

CENTRE INTERNATIONAL DE MYRIAPODOLOGIE

**LISTE DES TRAVAUX PARUS
ET SOUS PRESSE EN 1984**

(MYRIAPODA et ONYCHOPHORA)

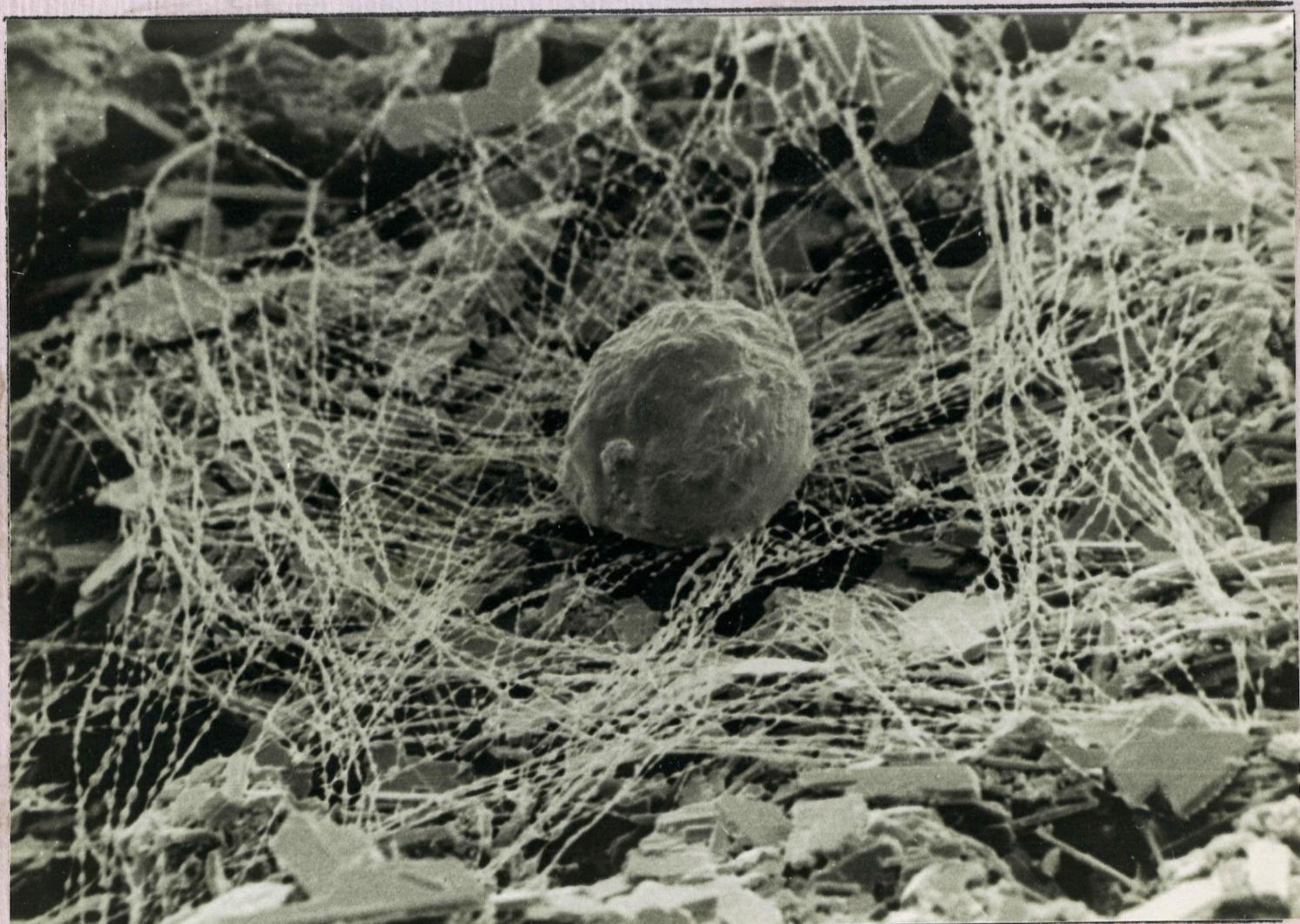


Photo: Klaus HASENHÜTL

**ANNUAIRE MONDIAL
DES MYRIAPODOLOGISTES**

MUSÉUM NATIONAL D'HISTOIRE NATURELLE
Laboratoire de Zoologie-Arthropodes · 61, rue Buffon · 75005 PARIS · France

1985

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1985

S O M M A I R E

C O N T E N T S

Z U S A M M E N F A S S U M

| | Pages Seite |
|--|----------------|
| Après le 6ème... <u>Avanti</u> pour le 7ème Congrès..... | 1 |
| Concluding remarks on the 6th Congress, by J.G.E.Lewis..... | 2 |
| The Myriapod Congress, trilingual song..... | 4 |
| Quelques annonces: <u>Myriapodologica</u> / H.F.LOOMIS separata..... | 5 |
| ProvisionalAtlas / C.H.BROOKES Memorial lecture.. | 6 |
| Bull,British Myriapod Group..... | 7 |
| ON RECHERCHE... WANTED... WIR SUCHEN..... | 8 |
| sujets actuellement abordés ou en projet Matter being dealt or scheduled | 9 |
| Bereits laufende oder in Vorbereitung befindlich vorhaben | |
| Tableau analytique sommaire des travaux parus et sous-presse Analytical summarized table of the papers published or in press..... | 13 |
| Analytische Inhaltverzeichniss der erschienenen oder im Druck Arbeiten | |
| LISTE DES TRAVAUX PARUS ET SOUS PRESSE EN 1984 LIST OF WORKS PUBLISHED OR IN PRESS IN 1984 | 15 |
| LISTE DER ERSCHIENENEN- UND IM DRUCK ARBEITEN DES JAHR 1984 | |
| ADDENDA..... | 42 |
| ANNUAIRE MONDIAL DES MYRIAPODOLOGISTES WORLD DIRECTORY OF MYRIAPODOLOGISTS | 43 |
| WELTJAHRBUCH DER MYRIAPODOLOGEN | |
| TO OUR COLLEAGUES, A NOS COLLEGUES , AN UNSEREN KOLLEGEN !..... | 47 |

