 IRAKLEIO Crete
Greece
bio475@edu.biology.uoc.gr simaiakis@biology.uoc.gr

Bruce A. Snyder
Division of Biology
Kansas State University
116 Ackert Hall MANHATTAN KS 66506-4901
USA
bruceasnyder@gmail.com

Pavel Stoev
National Museum of Natural History
Blvd. Tzar Osvoboditel 1
1000 SOFIA
Bulgaria
pavel.e.stoev@gmail.com

Ivan H. Tuf
Palacky University, Faculty of Science
Department of Ecology & Environmental Science
Svobody 26 77200 OLOMOUC
Czech Republic
ivan.tuf@upol.cz

Karin Voigtländer
Senckenberg Museum für Naturkunde Görlitz
Postfach 300 154
D-02806 GÖRLITZ
Germany
Karin.Voigtlaender@senckenberg.de

Thomas Wesener
Forschungsmuseum Koenig
Adenauerallee 160, D-53113 BONN
Germany
twesener@uni-bonn.de

A new executive committee will be elected in 2014 during the 16th ICM at Olomouc (Czech Republic) by the General Assembly for 2014-2017, according to CIM rules and statutes.
This should be the time to deeply remodel the CIM Society, look for a succession for Secretary and Treasurer, Webmaster and Editor of the Bulletin or Newsletter.
CIM members being volunteer to serve as one of these actors are invited to send a proposal to the CIM Secretary, President or Board.

Centre International de Myriapodologie [CIM]
International Society for Myriapodology
General Assembly Friday 25 July 2014 Olomouc [Czech Republic]: Call & Agenda

Members of the CIM are formally invited to contribute to the General Assembly to be held at Olomouc (Czech Republic) on Friday July 25, 2014 during the 16th International Congress of Myriapodology, in accordance with the following agenda.

To be valid, the General Assembly must comprise a minimum of 20 active members in good standing. People unable to join the General Assembly can be formally represented by an active member providing a written power during the meeting.

1 — Opening / Words and moral report by the President Greg Edgecombe
The general assembly votes on this report.
2 — Introduction and activity report by the General-Secretary J.-J. Geoffroy
This does not need any vote. The Secretary gives comment about the present and future of the CIM.
3 — Renewal of the Council
This is one of the main points of the meeting.
The present Council 2008-2011 comprises 10 members

Julian Bueno-Villegas (Mexico)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Greg Edgecombe (UK) P	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Robert Mesibov (Australia) VP	elected2005	reelected2008	reelected2011	NONreelligible 2014
Megan Short (Australia)	elected2008	reelected2011	reelligible2014	NONreelligible 2017
Stylianos Simaiakis (Greece)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Bruce A. Snyder (USA)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Pavel Stoev (Bulgaria)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Ivan H. Tuf (Czech Republic)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Karin Voigtländer (Germany)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020
Thomas Wesener (Germany)	elected2011	reelligible2014	reelligible2017	NONreelligible 2020

ARTICLE II - OFFICERS (edition 2007 of the CIM Constitution and By-Laws)
Section 1: 5 to 10 Council Members shall be elected by a majority of the votes cast by members in good standing in a ballot at the General Assembly.
Section 2: The President serve for three years, or until his successor is elected, and can be re-elected twice; his three-years duty period shall begin with the closure of one International Congress of Myriapodology and cease with the closure of the next International Congress. The President may serve an extra period if necessary.
Section 3: The Council Members shall each serve for three years. Their duties shall begin with the closure of one International Congress of Myriapodology and cease with the closure of the next International Congress. Council Members can be re-elected for one or two times.

4 — Financial Report by the Treasurer and amount of the annual subscription
The general assembly votes on this report.
5 — Recent active members and new candidates for membership
Presentation by the Secreatry and agreement by the General Assembly.
6 — Future Secretariat, Treasurer, Newsletter, Website and Bibliographic Center
The President and the Secretary give information about these points and an open discussion is followed by formal decisions concerning a new Secretary, a new treasurer, the editor of the electronic newsletter, the manager of the website, and the coordinator of the documentation and bibliographic center.
7 — 17th International Congress of Myriapodology, 2017
Any proposal for the 17th ICM in 2017 will be formally discussed.
8 — Further International Congresses of Myriapodology
Proposals and comments for 2020, 2023...
9 — Miscellaneous questions
Comments by the General Assembly.
10 — Closure of the General Assembly by the President Greg Edgecombe
The General Assembly ends and the President asks members of the new Council to meet immediately.

MEETING OF THE CIM COUNCIL 2014-2017
Appointment of the General-Secretary and Associate-Secretary 2014-2017.
Appointment of the Treasurer and Associate-Treasurer 2014-2017.
Election of the President 2014-2017. and election of the Vice-President: 2014-2017.
Organisation of the Society in the very near future

DUES / SUBSCRIPTIONS / FEES

SUBSCRIPTIONS SHOULD BE MADE PAYABLE TO THE ORDER OF
CENTRE INTERNATIONAL DE MYRIAPODOLOGIE
CCP PARIS 00 706 63 N 020

Annual subscription 2014: 30 Euros —Bank charges in addition

Payment to be made in one of these ways:

—Direct bank payment, including additional bank fees by the sender and informing the Treasurer at the same time

—International post order payable to Centre International de Myriapodologie

—Cheque in Euros drawn on a bank in Paris, made payable to Centre International de Myriapodologie

— Direct cash payment in Euros [We strongly recommend this very convenient way!!]

We are sorry to remind you that payment by Credit Card is not possible !!!

Active Membership is open to everyone who applies offcially, who pays the prescribed fees, and who is willing to abide by and uphold the Constitution and By-Laws of the Centre International de Myriapodologie. People who, by virtue of low income or residence in a country which experiences severe exchange problems, may be exempted from fees until the problem is solved.

Name and adress of the Bank:
LA BANQUE POSTALE – CENTRE FINANCIER DE PARIS
Centre Financier 75900 Paris cedex 15 (France)

RIB – ACCOUNT IDENTIFICATION

ETABL.	GUICHET	N0 DE COMPTE	CLE RIB
2004	00001	0070663N020	36

IBAN number – INTERNATIONAL ACCOUNT IDENTIFICATION:
FR 65 20041 00001 0070663N020 36

BIC number – INTERNATIONAL BANK IDENTIFICATION:
PSSTFRPPPAR

International Money orders and cheques must be sent to:
Centre International de Myriapodologie
Muséum National d'Histoire Naturelle, Département Systématique & Evolution,
Section Zoologie-Arthropodes - Case Postale n°53 61 rue Buffon, 76231 Paris cedex 05, France.

You will be charged for any kind of bank fees, please ask information to your bank.
To reduce your own bank charges, you are invited to send your contribution for several years at once.
The registration will be automatically adapted to your situation.

A receipt for payments will only be sent on request.
Thank you very much for your cooperation. Yours faithfully,

Monique NGUYEN DUY - JACQUEMIN, Treasurer

BILAN FINANCIER 01-01-2013 — 31-12-2013
FINANCIAL BALANCE 01-01-2013 — 31-12-2013

SOLDE au 01-01-2013 ..... **4754.88 E**
BALANCE at *01-01-2013*

RECETTES / *RECEIPTS* :

- Cotisations des membres perçues en 2013 ..... 1579.10 E
- *Subscriptions of members registered in 2013*

- Vente de documents .... 50.00 E
- *Documentation selling*

- Intérêt sur livret d'épargne..... 68.32 E
- *Interest on savings account*

TOTAL des RECETTES ..... **1697.42 E**
TOTAL RECEIPTS

DEPENSES / *EXPENSES* :

- Coût d'édition du bulletin n° 45 (juillet 2013) ..... 647.04 E
- *Cost of Bulletin n° 45 - Publisher (July 2013)*

- Envois postaux 2013 { bulletin *bulletin*
- *Postal costs 2013* { questionnaire *questionnaire*
{correspondance *correspondence* ..... 841.10 E

- Matériel informatique {imprimante et autres periphériques..... 958.66 E
- *Informatic equipment* {printer and other peripherals

- Frais de fonctionnement ..... 21.80 E
- *Running costs*

TOTAL des DEPENSES ..... **2468.60 E**
TOTAL EXPENSES

SOLDE au 31-12-2013 ..... **3983.70 E**
BALANCE *at 31-12-2013*

The balance at 31.12.2013 will be used for current expenses in 2014. A part of expenses are current management, the publication of the bulletin and the postal costs for both questionnaire and bulletin. The maintenance of different current expenses will be assumed during the transition year 2014-2015.
To maintain the CIM active and viable, what we need is the regular subscription from most of the members but also the admittance of new people in active membership. This will be the task for the future CIM Council, Board, Secretary and Treasurer.
We still hope in receiving financial support from Benefactor Members, but maybe this is still a dream.
Thank you very much to faithful contributors.

Yours sincerely,

Monique Nguyen Duy - Jacquemin, Jean-Jacques Geoffroy

16th International Congress of Myriapodology Olomouc, Czech Republic, 20–25 July 2014

A few months after the distribution of this Bulletin, the 16th International Congress of Myriapodology will take place at Olomouc, in the Czech Republic. As our hosts at Palacký University, the venue for the Congress, remind us in the announcement below, the return of the ICM to Europe should facilitate travel for many myriapodologists who were unable to join us at our previous Congress in Australia. We look forward to seeing old friends and strongly encourage new investigators to join the fold. In addition to being a forum for presenting and learning about the latest research on myriapods and onychophorans, the Congress will give CIM members an important opportunity to help shape the future of the CIM. The team in Olomouc and I look forward to seeing you there.

Greg Edgecombe, President of the CIM

The 16th International Congress of Myriapodology (16ICM) will be held in the main building of the Faculty of Science (street 17.listopadu 12), Palacký University, Olomouc, the Czech Republic from **Sunday, 20 July to Friday, 25 July 2014.**
On behalf of the organising committee and the Centre International de Myriapodologie, we invite you to participate in this scientific conference devoted traditionally to centipedes, millipedes, velvet worms, pauropods and symphylans.

After a nice, smaller but all the more friendly conference in Brisbane, Australia, we will move from the Southern Hemisphere back to Europe. Already during the first historic Congress at Paris in 1968, there was a resolution that the second ICM would be held in 1971 at Brno, in the former Czechoslovakia. Because of the unfavourable political changes during that time this decision was ultimately cancelled. Now, after 43 years we have an opportunity to invite all CIM members and their friends to Olomouc, the Czech Republic to the 16th International Congress of Myriapodology. Due to lower prices and the economic situation in the Czech Republic we can offer reduced costs associated with accommodation, boarding and domestic transport. We hope these circumstances as well as a position in the heart of Europe will encourage the participation of our colleagues not only from neighbouring European countries but also from other parts of the world.

For organisation of 16ICM we have at our disposal the facilities of the Palacký University campus at the street 17.listopadu 12, Olomouc (49°35'32.21"N, 17°15'50.05"E), with a new congress hall and other supporting resources. Together with university student hostels, the city of Olomouc possesses a wide range of diverse pensions and hotels. The natural and cultural beauty of Olomouc (http://www.olomouc-tourism.cz/) as well as its nearby surroundings provide a lot of splendid possibilities to organise the social and cultural programmes of this congress.

The 16ICM will be held from Monday, 21 July to Friday, 25 July 2014. As is traditional, a social get-together late on Sunday, 20 July will take place in the same main building that houses the congress hall where the scientific part of the congress will be held. As usual, four days of single-session meetings will begin on Monday morning, interrupted by a full-day tour on Wednesday, 23 July. The tour is planned for natural and cultural attractions of the Olomouc district. The programme for accompanying persons is also under preparation. The CIM General Assembly will take place on Friday, 25 July and will be followed by a Farewell Dinner.

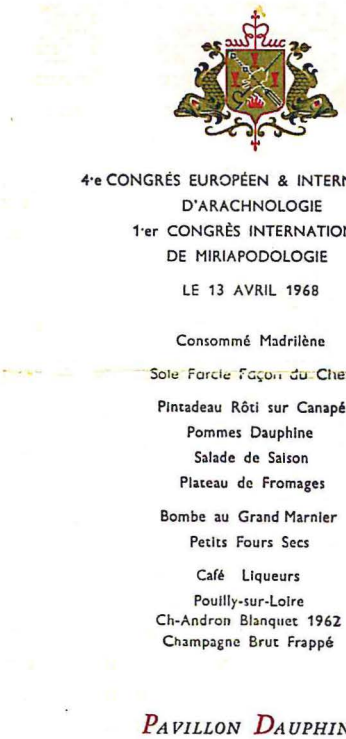
All current information is available at the website http://myriapoda.upol.cz
Information about the scientific and social parts of the congress as well as other supporting details about registration, accommodation possibilities, prices, and transportation are on the website and are regularly being updated.

Organising committee:
Ivan H **Tuf,** Karel **Tajovský** & Blanka **Krausová**
(ivan.tuf@upol.cz, tajov@upb.cas.cz, blanka.krausova@upol.cz)

First International Congress of Myriapodology, Paris (France), April 1968

The first International Congress of Myriapodology took place in Paris (France) in April 1968, together with the 4th European and International Congress of Arachnology.

Below (left) is the menu of the farewell final dinner of the Congress, 13.IV.1968, preserved by Stefan Negrea.
On the verso of the menu (right), you may recognize signatures by some myriapodologists who contributed to this event, such as J. Gordon Blower, Neil B. Causey, Trian Ceuca, Jean-Marie Demange, Wolfgang Dohle, Colin P. Fairhurst, Ulrich Haaker, Zachiu Matic, Jean-Paul Mauriès, Stefan Negrea, etc...



4·e CONGRÈS EUROPÉEN & INTERNATIONAL
D'ARACHNOLOGIE
1·er CONGRÈS INTERNATIONAL
DE MIRIAPODOLOGIE

LE 13 AVRIL 1968

Consommé Madrilène

Sole Farcie Façon du Chef

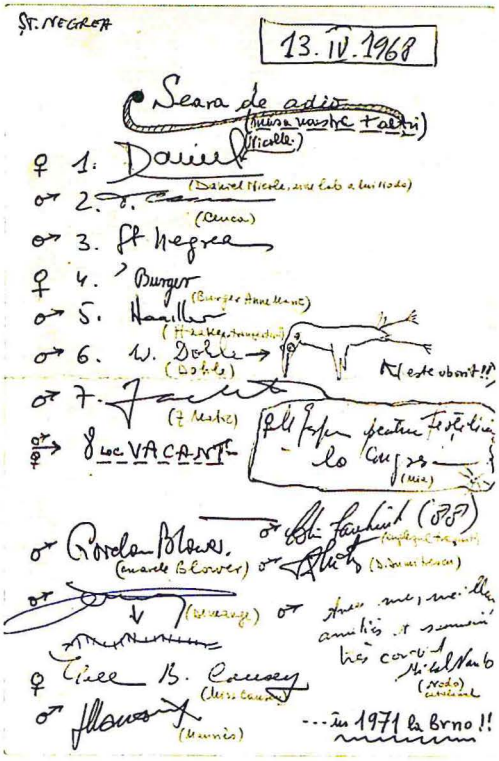
Pintadeau Rôti sur Canapé
Pommes Dauphine
Salade de Saison
Plateau de Fromages

Bombe au Grand Marnier
Petits Fours Secs

Café Liqueurs

Pouilly-sur-Loire
Ch-Andron Blanquet 1962
Champagne Brut Frappé

PAVILLON DAUPHINE



If you pay attention to the right corner of the verso, you may see that the venue of the Second International Congress of Myriapodology was planned in Brno (former Czechoslovakia).

Actually, things changed and Brno 1971 was replaced by Manchester 1972, thanks to Gordon Blower.

Some few days after the 1st ICM, Paris entered the "May 1968" events : any relationships? Can you imagine a formal session between two barricades in the Quartier Latin?

Anyway, and whatever the cause, we are going to Olomouc (close to Brno) in 2014. History likes to repeat.

Some Myriapod Songs for children, adults, and other people

The song *The Wee Kirkcudbright Centipede* has been performed during the Farewell Dinner closing the 4th International Congress of Myriapodology on September 1978, Gargnano (Italy), by our late colleague Colin P. Fairhurst and Mrs Fairhust. Published in CIM Bulletin n° 13-1980.
The song "*Le Jule et la Scutigère*" has been performed during the Welcome Party opening the 9th International Congress of Myriapodology on July 1993, Paris (France), by Jean-Jacques Geoffroy, author of the lyrics (Music after Georges Brassens' Oncle Archibald). Published in CIM Bulletin n° 27-1994.

Le Mille-Pattes **Henri Dès**

Que c'est dur dit madam' Mill'Patt's
D'apprendre à marcher à ses enfants
Les premiers pas d'un bébé Mill'Patt's
C'est tout un problèm' et ça prend du temps.

Chorus
Patte en l'air et patte en bas
Et patte et patte et patatras
Patte en l'air et patte en bas
Patte et patte et patte et patte et patatras

Quand il faut leur mettr' leurs souliers,
Il y en a cinq cents pair' pour chacun,
Quand on pense qu'il faut les lacer,
On attrape des crampes dans les mains

Patte en l'air et patte en bas
Et patte et patte et patatras
Patte en l'air et patte en bas
Patte et patte et patte et patte et patatras

Quand arrivent les sports d'hiver
Monsieur Mill'Patt's met les skis aux pieds
Mais quand par hasard il tomb' par terre
Il lui faut trois jours pour s'désembrouiller

Patte en l'air et patte en bas
Et patte et patte et patatras
Patte en l'air et patte en bas
Patte et patte et patte et patte et patatras

Monsieur Mill'Patt's avec sa femme
Tous les sam'dis soirs s'en vont danser
Mais pour les danseurs c'est tout un drame
Ils se marchent tout le temps sur les pieds

Patte en l'air et patte en bas
- "Pardon, Madam', cell' là est à moi !"
Patte en l'air et patte en bas
Patte et patte et patte et patte et patatras.
Patte en l'air et patte en bas
Et patte et patte et patatras
Patte en l'air et patte en bas
Patte et patte et patte et patte et patatras

http://doumdoumdoum.free.fr/index.php?page=chant&id=50
http://www.youtube.com/watch?v=bPFlr8y5fS0
http://www.greatsong.net/PAROLES-HENRI-DES,LE-MILLE-PATTES,101994403.html
http://www.henrides.net/

Un mille pattes **Henri Dès**

Sur cent pattes
Un mille pattes
Lui en manquera beaucoup
Sur cent pattes
Un mille pattes
Lui en manquera

Sur dix pattes
Un mille pattes
Lui en manquera beaucoup
Sur dix pattes
Un mille pattes
Lui en manquera

Sur une patte
Un mille pattes
Lui en manquera beaucoup
Sur une patte
Un mille pattes
Boite boitera

Sans ses pattes
Un mille pattes
Lui en manquera beaucoup
Sans ses pattes
Un mille pattes
Ne marchera pas

mais...

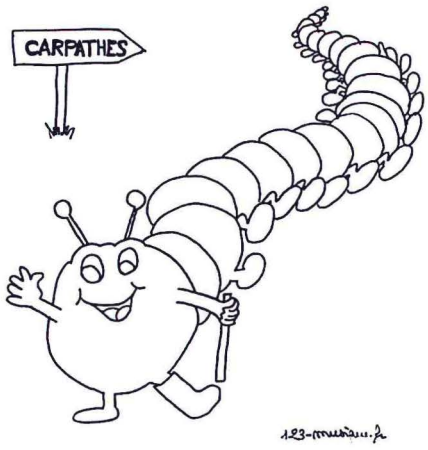
Sur mille pattes
Un mille pattes
Ne lui en manquera pas
Sur mille pattes
Un mille pattes
Marche marchera

http://comptines.tv/un_mille_pattes
http://www.chansons-net.com/index.php?param1=Tine-01/E1062.php
http://www.henrides.net/
http://www.partitionsdechansons.com/pdf/1203/Henri-Des-Le-mille-pattes.html

Le mille pattes **Francis Lemarque/Rudi Revil**

1
Savez-vous ce qui fait une fois tic,
Et neuf cent quatre vingt dix neuf fois tac ?
C'est un p'tit animal sympathique,
Un mille-pattes qu'a une patte dans le plâtre.
2
Ce mille-pattes au fin fond des Carpathes,
Trouva le vieil hibou homéopathe,
Qui lui fit avaler trois patates,
Afin de lui guérir sa p'tite patte.
3
Quand il eut avalé les patates,
Il devint aussi rond qu'une tomate,
Son nombril lui tombant sur ses pattes,
L'empêcha de r'gagner ses pénates.
4
Mon ami lui dit l'homéopathe,
Quand on boite on ne fait pas l'acrobate,
Prenez donc une place en carosse,
Vous paierez avec un morceau d'os.
5
Tout content il a prit l'autobus,
C'était le petit autobus des puces,
Un basset tout fringuant sur ses pattes,
A ram'né le mille-pattes à quat' pattes.

http://www.helene-bohy.com/cd/paroles.php?cd=17&id=320
http://www.123-musique.fr/musicdocs/71/22/Le-mille-pattes
http://www.musicme.com/#/Francis-Lemarque/titres/Le-Mille-Pattes-t542903.html?ipg=2
http://www.10bauches.com/Le-mille-pattes_a899.html



C'est nous les mille-pattes **François Corbier**

Chorus
Une patte, deux pattes, c'est nous les mille-pattes
Trois pattes, quatre pattes, rien ne nous épate
Cinq pattes, six pattes, si on perd nos pattes
Sept pattes, huit pattes on aura l'air de nouilles

Un mille-pattes m'a dit "bonjour"
Ti loulalou, ti loulalou, ti loulila
Mille fois j'ai serré mille pieds
Ti loulalou, ti loulalou, ti loulila
Après qu'on s'eut dit "bonjour"
Ti loulalou, ti loulalou, ti loulila
Mes mains avaient mal aux pieds
Ti loulalou, ti loulalou, ti loulila
ti doo la ti doo la ti doo doo la
Moi je connais les mille-pattes,
Je sais qu'ils sont comme nous,
Ils se nourrissent de pâtes,
Et chantent bras-dessus dessous
Dessus dessous, dessus dessus dessous

Chorus
Une patte, deux pattes, c'est nous les mille-pattes
Trois pattes, quatre pattes, rien ne nous épate
Cinq pattes, six pattes, si on perd nos pattes
Sept pattes, huit pattes on aura l'air de nouilles

À la saison des amours
Ti loulalou, ti loulalou, ti loulila
Les mille-pattes se font du pied
Ti loulalou, ti loulalou, ti loulila
Après la saison d'amour
Ti loulalou, ti loulalou, ti loulila
Les mille-pattes se font plâtrer
Ti loulalou, ti loulalou, ti loulila
ti doo la ti doo la ti doo doo la
À part ça, les mille-pattes,
Vivent comme vous et nous,
Ils habitent les Carpates,
Et chantent bras-dessus dessous
Dessus dessous, dessus dessus dessous

Chorus
Une patte, deux pattes, c'est nous les mille-pattes
Trois pattes, quatre pattes, rien ne nous épate
Cinq pattes, six pattes, si on perd nos pattes
Sept pattes, huit pattes on aura l'air de nouilles

http://www.bide-et-musique.com/song/1105.html
http://www.youtube.com/watch?v=IYamfimKYuM
http://www.francoiscorbier.com/spip/1984-Nous-les-milles-pattes

Le Papa Mille-Pattes **Chantal Goya**

Dans cette nuit noire et glacée dessous la terre
Entre les racine et les trous, les vers de terre
On ne sait ce qui peut arriver par derrière
On a très peur, on coudrait revoir la lumière
On tremble, on rit, on ne sait plus ce qu'il faut faire
Quand surgit un "insecte" extraordinaire