Couverture: Spermatophore de Gravieripus latzeli (Eurypauropidae)
 Photographie de Klaus Hasenhütl, généreusement offerte
 aux Myriapodologistes par son auteur.

APRES le SIXIEME CONGRES.....

AVANTI POUR LE SEPTIEME !

Le secrétariat permanent du CIRI tient à exprimer ici toute la reconnaissance des Myriapodologistes et toutes ses félicitations à notre ami C.A.W. JEEKEL, pour le succès magnifique du sixième Congrès de Myriapodologie d'Amsterdam, remarquable par son contenu scientifique et par son ambiance détendue et sympathique. Organisé de main de maître, avec l'aimable concours de madame Jeekel et l'aide efficace de l'équipe dévouée du Musée de Zoologie Taxonomique, ce Congrès d'Amsterdam restera dans les mémoires de tous ceux qui ont pu y participer*

En assemblée plénière, deux décisions ont été prises:

- Acceptation de l'invitation pour le 7ème Congrès, à Padoue en 1967, , par le Professeur MINELLI.
- Le professeur THALER acceptant de prévoir une solution de repli sur Innsbruck, en cas d'impossibilité pour Padoue.
- Sur proposition du Dr. JEEKEL, notre collègue Henrik ENGHOFF est pressenti pour faire partie du Comité permanent des Congrès, sorte de Comité des "Sages" informel qui comprend, outre le secrétariat du CIM, les organisateurs des Congrès précédents et futurs. □ Henrik ENGHOFF est élu à l'unanimité.

* Les non-participants peuvent obtenir les Proceedings à un prix intéressant en envoyant rapidement leur commande (formulaire joint à notre bulletin) directement au Dr. JEEKEL

□ Demange, Mauriès, Kraus, Blower, Camatini, Hoffman, Jeekel, Minelli, Thale,

CONCLUDING REMARKS ON THE 6th CONGRESS

by J. G. E. LEWIS

The subject of phylogeny has loomed large during this Congress: Dohle's paper on chilopod phylogeny must have persuaded many that the Scutigeromorpha were more primitive than other centipede orders but the discussion was lively and those who still believe that long-bodied myriapods are the more primitive will surely return home to muster their arguments for the future. Sahli brought his weight of knowledge of neurohemal organs to bear on the question of phylogeny while Minelli offered evidence from post-embryonic development. The discussion following the latter contribution produced speculation about pattern in antennal and body segment number which will surely be followed up.

There was a general feeling of keen interest in the spectacular fossil material reviewed by both Hannibal and Almond, this leading to a consideration of ecology and functional morphology and the hope that further material might shed some light on phylogenetic problems.

It is obvious that the wind of change is blowing strongly in taxonomy. This was amply illustrated by Hasenhütl and Scheller's papers on Pauropods, Kurnik and Thaler's on Chordeumids and Krabbe's work on the high degree of variation in a single population of Orthoporus. It seems that having realised how chaotic is the state of myriapod taxonomy, workers in different groups are the last getting in right.

Where taxonomy is relatively well known, data on distribution may be compiled. There are encouraging signs that this type of information is steadily increasing. Examples are Fairhurst and Kime's ambitious mapping scheme for European millipedes, Barber's detailed maps for British centipedes which are throwing up some interesting patterns and Andersson's detailed study of the Centipedes of northern Sweden. We all owe a debt of gratitude to those of our colleagues who willingly take on this type of onerous work.

Related to the work on distribution was Jeekel's provocative speculation on the radiation of diplochaet millipedes from the lost continent of Pacifics. Provocative and controversial papers of this type were welcomed and generally the discussions seemed keener than at previous congresses.

Not surprisingly there were a number of contributions on millipede ecology. The scene was set by Blower and Fairhurst's review of life cycle strategies in European species and developed by Geoffroy in a fascinating analysis of distribution in litter and soil. There were accounts of the biology of an incredible animal, Archispirostreptus syriacus in its truly xeric habitat from Bercowicz and Warburg and of the complex effects of altitude on the life cycle of Ommatoiulus moreleti from Read. Peitsalmi reported on a typically detailed study of Proteroiulus and Sahli reported on periodomorphosis. There was a preliminary poster account of millipede ecology on Naxos (Karamaouna and Geoffroy) and in compost heaps in Finland (Rantala). Hüther's paper on Pauropod distribution was welcome, the third contribution on this group. It is to be regretted that nothing was heard concerning the Symphyla.

There was ample evidence of the continued advance of the French School of Endocriniology, Descamps et al. reporting on 5HT and nor-adrenalin and poster exhibits of the work of Jamault-Navarro and Joly. Nair contributed a controversial paper on neuralhemal organs in Jones-peltis. Schlüter and Seifert provided an intriguing account of the complex malpighian system of Polyxenus and its possible role in water relations.