[**Chorus**] (2X) :
C'est le papa mille pattes
C'est le papa mille pattes
Il avance, il recule
De gauche à droite, il déambule
C'est le papa mille pattes
C'est le papa mille pattes
Qui fait peur aux parents
Mais qui fait bien rire les enfants

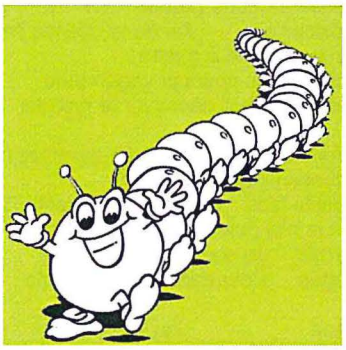
Jamais je n'ai vu une bête aussi terrible
Danser l'tango, se déhancher comme une chenille
C'est effrayant de voir ses pattes et ses chevilles
En habit noir avec sa canne comme il s'habille
Si près de moi, en chapeau claque comme décadence
Après l'break danse, voilà qu'on danse le même pas de danse

[**Chorus**]

[instrumental]

[**Chorus**] (3X)

http://www.jukebox.fr/chantal-goya/clip,le-papa-mille-pattes,5m5mx.html



Comptine du Mille-pattes

Slowly
Toc toc toc qui frappe à ma porte
C'est le mille-pattes qui veut passer
Toc toc toc qui frappe à ma porte
C'est le mille-pattes qui est pressé
Toc toc toc qui frappe à ma porte
C'est le mille-pattes sur le palier
Qui veut cirer ses mille souliers
Pour s'en aller au bal dans les prés

Faster
Toc toc toc qui frappe à ma porte
C'est le mille-pattes qui veut passer
Toc toc toc qui frappe à ma porte
C'est le mille-pattes qui est pressé
Toc toc toc qui frappe à ma porte
C'est le mille-pattes sur le palier
Qui veut cirer ses mille souliers
Pour s'en aller au bal dans les prés

Very fast
Toc toc toc qui frappe à ma porte
C'est le mille-pattes qui veut passer
Toc toc toc qui frappe à ma porte
C'est le mille-pattes qui est pressé
Toc toc toc qui frappe à ma porte
C'est le mille-pattes sur le palier
Qui veut cirer ses mille souliers
Pour s'en aller au bal dans les prés

http://www.youtube.com/watch?v=q4xnnOoue1s

Comptine pour enfants

Si le mille pattes
N'avait que deux pattes
Ça le gênerait pour bien marcher
A 4 pattes nous savons marcher
Mais le mille pattes
Ne peut pas y arriver

http://www.cantata-web.fr/2009/11/03/le-mille-pattes-2/

Le pauvre petit Mille-Pattes

Pauvre petit mille-pattes
Il boite boite boite
C'est en jouant aux billes
Qu'il s'est cassé la cheville
Heureusement dans sa famille
Dit sa maman on en a mille

Pauvre petit mille-pattes
Il boite boite boite
C'est en faisant le fou
Qu'il s'est cassé le genou
Heureusement dans sa famille
Dit sa maman on en a mille

Pauvre petit mille-pattes
Il boite boite boite
C'est en sautant d'une branche
Qu'il s'est cassé la hanche
Heureusement dans sa famille
Dit sa maman on en a mille

Pauvre petit mille-pattes
Il boite boite boite
On murmure tout bas
Qu'il s'est cassé le bras
Heureusement dans sa famille
Dit sa maman on n'en a pas

www.webinstit.net/**chansons**/1000**pattes**.PDF

Le millepattes **Pierrig Le Dréau**

Chorus
Un, deux trois, avance ton pied,
Lequel ? le droit c'est pas compliqué,
Quatre, cinq, six attention tu glisses,
C'est trop tard alors on repart,

Un millepattes qui aurait souhaité
Apprendre à danser, apprendre à danser
Un beau jour s'en vint trouver,
Zaza l'araignée, Zaza l'araignée.
Chorus
Bon, je vais, je vais recommencer,
Dit-il agacé, dit-il agacé,...
Car deux pattes ou bien un millier
Qu'est-ce que ça peut changer, qu'est-ce que ça peut changer,
Chorus
Ce sont les jambes, les jambes du milieu,
Qui coincent un peu, qui coincent un peu,
Celles de derrière ne sont pas bien mieux,
Je me repose un peu, Je me repose un peu.
Chorus
Le millepattes qui aurait souhaité
Apprendre à danser, apprendre à danser
Arrive au soir, au soir épuisé,
Les pattes emmêlées, les pattes emmêlées.
Chorus
J'te supplie, supplie d'arrêter
Zaza l'araignée, Zaza l'araignée,
On pourra encore essayer, avant le grand bal,
Le grand bal de l'été.
Chorus

http://www.babybidou.com/__V3/fr/boutique/music-store-enfant/albums/pierrig-le-dreau-et-slawek-contes-chantes-pour-enfants-vol-3/le-millepattes

Le Mille-pattes unijambiste **Paul Villaz**

En ce bas monde quoi de plus triste
Qu'un mille-pattes unijambiste
Qui un matin d'Assomption
Eut obtenu sa guérison
Et prenant sa canne et sa gourde
Et cinq cents paires d'espadrilles
S'en fut allé suspendre à Lourdes
Neuf cent quatre vingt dix-neuf béquilles

http://andrelabeur.blog.lemonde.fr/files/2012/05/Le-mille-pattes.mp3

Aux mille-pattes **Jacky Lagger**

Aux mille-pattes Je cours je vagabonde
Aux mille-pattes Pour découvrir le monde

Où va ce chemin ? Où va ce chemin ?
Va-t-il aussi loin que mes rêves ?
J'apprends en chemin J'apprends en chemin
De tous ces chemins qui m'élèvent
Aux mille-pattes Je cours je vagabonde
Aux mille-pattes Pour découvrir le monde

Je croise sur la route Je croise sur la route
Un camion et sa remorque
Il n'y a pas de doute Il n'y a pas de doute
J'conduis des camions sur les routes
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Aux mille-pattes Je cours je vagabonde
Aux mille-pattes Pour découvrir le monde

Je cours dans les prés Je cours dans les prés
Après les trèfles à quatre pattes
J'ai de la chance j'ai J'ai de la chance j'ai
Une coccinelle un trèfle à quatre
Aux mille-pattes Je cours je vagabonde
Aux mille-pattes Pour découvrir le monde

Je saute dans les flaques Je saute dans les flaques
Je vais les chemins qui m'amusent
J'aime ces petits lacs J'aime ces petits lacs
J'éclabousse je n'ai pas d'excuse
Aux mille-pattes Je cours je vagabonde
Aux mille-pattes Pour découvrir le monde

J'ai levé le nez J'ai levé le nez
Au soleil un oiseau se lève
Comme lui je volerai Comme lui je volerai
Parce que j'aurai des ailes en l'air
Mille-Pattes.....

http://www.jacky-lagger.com/songs/01%20Piste%201.mp3

Centipede Sisters **Dolores O'Riordan**

The centipede sisters,
The centipede sisters,
Let's watch them interact,
As opposites attracts !

Liz stands up, Zil sits down
Liz might smile, Zil might frown
Liz says black, Zil says white
Liz says day, Zil says night

The centipede sisters,
The centipede sisters,
Let's watch them interact,
As opposites attracts !

The centipede sisters,
The centipede sisters,
The story just begins
With the centipede twins !

Liz jumps high, Zil jumps low
Liz walks fast, Zil walks slow

Round and round and round and round
They're spinning round and round and round
They're spinning round and round and round
Fall down !

The centipede sisters,
The centipede sisters,
Let's watch them interact,
As opposites attracts !

The centipede sisters,
The centipede sisters,
The story just begins
With the centipede twins !

Opposite attracs,opposite attracs,
Watch us interact.
Opposite attracs,opposite attracs,
Watch us interact

The centipede sisters,
The centipede sisters,
Let's watch them interact,
As opposites attracts !

The centipede sisters,
The centipede sisters,
The story just begins
With the centipede twins !

The centipede twins
The centipede twins
The centipede twins
The centipede twins

http://lyrics.jetmute.com/viewlyrics.php?id=1915277
http://www.youtube.com/watch?v=x6sWOuccGYA

Millipede Song

I am the Millipede I am amazing
I command you to gaze upon my face
You'll never find someone charming as I am
I'm the swankiest bug out in space

I'm a star I'm a god
I'm a thing to behold
There are none as resplendent as I
With my sleek little legs
and my three hundred eggs
of my majesty none can deny

Because I am the millipede
I am mysterious
When I vanish I never leave a trace

You will not find a bug with such illusions
I'm a creature of fathomless grace

I am the millipede
I am the champion
no one else in the universe keeps pace
You'll never find someone quite so enchanting
While I'm here there's just no second place
I'm a idol a King
I'm an object of awe
There is none quite so gleaming as I
I've got glamour to spare
You are right when you stare
I'm the who, what, when, where, and the why

I am the millipede I am astounding
wisdom flows from my personage
like lace
You'll never find some darling as I am
I'm the swankiest
Tutelary pest
Certainly best dressed
Bug out in space!

http://www.lyricskid.net/lyrics/charlie-the-unicorn-lyrics/millipede-song-lyrics.html
http://www.lyricsera.com/1096352-lyrics-millipede-song.html
http://www.youtube.com/watch?v=VIflyRuTABM

The Wee Kirkcudbright Centipede **Matt McGinn**

The Wee Kirkcubbright Centipede She was very sweet
She was ever so proud of Every one of her hundred feet
Early ev'ry morning, Her neighbours came to glance
She always entertained them, With a beautiful little dance

Chorus

Her leg at number ninety four Gave ninety five a shunt
Legs number one and two Were twistin' out in front
As legs numbers nine and ten Were wriggling up the slide
Legs seventy three and four Were doing the Palais Glide

Her neighbour Jenny Long Legs With jealousy was mad,
She went out and brought herself A pencil and a pad,
She came a month of mornings And made a careful note
Of ev'ry step the centipede made And this is what she wrote

Chorus

Armed with exact notation Young Jenny Long Legs tried
To dance just like the centipede She failed and nearly cried,
She grabbed a hold of the centipede; She says, "Now have a look
And tell me how you do these steps I've written in my book?

Said the centipede, "Do I do that?" And she tried to demonstrate,
She'd never thought on the thing before She got into a terrible state,
Her hundred legs were twisted She got tied up in a fankle,
She fractured seven shinbones, Fourteen kneecaps and an hankle

Chorus

As legs numbers one and two Were tied to three and four,
Legs numbers five and six Were trampled on the floor,
Leg number fifteen Was attacked by number ten,
Ninety seven and ninety eight Will never dance again

Chorus

The Wee Kirkcubbright Centipede She suffered terrible pain
And some of us were very surprised, She never dance again,
But now she tells Zoology, Every one that calls to see,
Never try an analysis Of what comes naturally

Chorus

http://www.educationscotland.gov.uk/scotlandssongs/primary/theweekirkcudbrightcentipede.asp
http://www.traditionalmusic.co.uk/folk-song-lyrics/Wee_Kirkcudbright_Centipede.htm
http://www.youtube.com/watch?v=Vjcdj6tbKyA
http://www.youtube.com/watch?v=-nd0pM1CbA8

Millie Millipede **Traditional tune**

My name is Millie Millipede
I have a million feet
And dine a fine as Millipede
You are lever meat

Millie Millipede
Millie Millipede
Millie Millipede
A million much in feet

My name is Millie Millipede
And I can't jump so hide
And I can work a million
Mile and zip a willing try

Millie Millipede
Millie Millipede
Millie Millipede
A million much in feet

My name is Millie Millipede
And I like to hop
Jump we puff and close
Tweak at arriving never stop

Millie Millipede
Millie Millipede
Millie Millipede
A million much in feet

Millie Millipede
Millie Millipede
Millie Millipede
A million much in feet

http://val.fm/40-millie-millipede-100-songs-for-children-cd1-mp3/
http://cacildo.webs.com/lyrics-c.txt

Le jule et la scutigère Jean-Jacques Geoffroy

This song tells the amazing story of a Julid and a Scutigerid in Paris (France) between the Muséum and the Sorbonne. It has been specially written and performed during the 9th International Congress of Myriapodology held on July 1993 in Paris.

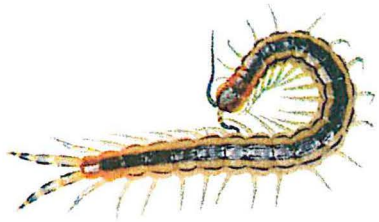
1	9	17
J'm'en vais vous raconter l'histoire	Polydesmes et géophiles	*Scutigera* l'coeur en dentelle
De *Scutigera* la Notoire	Glomeris, chordeumides, symphyles	Voyant virer tout au bord d'elle
Dieu m'pardonne	Pauropodes	L'Diplopode
Sous mes faux-airs de sacristain	Reconstituaient pour l'occasion	Se mit aussitôt hors du champ
J'pourrais même vous l'faire en latin	Une monophylie hors-saison	D'activité des imposants
D'la Sorbonne	De myriapodes	Gonopodes
D'la Sorbonne	De myriapodes	Gonopodes
2	10	18
Coleoptrata demoiselle	Adeptes de la phénétique	Ouvrant son gnathochilarium
Vous le savez n'avait pas d'ailes	Fanas de la systématique	Le jule dit "Nom d'un p'tit bonhomme
Sus l'tergite	Insulaire	Si j't'attrappe
Et transmettait de fille en mère	Enivrés par ses phéromones	J'te fais passer le goût du pain
L'secret qui fait qu'les scutigères	Laissaient MacArthur et Wilson	En t'expédiant d'un tour de main
Ca court vite	Manquer d'air	D'mes mille pattes
Ca court vite	Manquer d'air	D'mes mille pattes"
3	11	19
Dans la famille de la pauvrette	Echappé de la rue Buffon	Afin d'échapper au Julide
On vivait bien souvent de miettes	Un vol de mouches et de bourdons	Métamorphosé en bolide
Et d'oboles	En goguette	Sidéral
D'oribates un peu trop curieux	Alla terminer son envol	Elle mit à profit sa technique
Et quelquefois d'un festin de	Sous la forcipule un peu folle	De la démarche idiotétique
Collemboles	De la bête	Métachronale
Collemboles	De la bête	Métachronale
4	12	20
Afin de mieux vivre sa vie	Pendant c'temps sur l'trottoir d'en face	Atteint d'un excès d'ecdysone
La d'moiselle monta à Paris	Mais que voulez-vous qu'on y fasse	Baignant dans la benzoquinone
Faire fortune	Ma pauv'dame	Photophile
Mais descendant la rue Cuvier	Verhoeff, Meinert et Chamberlin	Le jule se r'trouva bientôt veuf
Tous ses espoirs se sont r'trouvés	Suivaient Cook qui tenait la main	En dépit d'ses pattes huit et neuf
Sus l'bitume	De Brölemann	Erectiles
Sus l'bitume	De Brölemann	Erectiles
5	13	21
Frappée de paraphylétisme	La scutigère effarouchée	*Julida* pourtant pas morose
Contaminée de gradualisme	Voyait passer la société	Joua la périodomorphose
Synthétique	Millepattesque	Vertueuse
Elle fut rue Geoffroy Saint-Hilaire	Qui s'en allait bras d'sus bras d'sous	Redevenant pour un hiver
Paralysée par la lumière	Claquer sa santé et ses sous	Un vrai coquin d'intercalaire
Cladistique	Quelle fresque	La menteuse
Cladistique	Quelle fresque	La menteuse
6	14	22
Arthropode de petite vertu	Descendu d'la statue d'Lamarck	Paraît qu'au bout d'un an ou deux
Elle arpentait les jardins du	Inébranlable au fond du parc	Ils se sont remis tous les deux
Muséum	Magnifique	En ménage
En montrant plus que de raison	Un Julidae copulateur	Afin d'écrire par leur union
Ses trachées ses pleurites et son	S'était établi transporteur	D'la saltatoire évolution
Pygidium	Phorétique	Une page
Pygidium	Phorétique	Une page
7	15	23
Elle avait choisi pour maison	Dressant son Opisthomerite	Si vous passez par le Jardin
Dans la Gal'rie d'l'Evolution	Sur l'orifice spermatique	Vous y verrez peut-être en juin
Une armoire	Le velum	Une masse
Où elle reposait ses cent pieds	S'était muni par protection	D'individus en migration
Avant la nuit d'aller r'trouver	De la diaphane paroi de son	Mutation régénération
Son trottoir	Phylacum	Et j'en passe
Son trottoir	Phylacum	Et j'en passe
8	16	24
Les clients s'y pressaient nombreux	Bardé de cônes apicaux	C'est ainsi qu'au Quartier Latin
Grillés par l'éclat de ses yeux	Le jule inspectait *in toto*	En récoltant les p'tits potins
Mis en cendres	L'auditoire	D'la Sorbonne
Du p'tit polyxène amoureux	Menaçant tout à sa portée	Je vous ai raconté l'histoire
Jusqu'aux plus géants des affreux	D'l'orifice béant de ses ré-	De *Scutigera* la Notoire
Scolopendres	Pugnatoires	Dieu m'pardonne
Scolopendres	Pugnatoires	Dieu m'pardonne

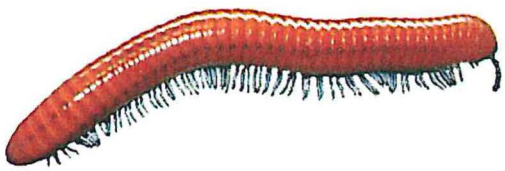
The CIM Website opens 2014

http://www.myriapodology.org/

Welcome
A website on many legged animals
Diplopoda // Chilopoda // Pauropoda // Symphyla // Onychophora

Created in Paris (France) in 1968 during the 1st International Congress of Myriapodology, the **CENTRE INTERNATIONAL DE MYRIAPODOLOGIE (CIM)** represents the global community of myriapodologists. The secretariat of the CIM is located in the "Museum National d'Histoire Naturelle de Paris: Section Zoologie-Arthropodes". Its mission is to rapidly inform myriapodologists (and other zoologists and biologists) of works 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, as well as systematics and taxonomy.
This website highlights the activities of the Centre International de Myriapodologie. It informs you about the annual Bulletin, announces upcoming congresses and reviews our 15 previous congresses, and offers a list of members, as well as a reference list of publications on Myriapoda and much more about the fascinating "multipedes" Myriapoda and Onychophora.





I am delighted to inform you that www.myriapodology.org is live. This is the first major overhaul of the Centre International de Myriapodologie (CIM) website that we have done for quite a while.
You'll notice on the bottom of the pages an acknowledgement to our hosts for the site, the Senckenberg Museum of Natural History Görlitz. Thanks to Willi Xylander for letting the CIM go through Görlitz, and to Karin Voigtländer and Peter Decker for a lot of hard work in getting content onto the site. And of course to our long-serving General Secretary, Jean-Jacques Geoffroy, for getting text from the Bulletin to Peter.
We view this as Version 1.0. Please road test the site and let any of the CIM Executive know what you'd like to see on it. Even better, if there is something that you think is missing and you would like to volunteer to develop some particular bit of content, offers to assist will be most gratefully received. We wanted to get this version live in advance of 16CIM in Olomouc (July) so that when we assemble for the Congress further plans can be made to keep developing the content.

All the best,
Greg Edgecombe

In memoriam

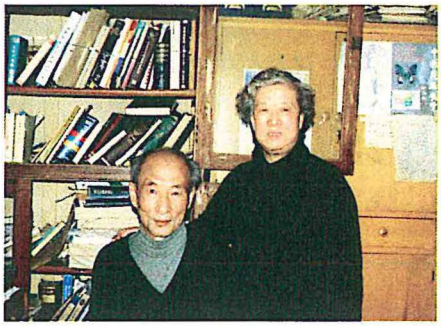
Chong-zhou Zhang [1930-2014]

Our small and vulnerable myriapodological community has lost yet another distinguished member and keen taxonomist. Professor Chong-zhou Zhang passed away in Beijing on March 24th, at the age of 84. A lengthy severe cold followed by pneumonia took Prof. Zhang in the Intensive Care Unit of a hospital, where he was held since August 2013. Until his last minutes Prof. Zhang was surrounded by the warm care of his wife Shu-ming Ma, and the love of his two children and 4-year-old granddaughter.

Prof. Zhang was born on July 1, 1930 in Cangzhou, Hebei Province, but spent most of his childhood in Tianjin City. He graduated from the Department of Biology, Nankai University in 1957. Since 1957 he has worked at the Institute of Zoology, Chinese Academy of Sciences, where he retired in 1990 but kept working until 2000. In 1980 he became a member of the Centre Internationale de Myriapodologie, Paris. Since 1986 he has been an Associate Professor at the Institute of Zoology.

Prof. Zhang will be remembered mostly for his taxonomic papers on millipedes of China. He made some of the most remarkable discoveries of our time, namely the callipodidan family Sinocallipodidae (subsequently upgraded to a suborder) that proved to be the most basal lineage of all callipodidans. It was him and his master student Da-qing Wang to find in South China and describe one of the most speciose callipodidan families, Paracortinidae. Besides, his legacy also includes several new genera of Polydesmida (*Wulingia*, *Inversispina*), Spirostreptida (*Ararcogonopus*, *Uriunceustreptus*) and Callipodida (*Sinocallipus*, *Angulifemur*), as well as more than 40 new species of millipedes of the orders Glomerida, Spirostreptida, Julida, Spirobolida, Spirostreptida, Callipoida and Polydesmida.

Although millipedes were his main focus of research, Prof. Zhang had much broader interests and also published occasionally on centipedes, symphylans and pauropods. His contributions to the study of these groups, among others, include four new species of Lithobiomorpha and Pauropoda each, and a new species of *Scolopendra*.



Professor Zhang with his wife Shu-ming Ma in his office

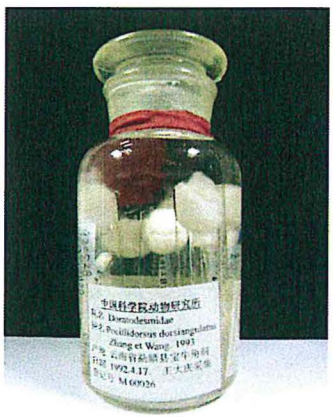
In addition to taxonomy, his research interests involved centipede reproduction and behavior, and the medical use of myriapods in the Chinese medicine. His studies brought to light the first data for the fauna of remote areas in China, such as Tibet, Hoh Xil, Wuling Mountains and Xishuangbanna. He was also very much interested in the study of cave-dwelling myriapods of China. As a keen speleologist he was among the organizers of the XIth International Congress of Speleology, held in Beijing in 1993.

It is hardly known that Prof. Zhang hasn't always been a myriapod scholar. His first papers actually dealt with crustaceans, on which he started to work under the supervision of Professor Jia-rui Shen. In the period 1959-1962 he worked in a laboratory at Baiyangdian Lake, Hebei province, where he studied the freshwater cladocerans and copepods. After the death of Professor Shen in 1975 he shifted his interests entirely to myriapods.

Prof. Zhang published altogether more than 45 myriapodological papers, mostly in the specialized journals Acta Zootaxonomica Sinica, Sinozoologia, and Chinese Journal of Zoology, as well as two books on the biology and breeding technology of centipedes used in medicine. He was regularly in contact with the late Dr. Richard Hoffman and other world authorities from Europe and USA, with whom he consulted his discoveries. Almost all type specimens of species described by Prof. Zhang are currently kept in the Institute of Zoology, CAS and can be obtained upon demand from the collection manager.