Hopkin and Martin's contribution on the uptake of heavy metals was most welcome. It is to be hoped that such work as this will persuade a large audience that myriapods perform the major roles in ecosystems of which myriapodologists are already aware.

Studies on ultrastructure relate to physiology, taxonomy, ecology and phylogeny. The excellent papers from Nguyen-duy-Jacquemin on millipede antennae, Rosenberg on coxal organs and Beniouri on centiped sperm did just this. The quality of the E.M. and S.E.M. photographs was probably the best we have yet seen.

That the Sixth Congress was a success cannot be in doubt, there seems to have been more animated discussion and a lot of cross fertilisation between different disciplines. Phylogeny was a recurrent theme but there was also a considerable revival of interest in water relations : the basis of the resistance to desiccation demonstrated by Archispirostreptus remains to be investigated yet something is known now of water retention in Polyxenus and the function of coxal organs in Chilopoda for the uptake of water. Meyer and Eisenbein presented some elegant data to show differences in water relations of millipedes from different altitudes in the Alps. For these species the problem was that of reducing water loss but Enghoff described various hydrophilous cave-dwelling millipedes with bizarre mouthparts whose main problem must be that of restricting water uptake.

The myriapods, we now realise, are far more variable, adaptable and ingenious than could have been guessed when M. Demange and M. Murie invited us to meet in Paris for the first Congress seventeen years ago. It is largely at the result of the Congresses that this realisation has come about.

THE MYRIAPOD CONGRESS

Trilingual song, melody acc. to "Die Vogelhochzeit"
 (=The bird's wedding)
 (=Les noces des oiseaux)

Es kamen einst in Amsterdam
 die Myriapodologen zusamm'

REFRAIN: Vidi ralla lala (bis), Vidi ralla lallala.

Join alle in the mille-patte gang
 toute espèce alt and yang

Colin Fairhurst spoke in a very fast pace
 so he got no sponges in his face

Erwin Meyer wollt' auf dem Dache stehn,
 da konnte er die Alpen sehn

La plus spécifique était notre Monique,
 son ultrastructure était magnifique

John Lewis, as he liked the wines,
 got completely lost between his spines.

Professor Kraus war auch nicht lahm
 zeigt Frau und Tochter Amsterdam.

Jean-Jacques Geoffroy avait trop froid,
 en hiver il lui faut couches trois (A 11 - A 13)

Tony Barber did not merit a rhyme,
 for he did not shave for a very long time

Monsieur Mauriès a remplacé
 Monsieur Demange trop enrhumé.

Steve Hopkins will take another glass
 until he will become pure brass.

Ulrich Schlüter, der war ganz perplex,
 als er fand den Enddarm-Malpighi-Komplex.

Some males this time, they came alone,
 clearly responsive to a pheromone.

Focus please and slide before,
 upside down and ask for more.

Elke and Hilke had a good connection
 always being under male protection.

Two times Kimes were welcome,
 soon there'll be three from Belgium.

Jörg Rosenberg appliziert ungeniert
 dem Lithobius den Wasserdampf trittiert.

Monsieur Descamps était bien poli
 to read a paper with Joly.

Mistress Rantala she could not sleep,
 she collected in her compost heap.

Does Cas still smoke his pipe in bed?
 ask her to whom he once was wed.

I fell in love with Jana - she really is the best
 But I doubt that her husband will help me in my quest.

Vermeulen is a Dutchman and wears a Dutchman's hat
 he wears wide black trousers and drinks beers just like that!

Joe and John burrow on into Devonium,
 find a fossil Pandemonium.

Klaus Hasenhütl kam total in Tütl,
 mit Heineken-Bier kühlte er sich sein Mütl.

Göran Andersson did the tourist lead
 to sites without a centipede.

Sing praises for Sahli's railleries
 on glands and intercalaries.

Dr. Minelli , Dr. Minelli
 was looking for his family-tree.

Nun ist der schöne Kongress aus
 und jeder geht vergnügt nach Haus

(avec l'autorisation de Wolfgang Dohle et la complicité
 de Colin Fairhurst ...)

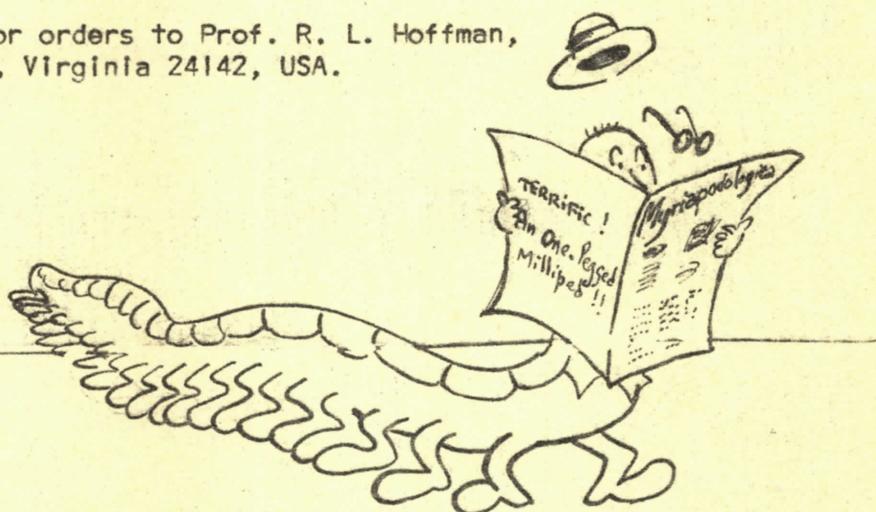
NOW AVAILABLE!

Myriapodologica

Volume 1 of this journal devoted to myriapod systematics is now completed, with 14 separate papers and a total of 104 pages, appearing through the years 1978-1984. Eleven new species are described, as well as two new genera and a new tribe.

This volume, including a title page and table of contents, may be purchased by libraries, museums, and individuals for the price of US \$10 which includes postage.

Address inquiries and/or orders to Prof. R. L. Hoffman,
Radford University, Radford, Virginia 24142, USA.



H. F. LOOMIS SEPARATA

Persons interested in the taxonomy of American Diplopoda, especially of the U. S. and Central America, or who wish to enhance the literature files of their department or institution, are reminded that copies of many papers by H. F. Loomis are still available for distribution.

A list of available separata may be had upon application to the undersigned. Most Loomis papers published after 1950 are in good supply, regrettably those before that date are exhausted or in very limited quantity.

Richard L. Hoffman

Radford University

PROVISIONAL ATLAS OF THE MYRIAPODS OF EUROPE.

Following the decision of the 4th Congress of Myriapodology, it is the intention to :

- send records of Myriapods distribution through Europe to the European Invertebrate Survey and contribute to the Atlas they are preparing

- to ask for ecological details to accompany records so that the distribution of the Myriapods may be related to their habitat and not just to their geographical region. This could lead to a more detailed publication of great use to myriapodologists working in the field.

It is hoped to send both :

- maps of countries marked with the universal transverse mercator grid (this is the grid used by the European Survey) and,

- ecological cards with lists of the Myriapods of their region, to volunteers who would fill in their data and send them to the survey.

VOLUNTEERS ARE ASKED TO CONTACT R.Desmond KIME, 3 square Maas
B- 1630 LINKEBEEK Belgique

*Now, 500 maps of distribution are already started....
....400 only in 1984 !*

CHARLES H. BROOKES MEMORIAL LECTURE

Myriapods and the ancestry of insects

by Professor Wolfgang DOHLE

Free University Berlin

Friday 4th April 1986 , at 6.00 pm
at the Manchester Polytechnic, England

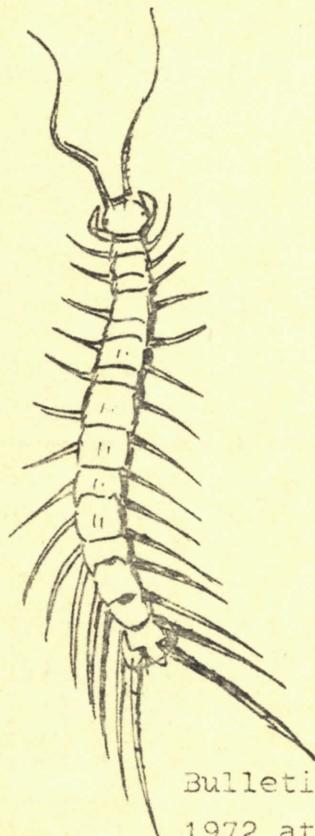
The lecture will be the highlight of the Spring Meeting of the British Myriapod Group 1st-5th April 1986. There will be field excursions and informal discussions. Friends from continental Europe will be welcome. Final details will be circulated to close neighbours of UK or to any who express interest to J.G.BLOWER , Department of Zoology , the University , Manchester , M13 9PL, England.

BULLETIN of the BRITISH MYRIAPOD GROUP

BULLETIN OF THE BRITISH MYRIAPOD GROUP

Volume 2 , January 1985

LIST OF CONTENTS



| | |
|--|-------------------|
| Editorial | 1 |
| Obituaries; S.M. Manton, S.G. Braude-Birks, C.H. Brookes | J.G. Blower 3 |
| Recent records of <u>Thalassiosabates littoralis</u> (Silv.) | P.T. Harding 6 |
| The British Chordeumatidae | J.G. Blower 8 |
| Some notes on <u>Chaetechelyne vesuviana</u> (Newport) | A.N. Keay 24 |
| Three chilopod species not described in "Centipedes of the British Isles" | A.D. Barber 37 |
| The European Myriapod Survey | R.D. Kime 39 |
| Interim Report in the Milliped Recording Scheme | C.P. Fairhurst 42 |
| Pollution Rhythms, Anamorphosis of a Diplopod | |

Hon. Editor : J. Gordon BLOWER , Dpt. of Zoology, University of Manchester
Publication : A.D. Barber, Pathgar, Exeter Road, Ivybridge, Devon, PL21 0PR

Bulletin of the BRITISH MYRIAPOD GROUP first appeared in April 1972 at the time of the Second International Congress of Myriapodology in Manchester. A second volume was prepared for 1973 but for various reasons failed to appear. The present volume is the first of what is hoped will be an annual publication bringing together articles on the myriapods groups.

Volume 2 now available

Price 2.60 plus postage (25p. UK & Ireland, 50p overseas)

Orders to : A.D.BARBER,Dpt. Science & Mathematics
Plymouth College of Further Education,
Kings Road, Devonport, Plymouth PL1 5PU

Cheques, etc... should be made payable to A.D.BARBER

ON RECHERCHE... WANTED... WIR SUCHEN... ON RECHERCHE... WANTED... WIR SU

LIVING or PRESERVED MATERIAL

MATERIEL VIVANT ou CONSERVE

LEBEND- or MUSEUMSMATERIAL

BARBER A.- Chilopoda from Brittany (=Bretagne, France)

ENGHOFF H.- Julidae from S.E. Asia and Canary Isl. for study (loan).