Prof. Zhang was a very devoted researcher, a good friend and colleague and the first Chinese zoologist to carry out a systematic national-scale survey of myriapods. He completely deserves to be titled a doyen of Chinese myriapodology!

Pavel Stoev, Shuqiang Li, Kaibaryer Meng



Professor Zhang with Fan Zhang during a field work / The type specimens of *Pacillidorsus dorsiangulatus* Zhang in: Zhang & Wang, 1993 (now *Eutrichodesmus dorsiangulatus*) in the collection of the Institute of Zoology, Chinese Academy of Sciences

A list of the scientific publications by Chong-zhou ZHANG*

*The original anglicized version of Professor Zhang's name is CHANG Chung-chow. The current system for transliteration of Chinese names is based on how the name sounds in Chinese and thus, his name is spelt ZHANG Chong-zhou.

1. HUANG Ming-xian, OUYANG Hui-qing, CHANG Chung-chow, CAI Guo-hua, ZONG Zhi-xuan, LIN Qing-xiang (1959) Investigation of fishery biology in winter at Baiyangdian Lake. Chinese Journal of Zoology 3(3): 89–95. (In Chinese)

2. SHEN Chia-jui, CHANG Chung-chow (1964) Cladocera at Baiyangdian Lake from Hebei Province. Chinese Journal of Zoology 6(3): 128–132. (In Chinese)
3. SHEN Chia-jui, CHANG Chung-chow (1965) Larval development of *Metadiaptomus asiaticus* Uljanin. Oceanologia et Limnologia Sinica 7(2): 141–148, Plate I–VII. (In Chinese)
4. SHEN Chia-jui, CHANG Chung-chow (1966) On Copepods of Inner Mongolia and Ning-Hsia, North China. Acta Zoologica Sinica 18(2): 209–219. (In Chinese, with English summary)
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Edaphobase

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EDAPHOBASE merges existing data on soil organisms of different institutions and persons dealing with this topic. Data acquired from literature and collections complete these datasets.Within Edaphobase these data are administered and will be analyseable via a web application – a so far unique project in Germany.

EDAPHOBASE is a joint research project of "**Senckenberg Museum für Naturkunde Görlitz**" (Prof. Dr. W. Xylander), "**Staatliches Museum für Naturkunde Karlsruhe**" (Dr. H. Höfer) and "**ECT Oekotoxikologie GmbH Flörsheim**" (Dr. J. Römbke). From november 2009 until october 2012 the project is funded by "Bundesministerium für Bildung und Forschung" (FKZ: 01LI0901A). Continuation of EDAPHOBASE is ensured by the "Senckenberg Gesellschaft für Naturkunde" after governmental-funding.

The soil-zoological information system *Edaphobase* is a taxonomic-ecological database system, which combines existing taxonomical primary data on soil organisms from collections, scientific literature and reports etc. originating from many research institutes and persons involved in soil zoology. This data is linked at the species level to ecological background information of the species' sites of occurrence (i.e. geography, soils, habitat type, climate). The data is available to the general public via a web application containing a comprehensive query system, which allows the analysis and evaluation of the data for complex ecological questions of soil-zoological research and monitoring. In general, *Edaphobase* makes this data comprehensively available for soil-zoological biodiversity research – a unique undertaking within Germany! The Information system is part of the existing GBIF data structure.
Edaphobase contains more than 470,000 data sets (February 2014) on Myriapoda, Isopoda, Acari, Collembola, Nematoda, Annelida, Enchytraeidae and some other groups. For Myriapoda more than 110,000 data sets are available for about 13,700 localities (with focus on Germany and adjacent countries) from the collections of Senckenberg Museum für Naturkunde Görlitz, Zoologische Staatssammlung München, Museum für Naturkunde Berlin, private collections and 2,760 literature references.

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Senckenberg Museum of Natural History Görlitz
Department Bodenzoologie
Edaphobase – GBIF-Database on Soil Zoology
PO.Box 30 01 54 Jakobstraße 43 D-02826 Goerlitz
fax:+49(0)3581 4760 5104
phone:+49(0)3581 4760 5580
E–Mail:info@edaphobase.org Internet: www.edaphobase.org

Summaries of laboratory observations on millipedes

Norman W. Youngsteadt, November, 2013. Revised January, 2014

Introduction

These notes summarize observations I made of several Ozark millipedes over the years 2005-2013. Unless noted, they were collected from under logs or rocks in woodland. Each account begins with the month or months in which the millipedes were collected and the longest time one of the individuals lived. Most were kept in 11 or 16 cm diameter clear plastic deli dishes containing clay, wood, rock, and/or soil, etc. as a substrate and provided most often with compost in the blackened stage or yeast for food, and at times a variety of other things including Tetramin tropical fish food, carrot, potato peels, hamburger, freshly killed insects, etc.

Representatives of seven orders (thirteen families) were observed:

Platydesmida
Androgmathidae
Brachycybe lecontii





Collected: November, December, April, May; lived at least 1 1/3 years.

These were unusual millipedes (about 2 cm long) that were found in colonies under logs and apparently fed on the microorganisms that live on the rotting wood. Strangely, they produced no fecal pellets; their laboratory containers remained free of them.

To molt, they curled up in a suitable place and shed their skin after about ten days. They did not eat the skins.

No mating or egg-laying was observed, but about two dozen eggs appeared that were tended by an adult that wrapped its anterior half around them. The adult remained with them in the same place for the twenty-one days it took the eggs to hatch. The eggs had a diameter of 2/3 mm but swelled a bit before hatching. The hatchlings had five pairs of legs and were 2.0-2.5 mm long. None survived more than several days.

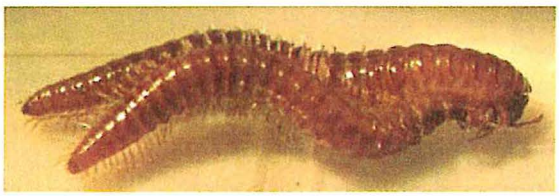
These were slow millipedes and moved around their dish in a way reminiscent of a planarian gliding over a substrate. When it was necessary to manipulate them for some reason, they did not resist crawling onto an unfamiliar object; such resistance could be frustrating when manipulating other millipedes.

Polyzonida
Polyzoniidae
Petaserpes bikermani

Collected: November; lived 2.5-5 months.

Two males (1.2 cm long) moved slowly around the perimeter of their dish but were seldom together. One might disappear for several days, perhaps into holes in the wood that was in their dish.

Chordeumatida
Cleidogonidae



Collected: January, February, March, April, October, November, December; lived a month or two. Babies appeared in March.

The cleidogonids (about 1.0-1.5 cm long) tended to be fast and when I first encountered one of the genus *Tiganogona* it brought to mind a skink in both general body shape and speed. The *Tiganogona*s were jumpy toward one another and showed some signs of aggression, such as one chasing and lunging at another. When two were kept in a 30 ml bottle, they were at first jumpy toward one another but then settled down to sequentially groom their legs. Webbing was observed in their container.

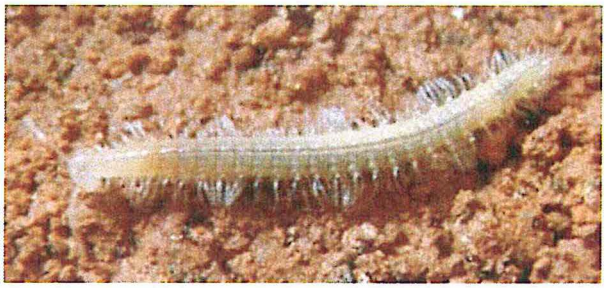
Three other unidentified specimens had the habit of lying still, as if dead, but if annoyed enough with a small prod, would suddenly come alive and rapidly run away.

Mating was observed in one of these others to last at least eighteen hours. At times the female would continue to walk around while mating with the male keeping up by twisting his body and walking with his posterior and middle legs. In another case a male was recorded three times in close succession as attempting to mount a smaller male, and once when the two met head on, the smaller male coiled up.

A female was observed to groom her posterior legs by curling into a "U" and using her mouthparts.

Babies appeared in the container of one of the unidentified species. They had five pairs of legs and were 1.0 or 1.2 mm long, had eye spots, and curved setae. They showed no tendency to flock, as did the babies of one of the polydesmids, and none lived long enough to molt.

Chordeumatida
Trichopetalidae
Trigenotyla parca, Causeyella



Cropped from a photo by Jon Beard

Collected: *T. parca*, November; lived about five months.
Causeyella, March, April, June, August, October, November, December; lived 11 months. See Trans. Kans. Acad. Sci. 111: 136-140 (Spring 2008).

The trichopetalids were represented by *Trigenotyla parca* (0.8 cm long) and two cave adapted species in the genus *Causeyella* (about 1.4 cm long). All produced webbing and had sticky droplets at the bases of their setae that would stretch into

strands if probed with a needle. The *T. parca* was a male that was moderately active and fairly fast, but did not tap its antennae as constantly as did the *Causeyella* species when roaming. On one occasion it periodically stopped to lift and wag its posterior when roaming as if to test the air. It began to slow and show signs of distress after only a few minutes of observation out of its container.

The two troglobitic *Causeyella* species (*dendropus* and *youngsteadtorum*) were the most interesting of the millipedes observed because they were often active and interacted with one another. Both sexes and the juveniles were occasionally aggressive and would sometimes strike like a snake or rise up if two approached head-on and appear to box a bit before separating.

Mating was observed and two females each laid five eggs in the open on wood or clay, but none of them hatched.

To molt, they spent about two weeks in a wispy, silken cocoon. Growth was not fast; two 9-mm specimens grew about 1 mm each after a molt.

The sticky droplets at the bases of the long setae were observed to trap a small springtail that got under the setae. It slid up the seta with the sticky fluid and was eliminated when it stuck to another object.

Callipodida
Abacionidae
Abacion

Collected: April, May, June, October; lived about a year. Also see H. Enghoff and N. Akkari, A Callipodidan Cacoon ..., Internat. J. Myriapod. 5:49-53 (2011).

These relatively large millipedes (1.8-5.0 cm long), were fast and were able to move backwards with ease for short distances. This tendency to move backwards was a characteristic they shared with one of the julids.

They were sometimes inactive under leaves, etc. in their dish, but would also spend time roaming. If roaming, they typically responded negatively to their dish being opened or to a beam of light by moving under something, but would sometimes adjust to these and continue their roaming. They sometimes coiled tightly if disturbed.

They ate a variety of food such as a scavenged arthropod leg, freshly killed soldier fly maggot and camel cricket, hamburger, yeast (maybe), and Tetramin fish food. They did not eat partially composted leaves.

Five of those collected were found under rocks in a prairie habitat in north-central Kansas (Clay County). When its rock was lifted, one of them lifted its rear (front?) and waved it around as if gathering information, similar to the behavior observed for *Trigenotyla*.

Molting took place in a wispy silken cocoon, but both specimens that started the process died before the skin was shed.

Polydesmida
Xystodesmidae
Apheloria virginiensis

Collected: March, April, May, June; lived four months. Babies appeared in July and lived about three months.

The Polydesmida is a diverse order and the family Xystodesmidae is one of six families that I observed. *Apheloria virginiensis* (about 4 cm long) is the first in order.

These are relatively large, pretty, black and yellow millipedes. They were not particularly fast and were not interactive except during mating. When they were active, it was either day or night, but mostly night. One June, a female began to dig holes in the dirt about an inch or so long with a chamber at the bottom. Both she and the male periodically visited the holes, which I hoped might be a prelude to egg laying, but none ever appeared. They ate a variety of food including oak-leaves, yeast, carrot, and Tetramin fish food. Juveniles were not attracted to compost or a recently killed soldier fly maggot.

Data suggest a one year life cycle: adults were collected in the spring and died in late spring or summer; mating occurred in the spring; no eggs were seen, but babies appeared in July; sub-adults were collected in October (apparently hatched in the

spring), and when a female died it contained no eggs; two other females did contain eggs by spring or summer.

Mating occurred frequently in May and June. During mating, the male curled its head and anterior segments around the front of the female's head and tried to push it back. Females tended to avoid the males or, if the male attained the belly to belly mating position, the females tended to keep their heads tucked. This resistance resulted in many unsuccessful mating attempts. Given the aggressive tendency of the males to mate and the resistance of the females to it, I wondered if a short life for many of the females may have been the result of the aggression. Matings were relatively short; the longest was only about a half hour, but actual starting and stopping times were unknown.

Babies appeared, but the container held more than one kind of millipede. Since the babies did not resemble those of the other kinds, it was assumed they must belong to the *Apheloria* .

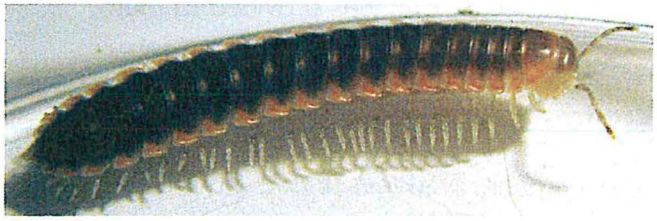
The first instars were typical polydesmidans with three pairs of legs. They were white, about 1.2-1.5 mm long, had 7 segments (counting the epiproct), and longer setae than the first instars of the other polydesmidans; lateral mid-body setae were about 2/3 the width of the body. There were three setae per side per segment including dorso-laterals, laterals, and ventro-laterals. The laterals stuck straight out with only a slight curve. There was a row of spinules at the posterior edge of each segment. These babies appeared to be particularly unsteady in their movements, being slow, appearing uncertain, or deliberate and sloth-like. They usually stayed hidden in the soil. This subterranean propensity rendered them difficult to observe. But, they sometimes did leave the soil and crawled up the side of their dish where many got trapped in condensation water, which was a major hazard for first instar millipedes in general.

One of the babies may have reached its fourth instar before death. Behavior did not change much through at least the first three stadia, but they did become a bit less wobbly. Second instars were about 2.1-2.2 mm long, had 10 segments, and 6 pairs of legs. They did not respond to their dish being opened or to the microscope light. Third instars were about 3.2 mm long and had 11 pairs of legs. Their paranota had expanded a bit, but they still looked like babies, not adults. Their continued slowness and wobbliness was surprising relative to the speed and coordination of their parents or juvenile polydesmids and euryurids in the same stadium. The possible fourth instar was 3.6 mm long and its mid-body setae were about ¼ the width of the body.

The rate of development is suggested by the following sequence: a first instar was molting on August 16; a second instar was seen on August 20; a third instar was seen on September 14; the possible forth instar was seen on October 19.

Molting was not synchronous.

Polydesmida
Xystodesmidae 2



Collected: April; lived about a month.

This was a single female (2.4-2.8 mm long) that was so slow I sometimes thought her to be near death. She brought to mind the slowness of the *Apheloria* juveniles, above.

Polydesmida
Eurymerodesmidae
Eurymerodesmus

Collected: February, March, October; lived four months.

These millipedes (2.5-3 cm long) were commonly seen roaming when it was still cold before or after winter. They could be common on sidewalks in town or, for example, one was waist high on the brick wall outside our front door and another on the garage floor. One of the October specimens was collected under a rock in a glade. They might coil up if disturbed, but did not release any odor. One note indicated that a specimen did not resist crawling onto a clean Popsicle stick. In their dishes they were slow and crawled over each other with no interaction except to mate. Little else can be said: a female slept with her anterior curled and posterior extended or a female was curled around and "licking" her everted rectum.

Mating was of the typical sort. In one case a male was removed to relieve the female of mating pressure. The longest coupling lasted at least seven hours.

They ate the yeast that was provided to them.

Polydesmida
Eurymerodesmidae 2

Collected: October; lived less than a month.

This apparently juvenile male (2 cm long?) was still white. It did little but walk slowly about the perimeter of its dish.

Polydesmida
Euryuridae
Auturus evides

Collected: January, March, May; lived five months. Babies appeared in June and lived two years.

These (about 3.5 cm long) did well in captivity. They ducked under cover if their dish was opened or a beam of light was directed on them. They entered dormancy in December by coiling up in a hidden place, but if they were uncovered they would slowly begin to move. Warm spells in January and February broke the dormancy of some when their room temperature increased from 56-62 to 66-70 F. They became normally active by the end of March. Being transferred to a new dish often resulted in a change in their typical routine. For instance, some that were usually visible from above before transfer remained under cover afterwards; some that formed aggregations before transfer discontinued that tendency afterwards.

They ate composted leaves in the blackened stage and reduced them to veins. Juveniles were often on the compost and fifth instars borrowed through it and left it riddled with holes and covered with scat. But some animal food was scavenged. One specimen was noted to be lapping the "juice" around the head of a decapitated soldier fly maggot that had been recently killed and introduced as possible food.

A dish containing these millipedes tended to stay damp, as if the substrate were hygroscopic, so water was rarely added.

Mating was observed in March, April and May and was frequent. The mating style was typical of polydesmidans: belly to belly with the front of the male curled over the head of the female with his legs firmly enclosing her, particularly toward the front, but if the animal was upside down, it was not unusual for the posterior part to be twisted so the legs were on the ground. Mating lasted for more than an hour.

Eggs were laid in hollows in the soil in clusters of 12 to 30. They were tan and about 0.45 mm in diameter. They swelled some and became more grayish and translucent before hatching, which was not synchronous but proceeded for two or more weeks from a given clutch.

The hatchlings were slow and lethargic compared to those of *Pseudopolydesmus pinetorum*, below, and did not form a flock.

Molting took place in an igloo-like chamber constructed of fecal pellets; the chamber sometimes had a chimney-like structure on the side. Chamber size varied with the size of the builder, but one with an outside diameter of 14 mm had walls 2 mm thick. The fecal pellets used to build an igloo varied in consistency: for two millipedes, each about 1.2 cm long, the outside of one chamber resembled little cow pats about 1.5 mm across, while the other resembled little balls about 0.5-0.6 mm in diameter. It took about a day to build a chamber and the skin was shed about ten days later (it was not usually eaten) and the millipede exited the chamber after a couple more days.

The following table gives approximate statistics for successive instars in 2007.

Instar	No. of segments	length in mm	pairs of legs	first appeared
Egg	-------	0.45	-------	
1	7	1.5-1.7	3	June 14
2	7	2.4-2.5	6	June 25
3	12	3.5-4.1	11	July 22
4	16	5-6	20	August 9
5	17-18	7 ½-8 ½		August 28
6	17 or 18	11-12		October 7
7				
Adult		about 30		

Polydesmida
Paradoxosomatidae
Oxidus gracilis

Collected: April; lived about six months.

This female (about 2.2 cm long) was not very active, sometimes being out and sometimes under things. She was immature when collected on April 17, was lightly colored by May 4, a shiny bright brown by May 15, and nearly black by June 13. She ate black composted leaves and while on the compost once left a neat pile of scats 12-14 mm across and 1 or 1½ mm high on it. She also ate from a freshly killed, decapitated soldier fly maggot that was offered as food. She lapped at the head area and her jaws appeared to be working on the muscles of the maggot's inner parts.

An outbreak of *Oxidus* occurred in this area in 2010. They were common along a wooded part of a greenway trail in Springfield and in the National Forest.

Polydesmida
Polydesmidae
Scytonotus granulatus

Collected: February, March, April, November; lived three months. Babies appeared in April and May and lived about three months.

These were bumpy-backed little millipedes about 1.2 cm long. Mating was observed (one pair started mating in the collecting bottle). The male quickly mounted the female from behind, crawled forward, and then turned belly to belly with his anterior end curled around her head. His legs completely surrounded the female, including her legs. Mating lasted at least 3½ hours.

The female built an open-topped igloo-like egg chamber. I did not see how one was constructed, but I assume it was similar to that of *Pseudopolydesmus pinetorum*, below. It was completed on April 22 and contained 12 eggs. They were white to tan, spherical, had a diameter of 3.75 mm, and were not tightly stuck together. By May 2 they had enlarged and were less spherical; on May 3 were about 0.5 mm in diameter, were grayer and more translucent, and some embryonic structure was visible in some. By May 5 one egg was somewhat crescent shaped and about 0.75 mm long. All of the eggs hatched and the hatchlings dispersed 13 days after they were laid. They did not form a flock.

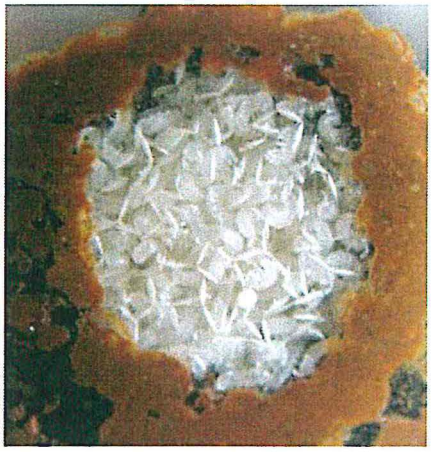
The first instars were 1.1-1.4 mm long, had three pairs of legs and seven segments counting the terminal epiproct, were white, and had bumps on their backs like the adults. They were covered with short hooked setae. Successive instars were increasingly coordinated, but remained white with hooked setae through the fifth instar, at which the last one died at about three months old.

First instars were active, but slow and somewhat bumbly. They were often on the black composted leaves provided as food, but were also seen feeding on a dead dish mate or shed skin. Third instars also ate leaves. Fourth instars dove quickly under cover when the lid of their dish was removed and the microscope light turned on; their response to light if the lid was not removed was mixed.

The two groups of babies hatched at different times, but their instars overlapped. The following table gives the time of first appearance of each instar and some statistics.

Instar	first appearance	# of segments	pairs of legs	length mm
Egg	< April 11			0.3-0.4
1	April 24	6	3	1.1-1.4
2	May 13	9	6	about 2
3	June 1	12	11	2.5-2.7
4	June 15	14	17	3.7-4.0
5	July 27	16	?	5

Polydesmida
Polydesmidae
Pseudopolydesmus pinetorum
see Trans. Kans. Acad. Sci. 112: 67-76 (Spring 2009).



Collected: mainly in spring and fall: they had a one year life cycle.

These millipedes (2 cm long) did well in captivity and were interesting to watch in the spring when the females built egg chambers and laid eggs, when the eggs hatched and the babies moved around in flocks, and later when molting chambers were built and skins shed through seven instars before attaining adulthood.

Several batches of 70-300 eggs were laid per female in the spring and the adults died in summer. The eggs were enclosed in igloo-like chambers constructed of fecal material, which was formed into flat shingles by the everted rectum and used to build the chamber walls. The eggs were laid as the walls were built. The chambers typically had no ventilation openings (but one was open-topped), were topped with a chimney-like structure, and finally covered with additional fecal material and a layer of debris placed using mouthparts. Hatching was synchronous in about 8-18 days, depending on temperature, and the hatchlings typically left the chamber after a couple days, one after another, through a hole one of them made in the wall. They then moved about the dish in a flock, and if another flock was already present, united with it. Only the first instars formed flocks; an individual in the flock would periodically lift its posterior and evert its rectum, which might relate to chemical signaling to hold the flock together, but I was never able to correlate any particular behavior to flock movement.

Earlier instars usually made their molting chambers in the soil, but later ones often made igloo-like chambers on the surface that were comparable to egg chambers. These later instars generally took about 10 days to molt and leave the chamber. Some reached adulthood and mated in the fall, but others overwintered in their sixth or seventh stadia and reached adulthood and mated in the spring. Regardless, eggs were laid in the spring (as early as late January).

If prodded with a needle, the first few instars produced a drop of repugnatory secretion from a pair of lateral paranotal pores and also everted their rectums. These instars tended to hunker down and hold their positions when prodded, but older ones fled. If a paint-brush bristle or piece of paper was inoculated with a droplet of this secretion and was held in front of a first instar, it stopped moving, laid its antennae back, and then either retreated or changed direction. Second and third instars and adults also responded, but the first and second instars of *Auturus*, above, did not.

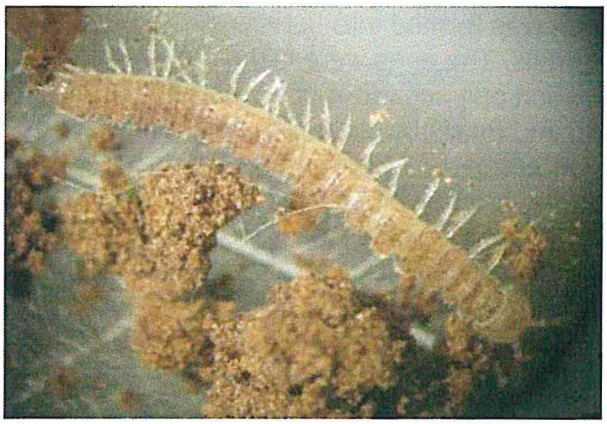
In one case, a colony was maintained to the third generation before it died out. In another, a couple of females from north central Kansas mated with a local male and offspring were produced, but one had already laid eggs so it seems probable that neither was virgin.

Mating for this species could last for about two days. With regard to mating I will mention one unusual male that was very sexually active; a couple of times I mistakenly thought him to be dead or nearly dead, but each time he "revived" and mated again. Recall that the phenomenon of appearing dead was noted earlier for the cleidogonids.

As with some of the other millipedes, transfers to a new dish resulted in behavioral shifts such as stopping aggregation or restarting egg laying or molting.

Adults and juveniles ate leaves composted to a blackened stage, baker's yeast, and even animal food such as ground beef or freshly killed cave cricket.

Polydesmida
Polydesmidae
Polydesmus



Collected: October: one still alive in December was released.

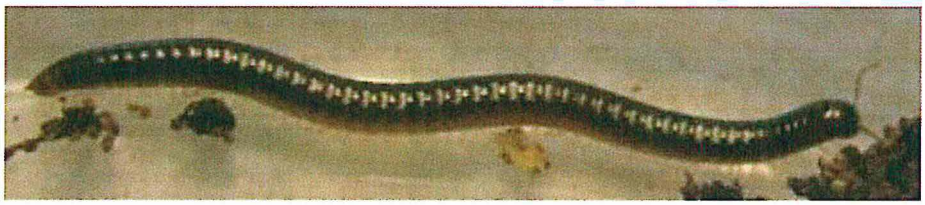
Three (0.6-0.7 cm long) were collected from the garden in October. The one scored had 19 segments and one was apparently molting on November 4 and appeared to have shed its skin but no molting chamber was noted. One remained in December and was released. Notes were minimal.

Julida
Julidae 1

Collected: April: lived a month or two. Babies appeared in June and lived about two months.

These millipedes had at least 60 segments and I recall them to have been about 2 cm long. They were sensitive to light, secretive, and usually stayed under cover. They were able to move backwards with ease, a characteristic they shared with the abacionids. Mating was not observed nor eggs seen, but in June a few babies about 2 mm long appeared in the dish. They were recorded as 2 mm long on June 18, 7 mm long on June 26, 9 mm long on July 22, and 10 mm long on August 5.

Julida
Julidae 2



Collected: January; survived 5 months. Babies appeared in March; one lived for nine months and was released.

These millipedes (about 1.5-2 cm long) were quite fast and produced large amounts of fecal pellets. When a mating pair was disturbed in February, one crawled away and the other lay where it was as if in a post-mating stupor. One was in an apparent molting coil under a piece of wood on October 12, was still coiled on October 15, but uncoiled on October 16, but no skin was seen.

Although eggs were not seen, babies appeared in March. They were 2-2.5 mm long and had more than a dozen pairs of legs. They grew as follows: 2-2.5 mm long on March 6; 10 mm long on September 16; 12 mm long on December 4.

Julida
Parajulidae 1

Collected: February; lived about two months and released.

These were pretty millipedes (4 cm long) and resembled snakes in the way they twisted and curled, particularly during mating. The longest mating recorded was just over an hour. In males, a pair of anterior legs just behind the collum is converted to a pair of claspers used in mating. They are a defining characteristic of the Parajulidae.

They tended to roam about their dish at night and ate Tetramin fish food.

Julida
Parajulidae 2

Collected: November; lived about two months.

These were collected in a prairie area on the Galloway greenway trail in Springfield, Missouri. They were a bit larger (4.5 cm long) than those above. Four matings or attempted matings were observed in November but none lasted more than a few minutes. In one case a male met a female at 8:19 AM; they quickly coiled into a mating knot, but then quickly separated. This knotting was almost snap quick when they met. A bit later, two were observed to touch, but one quickly retreated.

Julida
Parajulidae ?

Collected: November; lived about nine months.

This immature parajulid-like millipede was white, about 6 mm long (it grew to 7-8 mm before it died), relatively thin, and had about 32 segments. Segments were longitudinally striated on the ventral half but smooth and shiny, with stippling, above. The black eyes were narrow and situated horizontally directly behind the antennae.

It was coiled in a molt on May 3 and on May 11 the uneaten skin was left in the molting place but the millipede had moved and was coiled under a leaf. The molt took roughly nine days. Inspection of the skin showed that each eye was composed of four ocelli located where the collum rests on the head, which brought to mind *Cambala* in the order Spirostreptida.

It seemed to like baker's yeast and was also seen at pieces of carrot and potato. It produced a lot of fecal pellets. It responded quickly to its bottle being opened and to light.

Spirobolida
Spirobolidae
Narceus americana

Collected: April; lived about six months. A baby that appeared in April lived about 11 months; one that appeared in August was released when nearing three years old.

Adults (5.3-6.3 cm long) were slow, more active at night and often stayed under cover during the day, but not always; on one April day two adults were seen walking on a paved road in broad daylight at about 11:00 AM. They would sometimes go unseen for days, perhaps molting. They ate rotten wood and compost and the amount and size of their fecal pellets, which were the color and texture of the wood, suggested that wood was a major component. Juveniles reduced dead oak leaves to veins but left most other kinds of leaves uneaten. Baker's yeast, carrot top, and hamburger were also eaten.

Mating occurred in September; the longest one lasted at least five hours. Coupling was typical for millipedes with the head and anterior part of the male curved over the head of the female, but as mating progressed, the male moved its anterior part slowly back and forth over the females head in approximately two second cycles. A lot of anterior leg movement occurred and the female wiggled her antennae. In addition, the anterior portions of both sexes moved slowly back and forth.

A single grayish-white, slightly ovoid egg about 1.5-1.6 mm long was observed in May. It was deposited on the clear plastic bottom of the dish under a mud capsule. None of the babies that appeared were associated with this egg, but they were 1+ to 1.5 cm long.

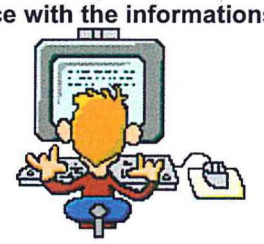
To molt, these millipedes coiled in a protected spot until the skin was shed; this took about 10 days for juveniles and 20 for adults. During molt, the skin split between the head and collum and the millipede crawled out through the slit. In one case, a specimen with 40-42 segments counting the collum and epiproct emerged from a skin that had 35-36 segments.

The following measurements demonstrate the rate of growth: one baby that was about 1.5 cm long grew to 3.5 – 4 cm long in about 11 months; another that was 1+ cm long grew to about 5.5 cm long in almost three years.

Topics being dealt or *scheduled in the world on Myriapoda & Onychophora

compiled and summarized by J.-J. Geoffroy [MNHN-DEGB, UMR 7204 CESCO, Brunoy (France)]

This list is the sum and analysis of information sent by the scientists who are working in any kind of matter dealing with myriapods or onychophorans in the world. It is to be completed or improved permanently, in accordance with the informations provided yearly by specialists.



Please send informations to the «Centre International de Myriapodologie» : millicim@mnhn.fr

MATTERS BEING DEALT OR *SCHEDULED [2013 - 2014]

A- NOMENCLATURE - GENERAL MYRIAPODOLOGY

ADAM, Basic biology and breeding of Tropical/Subtropical myriapods.
MINELLI, SHELLEY, *Nomenclator generum et familiarum Chilopodorum II.
MINELLI (Ed), ENGHOFF, GOLOVATCH, WESENER, etc, etc, Treatise of Zoology, Myriapods II, Diplopoda.
SHELLEY and coll, Nomenclator Diplopodorum III.

B- HISTORY

PIEPER, History millipede studies. Studies on old literature on *Pachyiulus* and *Eurygyrus*.
STAGL, Historical investigations on collections (Natural History Museum of Vienna).

C- INFORMATION & COMMUNICATION

BOND, Myriapod website in USA.
BMIG, Website in UK
GEOFFROY, Website of the CIM, myriapod and onychophoran galleries.
LINDNER, Website and scientific journal *Schubartiana*
NGUYEN DUC, Website of millipede in Vietnam.
MESIBOV, Tasmanian multipedes and websites.
READ, BMIG Website and Bulletin.
SHEAR, Discussion lists: myriapoda, onychophora... on yahoogroups.com
REIP, LINDNER, SPELDA, DECKER, Website and DB on myriapod literature (MyriaLit).
SHELLEY, Myriapod website photo gallery in USA.
WESENER, Taxonomy od diplopods for Treatise of Zoology.

D- DATA BASES / DOCUMENTATION

BONATO, Geophilomorpha of Europe: annotated checklist; web-based multi-choice identification key.
BONATO, MINELLI, Chilobase on centipedes.
BMIG, BARBER, READ, Bulletin and newsletter.
DEMANGE, Taxonomic databases on myriapods.
ENGHOFF, Fauna Europae a, faunaeur.org, Myriapoda.
GEOFFROY, Biblio.milpath, bibliographic database.
GEOFFROY, Fauna Gallica Myriapoda, taxonomic and biogeographic biodiversity of the French myriapod fauna.
KHANNA, Website and database on Scolopendrid types.
REIP, LINDNER, SPELDA, DECKER, Website and DB on myriapod literature (MyriaLit).
LOCK, Database of Belgian Chilopoda, development and management.
MAURIES, GEOFFROY, NGUYEN DUY - JACQUEMIN, Iconographic file upon myriapods and onychophorans.
MEIDELL, Databases on myriapodological literature and species names.
MESIBOV, Tasmanian multipedes databases.
MINELLI, Update of Chilopoda for Fauna Europaea.
NGUYEN DUY - JACQUEMIN, GEOFFROY, Database on checklist and distribution of Penicillata of the world.
ROSENBERG, VOIGTLÄNDER, Database (Reference Manager) on chilopod literature with key word register to biological topics. http://service.edaphobase.org/rosenberg
SIERWALD, International Catalogue of Myriapod Collections. Systematical database for myriapods.
SPELDA, REIP, LINDNER, Database on myriapod literature (MyriaLit).
SPELDA, Online database SysMyr as part of the node "Evertebrata II" of GIBIF Germany. Diplopoda, Pauropoda, Symphyla for the catalogue of life/Species 2000.
STOEV, E-edition of ZooKeys and other Pensoft publications. « «Big Data » Bases.
STOEV, Data base of the synonym names in the class Chilopoda. *Data base of the centipedes of Europe.
ZAPPAROLI, Update of Chilopoda for Fauna Europaea.

E- STRUCTURE & PHYSIOLOGY

E1- GENERALITIES, ANATOMY, MORPHOLOGY

ARTHUR, Segment number variation in Geophilomorpha: Development, genetics and ecology.
FONTANETTI, Morphology, cytogenetics and histochemistry in Brazilian diplopods.

FUSCO, MINELLI, Gonopod anatomy and development and metamorphosis.
HANNIBAL, Sternal pores and systematics of euphoberiid diplopods (Carboniferous).
ILIE-TENCUSE, *Teratology in Geophilomorpha.
KOCH, EDGECOMBE, anatomical 3-D reconstructions of the head in Geophilomorpha (Chilopoda).
KOCH, WESENER, Head morphology of the Pentazonia (Diplopoda).
LESNIEWSKA, Morphological anomalies in centipedes.
MINELLI, FUSCO, BONATO, Metameric organisation of myriapods (heterochrony, phylogenesis, evodevo).
HILKEN, MÜLLER, Comparative morphology of epidermal glands and glandular organs in Chilopoda.
PENTEADO, SILVA & BOCCARDO, Physiology, circadian rythms, metabolism and respiration of Brazilian millipedes; Effects of deltametryn pyrethroid on the respiratory metabolism of Neotropical millipedes.

E2- SENSORY ORGANS / NERVOUS SYSTEM
ERNST, *Antennal sensilla of diplopods.
ERNST, HILKEN, MÜLLER, ROSENBERG, SOMBKE, Antennal sensilla in Chilopoda.
MÜLLER, Comparative morphology of eyes in Chilopoda and Diplopoda.
SOMBKE, Comparative studies on the architecture of central nervous system in Myriapoda.

E3- DIGESTION, ASSIMILATION, FEEDING (OR FOOD!?)
ENGHOFF, PAOLETTI, et al., Edible millipedes.
MISRA, Effect of phorate and zectran on the phosphatase activity of the gut of millipedes, *Gonolectus malayus* (Carl).
SUSTR, *Physical and chemical conditions, enzyme activity and microbial community inside the different compartments of the digestive tract of millipedes (Spirostreptida and Spirobolida).
TUFOVA, Feeding biology of millipedes.

E4- RESPIRATION, METABOLISM
CHAO, Tracheal system of Chilopoda.
HILKEN, MÜLLER, Tracheal system in Notostigmophora.
PENTEADO, Tespiratory metabolism in Brazilian millipedes.

E5- CIRCULATORY SYSTEM, HEMOLYMPH, IMMUNOLOGY
BROCKMANN, Hemocytes of Scutigeromorpha.
BURMESTER, Structure, function and evolution of arthropod hemocyanins.
HILKEN, MÜLLER, ROSENBERG, Perivascular organs in Chilopoda.
NEVERMANN, BROCKMANN, Hemocytes of *Scutigera*.
PASS & WIRKNER, Morphology and evolution of circulatory system in Chilopoda.
XYLANDER, Immune reactions against xenografts in Diplopoda and Chilopoda.

E6- GLANDS, SECRETION, EXCRETION, COXAL ORGANS, VENOMS
ANTIC, volatile defensive compounds of *Himantarium gabrielis*. Chemoecology of centipesdes and millipedes, cavernicolous and epigeic forms.
HUTH, Chemical ecology of millipedes : chemical analyses of defensive secretions and chemotaxonomical approach to systematics.
KANIA, Economic and medical significance of Diplopoda.
MASHBERG, Biological function of defensive secretions in millipedes.
MÜLLER, HILKEN, Comparative Morphology of epidermal glands in Chilopoda.
TANABE, Defensive secretions in Japanese millipedes.
VAGALINSKI, Chemotaxonomy of Julidae.
WEYDA, *Eversible vesicles in myriapods.

E7- BIOCHEMISTRY, MOLECULAR BIOLOGY, HEAVY METALS , RADIATIONS
BOND, Rhinocricidae, molecular data for systematics.
DAAS, Ecotoxicology of chemical pollution on reproduction cells and haemolymph of Lithobiidae.
MAKSIMOVA, Radio & eco-biology of soil diplopods ; accumulation of radionucleides; monitoring of radioactive contamination.
NEFEDIEV, *Millipedes as bioindicators in urban territories.

E8- CYTOLOGY, CYTOGENETICS
BROCKMANN, Hemocytes of Scutigeromorpha.
FONTANETTI, Morphology, cytogenetics and taxonomy of Brazilian diplopod species, karyotypes.
MAKSIMOVA, Hematocytology of soil invertebrates.
NEFEDIEV, *Cytogenetics and taxonomy of Siberian myriapods; Karyotyping.

E9- MICROBIOLOGY
FRÜND, Soil microflora and myriapods.
KANIA, Microbiology of synanthropic millipedes.
SUSTR, Gut microbial methanogenic community in different phylogenetic lineages of millipedes.

F- REPRODUCTION, DEVELOPMENT, GENETICS

F1- GENITALIA , GENITAL TRACTUS, SEXUAL TRAITS
BROCKMANN, Oviparous onychophorans from Tasmania.
FORDE, Gonopodial variation in two millipede species on the Island of Barbados, *Orthoporus antillanus* and *Anadenobolus monilicornis*.

F2- EMBRYOLOGY, ONTOGENESIS
ARTHUR, Ecological and developmental genetics of segment number variation in Geophilomorpha.
BONATO, Ontogenetic mechanism of segmentation in Geophilomorpha. Variation in segment number.
DAVID, Effect of climate change on the development and life-history of millipedes.
DAVID, COULIS, Effect of climate change on soil macro- micro- organism interactions in Mediterranean forests.
MINELLI, LEWIS, Development and segmentation in centipedes.
MITIC, Epimorphosis and variation in segment number in geophilomorphs.
SERRA, Reproduction and post-embryonic development of lithobiomorph centipedes.
SIMAIAKIS, Diversity and geographic variation of leg pairs in centipedes in northwestern Europe.

SOMBKE, developmental stages of centipedes.
SUSTR, Morphological and quantitative changes during individual develmopment of giant millipede *Archispirostreptus gigas*.
TAIT, Egg shell structure and formation in Australian onychophorans. Embryonic development and ultrastructure in onychophorans.

F3- PARTHENOGENESIS
-

F4- PERIODOMORPHOSE
SAHLI, Diplopods, periodomorphosis in Julida.

F5- GENETICS, SEQUENCING & BARCODING
ARTHUR, The ecological developmental genetics of variation in segment number (Chilopoda).
BONATO, MINELLI, Geophilomorpha: functional morphology, evolutionary diversity, high-level classification; Variation in segment number.
GEOFFROY, GOLOVATCH, DEHARVENG, Contribution to the barcoding in Chinese, South-Asian and West-European cave-millipedes millipedes.
MEDRANO, Genetic drift in Island population of the Atopetholidae and Parajulidae (Julida) millipedes.
SIMAIAKIS, PACHI, POULIKARAKOS, PARMAKELIS, Investigating the phylogeography and population genetic structure of *Scolopendra cretica* Attems, 1902 (Chilopoda, Scolopendridae) in the Island of Crete.
SPELDA, Barcoding of myriapods of Bavaria for Barcoding Fauna Bavarica.
SPELDA, WESENER, GBOL-Barcoding Myriapoda from Germany.
STOEV, Barcoding of millipedes and centipedes.
TAIT, population genetics in Onychophorans in Southeastern Australia.
WESENER, GBOL-Barcoding myriapoda from Germany.
WESENER, Genetic diversity and relationships of the Austrian *Scolopendra* centipede population.
A first integrative redescription of *Eupeyerimhoffia archimedis* (Strasser) and genetic distances in the Protoglomeridae (Diplopoda, Glomerida).
*Genetic diversity of the widespread western European pill-millipede and model organism *Glomeris marginata* (Diplopoda, Glomerida).
*Rediscovery and first sequence data of *Propolydesmus germanicus* Verhoeff (Diplopoda, Polydesmida).

G- ECOLOGY & BEHAVIOUR

G1- ETHOLOGY BEHAVIOUR & BREEDING
ADAM, Keeping and breeding of Tropical/Subtropical large myriapods in terraria.
KANIA, Urban fauna of millipedes.
LINDNER, Keeping and breeding, behaviour of centipedes.
MAHSBERG, Ethology of Tropical millipedes.
MITIC, Parental care in geophilomorphs.
MÜLLER, Behaviour of Myriapoda from the Western Mediterranean and Adriatic Sea.
SAHLI, Mass appearences and mass migrations.
TUF, Defensive behaviour of millipedes.

G2- TOXICOLOGY, DEFENCES, VENOMS
HUTH, chemical ecology of millipedes.
MAKAROV, ANTIC, MITIC, and Coll., Millipede defense glands and secretions.
MASHBERG, biological function of defensive secretions in millipedes.
MÜLLER, Bactericidal substances in Chilopoda, secretion products of epidermal exocrine glands.
TANABE, Defensive secretions in Japanese millipedes.
WESENER, *First analysis of the defence fluids of the millipede order Siphonocryptida.
*A colourful mimicry ring involving poisonous millipedes and non-poisonous giant pill-millipedes and snakes on Madagascar.

G3- ECOLOGY: POPULATIONS & COMMUNITIES; ECOPHYSIOLOGY
ABROUS-KHERBOUCHE, Ecology and population densities of millipedes and centipedes in Algeria.
ALAGESAN, Effect of food quality in millipedes, role of millipedes in solid waste recycling and decomposition of litter.
ARTHUR, Ecological genetics and developmental genetics of variation in segment number (Chilopoda).
BACHVAROVA, Ecology and conservation of Myriapoda (Chilopoda, Diplopoda).
BAUMEISTER, Ecology of millipedes in USA.
BLACK, Ecological damage by the Black Portuguese millipede.
DAVID, Ecology of millipede populations and communities in temperate and mediterranean forests.
DUNGER, Soil communities and successional populations in soil habitats.
DYACHKOV, Ecofaunistic studies of millipedes in Tigirek State Nature Reserve, Russian Altai.
*Ecofaunistic studies of millipedes in the South of Altai Province.
ENGEL, Faunal comparison of spruce, beech and mixed stands forests in Bavaria.
FLOREZ DAZA, Millipede populations from Colombia.
FONTANETTI, Ecophysiology and ecotoxicology of Brazilian millipedes.
FRÜND, Association between *Lithobius forficatus* and woodlice in compost heaps.
GARCIA RUIZ, Population ecology and communities (Chilopoda, Diplopoda) in Peninsula Iberica and Islands Canarias and Baleares.
GEOFFROY, Population ecology and communities (Diplopoda, Chilopoda) in temperate ecosystems (France).
GRGIC, KOS, Influence of forest management and forest stand structure on population dynamic and species biodiversity of centipedes.
HAGINO, *Ecological distribution of Japanese pauropods.
HAMER, SLOTOW, Savannah millipedes ecology and conservation, forest millipede biogeography in South-Africa.
HAUSER H, Ecology of diplopods.
HORNUNG, Spatial & temporal patterns of diplopod populations in different habitats. Establishment of introduced/exotic soil macrofauna species.
ION, Centipede populations on hillock cliffs in the different stages of vegetation cover development. Comparative studies on centipede fauna from urban and periurban greens of Bucharest (Romania).
KIME, Ecology of forest millipedes in the Atlantic zone of Europe.
KOKHIA, Ecology of myriapod communities in Georgia.