GOLOVATCH S.- Diplopoda from Caucasus and neighbour for identification

HOFFMAN R.L.- Material of any of the "Chelodesmoid" families, especially
Gomphodesmidae, Chelodesmidae, Platyrrhacidae.

JEEKEL CAW.- Paradoxosomatidae of all regions for identification.

KHANNA V.- Living or dead scolopendrid Centipedes for taxonomic studies

KOCH L.E.- Australian Scolopendridae.

KIFFERT K.- Diplopoden von Deutschland, lebend!

MISIOCH M.- Central european Geophilomorpha.

PEDROLI A.- Millipedes from Switzerland

PEREIRA L.- Neotropical Geophilomorpha for identification.

RUHBERG H.- Onychophoren-Material aus der Neotropis (konserviert or lebend)

RUNDLE A.- Exchange named european millipedes and Centipedes for named
british species.

SCHELTER U.- Pauropoda du monde entier.

INFORMATION WANTED

DEMANDES d' INFORMATION

WIR SUCHEN INFORMATIONEN

KHANNA V.- litterature on taxonomy and ecology of Scolopendrid Centipedes

RIBAROV G.- all reprints about taxonomy S.E. european Chilopods after
1960

SUJETS ACTUELLEMENT ABORDES OU EN PROJET

Cette rubrique n'est pas complète. Elle est la somme des renseignements transmis par 94 collègues qui ont bien voulu répondre à notre questionnaire, ce dont nous les remercions bien vivement.

MATTERS BEING DEALT OR SCHEDULED

This list is not claimed to be complete. It consists in all information passed to us by 94 colleagues who were kind enough to answer our questionnaire, for which we thank them very much.

BEREITS LAUFENDE ODER IN VORBEREITUNG BEFINDLICHE VORHABEN

Dieser Abschnitt erhebt keinen Anspruch darauf vollständig zu sein. Er enthält die Summe der Hinweise, die uns durch 94 Kollegen zugegangen sind, welche so freudlich waren, unsere Fragebogen zu beantworten, und denen wir verbindlich danken möchten.

OUVRAGES GÉNÉRAUX

TRAITES: DEMANGE (Général., Morph., Anat., Ontogenèse, etc..), JOLY (Neuroscréation), MAURIES (Syst.), CONDE (Pénicillates et Paupropodes), JUBERTHIE-JUPEAU (Symphyla) = Traité de Zoologie (dir. P.P. Grassé) : Myriapodes.

NOMENCLATURE: JEEKEL, Nomenclator Chilopodorum.

STRUCTURE et PHYSIOLOGIE

MORPHOLOGIE: MINELLI, organisation métamérique des Chilopodes.

TEGUMENTS: SCHLÜTER, structure et composition de la cuticule.

ORGANES SENSORIELS: ERNST, répartition et ultrastructure des sensilles antennaires de Geophilus longicornis. HAUPT, la mue et les organes sensoriels. NGUYEN-DUY, organes sensoriels antennaires des Diplopodes: ultrastructure, étude comparée entre différentes espèces.

APPAREIL DIGESTIF, DIGESTION, ALIMENTATION:

DAVID, régime alimentaire des Diplopodes en forêt

LÄFFERT, intestin moyen des Diplopodes (Rapidostreptus virgator).

MAYER, activité microbienne dans le tube digestif d'un Diplopode de haute montagne (Trimerophorella nivicomes); ultrastructure du rectum, en rapport avec l'équilibre hydrique chez les Diplopodes.

NEUMANN, relations cytologiques et cytochimiques entre l'intestin moyen et les cellules hépatiques pendant la mue chez Oxidus gracilis, et influence du corps gras et des tubes de Malpighi.

SEIFERT, régénération de l'intestin moyen durant le cycle de mue.

APPAREIL RESPIRATOIRE, RESPIRATION, METABOLISME:

CELERIER, respiration des Diplopodes.

DESCAMPS, métabolisme des cellules germinales (Lithobius)

PENTEADO, régulation respiratoire des diplopodes tropicaux; acclimatation thermique et adaptation métabolique; effets des insecticides et toxiques sur le métabolisme respiratoire des diplopodes tropicaux.

APPAREIL EXCRETEUR, EXCRETION : HUBERT, appareil excréteur des Iulida.
 SEIFERT, le complexe cryptonéphrique et l'équilibre hydrique chez Polyxenus lagurus; microorganismes des tubes de Malpighi; t.de M. chez les NEUROSECRETION, ENDOCRINOLOGIE: Trachéates DESCAMPS, action des hormones au niveau cellulaire (Lithobius); JAMAULT-NAVARRO, neurosécrétion neurocérébrale (Chilopoda) JOLY, chez Lithobius, corrélations endocrinianes: mise en évidence expérimentale; action des hormones exogènes au niveau cellulaire. TRIPATHI, neurosécrétion.

APPAREIL GENITAL, voir REPRODUCTION et DEVELOPPEMENT

CYTODEMIE: MINELLI, chromosomes des Chilopoda.

ULTRASTRUCTURE: HOPKIN, métaux lourds chez Lithobius forficatus: RUHBERG, Péripatidae (Onychophora).