KOKHIA, KONDEVA, *Soil mesofauna in high mountain meadows and pastures in Georgia.
KONDEVA, Millipedes populations in litter of xerothermic oak forests in Bulgaria, millipedes (Diplopoda) in anthropogenic-influenced habitats.
KOS, Biodiversity and ecology of chilopods.
LESNIEWSKA, Centipede and millipede communities of forests in Poland. Phoretic relationships berween Acari and centipedes; Effect of urbanization on centipede communities.
LINDNER, Centipedes and millipedes of urban ecosystems.
LOCK, Chilopoda of the grindbanks of the Meuse ; communities in the woodlands of Flanders.
MAHSBERG, Chemical ecology of tropical millipedes.
MAKSIMOVA, Radioecology & biology of soil invertebrates ; Monitoring of radioactive contamination.
MEYER, Communities of soil animals ; soil forming process along an altitudinal transect (central Alps on bedrocks , Stubai Alps) ; *Millipeds as colonizers in a glacier retreat area (Ötztal Alps).
MIKHALJOVA, Diplopoda of the Asian part of Russia, and adjacent countries.
MOCK, Diplopoda in secendary succession in spruce forests after windstorm; Diplopoda in the nests of birds and mammals.
NEFEDIEV, Eco-faunistic investigations of myriapods in western Siberia; *Life-cycles of Siberian millipedes.
NEFEDIEVA, Eco-faunistic investigations of millipedes in Altai; *Diplopods of Altaj-Sayan Mts System.
NEGREA, IANC, Centipede fauna of Romania.
NEGREA, ILIE-TENCUSE, Centipedes from Romanian forests.
NGUYEN DUC, Ecology of Diplopoda in Vietnam.
OZANOVA, Population and community ecology of Diplopoda (Czech Republic); *successional row of floodplain forest.
SAHLI,. Mass migrations of diplopods.
SERRA, Population ecology of myriapods (Chilopoda, Diplopoda) in Spain.
SNYDER, Ecology of North American millipedes; Ecology of prairie millipedes.
SIMAIAKIS, PAPASTEFANOU, The effect of urbanisation in centipedes.
STASIOV, Distribution of myriapod communities of the West Carpathians.
TAJOVSKY, Millipedes and centipedes in natural and man-impacted habitats; impact of different management practices on millipedes and centipedes in differently managed forests and agricultural landscapes. Millipede assemblages in Alpine and mountain habitats (under climate and soil chemistry changes).
TANABE, Morphological and reproductive isolation in Japanese millipede populations.
TRACZ, Soil fauna in natural and anthropogenic forest ecosystems in Poland: Diplopoda, Chilopoda, Isopoda. Zooindicators, monitoring and valorisation.
TUF, Centipedes and millipedes vs. Ecological agriculture.
VAGALINSKI, Ecology of Diplopoda.
VOIGTLÄNDER, Populations and communities of myriapods in Germany.
WONGTHAMWANICH, Population ecology of the giant pill-millipede *Zephronia siamensis* Hirst, 1907 at Sichang Island, Chomburi Province.
WYTWER, Myriapod assemblages of lowland forests and the Carpathian Mountains. Ecology of soil myriapods.
ZAPPAROLI, Ecology of centipedes in natural and artificial Mediterranean forest habitats.
ZULKA, VOIGTLÄNDER, Myriapods of Hainich National Park (Germany).

G4- BIOSPELEOLOGY

ANTIC, New genera of troglobitic Trichopolydesmidae from Balkan Peninsula. Chemoecology of cave-dwelling julids from Serbia.
GARCIA RUIZ, *Cave-dwelling myriapods from Peninsula Iberica, Canary Islands, Baleares, Europa and Morocco.
GEOFFROY, millipedes and centipedes from caves in France, Brazil, China, South-East Asia, Vanuatu.
GOLOVATCH, Cave-dwelling diplopoda of the world.
GOLOVATCH, GEOFFROY, VANDENSPIEGEL, Cave-dwelling diplopods from China, Laos, Vietnam, Indonesia, Vanuatu.
ILIE-TENCUSE, Chilopoda from subterranean environment from the Western part of Romania.
MAKAROV, Cave-dwelling diplopods of Serbia, Macedonia, Montenegro.
MOCK, Myriapoda in caves and MSS of the west Carpathians. Taxonomy of cavernicolous millipedes Blaniulidae, Haaseidae, Trichopolydesmidae. Genus *Hungarosoma* (Anthroleucosomatidae) distribution, taxonomy.
NEGREA, Cave, MSS and deep-soil centipedes (Romania, Israël, Cuba, Venezuela).
REBOLEIRA, Deep cave diplopods.
REBOLEIRA, ENGHOFF, Cave-dwelling millipedes. New genus of Chordeumatida from Portugal.
SHEAR, Cave-dwelling millipedes.
STOEV, Revision of Bulgarian cave chilopods and diplopods with remarks on other Balkan species; Callipodids from Chinese and Vietnamese caves.
WESENER, *New cave Glomeridesmida from Brazil. *Like ghosts in the dark - Spanish troglobite pill-millipedes (Diplopoda, Glomerida).
ZAPPAROLI, Cave centipedes in Mediterranean area.

G5- PARASITOLOGY

ENGHOFF, SANTAMARIA, Ectoparasitic fungi (Laboulbeniales) on millipedes.
SPIRIDONOV, Nematoda as diplopod parasites; the study of cephalic ends of nematodes parasitic in hind gut of Tropical millipedes (Diplopoda); Nematodes of the genera *Carnoya* (from *Anadenobolus* collected in Guadeloupe), Heth, *Travassosinema* (from *Trachelomegalus*, Cambodia), and other cases; *Sequencing of D2D3 LSU rDNA of nematodes from Tropical diplopods and other arthropods; *Phylogenetic analysis of sequences. *Studies in parasitic nematodes from the hindgut of Tropical Diplopoda collected on Mindanao, Philippines (Cooperative project with Iligan Institute of Technology and Central Mindanao University).

H- SYSTEMATICS & FAUNISTICS, BIODIVERSITY

H1- MONOGRAPHIES, ATLASES, FAUNAS, CATALOGUES, CARTOGRAPHY, MUSEOGRAPHY

ABROUS-KHERBOUCHE, Myriapods of Algeria.
ANDERSSON, Chilopod fauna of Sweden.
BERG, Distribution Atlases of Dutch centipedes and millipedes. New Diplopoda key for The Netherlands.
BONATO, Geophilomorpha: phylogeny and evolution of feeding apparatus, comparative morphology and phylogeny.
BONATO, MINELLI, PEREIRA, World-wide diversity and catalogue of world Geophilomorpha.
CHAGAS-JUNIOR, New World *Scolopendra* catalogue.
CEUCA, Diplopoda from Romania.
DANYI, Monography of centipede fauna of Hungary.
DI GIOVANNI, Diplopoda from Italy: taxonomy & faunistics.
DUNGER, Soil fauna.
ENGHOFF, Fauna Europaea, Myriapoda.
FLOREZ DAZA, catalogue of Myriapods of Colombia.
FORDE, Centipedes and millipedes of the Island of Barbados.
GEOFFROY, systematics and biogeopgaphy of Diplopoda & Chilopoda of France. Checklists of myriapods in France.
GEOFFROY, KIME, Atlas of French millipedes.
GEOFFROY, IORIO, Atlas of French centipedes.
GRUBER, Faunistics of Diplopoda in eastern Austria: Glomerida and Chordeumatida.
HAMER, South-African Sphaerotheriids.
ILIE-TENCUSE, Catalogue of Romanian centipedes; Chilopoda from edaphic environment from the Western part of Romania.
ION, Checklist of Chilopoda from south-east part of Romania (historical province Muntenia) with special attention to plain ecosystems. *Centipede species in alpine protected areas in Romania.
IORIO, GEOFFROY, Distribution atlas of French centipedes, with ecological preferences of each species and their conservation value.
KHANNA, Revisionary studies on the centipedes of India (Chilopoda: Scolopendromorpha).
KIME, Study of Aquitaine (France) in particular, especially the Perigord-Limousin Natural Park. Detailed inventories, mapping and ecology. European myriapod atlases. Diplopod fauna of Belgium, Luxemburg, France, Spain, Portugal; *Publication of data supplied by the late Dr Eason.
KIME, ENGHOFF, Atlas of European millipedes, Volumes 2 Julida-3 Chordeumatida.
KOCOUREK, Millipedes of the Czech Republic.
KORSÓS, Taxonomy and zoogeography of Hungarian millipedes (Fauna Hungariae): identification book. Chinese, Taiwanese and East asiatic millipedes, new species of the genera *Anaulaciulus* and *Nepalmatoiulus*. *Sphaerodesmidae and *Cleidogona* from Chiapas, Mexico.
LEE, *Identification guides to UK millipedes.
LOCK, Preliminary Atlas of the Chilopoda of Belgium – checklist of the same.
MAURIES, Chordeumatida from the Peninsula Iberica: Galicia and northern Portugal. Millipedes of French Guyana and West Indies (Martinique) Mission Muséum-Antilles.
MAURIES, KIME, READ, Diplopoda from Peninsula Iberica (Galicia).
MAURIES, SERRA, Description, ecology, ontogeny of two new genera of edaphic micro chordeumatid diplopods from Catalunya (Espana).
MERCURIO, Catalogue of Centipedes from USA, Canada and Greenland.
MIKHALJOVA, Diplopoda of russian FarEast & Siberia.
MINELLI, Fauna Europaea Project (Chilopoda: Scolopendromorpha, Geophilomorpha).
MOCK, Diplopoda in Slovakia and western Carpathians.
NEGREA, IANC, Centipede fauna of Romania.
NEGREA, Catalogue to the Chilopoda fauna from Israel and adjoining areas.
READ, Siphonophorida from Brazil; *Cylindroiulus* from Spain. *Update of Synopsis of British Fauna.
SCHELLER, Catalogs of Pauropoda and Symphyla of the World. European cheklists of Pauropoda and Symplyla (Fauna Europaea).
SCHILEYKO, Scolopendromorpha of Puerto Rico, Venezuela, *West Papua.
STAGL, Myriapoda in Naturhistorisches Museum Wien.
SERRA, Fauna Iberica Myriapoda.
SHELLEY, Nomenclator Generum et Familiarum Diplopodorum III & Chilopodorum III. Mapping of diplopod orders and families. *Mappings of chilopod orders, second edition of North American Scolopendromorpha.
SHELLEY, MARTINEZ-TORRES, The millipede fauna of Alaska, USA, northern British Colombia.
SIMAIAKIS, The species-area relationships and the small island effect for centipedes: comparison between Mediterranean island groups.
SPELDA, Millipedes and centipedes of Southern Germany.
STAGL, Publication of types catalogues; Type catalogue of the Lithobiomorpha and Geophilomorpha colletion in the Natural History Museum in Vienna.
STOEV, BERON, Catalogue of Bulgarian centipedes, Catalogue of the Scutigeromorpha of the world.
TAJOVSKY, Faunistics: Czech Republic, Slovakia, Poland - Diplopoda and Chilopoda.
TSURUSAKI, Checklists of millipedes of Matsuyama City (Ehime Prefecture, Shikoku, Japan).
TUF, Identification-key of Czech centipedes. * Fauna of centipedes of Czech Republic.
TUFOVA, Inventory of millipedes in Czech areas.
VANDENSPIEGEL, Diplopoda of Kenya. *Revision of the genus *Sphaerotherium*.
ZAPPAROLI, Fauna Europaea Project (Chilopoda: Scutigeromorpha, Lithobiomorpha). Catalogue of the centipedes of Greece, Catalogue of the centipedes of Turkey.
WESENER, Catalogue of Sphaerotheriida.

H2- REVISIONS, TAXONOMY, SYSTEMATICS, PHYLOGENY, BIOGEOGRAPHY

AKKARI, Taxonomy and Phylogeny of millipedes (Julida). Taxonomy of Myriapoda (Diplopoda, Chilopoda) from Tunisia.
AKKARI, ENGHOFF Revision of *Ommatoiulus*.
ANTIC, Taxonomy, biogeography, phylogeny and faunistics of cave- and soil- dwelling centipedes and millipedes.
BACHVAROVA, Taxonomy and biogeography of Myriapoda (Chilopoda, Diplopoda) in Bulgaria.
BANO, Systematics of the fam. Harpagophoridae & Paradoxosomatidae (South-India).
BARBER, Key to British centipedes, checklist and fauna.
BUENO-VILLEGAS, Phylogeny of the Rhachodesmidae family; Myriapodofauna from cloud mountain, pine and oak forest at Mexico.

BONATO, Genus *Strigamia*: taxonomy, phylogeny and evolution.
BOND, Rhinocricidae, molecular and morphological data for systematics.
BROCKMANN, Taxonomy of the oviparous onychophorans of Tasmania.
BURMESTER, Structure, function and evolution of arthropod hemocyanins. Phylogeny of the Arthropoda.
CAR, Keeled millipedes (Paradoxosomatidae) in New South Wales, Australia.
CHAGAS-JUNIOR, Revision of the Neotropical species of Scolopocryptopinae; Revision of Scolocryptopinae from Africa, Asia and Melanesia. *Key to Scolopendromorpha genera in western hemisphere; *About genus *Cormocephalus* in Carribean and South America; *Revision of the genera *Tidops*, *Ectonocryptops* and *Kartops*.
CHANG, Systematics and biogeography of myriapods of Taiwan, Southeast Asia and Southern China.
CHAO, Taiwanese centipedes, Chilopoda.
CHEN, Taxonomy and phylogenetic relationships of diplopods of Taiwan.
DANYI, Taxonomy of centipede fauna of Hungary.
DECKER, Taxonomy of Platydesmida in Southeast Asia; taxonomy of Paradoxosomatidae in Australia.
DOHLE, Phylogeny of Arthropoda, relationships between hexapods, crustaceans and myriapod groups.
DOMINGUEZ-CAMACHO, Phylogeny and taxonomy of the Symphyla.
DJURSVOLL, Distribution of *Polydesmus coriaceus*.
DYACHKOV, Biodiversity of millipedes in the South of Altai Province.
ENGHOFF, HANSEN, *Inter-mountain variability of spirostreptitae in the Eastern Arc Mts, Tanzania.
ENGHOFF, Revision of Odontopygidae in Uszungwa Mts, Tanzania
ENGHOFF, HOWELL, checklist of Tanzanian millipedes.
ENGHOFF, PETERSEN, SEBERG, Systematic position of genus *Pteridoiulus*.
GARCIA RUIZ, Taxonomy, distribution and ecology of chilopods in Peninsula Iberica, Canary Islands, Baleares and Morocco.
GEOFFROY, Systematics & biogeography of Diplopods and Chilopods from France, Western Europe, Brazil, China, South-east-Asia, Vanuatu (Espirito Santo), Clipperton Island.
GIRIBET, Biogeopgraphy and phylogeography of Chilopoda Scutigeromorpha, Craterostigmomorpha, Scolopendromorpha.
GIRIBET, Phylogeny and biogeography of Symphyla and Pauropoda.
GOLOVATCH, Taxonomy and revisions: millipedes of Asia (China, Vietnam, Laos, Indonesia...), America (Brazil...), Africa ...: mainly Polydesmida, Glomerida, Spirostreptida....
GOLOVATCH, HAMER, Polydesmida from South Africa, with identification keys.
HAGINO, Taxonomy of Japanese and adjacent areas: Pauropoda.
HAMER, Review and assessment of a millipede community of a savannah habitat in South Africa, with description of six new species.
HAMER, VOHLAND, Review of the millipedes of Namibia.
HUTH, Defensive secretions : chemotaxonomical approach to systematics (millipedes).
HUTHER, Revision of "common" species of Paupopoda and Symphyla.
IORIO, Morphology and taxonomy of French centipedes.
IORIO, GEOFFROY, Ecology, biogeography and conservation value of Frech centipedes; first list of threatened species of France.
IORIO, GEOFFROY, ZAPPAROLI, Centipedes from the Mercantour (French Alps).
ISHII, Taxonomy, ecology and biogeographic distribution of Myriapoda in Asia.
JORGENSEN, Taxonomy of Polydesmida in USA.and Caribbean area.
KIME, Biogeography and ecology of Millipedes in the Atlantic zone of Europe. Inventories at sites in the Dordogne and the Parc Naturel Régional Périgord-Limousin (France).
KORSOS, Millipedes (Julidae, Polydesmidae, Xystodesmidae) of the Ryukyu Archipelago, Japan; Diplopoda Fauna of Hungary and the Carpathian Basin; *Diplopoda (Polyzoniida, Siphonocryptida, Platyrhacidae) from Palau, Pacific Ocean.
KOS, Biodiversity and taxonomy of centipedes in the Balkan region.
LEE, Status review of Myriapoda in Britain. INCN Red List assessment of Myriapoda in Britain.
LEWIS, Taxonomy of scolopendromorph centipedes.
LIKHITRAKAN, Diplopoda of Thailand.
LIM, Korean Diplopoda, taxonomy.
LINDNER, Ecology and biogeography of centipedes (and millipedes) in Germany.
MAKAROV, MITIC, Diplopoda of Serbia, Montenegro, Macedonia, Crete.
MAURIES, taxonomy on millipedes from Spain, France, French Guyana, West Indies (Martinique); New *Chamaesoma* from Catalunya.
MEDRANO, Revision of the Atopetholidae (Spirobolida) from the Southwestern United States and Northern Mexico.
MESIBOV, Taxonomy and biogeography of Australian-Tasmanian myriapods.
MIKHALJOVA, Review and distribution of diplopods from Siberia, Russian Far East.
MÜLLER, Taxonomy, distribution of Myriapoda from the Western Mediterranean and Adriatic Sea.
MWABVU, Millipedes of southern Africa, botswana, Zimbabwe.
NEFEDIEV, Eco-faunistic investigations of myriapods in Western Siberia, Altaj Mts.
NEFEDIEVA, Eco-faunistic investigations of millipedes in Altaj Mts. *Diplopods of Altaj-Sayan Mts System.
NEGREA, Revision of centipede collections of Z. Matic (Cluj) and S. Negrea (Bucharest).
NGYEN DUC, Taxonomy and diversity of millipedes (Diplopoda) in Vietnam. *Key to tribes of Paradoxosomatid millipedes, Polydesmidae and Xystodesmidae families in Vietnam.
NGUYEN DUY - JACQUEMIN, Identification of Penicillata.
PEREIRA, Nearctic, Neotropical and African geophilomorphs.
PIERRARD, taxonomy of African Odontopygidae.
PIMVICHAI, ENGHOFF, Harpagophoridae of Thailand, phylogeny of the genus *Thyropygus*, * description and revision of *Thyropygus* spp.
REDMAN, Systematics and biogeography of the Southern African Harpagophoridae.
REID, Systematics of Onychophora.

REIP, Red list of German diplopods and chilopods; German hothause millipedes; millipedes of Iberian Peninsula and Slovenia.
RICHARDS, Taxonomy of Diplopoda from Sarawak (Malaysia).
ROSENBERG, SPELDA, VOIGTLÄNDER, Taxonomy of European centipedes. Database on chilopod literature on behaviour, ecology, evolution, function, physiology, structure, systematics.
RUHBERG, Cryptic speciation in South African Peripatopsidae; description of new taxa from Tasmania and New Zealand (Onychophora; Peripatopsidae).
SCHELLER, Pauropoda & Symphyla of the world.
SCHILEYKO, New species of *Newportia* from Puerto Rico with a new contribution to the genus; Contribution to the fauna of the scolopendromorph centipedes of Venezuela; *first record of Scolopendromorpha from West Papua.
SERRA, Chilopoda , taxonomy and ecology of lithobiomorphs.
SHEAR, Revision of Trichopetalidae, chordeumatids from China, new *Bueothobius* centipeds, new species of *Pseudotremia* and *Cleidona*, new genera ans species of Caseyidae. *Revision of Striariidae; revision of *Schedotrigona*.
SHELLEY, Revisions of Parajulidae (Aniulini, Gosiulini, Ptyoiulinae, Bollmaniulini, etc.); Biogeography of the order Polydesmida, revision of Pandirodesmus (Chelodesmidae), Cretaceous influences on modern diplopod distribitions.
SHELLEY, MARTINEZ-TORRES, Systematics and taxonomy of millipedes family Platyrhacidae in New World and Old Worlds.
SHORT, HUYNH, Systematics of Polyxenida in Australia.
SIERWALD, Systematics on various groups; cladistic analysis on millipedes families.
SIMAIAKIS, PACHI, POULIKARAKOS, PARMAKELIS, Investigating the phylogeography and population genetic structure of *Scolopendra cretica* Attems, 1902 (Chilopoda, Scolopendridae) in the Island of Crete.
SIMAIAKIS, STRONA, Species diversity components and spatial patterns conveyed by presence-absence data : the example of European centipedes (Myriapoda : Chilopoda).
SNYDER, Taxonomy of North American millipedes.
SOMBKE, MÜLLER, Taxonomy, distribution, and behaviour of Myriapoda from the Western Mediterranean and Adriatic Sea.
SPELDA, Taxonomy, ecology, biogeography of diplopods and chilopods in Germany. Revision of the family Craspedosomatidae.
SPELDA, GOLOVATCH, Revision of *Elongema*.
SPELDA, GOLOVATCH, MEIDELL, Revision of Polydesmidae from Central Asia.
SPICER, Systematics of California, USA, centipedes.
STOECKLI, Species of Switzerland and Middle Europe (Chilopoda). Faunistics, systematics, taxonomy. Checklist of Swiss centipedes.
TABACARU, Taxonomy and biogeography of Diplopoda from Romania, Turkey, Israël, Lebanon, Cuba, Venezuela.
TAIT, *Description of cryptic species of Onychophorans in Australia.
TAJOVSKY, Faunistic studies in the Czech Republic (Diplopoda, Chilopoda).
VAGALINSKI, Taxonomy, phylogeny and biogeography of Diplopoda. Revision of the millipede tribe Brachyiulini. Millipede fauna of Cyprus. Review of the genus Typhloiulus in the Balkans. Description of a new julid genus from Turkey.
VAHTERA, EDGECOMBE, GIRIBET, Molecular and morphological phylogenetics of Scolopendromorpha.
VANDENSPIEGEL, *Revision of the genre *Sphaerotherium* ; Study of millipedes from Taita frorest Hills (Kenya).
VANOAICA, Diplopods from Romania.
WESENER, Systematics of Malagasy Sphaerotheriida; Spirobolida, Spirostreptida.
WONGTHAMWANICH, Species diversity of giant pill millipdes (Sphaerotheriida: Zephroniidae) in Klongsaeng Wildlife Sanctuary, Surat Thani Province; *Species diversity of pill-millipedes in order Glomerida in Thailand.
WÜRMLI, Revision of world Scutigeromorpha; new species of *Thereuonema* from the Socotra Island; the Scutigeromorpha of Russia and adjacent countries; revision of the African Pselliodids; Scutigeromorpha from Taiwan.
ZAPPAROLI, Faunistics and biogeography of centipedes in Mediterranean islands; *Lithobiidae of Nearctic Region; Revision of the *Lithobius* (*Ezembius*).

I- PALEONTOLOGY, FOSSILS

EDGECOMBE, Chilopoda from Mezozoic and Cenozoic ambers.
HANNIBAL, Fossil diplopods: studies on Carboniferous millipedes : Sternal pores of euphoberiid diplopods.
SELDEN, Fossil millipedes from USA
SELDEN, SHEAR, Description of new Cretaceous diplopods from the Las Hoyas fossil Lagerstätte of Spain.
SHEAR, Paleozoic fossil Myriapods.
SOMBKE, Fossil myriapods, amber.

J- DISTRIBUTION

J1- AMERICA: Northern Neartic America to Mexico

Generalities
SHELLEY, Synopsis of North American Scolopendromorpha and Diplopoda.
Canada
SHELLEY, Millipede fauna of British Colombia.
MERCURIO, Centipedes.
Greenland
MERCURIO, Centipedes.
Mexico
BUENO-VILLEGAS, Myriapod fauna.
CHAGAS-JUNIOR, *Scolopendromorpha.
MEDRANO, millipedes of North Central Mexico.
CHAGAS-JUNIOR, *Scolopendromorpha.
USA
HANNIBAL, Fossil diplopods
JORGENSEN, Taxonomy of polydesmids.
McALLISTER, Myriapods.
MEDRANO, Millipedes of the southwestern United States.
MERCURIO, Centipedes.
SANTIAGO-BLAY, Millipedes.
SCHELLER, Pauropoda.
SHEAR, Millipedes.
SHELLEY, Millipede fauna of Alaska:
SNYDER, Distribution: millipedes of North America.
SPICER, Centipedes of California.