BIOCHIMIE, BIOPHYSIQUE:

HOPKIN, métaux lourds (Lithobius forficatus): ultrastructure, rayons X, spectrophotométrie par absorption atomique.

HUBERT, ° piégeage des métaux lourds par les Diplopoda.

REPRODUCTION et DEVELOPPEMENT

Généralités: WARBURG, stratégie de la reproduction chez Archispirostreptus syriacus.
APPAREIL GENITAL:

KURNIK, vulves des Chordeumida, structure et fonction (taxo., biol., écol.)

GAMETOGENESE: DESCAMPS, métabolisme des cellules germinales (Lithobius)

ONTOGENESE: CAUSSA-MORENO, dev. postembryonnaire des Lithobiomorpha.

PEITSALMI, facteurs affectant la croissance et le développement (Diplopoda)
MUE: HAUFT, les organes sensoriels et la mue.

SEIFERT, ° régénération de l'intestin moyen pendant la mue.

PERIODOMORPHOSE:

SAHLI, péridomorphose en rapport avec biologie des populations chez Ommatoiulus, Tachypodoiulus et chez les cavernicoles Typhloblaniulus l.c.
 SEIFERT, chez Diplopoda.

ETHOLOGIE et ECOLOGIE

ETHOLOGIE: BLOWER, cycle vital de Brachygeophilus truncorum.

HANNIBAL, migrations chez les Diplopodes

SAHLI, migrations chez Ommatoiulus sabulosus (aimatopodus) (France, Alpes-Mar
 ZANGH CHONG ZHOU, Scolopendra.

PARASITES:

MARQUES, coccidioides et grégarines des Chilopoda: biologie, ultrastructure, relation hôte-parasite; ° parallélisme entre phylogénies des parasites et des hôtes.

ECOLOGIE:

ALBERT, capture des Arthropodes dans une forêt de feuillus par "photoelect"
 BAKER, distribution, abondance d'Ommatoiulus moreleti en Australie; effets des feux de brousse sur cette espèce; son contrôle biologique en Australie et au Portugal.

BANERJEE, écologie de quelques Diplopoda du sol.

BLOWER, cycle vital de Brachygeophilus truncorum.

CRAWFORD, étude comparée de l'activité en surface des arthropodes des déserts nord-américains et africains.

DAVID, régime alimentaire des Diplopodes en forêt (France, Orléanais)

GEOFFROY, peuplements et populations de Diplopoda saprophages en forêt tempérée/ Diplopoda et Chilopoda de moyenne et haute montagne (Alpes fr.)/ Diplopoda et Chilopoda des milieux souterrains (France: Centre et Causses Major)

HURLEY, contrôle biologique d'Ommatoiulus moreleti dans le sud australien/
 ° écologie urbaine de cette espèce dans la même région.

KIME, myriapodes de biotopes spécifiques (forêts surtout); changements de peuplement le long d'une catena.

NEGREA, Chilopoda des forêts de Roumanie.

READ, Diplopoda (de Madère en particulier).

RUHBERG, Péripatidae (Onychophora).

SAHLI, populations de Cylindroiulus nitidus/populations d'espèces péridomorphiques des genres Ommatoiulus et Tachypodoiulus.

SUMMERS, microhabitats des Chilopoda en forêts.

TAJOVSKY, écologie des Diplopoda.

TRACZ, le rôle des Diplopodes dans la circulation des biogènes/ Proteroiulus fuscus, introduit dans un biotope nouvellement dégradé.

WARBURG, stratégie reproductrice chez Archispirostreptus gigas.

ZAPPAROLI, écologie des Lithobiomorphes d'Italie (et des Chilopodes circum-méditerranéens)

BIOSPEOLOGIE: MATIC, Chilopoda Bulgarie.

NEGREA, Chilopoda : Roumanie, Cuba, Venezuela, Espagne.

SAHLI, périodomorphose chez Typhloblaniulus (Labo. de Moulis).

AGRONOMIE: ALBERT, °Action des insecticides sur la faune arthropodologique.

SYSTEMATIQUE et FAUNISTIQUE

MONOGRAPHIES, FAUNES, CATALOGUES, BIBLIOGRAPHIE, CARTOGRAPHIE:

ANDERSSON, Faune des Chilopodes de Suède

HOFFMAN, Monographie des Oxydesmidae (Tier-Reichs !)/°Monographie des Gomphodesmidae.

KIME, Cartographie des Myriapodes d'Europe (European Invertebrate Survey)

KORSOS, sommaire faunistique des Chilopodes du Bassin des Carpates.

MAURIES, ° rev. Faune de France des Craspedosomides de Brölemann.

MINELLI, Faune des Chilopoda d'Italie/°Monographie des Gomphodesmidae.

PEDROLI, Catalogue faunistique des Diplopodes de Suisse/°Diplopodes de Suisse, avec le Centre de Cartographie de la faune suisse.

REVISIONS, TAXONOMIE, SYSTEMATIQUE, PHYLOGENIE:

CONDE, rév. des genres de Penicillata.

DOHLE, position systématique de Craterostigmus.

ENGHOFF, rév. des Iulidae Oncoiulinae S.E. asiatiques (avec rév. des genres d'Oncoiulinae)/ un nouveau Anaulaciulus (à pattes polymorphes)/ un nouveau Serradium (à pièces buccales modifiées)/ °rév. des g. Dolichoiulus, Ommatoiulus et des Paectophyllinae.

HOFFMAN, biogéographie des Diplopoda en forêt humide montagnarde de Tanzanie.