WESENER, First integrative study of the identity and origins of the British Dwarf Pill- Millipede populations *Trachysphaera* cf. *lobata* (Diplopoda, Glomerida, Glomeridae).
WESENER, Ancient biogeographic patterns and parallel evolution of invertebrate gigantism in SE Madagascar - A case study of the chirping giant pill- millipede genus *Sphaeromimus* (Diplopoda, Shpaerotheriida, Arthrosphaeridae).
Revision of the Termitodesmidae, the only obligate insectophilous millipede family (Diplopoda, Glomeridesmida).
Redescription of "*Polyzonium*" *malagassum*, a first record of a member of the order Siphonophorida from madagascar (Diplopoda).
*Deep phylogenetic splits and multiple ecotone shifts in the SE Malagasy endemic millipede genus *Riotintobolus* (Diplopoda, Spirobolida, Pachybolidae).
*Rediscovery of a golden pill-millipede *Glomeris aurita* Koch, 1847, a high-mountain endemic (Diplopoda, Glomerida).
WESENER, BLANKE, Head endoskeleton, mouth parts and millipede orders phylogeny.
WESENER, MORETTI-INIESTA, FERREIRA, Basal-most chilognath Glomeridesmida. Platydesmids from South America.

J1'- AMERICA: Central and South; Neotropical and Southern Americas
Argentina
PEREIRA: Chilopoda Geophilomorpha.
Barbados
FORDE, Centipedes and millipedes.
Brazil
CHAGAS-JUNIOR, Scolopendromorpha. Revision of Neotropical species.
GEOFFROY, MAURIES, Cave-dwelling millipedes, revision and cave speciation of Brazilian millipedes.
PEREIRA, SCHILEYKO & MINELLI, Amazonian centipedes.
READ, Siphonophorida.
SCHELLER, Pauropoda & Symphyla.
WESENER, *New cave Glomeridesmida.
Chile
SPELDA, *Millipedes and centipedes of the Scientific Stations Huinay and Guarello.
Clipperton Island
GEOFFROY, *Myriapods collected during the French expedition 2004/2005.
Colombia
CHAGAS-JUNIOR, Centipedes: Scutigeromorpha and Scolopendromorpha.
FLOREZ DAZA, Catalogue of Myriapods.
Cuba
NEGREA, Chilopoda: cave and soil.
TABACARU, Diplopoda.
Ecuador
PEREIRA, MINELLI, Amazonian centipedes.
French Guyana / Guyane française:
MAURIES, Diplopoda Chilognatha.
Peru
SPELDA, *Millipedes and centipedes of the Scientific Station Panguana.
Puerto Rico
SCHILEYKO, Scolopendromorpha
Venezuela
CHAGAS-JUNIOR, Scolopendromorpha.
NEGREA, Chilopoda: cave and soil.
SCHILEYKO, Scolopendromorpha
TABACARU, Diplopoda.
West Indies / Antilles
MAURIES, Diplopoda, Martinique.

J2- AFRICA, MEDITERRANEAN & PALEOTROPICAL AREAS
Algeria
ABROUS-KHERBOUCHE, Diplopods.
Marocco
-
Tunisia
AKKARI, Taxonomy of Myriapoda (Diplopoda, Chilopoda).
VOIGTLÄNDER, AKKARI, XYLANDER, Commented checklist and key of myriapods.

J2'- AFRICA, ETHIOPIAN & SOUTHERN AREAS
Botswana
MWABVU, Diplopods
Egypt
-
Ivory Coast
BOURDANNE KADEBE, Distribution of millipedes.
Kenya
VANDENSPIEGEL, Diplopoda.
Madagascar
PEREIRA, MINELLI, Geophilomorpha.
WESENER, First records of the order Siphonophorida on Madagascar (Diplopoda).
*(Integrative?) description of a colour dimorph species of the Malagasy endemic genus *Granitobolus* (Diplopoda, Spirobolida, Pachybolidae).
*Redescription of "*Spirobolus*" *sikorae* - a Malagasy Spirobellidae (Diplopoda, Spirobolida).
WESENER, LISCHKA, Spirobolida.
Mauritius
LEWIS, Scolopendromorpha.
Namibia
ZAPPAROLI, *Centipedes.
Reunion
SCHELLER, Pauropoda, Symphyla
Rwanda
SCHELLER, Pauropoda & Symphyla.
Senegal
TOURE, Myriapods.
Seychelles
LEWIS, Scolopendromorpha
South Africa
GOLOVATCH, HAMER, Polydesmida, taxonomy and identification keys.
HAMER, Checklist of Diplopoda.
PEREIRA & MINELLI, Chilopoda Geophilomorpha.
REDMAN, Systematics and biogeography of the Southern African Harpagophoridae.
RUHBERG, Onychophora.
ZAPPAROLI, *Centipedes.
Tanzania
ENGHOFF, HANSEN, HOWELL, Spirostreptid diplopods
Zimbabwe
MWABVU, Diplopods.

J3- AUSTRALO-PACIFIC
Australia

BROCKMANN, Taxonomy and distribution of the oviparous onychophorans of Tasmania.
CAR, Keeled millipedes in NSW (Polydesmida).
DECKER, Paradoxosomatidae.
EDGECOMBE, Taxonomy of Australian Scutigeromorpha.
JONES, Geophilomorph centipedes of Australasia.
MESIBOV, Myriapods of Tasmania.
RUHBERG, Australian and Tasmanian onychophorans.
SHORT, HUYNH, Biology and distribution of *Unixenus* species; Systematics of Polyxenida.
TAIT, *Description of cryptic species of Onychophora.
WESENER, Tasmanian Sphaerotheriida.

Hawai

ZAPPAROLI, Lithobiidae of lava tubes.

New Caledonia

-

New-Zealand

REID, Onychophorans.
RUHBERG, Onychophora.
SCHELLER, BARRATT, Pauropoda.

Palau

KORSOS, *Diplopoda (Polyzoniida, Siphonophorida, Platyrhacidae)

Papua

SCHILEYKO, *Scolopendromorpha

J4- ASIA: PALEARCTIC & PALEOTROPICAL

Afghanistan

STOEV, Centipedes collected by P. Beron.

Caucasus

TUF, Centipedes of Kazakhstan.
ZAPPAROLI, Lithobiomorpha.

China

CHANG, Systematics and biogeography of myriapods of Southern China.
CHAO, Chilopoda found in ancient Chinese publications.
ISHII, Penicillata from Yunnan Province.
GEOFFROY, GOLOVATCH, MAURIES, VANDENSPIEGEL, Millipedes from caves.
SHEAR, Chordeumatids.

India

ANTHONIAMMAL , Ecology of Diplopoda.
JOSHI, EDGECOMBE, Scolopendridae of India.
KHANNA, Revised key to the Indian species of scolopendrid centipedes.
WESENER, *Glomeridesmida, a diverse order of the Indian millipede fauna.
*Discovery of a first species of the millipede order Callipodida in India.

Indonesia

GOLOVATCH, GEOFFROY, VANDENSPIEGEL, Millipedes from caves.

Iran

SCHELLER, KAVIANPOUR, Pauropoda

Israel

NEGREA, Chilopoda: cave and soil.
TABACARU, Diplopoda.
ZAPPAROLI, Centipedes.

Japan

HAGINO, Pauropoda.
ISHII, Lithobiomorpha (*Lithobius Monotarsobius*).
KORSOS, Millipedes of the Ryukyu Archipelago.
SIMAIAKIS, KORSOS, Investigation on centipede fauna from Ryukyu Islands (Japan) : a consideration of species distribution based on the collection in the HNHM Budapest.
TANABE, Diplopoda Xystodesmidae.
TSURUSAKI, Checklists of millipedes of Matsuyama City (Ehime Prefecture, Shikoku, Japan).

Korea

GOLOVATCH, Review and distribution of diplopods.
LIM, Diplopoda, taxonomy.

Laos

GEOFFROY, GOLOVATCH, VANDENSPIEGEL, Millipedes from caves.
WESENER, New records of millipedes; First records of giant pill- millipedes (order Sphaerotheriida) from Laos.
WÜRMLI, Scutigeromorpha (*Thereuopoda*).

Lebanon

TABACARU, Diplopoda.

Malaysia

RICHARDS, Diplopoda from Sarawak.

Mongolia

MIKHALJOVA, Millipedes.

Nepal

SCHELLER, Euryporauporidae of the Nepal Himalayas.
WESENER, The giant pill- millipedes of Nepal.

Pakistan

KHATOON, Chilopoda & Diplopoda.

Philippines

DECKER, Myriapods.

Taiwan

CHAO, Chilopoda.
CHEN, Diplopoda from Taiwan.
GOLOVATCH, CHANG, Systematics and biogeography of myriapods of Taiwan.
WÜRMLI, Scutigeromorpha.

Thailand

DECKER, Myriapods, especially Platydesmida.
LIKHITRAKARN, GOLOVATCH, Diplopoda.
PIMVICHAI, ENGHOFF, Harpagophoridae.
SIRIWUT, EDGECOMBE, PANHA, Scolopendromorpha of Thailand.
WESENER, WONGTHAMWANICH, Giant pill millipedes, *Zephronia*, *Sphaerobelum*.

Singapore

DECKER, Myriapods.

Vietnam

GEOFFROY, GOLOVATCH, VANDENSPIEGEL, Millipedes from caves.
GOLOVATCH, NGUYEN DUC, Diplopoda.
NGUYEN DUC, Diplopoda of Ngolinh Mt, Central Vietnam; Diplopoda of Bidoup-Nui, Ba National Park.
SHEAR, callipodan millipedes.
WESENER, GOLOVATCH, Giant pill millipedes, *Zephronia*, *Sphaerobelum*, *Cryxus*, descriptions and sequencing.

J5- EUROPE: PALEARCTIC & MEDITERRANEAN

Austria

GRUBER, Faunistics of Diplopoda in Austria.
SPELDA, Millipedes and centipedes (Alps).

Belgium, Luxemburg & The Netherlands

BERG, Key for the Dutch centipedes; Distribution Atlases of Dutch centipedes and millipedes.
KIME, Myriapods of Belgium and Luxemburg.
LOCK, List, Atlas Chilopoda of Belgium. *Searching expected new species for the Belgian fauna.

Belarus

MAKSIMOVA, Fauna and ecology of soil invertebrates.

Bosnia Herzegovina

MOCK, Cave millipedes.

Bulgaria
BACHVAROVA, Taxonomy and biogeography of Myriapoda (Chilopoda, Diplopoda).
KONDEVA, Populations of millipedes in forests and in recreation zones.
STOEV, Review of Chilopoda from caves; myriapods from ant nests; myriapod fauna of Bulgaria.
VAGALINSKI, Review of the genus Typhloiulus in the Balkans.
Czech Republic
KOCOUREK, Millipedes.
TAJOVSKY, Diplopoda and Chilopoda.
TUF, Czech centipede fauna.
TUFOVA, Czech millipede fauna.
Croatia
MÜLLER, Taxonomy and phylogeny of myriapods.
SPELDA, Millipedes and centipedes (Alps).
Cyprus
SIMAIAKIS, VAGALINSKI, ENGHOFF, GOLOVATCH, STOEV, Millipedes of Cyprus.
SPELDA, Millipedes and centipedes.
VAGALINSKI, Millipede fauna of Cyprus.
ZAPPAROLI, *Centipedes.
Denmark
ENGHOFF, Myriapods.
France
GEOFFROY, Checklist, taxonomy, distribution and mapping of chilopods and diplopods.
GEOFFROY, KIME, Fauna Gallica Myriapoda, departemental records.
IORIO, Centipedes from France (epigeic and cavernicolous fauna) including Corsica and Monaco.
IORIO, GEOFFROY, Taxonomy, morphology and distribution of centipedes of France; Centipedes of the Mercantour.
KIME, Distribution; myriapods of the Parc Naturel Régional du Périgorg-Limousin, and all Aquitaine; Atlas of millipedes from France.
SPELDA, Millipedes and centipedes.
Germany
DECKER, Diplopoda and Chilopoda. Northrhine-Westphalia,. Red list of endangered diplopods and chilopods, greenhouses.
DUNGER, Soil fauna.
LINDNER, Geophilomorpha: distribution of selected species.
REIP, Red list of diplopods ans chilopods.
SPELDA, Diplopods and Chilopods: distribution of species especially in the Alps.
VOIGTLÄNDER, German polydesmids.
ZULKA, VOIGTLÄNDER, Myriapods of Hainich National Park.
Greece
SIMAIAKIS, Centipedes of South Aegean archipelago.
ZAPPAROLI, Centipedes.
Hungary
DANYI, Chilopoda.
KORSOS, Diplopoda.
Iceland
SCHELLER, Myriapods from Iceland and Feroe Islands.
Italy
DI GIOVANNI, Diplopoda.
MINELLI, Chilopod fauna.
SPELDA, Millipedes and centipedes (north).
ZAPPAROLI, Chilopoda.
Luxemburg
DECKER, Myriapods in dead wood.
Macaronesia & Canary Islands
ENGHOFF, Millipedes.
Norway
MEIDELL, ANDERSSON, SCHELLER, DJURSVOLL, Myriapoda of Scandinavian countries.
SIMAIAKIS, GEORGOPOULOU, DJURSVOLL, Modelling and predicting centipede distribution patterns in Norway.
Poland
KANIA, Diplopods in Poland.
LESNIEWSKA, Centipede and millipede communities.
TRACZ, Chilopoda & Diplopoda of forests.
WESENER, *The status of microendemic pill millipede species of the genus *Glomeris* in N. Italy (Diplopoda, Glomerida).
WYTWER, Centipedes of Carpathian Mountains.
Portugal
BLACK, Ecological damage by the Black Portuguese millipede.
GARCIA RUIZ, Taxonomy and distribution of Chilopoda; cave-dwelling centipedes.
MAURIES, KIME, READ, Millipedes from Peninsula Iberica.
REBOLEIRA, Cave-dwelling diplopods.
Romania
CEUCA, Diplopoda of the Danube Delta.
ION, Chilopoda of thge Muntenia province; *Centipedes of Glodeasa Forest, Cozia National Park, Bugeci National Park, Macin Mountains National Park, Sites of Community Importance.
NEGREA, ILIE-TENCUSE, Soil- and cave-dwelling centipedes.
TABACARU, VANOAICA, Diplopoda.
Russia
ANTIC, Anthroleucosomatidae of Caucasus
DYACHKOV, Millipedes of Altai Province.
FARZALIEVA, Taxonomy of centipedes.
MIKHALJOVA, Diplopoda of Far East and Siberia, Asian part of Russia.
NEFEDIEV, NEFEDIEVA, Diplopoda and Chilopoda of western Siberia; Myriapods of Altaj Mts.
SCHELLER, Symphyla, Pauropoda of Far East and Siberia.
ZAPPAROLI, Lithobiomorpha (Fauna of Caucasus).
Serbia
ANTIC, Cave-dwelling julids, chemoecology. Trichopolydesmidae from Balkan Peninsula.
MAKAROV, MITIC, and Coll., Diplopoda (Serbia, Montenegro, Macedonia).
Slovakia
MOCK, Diplopoda of Slovakia and Carpathians.
STASIOV, Myriapoda.
TAJOVSKY, Diplopoda and Chilopoda.
Slovenia
GRGIC, Centipedes and millipedes.
KOS, GRGIC, Centipedes.
REIP, Millipedes.
SPELDA, Millipedes and centipedes (Alps).
Spain
ENGHOFF, *Fauna Iberica, Diplopoda.
GARCIA RUIZ, Taxonomy and distribution of Chilopoda; Cave- and soil-dwelling centipedes.
KIME, Geographical ranges of Iberian diplopods.
MAURIES, KIME, READ, Millipedes from Peninsula Iberica.
MÜLLER, Taxonomy and phylogeny of myriapods of Ibiza.

NEGREA, Chilopoda: cave and soil, Majorca.
READ, *Cylindroiulus*.
REIP, SPELDA, Millipedes.
SAMMLER, VOIGTLÄNDER, STOEV, ENGHOFF, MÜLLER, Myriapods from Ibiza (Balearic Islands).
SERRA, Chilopoda Lithobiomorpha.
SPELDA, Millipedes and centipedes.

Siberia

MIKHALJOVA, Diplopoda of Far East and Siberia.
NEFEDIEV, NEFEDIEVA, Diplopoda and Chilopoda of western Siberia and Altai Mts.
SCHELLER, Symphyla, Pauropoda of Far East and Siberia.

Sweden

ANDERSSON, Chilopod fauna.
ANDERSSON, ENGHOFF, MEIDELL, Diplopoda & Chilopoda of Scandinavian countries.
SCHELLER, Pauropoda & Symphyla of Scandinavian countries.

Switzerland

SPELDA, Millipedes and centipedes (Alps).
STOECKLI, Chilopoda Checklist. Faunistics, systematics, taxonomy.

Turkey

ÖNAL-TUNC, Chilopoda from Sondiken Mountains.
TABACARU, Diplopoda.
VAGALINSKI, Description of a new julid genus.
ZAPPAROLI, Catalogue of Centipedes.

UK & Ireland

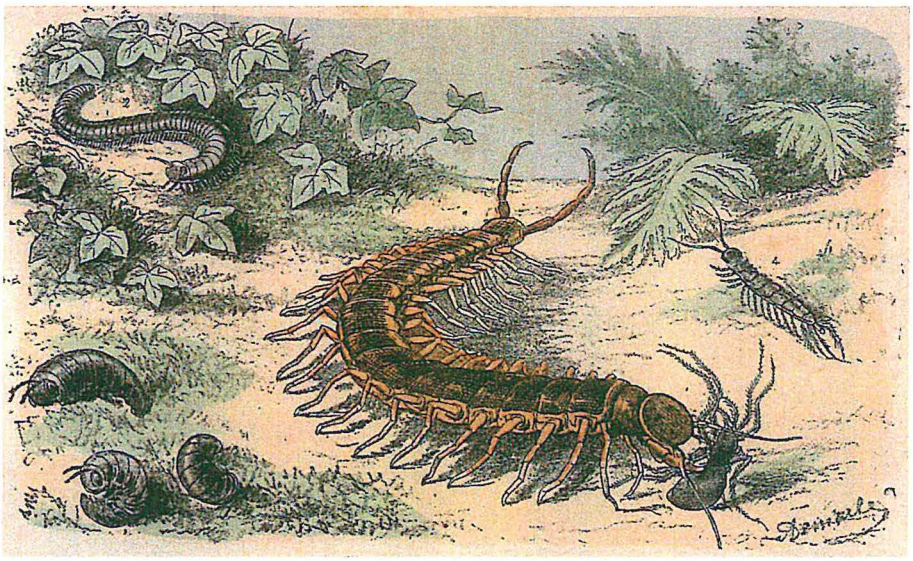
BARBER, Taxonomy and distribution of centipedes in UK.
BMIG, Myriapods of the British Isles.
GREGORY, Distribution of myriapods in UK.
JONES, Myriapods in UK.
KIME, Distribution of British and Irish millipedes; *Preparation of updated key to British millipedes.
LEE, British millipedes, distribution and ecology.
LEWIS, British centipedes and millipedes.
READ, British millipedes.
RICHARDS, Myriapods in UK.

Yugoslavia

MAKAROV, MITIC, and Coll., Diplopoda (Serbia, Montenegro, Macedonia).

K- COLLECTIONS

AKKARI, Collections of the Natural History Museum Vienna.
FLOREZ DAZA, Collections of Myriapods in Colombia
GEOFFROY, MAURIES, NGUYEN DUY - JACQUEMIN, Collections of Myriapods and Onychophorans, Museum national d'Histoire Naturelle, Paris (France).
HAUSER B, Collections of the Museum of Natural History of Geneva (Switzerland).
ILIE-TENCUSE, Catalogue of the Geophilomorpha species from the Cluj-Napoca Zoological Museum.
SIERWALD, International Catalogue of Myriapod Collections.
RÖHLIG, FRIEDRICHS, HAUSER, SPELDA, DECKER, LINDNER, DUNLOP, Documentation of myriapod collections, Zoologische Staatsammlung München. Schubart millipede collection in the Museum für Naturkunde, Berlin.
STAGL, Checklists of the Collections of Myriapods, Naturhistorisches Museum, Wien (Austria); Type catalogues of centipedes and millipedes.
STAGL, Catalogues of type material from the Natural History Museum from Vienna.
STOEV, Collections of Chilopods and Diplopods, National Museum of Natural History, Sofia (Bulgaria).
STOEV, BERON, Chilopod & Diplopod types in the collections of NMNH Sofia.
READ, Catalogue of type species of diplopods in the British Museum.
WESENER, Saving, sorting, adding and digitalizing the ZFMK collection.
XYLANDER, Collections and Museum of Görlitz (Germany)

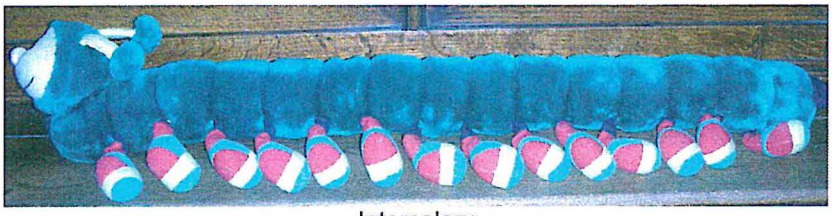


Myriapods in natura. After Rengade 1887

Rengade J. - 1887 - Myriapodes. In: *La création naturelle et les êtres vivants. Histoire générale du monde terrestre. Tome 2 Zoologie et races humaines* : 261-266.

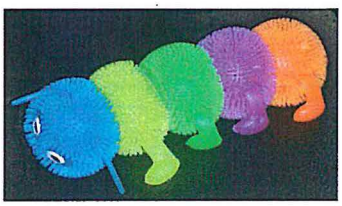
A Section of the CIM Myriazoo

Subadult



Intercalary

Day



Night

Mechanical

Onychofimo dormitorans n. g., n. sp.: The sleepy welvet worm

Onychofimo dormitorans n. sp. Habitus, latero-dorsal view. Fimo paste artist: Maëlle Hubert

Onychofimo dormitorans n. sp. Habitus, latero-ventral view. Fimo paste artist: Maëlle Hubert

WORLD DIRECTORY OF THE MYRIAPODOLOGISTS
Addresses and Specialities

Maintained by J.-J. Geoffroy, CIM Secretariat [MNHN, France]

The name is followed by address, telephone, fax, e-mail and by a formula indicating the specialities. This list comprises formal members of the CIM Society. Other researchers are usually working on myriapods or onychohorans throughout the world. If some of them are eager to become CIM members, please let us know and get in touch.