JEEKEL, Paradoxosomatidae du monde entier

KOCH, rév. taxonomique des Scolopendridae d'Australie.

KORSOS, ° Types de Diplopodes du Mus.Hist.Nat. de Hongrie (Budapest).

LEWIS, Scolopendridae.

MARQUES, °parallélisme entre phylogénie des parasites (Grégaries) et celle de leurs hôtes (Chilopoda).

PEREIRA, rév. des Geophilomorphes néotropicaux.

RUHBERG, rév. syst. des Péripatidae (Onychophora).

SERRA, ° Scolopendromorphes du monde entier.

SUMMERS, rév. des g. Paitobius, Enarthrobius (Lithobiidae américains)

WURMLI, rév. Scutigeromorpha.

ZAPPAROLI, taxonomie, biogéographie, écologie des Chilopoda circum-méditerranéens / ° taxonomie et biogéographie des Chilopoda du Proche-Orient.

DISTRIBUTION

ZONE PALEARCTIQUE

Afrique du Nord: MINELLI, Chilopoda.

Arabie saoudite: LEWIS, Chilopoda.

Autriche: KOREN, synopsis des Chilopoda de Carinthie et Tyrol: Epimorpha,

° Anamorpha - KURNIK, Chordeumides des Alpes (taxo, écol, struct. vulves)

Belgique: KIME, Myriapoda.

Bulgarie: MATIC, Chilopoda (cavarnicoles et épigés)

Espagne: DOMINGUEZ, Symphyles et Pauropodes du sol. JORDANA-BUTTICAZ, Chilopoda de Navarre. MAS-MOLINE, Symphyles de Catalogne. NEGREA, Chilopoda cavernicoles et endogés. SERRA, Chilopoda cavernicoles/ Scolopendromorphes de la péninsule ibérique.

France: GEOFFROY, Chilopoda et Diplopoda (cf. ECOLOGIE)

Gde-Bretagne: BARBER, Chilopoda CROKER, Pauropoda nouveaux d'Angleterre

Irak: MATIC, Chilopoda. RUNDLE, Diplopoda, Chilopoda du Bedfordshire.

Iran: MATIC, Chilopoda.

Irlande: RUNDLE, Chilopoda Diplopoda.

Italie: MINELLI, Faune des Chilopoda. ZAPPAROLI, Lithobiomorpha (Ecologie)

Liban: MATIC, Chilopoda TABACARU, Diplopoda

Pologne: JEDRYCZKOWSKI, Diplopoda Mts Swietokrzyskie/° de la forêt Boreka.

Roumanie: CAPUSE, Geophilomorpha. MATIC, Chilopoda

NEGREA, Chilopoda cavernicoles/ Chilopoda des forêts. TABACARU,

Suède: ANDERSSON, Chilopoda. Diplopoda.

Suisse: PEDROLI, Diplopoda du Tessin et du Jura.

Turquie: MATIC, Chilopoda. TABACARU, Diplopoda.

Yougoslavie: MATIC, Chilopoda.

ZONE ETHIOPIENNE

Afrique orientale: MAURIES, Diplopoda Musée de Florence.

Sierra Leone: BLOWER, Diplopoda.

Tanzanie: HOFFMAN, Diplopoda de la forêt humide de Montagne (biogéographie)

AMERIQUES

SUMMERS,

N.E. Amérique: distribution géographique des Lithobiidae.

Cuba: Negrea NEGREA, Chilopoda cavernicoles

Martinique: MAURIES, Diplopoda.

Mexique: MATIC, Chilopoda.

Venezuela: CAPUSE, Geophilomorpha. NEGREA, Chilopoda cavernicoles.

ZONE INDO-AUSTRALO-PACIFIQUE

Australie: GOLOVATCH, Diplopoda (Tasmanie). JEEKEL, Diplopoda Chilognatha KOCH, Chilopoda.

Inde: GOLOVATCH, Diplopoda. KHANNA, Chilopoda d' U.P. Terai: Scolopendridae. Chilopoda de l'Himalaya-W, taxonomie, écologie.

Indonésie: MAURIES: Craspedosomides (Musée de Göteborg).

Népal: GOLOVATCH : Diplopoda. MATIC, Chilopoda.

Thaïlande: EASON, Lithobiidae. HASENHÜTL, Pauropoda (coll. Martens).

MAURIES: Craspedosomides (Mus. Copenhague) et Cambalides.

Viêt-Nam: GOLOVATCH, Diplopoda.

TABLEAU ANALYTIQUE SOMMAIRE DES TRAVAUX PARUS ET SOUS PRESSE EN 1984
 ANALYTICAL SUMMARIZED TABLE OF THE PAPERS PUBLISHED OR IN PRESS IN 1984
 ANALYTISCHE INHALTVERZEICHNIS DER ERSCHIENENEN ODER IM DRUCK ARBEITEN IM
 JAHR 1984