A	**Arthropoda**	**t**	**taxonomy - phylogeny - nomenclature**
M	**Myriapoda**	**a**	**anatomy - structure**
C	**Chilopoda**	**p**	**physiology**
D	**Diplopoda**	**o**	**ontogeny - development**
Dp	**Polyxenida**	**b**	**biology - behaviour**
P	**Pauropoda**	**e**	**ecology - ecophysiology - ecotoxicology**
S	**Symphyla**	**ag**	**agronomy**
O	**Onychophora**	**pa**	**parasitology - microbiology**
		**c**	**cytology - histology - cell-chemistry**
		u	**ultrastructure TEM SEM**
		n	**neurosecretion - endocrinology**
		f	**paleontology - fossils**
		bg	**biogeography**
		bs	**biospeleology - subterranean biology**

ABROUS-KHERBOUCHE Ourida ouridakherbouche@yahoo.fr
Université Houari Boumedienne Laboratoire d'Ecologie Animale BP 32 El ALIA-BAB EZZOUAR (Alger) Algeria
Tel +213 21 24 72 17 Fax +213 21 24 72 17 Active Member A C D t e

ADAM Timm timm.adam@evertebrata.de
Friedrichstrasse 1 D-67256 WEISENHEIM AM SAND Germany
Tel 00 49 6353 989972 Fax 00 49 6353 989742 Active Member A M D C b bg
http://www.evertebrata.de

AKKARI Nesrine nesrineakkari@gmail.com
Naturhistorisches Museum Wien A-1010 WIEN Austria
Tel Fax Active Member M t e

ALAGESAN Periyasamy maniragavi@redifmail.com
P.G.& Research Department of Zoology Yavada College MADURAI - 625 014 TAMIL NADU India
Tel +91 452 2681 767 Active Member D e

ANDERSSON Göran goran.a1@telia.com
Naturhistoriska Museet Box 7283S-40235 GÖTEBORG Sweden
Tel +46 31 27 25 57 Active Member C t e o

ANTIC Dragan Z. dragan.antic@bio.bg.ac.rs
Institute of Zoology Faculty of Biology University of Belgrade
Studentski Trg 16 11000 BELGRADE Serbia
Tel +381 64 55 11 028 Active Member C D t bg e bs

ARTHUR Wallace wallace.arthur@nuigalway.ie
Department of Zoology National University of Ireland GALWAY Ireland
Tel +353 91 492322 Fax +353 91 494526 Active Member C t o e b bg

BACHVAROVA Darina bachvarova_shu@abv.bg
Konstantin Preslavsky University of Shumen Faculty of Natural Sciences Department of Biology
115 Universitetska Str. 9700 SHUMEN Bulgaria
Tel +359 889 67 67 96 Active Member C D t e bg
http://shu-bg.net http://shu-bg.net/faculties/fpn/prepodavateli

BARBER Anthony D. tony@barber-jones.com
Rathgar Exeter Road IVYBRIDGE Devon PL21 0BD UK
Tel +44 1 752 305 084 Fax +44 1 752 305 003 Active Member C e b bg

BERG Matty P. m.p.berg@vu.nl
Institute of Ecological Science Dept Animal Ecology, Section Evolutionary Community Biology
Vrije Universiteit, de Boelelaan 1085 NL-1081 HV AMSTERDAM The Netherlands

Tel +31 20 598 7077 Fax +31 20 598 7123 Active Member M C t b e bg
http://www.bio.vu.nl/do/staff/mpberg.htm

BERON Petar beron@mail.bg
National Museum of Natural History Bulgarian Academy of Sciences
Boulevard Tsar Osvoboditel, 1 1000-SOFIA Bulgaria
Tel + 359 988 28 94 Active Member A (S) bs
http://www.cl.bas.bg/nmnh/

BONATO Lucio lucio.bonato@unipd.it
Università di Padova Dipartimento di Biologiavia Ugo Bassi 58b I-35131 PADOVA Italy
Tel +39 049 8277487 Fax +39 049 8276230 Active Member C t a o b f bg
http://biologia.unipd.it/lucio.bonato

BOND Jason E. JEB0037@auburn.edu
Auburn Natural History Museum Auburn University Biodiversity Learning Center
331 Funchess Hall AL 36849 USA
Tel 00 1 (334) 844-8713 Fax 00 1 (334) 844-9234 Active Member D p a t

BRITISH MYRIAPOD & ISOPOD GROUP BMIG BMG
C/o Helen READ 2 Egypt Wood Cottages Egypt Lane FARNHAM COMMON Bucks SL2 3LE UK
C/o Steve GREGORY Northnoor Trust, Little Wittenham HILL FARM, ABINGDON Oxon OX14 4QZ UK
Moral Member [Exchange Bulletins]

BROCKMANN Claudia claudia_brockmann@web.de
Savignystrasse 69 D-45147 ESSEN Germany
Tel +49 ??? Active Member O t a u

BUENO-VILLEGAS Julià milpatas@gmail.com milpatas@yahoo.com.mx
Laboratorio de Sistemática Animal, Centro de Investigaciones Biológicas Universidad Autónoma del Estado de Hidalgo
A.P. 69-1 Pachuca, Hidalgo Mexico
Tel +52 (771) 7172000 ext. 6659 Fax +52 (771) 717 2112 Active Member D C t b e bg

BURMESTER Thorsten burmeste@uni-mainz.de
Institut für Zoologie, Abt. II Universität Mainz D-55099 MAINZ Germany
Tel +49 6131 392 4477 Fax +49 6131 392 4652 Active Member A D C t
http://www.uni-mainz.de/FB/Biologie/Zoologie/abt2/thorsten.htm

CAR Cathy A. catherine.ann.car@gmail.com
Western Australian Museum 49 Kew St WELSHPOOL WA 6106 Australia
Tel. Fax Active Member D t e

CEUCA Delia dceuca@biolog.ubbcluj.ro deliaceuca@yahoo.fr
Universitate "Babes-Bolyai" Muzeul Zoologic Str. Clinicilor 5-7, RO-3400 CLUJ-NAPOCA Romania
Tel +40 740068236 Active Member D t e bg

CHAGAS-JUNIOR Amazonas amazonaschagas@gmail.com
Departamento de Biologie e Zoologia Instituto de Biociências Universidade Federal de Matto Grosso
Av. Fernando Correa da Costa, 2367, Boa Esperança CEP 78060-900 CUIABÁ - MT Brazil
Tel Fax Active Member C t

CHALUPSKY Josef josef.chalupsky@natur.cuni.cz
Druzstevní ochoz 52 CS-140 00 PRAHA 4 Czech Republic
Tel +420 2 2195 3199 or 3409 Fax +420 2 299713 Active Member P t

CHANG Hsueh-Wen hwchang@mail.nsysu.edu.tw
National Sun Yan-Sen University Department of Biological Sciences KAOHSIUNG, Taiwan 804 Taiwan ROC
Active Member D C t e

CHANSIGAUD Valérie appi-asso@wanadoo.fr
Association pour la Promotion de la Protection des Invertébrés 15, rue Mouton Duvernet F-75014 PARIS France
http://www.multimania.com/appi Moral Member A M e t

CHAO Jui-Lung juilingchao@msa.hinet.net
Department of Biological Sciences National Sun Yat-Sen University
70, Lien Hai Road KAOHSIUNG 804 R.O.C. Taiwan ROC
Tel +886-7-5253609 Active Member C t http://w2.loxa.com.tw/scolopendra/index.htm

CHEN Chao-Chun ccchentaiwan@gmail.com ccchen.taiwan@msa.hinet.net
Department of Biological Sciences National Sun Yat-Sen University

70, Lien Hai Road KAOHSIUNG 804 R.O.C. Taiwan ROC
Active Member D t

CHRISTIAN Erhard echrist@edvl.boku.ac.at
Institut of Zoology BOKU-VIENNA University of Agricultural Sciences
Gregor Mendel straße 33 A-1180 WIEN Austria
Tel +43 1 47654 3231 Fax +43 1 47654 3242 Active Member A C b bg bs

DANYI Lázló danyi@nhmus.hu
Hungarian Natural History Museum Department of Zoology Baross u. 13. H-1088 BUDAPEST Hungary
Tel +36 20 49 85 805 Active Member C t bg

DAVID Jean-François jean-francois.david@cefe.cnrs.fr
CEFE CNRS 1919 route de Mende F-34293 MONTPELLIER Cedex 5 France
Tel +33 4 67613204 Fax +33 4 67613336 Active Member D e b o http://www.cefe.cnrs.fr

DECKER Peter peter.decker@senckenberg.de millipeter@diplopoda.de
Senckenberg Museum of Natural History Görlitz Am Museum 1 D-02826 GÖRLITZ Germany
Active member C, D, t, e http://www.diplopoda.de

DEMANGE Jean-Marie
4 rue Changarinier F-75012 PARIS France
Tel +33 1 43 43 32 12 Honorary Member M D C t a

DI GIOVANNI Massimiliano massimiliano.digiovanni@bioparco.it
Scientific Department, Fondazione Bioparco di Roma
V.le del Giardino Zoologico, 20 I-00197 ROMA Italy
Tel +39 06 36082131 Fax +39 06 3207389 Active Member D t bg e
http://www.bioparco.it

DJURSVOLL Per per.djursvoll@um.uib.no
Bergen University Museum Allégaten 41 UIB Po Boks 7800 N-5020 BERGEN Norway
Tel +47 55 5558 2925 Fax +47 5558 9677 Active Member D t o

DOHLE Wolfgang wdohle@zedat.fu-berlin.de
Schlettstadter Str. 58 D-14169 BERLIN Germany
Tel +49 30 811 1250 Active Member D C o t

DOMINGUEZ CAMACHO Miguel mdominguez@zoosyst-berlin.de miguelondia@hotmail.com
Puentecesures 1B, 6-C 28029 MADRID Spain
Tel Active member S t

DUNGER Wolfram dunger.ebersbach@gmx.de
Staatliches Museum für Naturkunde Forschungsstelle D-8900 GÖRLITZ PSF 425 Germany
Honorary Member A M e

DYACHKOV Yuri V. dyachkov793@mail.ru
Altaï State University Ecology Department Lenin Avenue 61 BARNAUL 656060 Russia
Active Member D t e

EDGECOMBE Gregory D. g.edgecombe@nhm.ac.uk
Department of Earth Sciences The Natural History Museum Cromwell Road LONDON SW7 5BD UK
Tel +44 (0)20 7942 6464 Active Member M C t f
http://www.nhm.ac.uk/research-curation/staff-directory/palaeontology/g-edgecombe/index.html
http://www.nhm.ac.uk/research-curation/earth-sciences/fossil-invertebrates/fossils-invertebrates-research/arthropods/centipedes/evolution-centipedes/index.html

ENGHOFF Henrik henghoff@snm.ku.dk
Natural History Museum of Denmark University of Copenhagen
Universitetsparken 15 DK-2100 COPENHAGEN OE Denmark
Tel +45 35 32 10 36 Fax +45 35 32 10 10 Active Member D(C) t e o bg bs
http://snm.ku.dk/english/staffsnm/vip/?id=52118&vis=medarbejder

ERNST Alfred
Zenkerweg 6 D-07743 JENA Germany
Tel +49 3641 949140 Fax +49 3641 949142 Active Member A C u c a

FARZALIEVA G. Sh. fgsh@psu.ru
Department of Zoology Perm State University Bukireva 16 PERM 614990 Russia
Active Member C t

FLOREZ DAZA Alvaro Eduardo aefloezd@unal.edu.co eduardoflorez@yahoo.com
Instituto de Ciencias Naturales Universidad Nacional de Colombia
Carrera 38 #57-32, Appartamento 501 CO - BOGOTA Colombia

FONTANETTI Carmen Silvia fontanet@rc.unesp.br
Department of Biology Instituto de Biociências - UNESP São Paulo State University
Av. 24A, n. 1515 CEP 13506-031 RIO CLARO, SP Brazil
Tel +55 (019) 3526 4139 Fax +55 (019) 352604136 Active Member D t c bs

FORDE Aaron atoforde@hotmail.com
#4 Gibbons Terrace CHRIST CHURH Barbados
Tel (246) 241-3821Fax Active Member C D t

FRUEND Heinz-Christian H-C.Fruend@fh-osnabrueck.de
Fachhochschule Osnabrück Facherbereich Agrarwissenschaften Postfach 1940 D-49009 OSNABRÜCK Germany
Tel +49 541 969 5052 Fax +49 541 969 5170 Active Member D C e t

GARCIA RUIZ Andrès andres.garcia.ruiz@uam.es agarciruiz@hotmail.com
C/ Alonso Carbonnel 2 - 5° A E-28045 - Madrid Spain
Active Member C t e

GAVA Radu gavaradu@yahoo.com
Museum of Arges County 44 Armand Calinescu str. RO-110047 PITESTI Romania
Active Member D C S t e bg

GEOFFROY Jean-Jacques geoffroy@mnhn.fr
Muséum National d'Histoire Naturelle Département Ecologie & Gestion de la Biodiversité
UMR 7204 CESCO CNRS-MNHN-UPMC 4 Avenue du Petit Château F-91800 BRUNOYFrance
Tel +33 1 6047 9208 Fax +33 1 6046 5719 Active Member D C t e o bg bs

GIMENEZ PINHEIRO Tamaris tamarisgimenez@yahoo.com.br
São Paulo State University (UNESP) Rua 18A 64 Bela Vista RIO CLARO SP 13506-755 Brazil
Tel Fax Active Member D e b

GIRIBET Gonzalo gonzalo.giribet@gmail.com ggiribet@g.harvard.edu
Department of Organismic & Evolutionary Biology Museum of Comparative Zoology Harvard University
26 Oxford Street Cambridge, MA 02138 USA
Tel +1 617 495 1473 Fax +1 617 496 5854 Active Member A C t
http://www.g.harvard.edu/faculty/giribet/giribet/lab

GOLOVATCH Sergei Ilyich sgolovatch@yandex.ru sgolovatch@yandex.ru
Institute for Problems of Ecology & Evolution Russian Academy of Sciences
Leninsky prospekt 33 119071 MOSCOW Russia
Tel +7 499 9367671 (private) +7 496 9545534 / 9522592 Active Member D t bg bs e
http://sgol.potcha.ru

GREGORY Steve J. steve.gregory@earthtrust.org.uk
Earth Trust, Little Wittenham HILL FARM, ABINGDON Oxfordshire OX14 4QZ UK
Tel +44 1865-409409 Fax +44 1865-407131 Active Member A D C e b

GRGIC Tanja tanja.grgic@gmail.com
Biotechnical Faculty Department of Biology Vecna Pot 111 1000 LUBLJANA Slovenia
Active member C D e

GROMYSZ-KALKOWSKA Kazimiera
University Marie Curie-Sklodowska UMCS Department of Animal Physiology
FizjologiiAkademicka 19 20-033 LUBLIN Poland
Honorary Member M p

GRUBER Jurgen juergen.gruber@nhm-wien.ac.at
Naturhistorisches Museum 3. Zool. Abt. (Wirbellose) Burgring 7 A-1010 WIEN Austria
Tel +43 222 52 177 327 Active Member D t bg

HAGINO Yasunori hagino@chiba-muse.or.jp
Natural History Museum and Institute Chiba 955-2 Aoba-cho, Chiba-shi CHIBA 260-8682 Japan
Tel +81 43 265 3111 Fax +81 43 266 2481 Active Member P t

HAMER Michelle M.Hamer@sanbi.org.za
Biosystematics Research & Collections Division South African National Biodiversity Institute SANBI

Private Bag X101 PRETORIA, GAUTENG 0001 South Africa
Tel +27 33 260 5108 Fax +27 33 260 5105 Active Member D t e
http://www.sanbi.org.za

HANNIBAL Joseph T. jhanniba@cmnh.org
Cleveland Museum of Natural History 1 Wade Oval Drive CLEVELAND, OH 44106-1767 USA
Tel +1 216 231-4600 Fax +1 216 231-5919 Active Member M f

HAUSER Bernd bernd.hauser@ville-ge.ch
Museum of Natural History Department of Arthropodology and Entomology I
Case postale 6434 CH-1211 GENEVA 6 Switzerland
Tel +41 22 418 63 29 Fax +41 22 418 63 01 Active Member A P S bg bs

HAUSER Harald hauser.harald@web.de
Ulmenweg 1 e D-14656 BRIESELANG Germany
Tel +49 33232 310015 Active Member D t e

HILKEN Gero gero.hilken@uni-due.de
Central Animal Laboratory University Duisburg-Essen Medical School D-45122 ESSEN Germany
Active Member C D a b c p

HUTH Angela angela_huth@web.de
Erlenstr. 16 D-91245 SIMMELSDORF http://freemail.web.de Germany
Tel +49 9155 7106 Active Member D p c

HÜTHER Walter
Hustadtring 147 D-44801 BOCHUM Germany
Tel +49 234/705434 Active Member P t

HUYNH Cuong cuong.huynh@deakin.edu.au
Deakin University Melbourne Burwood Campus
221 Burwood Highway BURWOOD Victoria 3125 Australia
Tel +61 3 92446385 Fax +61 3 9251 7048 Active Member D p t
http://www.deakin.edu.au

ILIE-TENCUSE- Victoria victoria_boitan@yahoo.com
Ministerul Mediului si Padurilor, Comisar Biodiversitate si Arii Naturale Projetate
Garda Nationala de Mediu Comisariatul Judetean Caras-Severin
str. Caminelor 5 RO-320176 RESITA Jud. Caras-Severin Romania
Tel +0255 226 730 Fax +0255 226 730 Active Member C t e bg bs

ION Mihaela mihacion@yahoo.com
Institute of Biology Romanian Academy Spaiul Independentei 296 060031 Bucharest Romania
Tel +4 021 221 9202 Fax +4 021 221 9071 Active member C e t

IORIO Etienne e.iorio@gretia.org
Groupe d'Etude des Invertébrés Armoricains GRETIA Tour 5 rue du Général Leclerc
F-44390 NORT-SUR-ERDRE France
Tel +33 (0)2 53 55 59 62 Fax Active Member C t b bg http://www.gretia.org/

ISHII Kiyoshi k-ishii@dokkyomed.ac.jp
Department of Natural Sciences (Biology) School of Medicine Dokkyo Medical University
MIBU, TOCHIGI 321-0293 Japan
Tel +81282 87 2118 Fax +81 282 86 6214 Active Member Dp t e b

JEDRYCZKOWSKI Wojciech wjedrycz@wa.onet.pl
University of Ecology and Management in Warsaw 14 Wawelska str. 02-061 WARSZAWA Poland
Tel +48 605-265-448 (Cell) Active Member D t e b bg www.wseiz.pl

JONES Richard E. rej@johalpinjones.eclipse.co.uk
14 Post Office Road, DERSINGHAM KING'S LYNN, Norfolk PE31 6HP UK
Tel +44 1 485 541790 Active Member M t e www.pastonroot.co.uk/golds/rejones/

JORGENSEN Michael mjohns34@uic.edu
Department of Zoology - Insects Field Museum of Natural History 1400 S Lake Shore Drive
CHICAGO Ill 60605 USA Active member D t

KANIA Grzegorz grzegorz.kania@umlub.pl
Department of Biology and Parasitology Medical University of Lublin
ul. Radziwikowska 11 PL-20080 LUBLIN Poland

Tel +48 8153 290 51 Fax +48 8153 289 03 Active Member M (D) pa p

KHANNA Vinöd drvkhanna51@gmail.com
Sai Drishti 151 Ashok Vihar, Salawala Dehra Dun - 248 001 UTTARAKHAND India
Tel Fax Active Member C t e

KIME Richard Desmond deskime2@aol.com
La Fontaine La-Chapelle-Montmoreau F-24300 NONTRON France
Tel +33 5 53 56 22 60 Honorary Member D C e t bg

KOCH Markus mkoch@evolution.uni-bonn.de
Institute of Evolutionary Biology and Ecology University of Bonn
An der Immenburg 1 DE-53121 BONN Germany
Tel +49 (0) 228 735119 Fax +49 (0)228 735129 Active Member A M t a c u
http://www.evolution.uni-bonn.de

KOCOUREK Pavel kocourek.pavel@post.cz
Chynava 27 267 07 CHYNAVA Czech Republic
00 420 737 4458 10 Active Member D t

KOKHIA Mzia kokhiams@yahoo.com mzia.kokhia@iliauni.edu.ge
Institute of Zoology Ilia State University 31 Chavchavadze Avenue 0179 TBILISI Georgia
Tel +99532343749 /223353 Active Member D e

KONDEVA Emilia Assenova emikondeva@abv.bg Bulgaria
Tel Fax Active Member M e

KORSÓS Zoltán korsos@nhmus.hu
Dept of Zoology Hungarian Natural History Museum Baross u. 13 H-1088 BUDAPEST Hungary
Tel +36 1 2677 100 Fax +36 1 2673 462 Active Member D C t e http://www.zkorsos.fw.hu

KOS Ivan ivan.kos@bf.uni-lj.si
Biotechnical Faculty, Dept of Biology University of Ljubljana Vecna pot 111 1000 LJUBLJANA Slovenia
Tel +386 1 320 33 00 Fax +386 1 257 33 90 Active Member C t e o bg bs

KRAUS Otto otto.kraus@zoologie.uni-hamburg.de
Zoologisches Institut und Zoologisches Museum
Martin-Luther-King-Platz 3 D-20146 HAMBURG Germany
Honorary Member DC t f

LEE Paul arachne2222@aol.com
33 Lawford Place Lawford MANNINGTREE CO4 2PT Great Britain UK
Tel +44 1 206 394538 Fax Active Member CD t e bg

LESNIEWSKA Malgorzata remiz@amu.edu.pl
Department of General Zoology Adam Mickiewicz University Umultowska 89 PL-61614 POZNAN Poland
Tel +48 61 829 58 45 Active Member C D t b e bg
http://www.zzo.amu.edu.pl/ml.html

LEWIS John Gordon Elkan johngelewis@realemail.co.uk
Manor Mill Farm HALSE TAUNTON Somerset TA4 3AQ England UK
Tel +44 0823 432697 Active Member C t o b

LEWIS Julian J. lewisbioconsult@aol.com
Lewis & Associates LLC Cave, Karst & Groundwater Biological Consulting
17903 State Road 60 BORDEN IN 47106-8608 USA
Tel +1 (812) 967-7592 Active Member D t

LIKHITRAKARN Natdanai kongerrrr@hotmail.co
Department of Biology, Faculty of Science Chulalonkorn University Bangkok BANGKOK Thailand
Tel +6622185273 Fax +6622185273 Active Member D t e bg

LIM Kil-Young et5230@jbedu.kr
201 Dong 401 Ho Daewoo 2nd Apt Wooa-dong 2ga Jeonju-shi Jeollabuk-do JEONJU 561-775 South Korea
Tel +82 63 244-5249 Fax +82 63 432-4137 Active Member D t e

LINDNER Norman post@norman-lindner.de norman.lindner@arcor.de
Institut für Myriapodenforschung & Verlag d. Zeitschrift Schubartiana
Lazarusstr. 34 D-04347 LEIPZIG Germany
Tel +49 341 241 1907 Active Member C D b bg e t

http://www.myriapoden-info.de www.schubartiana.de www.norman-lindner.de

MA Hui-Qin mhq008@yahoo.com
Scientific Research Office Hengshui University
1088 Heping Xi-Road HENGSHUI City, Hebei Province 053000 CHINA
Active Member D C t

MAHSBERG Dieter mahsberg@biozentrum.uni-wuerzburg.de
University of Würzburg Biocenter Dept Animal Ecology & Tropical Biology
Biozentrum, Zoologie III Am Hubland D-97074 WÜRZBURG Germany
Tel +49 931 31 84353 Fax +49 931 31 84352 Active Member D e b p

MAKAROV Slobodan E. slobodan@bio.bg.ac.rs makarov.slobodan@yahoo.com
Institute of Zoology, Faculty of Biology University of Belgrade Studentski Trg 16 YU-11000 BELGRADE Serbia
Tel +381 1186635 Fax +381 1638500 Active Member D t e o bs

MAKSIMOVA Svetlana soilzool@biobel.bas-net.by
State Scientific & Production amalgamation 'Scientific-practical center of the National Academy of Sciences of Belarus for biological resources' Akademicheskaja 27 220072 MINSK Belarus
Tel +375 17 294 92 19 Fax +375 17 284 10 36
Active Member D e p b

MARTINEZ TORRES Daniella sdmartinezt@unal.edu.co
Biology Department National University of Colombia Natural Science Institute
Cra 57 A N° 45-36 La Esmeralda BOGOTA Colombia
Tel Fax Active Member D t

MAURIES Jean-Paul mauries.jean-paul@wanadoo.fr
Muséum National d'Histoire Naturelle Département Systématique & Evolution
Unité OSEB Section Zoologie-Arthropodes
CP n°53 61, rue Buffon F-75231 PARIS Cedex 05 France
Tel +33 1 4079 3584 Fax +33 1 4079 3863 Honorary Member D t e o b bs
http://www.mnhn.fr/assoc/myriapoda/INDEX.HTM

McALLISTER Chris chris.mcallister@tamut.edu
Biology Department Texas A&M University at Texarkana TEXARKANA, Texas 75505-5518 USA
Active Member

MEDRANO Michael mmedrano@unm.edu
University of New Mexico, Dept of Biology 1 UNM, MSC 03 2020 ALBUQUERQUE NM 87131-0001 USA
Tel +1 505 899 0205 Active Member D t b

MEIDELL Bjarne bjarne.meidell@zmb.uib.no
Gyldenprisv. 18 N-5056 BERGEN Norway
Tel +47 5558 9289 Fax Active Member D C t e bg
http://www.uib.no/forskerforbundet

MELZER Roland R. melzer@zi.biologie.uni-muenchen.de
Zoologisches Staatssammlung Münchhausenstr. 21 D-81247 MÜNCHEN Germany
Tel +49 89 8107 141 Fax +49 89 8107 300 Active Member A C t
http://www.zsm.mwn.de or http://www.zi.biologie.uni-muenchen.de

MERCURIO Randy J. chilopods@yahoo.com
1221 Langstonshire Lane Morrisville NC 27560 USA
Tel +1 631 664-6528 Active Member C t a b e c u bg

MESIBOV Robert mesibov@southcom.com.au
Queen Victoria Museum and Art Gallery School of Zoology, University of Tasmania
PO Box 101 PENGUIN Tasmania 7316 Australia
Tel +61 3 6437 1195 D t bg Active Member http://www.qvmag.tas.gov.au/?articleID=570

MEYER Erwin erwin.meyer@uibk.ac.at
Universität Innsbruck Institut für Zoologie Technikerstraße, 25 A-6020 INNSBRUCK Austria
Tel +43 512 218 5352 Fax +43 512 218 5358 Active Member A D t e u p

MIKHALJOVA Elena V. mikhaljova@biosoil.ru
Russian Academy of Sciences / Far Eastern Branch Institute of Biology & Soil Science
Prospekt 100-letiya Vladivostoka 159 690022 VLADIVOSTOK Russia
Tel +7 423 2311 133 Fax +7 423 2310 193 Active Member D t e bg

MINELLI Alessandro alessandro.minelli@unipd.it
University of Padova Department of Biology Via Uga Bassi 58B I-35131 PADOVA Italy
Tel +39 049 827 6303 Fax +39 049 827 6230 Honorary Member M t e bg o bs
http://dept.bio.unipd.it/lab_minelli/minelli

MISRA Ravindra Kumar misra_ravindra@yahoo.ca
3716 Teeswater Road MISSISAUGA, ON, L4T 2A4 Canada
Tel +1 905 293 9561 Active Member D p

MITIC Bojan bojan@bio.bg.ac.rs bojan.mitic@hotmail.co.uk
Institute of Zoology, Faculty of Biology University of Belgrade Studentski Trg 16 11000 BELGRADE Serbia
Tel +381 11 21 87 266 Fax +381 11 26 38 500 Active Member C t

MOCK Andrej andrej.mock@upjs.sk
Institute of Biology and Ecology Faculty of Sciences Pavol Jozef Safarik University
Moyzesova 11 SK-04167 KOSICE Slovakia
Tel +421 55 234 11 77 Active Member D be

MÜLLER Carsten H. G. camueller2@freenet.de chg.mueller@uni-greifswald.de
Ernst Moritz Arndt Universarität Greifswald Zoologisches Institut und Museum AG Cytologie und Evolutions
Biologie Johann-Sebastian Bach Strasse 11-12 D-17487 GREIFSWALD Germany
Tel +49 (0)3834 864109 Fax +49 (0)3834 864252 Active Member M a c e p t u bg

MWABVU Tarombera mwabvut@ukzn.ac.za
School of Life Sciences University of KwaZulu-Natal
Westville Campus PB X54001 DURBAN 4000 South Africa
Tel. +27 31 260 3186 Fax +27 31 260 2029 Active Member D t
http://biology.ukzn.ac.za

NASCIMENTO Beata bnascimento@inida.gov.cv bnascimento@inida.gov.cv
National Institute for Research and Agriculture Development INIDA CP 84
PRAIA SANTIAGO Republic of Cape Verde
Tel +238 2711127/47 Fax +238 2711133 Active member D o

NEFEDIEV Pavel S. p.nefediev@mail.ru
Altai State University Ecology Department Shukshina St. 2, 288 BARNAUL 656060 Russia
Tel +7 952 002 0175 Fax +7 3852 363 077 Active Member D C S t e

NEFEDIEVA Julia j.nefedieva@mail.ru
Barnaul Branch of OJSC « Giprodornii »
Shukshina st. 2, 288 BARNAUL 656060 Russia
Tel +7 952 002 7589 Active Member D t e

NEGREA Stefan stnegrea@yahoo.com
Institutul de Speologie "Emil Racovitza" Calea 13 Septembrie nr.13 RO-050711 BUCURESTI Romania
Tel + 4021 318 8132 Honorary Member C t e bg bs

NEVERMANN Lutz hemocytes@nevermanns.de
Haupfstrasse 7 D-63814 MAINASCHAFF Germany
Tel +49 6021 780217 Active Member A M p c u
http://www.hemocytes.nevermanns.de

NGUYEN Duc Anh ducanh410@yahoo.com ducanh@iebr.ac.vn
Department of Environmental Soil Ecology Institute of Ecology and Biological Resources
18 Hoangquocviet Road, Nghiado Town, Caugiay District HANOI CITY Vietnam
Tel +84 913353521 Fax +84 4 8361196 Active Member D t
http://millipede.0fees.net http://www.iebr.ac.vn

NGUYEN DUY - JACQUEMIN Monique monguyen@mnhn.fr
Muséum National d'Histoire Naturelle Departement Systématique & Evolution
Unité OSEB Section Zoologie-Arthropodes
CP n°53 61, rue Buffon F-75231 PARIS Cedex 05 France
Tel +33 1 4079 3582 Fax +33 1 4079 3863 Active Member D Dp t b u bg bs
http://www.mnhn.fr/assoc/myriapoda/INDEX.HTM

OUDARD Jacques jacques.oudard@orange.fr
78 avenue Jean Jaurès F-93800 EPINAY-sur-SEINE France
Tel +33 1 48 29 38 97 Fax Active Member A (M)

PASS Günther guenther.pass@univie.ac.at

Institut für Zoologie Universität Wien Althanstraße, 14 A-1090 WIEN Austria
Tel +43 1 4277 54493 Fax +43 1 4277 9544 Active Member A (M) a p

PEITSALMI Maija Moved to unknown address ??? Finland
Honorary Member D e o

PENTEADO Carlos Henrique Silva cea@rc.unesp.br
Centro de estudos Ambientais - CEA UNESP Campus de Rio Claro CP 178
Avenida 24 A 1515 - Campus Bela Vista BR- RIO CLARO, Saõ Paulo 13506-900 Brazil
Tel +55 19 3534 0122 Fax +55 19 3534 0122 Active Member D e b p a

PEREIRA Luis Alberto lpereira@fcnym.unlp.edu.ar
Facultad de Ciencias naturales y Museo División Zoologia Invertebrados
Universidad Nacional de La Plata Paseo del Bosque s/n RA-1900 LA PLATA Argentina
Tel +54 221 425 7744 Fax +54 221 425 7527 Active Member C t e
http://www.conicet.gov.ar/new_scp/search.php?keywords=Pereira+Luis+Alberto&as=yes&iso=yes&fecha_des2=&fecha_hasta

PIEPER Harald orunzehpieper@condaservices.com
Ulmenstrasse 21 D-24223 SCHWENTINENTAL Germany
Tel +49 4307 7386 Fax Active Member D t bg

PIMVICHAI Piyatida piyatida_pimvichai@yahoo.com
Animal Systematics Research Unit Department of Biology, Faculty of Science Chulalongkorn University
Phyathai Road, Patumwan BANGKOK 10330 Thailand
Active member D t

PITZ Kevin kpitz@fieldmuseum.org
Department of Zoology - Insects Field Museum of Natural History 1400 S Lake Shore Drive
CHICAGO Ill 60605 USA Active member D t

PROUDLOVE Graham Steven graham.proudlove@manchester.ac.uk
CBiol, FSB, British Cave Research Association Biological Recorder
Department of Entomology The Manchester Museum The University of Manchester
MANCHESTER M13 9PL UK Active member D C t

PRUNESCU Paula paula_prunescu@yahoo.com
Institutof Biology of Romanian Academy Box 56-53
Spl. Independentei 296 sector 6 RO-060031 BUCURESTI Romania
Tel +40 21 223 90 72 Fax +40 21 221 90 71 Active Member C a u t

READ Helen J. helen.read@dsl.pipex.com
2 Egypt Wood Cottages Egypt Lane FARNHAM COMMON Bucks SL2 3LE UK
Tel +44 01735 645791 Fax +44 01753 646699 Active Member D t e

REDMAN Guy redmang@durban.gov.za
Natural Science Museum eThekwini Libraries & Heritage PO Box 4085 DURBAN 4000 South Africa
Active Member D t e

REIP Hans reip@myriapoden-info.de
(Senckenberg Museum für Naturkunde Görlitz) Leipziger Strasse 7 07743 JENA Germany
Tel +49 (0) 3641 421976 Fax +49 3641 524469 Active Member D b t
http://www.myriapoden-info.de

RICHARDS J. Paul paul.richards@museums-sheffield.org.uk
Museums Sheffield Natural History Section Weston Park Museum
Weston Park, Western Bank SHEFFIELD S10 2TP UK
Tel +44 114 278 2649 Fax +44 114 278 2727 Active Member D t
http://www.invertebrates-images.co.uk

ROBSON Elaine A. earobson@gmail.com e.a.robson@reading.ac.uk
13 Marlborough Avenue READING RG1 5JB Berks UK
Tel +44 118 9 874 116 Fax +44 118 9 310 180 Active Member O

RODGERS Denis Denis_Rodgers@bigpond.com
Griffith University 139 Matthew Street ROSEWOOD Queensland 4340 Australia
Tel Fax Active Member S t e

ROSENBERG Jörg privat-rj@web.de
Am Kützelbach 3 D-59494 SOEST Germany

Tel +49 (0)2921 3690399 Active Member M a u p

RUHBERG Hilke Ruhberg@zoologie.uni-hamburg.de ruhberg@wtnet.de
Biozentrum Grindel und Zoologisches Museum Universität Hamburg
Martin-Luther-King Platz, 3 D-20 146 HAMBURG Germany
Tel +49 40 42838 3922 Fax +49 40 42838 3937 Active Member On t b e o bg

SAHLI François ???
37, promenade Robert Schuman F-06190 ROQUEBRUNE-CAP MARTIN France
Active Member D n u o a b bs

SCHELLER Ulf ulf.scheller@telia.com
Häggeboholm Häggesled S-53194 JÄRPÅS Sweden
Tel +46 510 93055 Honorary Member PS t bg

SCHILEYKO Arkady schileyko1965@mail.ru
Zoological Museum of Moscow Lomonosov State University, Invertebrate Department
Bolshaja Nikitskaja Str. 6 125 009 MOSCOW Russia
Tel +7 095 292 5796 Fax Active Member C t

SCHMITT Günther baum.schmitt@t-online.de
Friedensstr. 23 D-18190 SANITZ Germany
Tel +49 38209 499777 Active Member

SELDEN Paul A. paulselden@mac.com selden@ku.edu
The Paleontological Institute, University of Kansas
1475 Jayhawk Boulevard, Lindley HallLAWRENCE KS 66045 USA
Tel +1 785 550-4118 Active Member D f http://www.paulselden.net

SERRA Antoni aserra@ub.edu
Dept. Biologia Animal (Invertebrats) Fac. Biologia, Universitat Barcelona
Av. Diagonal 645 E-08028 BARCELONA Spain
Tel +34 93 4021444 Fax +34 93 410887 Active Member C t e a bg bs

SHEAR William A. wshear@email.hsc.edu
Hampden-Sydney College Department of Biology HAMPDEN-SYDNEY VA 23943 USA
Tel +1 804 223 6172 Fax +1 804 223 6374 Active Member D t b bg f
http://groups.yahoo.com/group/myriapod

SHELLEY Rowland M. rowland.shelley@naturalsciences.org
North Carolina State Museum of Natural Sciences Research Lab MSC #1626 RALEIGH NC 27699-1626 USA
Tel +1 919 707 8865 Fax +1 919 715 2294 Active Member D C t bg
http://www.nadiplochilo.com/index.html http://www.naturalsciences.org/research/inverts/shelley.html

SHORT Megan mshort@deakin.edu.au
Deakin University School of Life and Environmental Sciences
221 Burwood Hwy BURWOOD Victoria, 3125 Australia
Tel Fax Active Member D Dp t o b bg

SIERWALD Petra psierwald@fieldmuseum.org
Field Museum of Natural History 1400 S Lake Shore Dr CHICAGO IL 60605 USA
Tel +1 312 665 7744 Fax +1 312 665 7754 Active Member A t
http://www.fmnh.org/research_collections/zoology/zoo_sites/millipeet/home.html

SILVESTRI Edward T.
222 mc Naughton Avenue Cheektowaga NY 14225 USA
Tel. +1 716 893 4593 Active Member

SIMAIAKIS Stylianos ssimaiakis@yahoo.com simaiakis@biology.uoc.gr
Natural History Museum of Crete University of Crete Knossos Av. PoBox 2208 71409 IRAKLION Crete Greece
Tel +30 697 6614269 Fax +30 2810 324366 Active Member C t bg
http://www.nhmc.uoc.gr

SLOTOW Rob slotow@ukzn.ac.za
School of Botany and Zoology University of Kwazulu-Natal
Private Bag X01 SCOTTSVILLE 3209 South Africa
Active Member D e bg

SNYDER Bruce A. bruceasnyder@gmail.com
Division of Biology, Kansas State University 116 Ackert Hall MANHATTAN KS 66506-4901 USA

Tel +1 706 614 7453 (c) Active Member D t e http://www-personal.k-state.edu/~basnyder/

SOMBKE Andy andy.sombke@uni-greifswald.de andy.sombke@gmx.de
University of Greifswald Zoological Institute and Museum Cytology and Evolutionary Biology
Soldmannstrasse 23 D-17487 GREIFSWALD Germany
Tel +49 (0) 3834 864066 Fax. +49 (0) 3834 864067 Active member A M a b c f o u

SPELDA Jörg spelda@snsb.de spelda@zsm.mwn.de
Staatliche Naturwissenchaftliche Sammlungen Bayerns General Direktion / Zentral Verwaltung
Menzinger Strasse 71 D-80638 MUNCHEN Germany
Tel +49 89 1799 92 44 Fax +49 89 1799 92 55 Active Member M t e bg http://www.gbif.de/evertebrata2

SPICER Greg gs@sfsu.edu
Biology Department San Francisco State University
1600 Holloway Avenue SAN FRANCISCO California 94132 USA
Tel +1 415 338 6756 Fax Active Member http://online.sfsu.edu/~gs/index.html

SPIRIDONOV Sergei s_e_spiridonov@rambler.ru
Centre of Parasitology A.N. Severtsov Institute of Ecology and Evolution Russian Academy of Sciences
Leninskii Prospekt, 33 MOSCOW 119071 Russia
Tel +7 095 236 21 30 Fax +7 095 122 56 37 Active Member D pa

STAGL Verena verena.stagl@nhm-wien.ac.at
Naturhistorisches Museum 3. Zoologische Abt. (Wirbellose) Burgring 7 - Postfach 417 A-1014 WIEN Austria
Tel +43 1 52177 323 Fax +43 1 52177 327 Active Member A t

STOECKLI Edi eduard.stoeckli@bs.ch
Natural History Museum of Basel Department of Biosciences / Abteilung Biowissenschaften
Augustinergasse 2 CH-4001 BASEL Switzerland
Tel +41 61 266 55 37 Fax +41 61 266 55 46 Active Member C t
http://www.nmb.bs.ch

STOEV Pavel pavel.e.stoev@gmail.com
National Museum of Natural History Blvd. Tzar Osvoboditel 1 1000 SOFIA Bulgaria
Tel +359 2 987 36 80 Fax +359 897 25 24 C D t e Active Member http://www.cl.bas.bg/nmnh/

SUSTR Vladimir sustr@upb.cas.cz
Institut of Soil Biology, BC Academy of Sciences of the Czech Republic
Nà Sadkach 7 CZ-370 05 CESKE BUDEJOVICE Czech Republic
Tel +420 387 775 761 Fax +420 385 310 133 Active Member A D e p
http://www.jcu.cz/~upb

TABACARU Ionel igtabacaru@yahoo.com
Institute of Speology "Emil Racovitza" Casa Academiei Romane
Calea 13 Septembrie nr. 13, sector 5 RO-050711 BUCHAREST Romania
Tel +40 21 3188106 interior 2719 Fax +40 21 318 81 32 Active Member DS t o bg bs pa

TAIT Noël nntait@gmail.com
Peripatus Productions Pty Ltd 1 Carisbrook Street LANE COVE NSW 2066 Australia
Tel +61 2 9427 6747 Fax +61 2 9427 6767 Active Member On t u a b

TAJOVSKY Karel tajov@upb.cas.cz
Institute of Soil Biology - Biology Centre AS CR v.v.i. Academy of Sciences of the Czech Republic
Na Sàdkàch 7 CZ-370 05 CESKE BUDEJOVICE Czech Republic
Tel +420 385 310 134 [387 775 761] Fax +420 385 310 133 Active Member D C e b bg
http://www.upb.cas.cz

TAKANO Mitsuo
Tsurumi Girl's Senior High School Tsurumi 2-2-1 YOKOHAMA, Kanagawa 230 Japan
Tel +045 (301) 9810 Active Member (M) D t

TANABE Tsutomu tanabe@gpo.kumamoto-u.ac.jp
Biological Laboratory Faculty of Education Kumamoto University
Kurokami 2 - chome 40-1 KUMAMOTO 860-8555 Japan
Tel +81 96 342 2532 Fax +81 968 342 2532 Active Member D e t

TRACZ Henryk tracz@wl.sggw.waw.pl
Katedra Ochrony Lasu i Ekologii Wydzial Lesny SGGW ul. Nowoursynowska 159 PL-02776 WARSZAWA Poland
Tel +48 22 5938162 Fax +48 22 5938154 Active Member D C e p b

TSURUSAKI Nobuo ntsuru@rstu.jp
Faculty of Education & Regional Sciences Department of Biology, Environmental Sciences
Tottori University TOTTORI 680-8551 Japan
Tel +81 857 31 5110 Fax +81 857 31 5110 Active Member M

TUF Ivan H. ivan.tuf@upol.cz
Palacky University, Faculty of Science Department of Ecology & Environmental Science
Svobody 26 77200 OLOMOUC Czech Republic
Tel +420 585 634 556 Fax +420 585 634 553 Active Member C D e t b ag
http://ekologie.upol.cz/ad/tuf

TUFOVA Jana tufova@seznam.cz
Frydecka 48 739 35 VACLAVOVICE Czech Republic
Tel +420 775 524 887 Active Member D e t b ag

VAGALINSKI Boyan boyan_vagalinski@excite.com
Bulgarian Academy of Sciences Institute of Biodiversity and Ecosystem Research
2 Yurii Gagarin str. 1113SOFIA Bulgaria
Tel +359 887 85 33 95 Active Member D t e bg

VANDENSPIEGEL Didier didier.van.den.spiegel@africamuseum.be
Musée Royal de l'Afrique Centrale Invertebrate section
Leuvensesteenweg 13 B-3080 TERVUREN Belgium
Tel +32 2 769 5411 Fax +32 2 769 5695 Active Member D t b e

VOIGTLÄNDER Karin Karin.Voigtlaender@senckenberg.de
Senckenberg Museum of Natural History Görlitz
Am Museum 1 D-02826 GÖRLITZ Germany
Tel +49 35 81 4760 5500 Fax +49 35 81 4760 101 Active Member D C t e
http://www.senckenberg.de

WESENER Thomas twesener@uni-bonn.de
Zoologisches Forschungsmuseum Alexander Koenig Leinitz Institute for Animal Biodiversity
Adenauerallee 160 D-53113 BONN Germany
Tel +49 (0)228 9122 425 Fax +49 (0)228 9122 212 Active Member D t e

WONGTHAMWANICH N nwongtham@hotmail.com pjanchai@hotmail.com
Department of Biology Faculty of Science Srinakharinwirot University
114 Sukhumvit 23 Wattana BANGKOK 10110 Thailand
Tel + 6689 152 5323 Fax Active Member D e b

WÜRMLI Marcus meuss@t-online.de entomol-museum-dietfurt@t-online.de
Entomologisches Museum Dietfurt Am Arzberg 17 D-92345 DIETFURT Germany
Tel. 08464 642605 Fax. ??? Active Member C t b e p bg

WYTWER Jolanta jolawyt@miiz.waw.pl
Museum and Institute of Zoology Polish Academy of Sciences
Wilcza 64 PL-00679 WARSZAWA Poland
Tel +48 22 629 32 21 ex 64 Fax +48 22 629 63 02 Active Member C D t e b bg

XYLANDER Willi E. R. Willi.Xylander@senckenberg.de
Senckenberg Museum für Naturkunde Görlitz
Postfach 300 154 D-02806 GÖRLITZ Germany
Tel +49 3581 4760 0 Fax +49 3581 4760 101 Active Member M p c u pa

YEARBOOK of International Organizations Yearbook of International Organizations yearbook@uia.be
Rue Washington 40 B-1050 BRUXELLES Belgium
Tel +32 2 640 18 08 Fax +32 2 643 61 99 Moral Member

ZAPPAROLI Marzio zapparol@unitus.it
Dipartimento per la Innovazione nei Sistemi Biologici, Agroalimentari e Forestali DIBAF
Università degli Studi della Tuscia Via San Camillo de Lellis snc I-01100 VITERBO Italy
Tel +39 761 357472 Fax +39 761 357473 Active Member C t bg e

ZULKA Klaus Peter klaus.peter.zulka@univie.ac.at
Department für Evolutionbiologie Universität Wien Althanstrasse 14 A-1090 WIEN Austria
Tel +43 1 4277 54524 Fax +43 1 31336 778 Active Member A C e

List of works published in 2013 & early 2014 in the field of Myriapodology s. l.,

including some missing papers 2000-2012

checked and listed by J.-J. Geoffroy [CIM Secretariat - MNHN, Paris and Brunoy]

The following list of works is the result of a query managed by the CIM-Secretariat after replies to the CIM questionnaire, analysis of papers, books and proceedings and from the subject area Natural Sciences of several bibliographic databases.
The list comprises references published mainly in 2012-2013 and early 2014, but only partly. Some lacking references published since 2000 have been listed.
Some references are obviously and regretably missing. Please let us know additional references you could find related to myriapods or onychophorans.

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Dreaming, resting, sleeping, waiting for Santa Claus