Les chiffres renvoient à la liste des travaux parus et sous presse
 The numbers refer to the list of papers published or in press
 Die Ziffern an die Liste der erschienenen oder im Druck Arbeiten verweisen

| MYRIPODA | CHILOPODA | DIPLOPODA Chilognatha | PENI- CILLAT | SYM- PHYLA | PAURO- PODA | GYCHO- PHORA |
|---|-----------------|--------------------------|-----------------|---------------|----------------|-----------------|
| GENERALITES, VULGARISATION, etc... | | | | | | |
| 198 | | | | | | |
| Evolution, spéciation.. | 069 186 | 076 077 080 157 | | | | 227 |
| Médecine 018 | 144 | 134 135 | | | | |
| Nécrologie 040 | | | | | | |
| REVISIONS, TAXONOMIE, SYSTEMATIQUE, NOMENCIATURE, etc.. | | | | | | |
| 017 073 074 179 | 079 080 083 085 | 201 | | | | 227 |
| 185 210 211 212 | 111 112 113 114 | | | | | |
| 292 | 257 258 259 260 | | | | | |
| | 261 | | | | | |
| DISTRIBUTION | | | | | | |
| Europe, Afrique et Asie paléarctiques: | | | | | | |
| Gén. 148 | | | | | | |
| Allemagne 243 | | | | | | |
| Autriche | 277 | 181 182 277 | | | | 109 |
| Bulgarie | 220 | | | | | |
| Canaries | | 076 | | | | |
| Chine | | 294 295 | | | | |
| Danemark 82 | | | | | | |
| Espagne | 026 252 255 | | | | | |
| France 090 091 | | 092 174 236 | | | | |
| Gde-Bretagne | 027 028 029 139 | 027 028 039 041 | | | | 189 |
| | | 086 108 213 | | | | |
| Grèce | 291 | | | | | |
| Hongrie | 121 122 | 121 122 | | | | |
| Italie 043 288 | 184 185 289 | 044 045 083 177 123 | | | | |
| | | 269 270 | | | | |
| Japon | 264 | 265 | | | | |
| Macaronésie | 072 102 254 253 | 076 078 219 | | | | 102 |
| Maroc | 293 | | | | | |
| Pologne | | 130 214 | | | | |
| Portugal | | 073 | | | | |
| Roumanie 197 217 | 173 | 053 054 055 | | | | |
| 218 275 | | | | | | |
| Suède | 012 | | | | | |
| Suisse | 067 | 067 | | | | |
| Turquie | 172 | | | | | |
| U.R.S.S. 156 159 180 | 1 | 095 097 183 271 | | | | |
| | | 276 | | | | |
| Zone Ethiopienne: | | | | | | |
| Afr.du Sud | 215 | 216 | | | | |
| Cap Vert(Iles) | 102 | | | | | 102 |
| Malawi | | 136 176 | | | | |
| Sahara 165 | | | | | | |
| Sénégal | 062 | 062 | | | | |
| Tanzanie | | 114 115 116 | | | | |
| Zone Indo-australopacifique: | | | | | | |
| Australie | 023 150 151 152 | 131 132 133 | | | | 154 |
| | 153 155 | | | | | |
| Bornéo | | | | | | |
| Bouthan | | 063 | | | | |
| Inde | 129 143 145 146 | 096 | | | | |
| | 147 | | | | | |
| Papouasie | | | | | | |
| Viêt-Nam | | 098 | | | | 057 |

| MYRIAPODA | CHILOPODA | DIPLOPODA Chilognatha | PENI- CILLAT | SYM- PHYLA | PAURO- PODA | ONYCHO- PHORA |
|-----------------------------|---|-----------------------------------|--|---------------|-------------------|-------------------|
| <u>DISTRIBUTION (Suite)</u> | | | | | | |
| <u>Amériques:</u> | | | | | | |
| Brésil | | 110 117 175 | | 245 | 246 | |
| Canada | 140 141 169 | | | | | |
| Cuba 100 205 | 170 | | | | | 244 |
| Groenland | 042 | | | | | |
| Panama 164 | | | | | | |
| Pérou 106 | | | | | | |
| U.S.A. | | 256 257 258 259 | | | | |
| | | 260 261 262 | | | | |
| Iles Vierges 191 | | | | | | |
| <u>PALEONTOLOGIE</u> | | 107 | | | | |
| <u>ECOLOGIE</u> | 021 037 038 046 047 048 052 056 071 087 089 156 159 161 154 190 218 249 278 281 287 | 121 215 216 274 | 016 023 055 058 059 068 076 099 121 122 149 178 181 182 192 213 215 216 271 274 279 | 124 | 010 245 246 | 189 227 |
| <u>Biospéologie</u> | 020 043 090 091 196 197 217 275 | 290 | 044 045 083 084 092 174 177 269 | | | |
| <u>ETHOLOGIE</u> | | | 192 | | | 225 226 |
| Parasitologie | 125 | 024 163 | 003 004 005 006 007 008 009 120 127 238 282 | 248 | | |
| Myr. proies | 035 251 272 | 025 188 263 | 104 105 188 | | | |
| Myr. prédateurs | 273 | 050 144 250 | | | | |
| Défenses | 166 | 128 171 | 051 | | | |
| Migrations | | | 054 234 | | | |
| <u>AGRONOMIE</u> | 100 106 273 287 | 203 | 023 160 203 | | | |
| <u>REPRODUCTION</u> | | 162 239 | | | | |
| Morphogenèse | 206 | | | | | |
| Gaméto-génèse | | 030 240 | 194 | | | |
| Développement | | 013 014 015 022 187 204 | 019 031 032 033 034 060 061 068 088 093 231 | | 010 | |
| Périodomorphose | | | 228 229 232 235 237 | | | |
| Mue | | 162 | | | | |
| <u>STRUCTURE, ANATOMIE</u> | | | | | | |
| Gén.: 066 193 | 142 167 | 199 280 285 | 247 | | | 225 226 227 |
| Térapie | | 233 | | | | |
| Cytologie | 101 | 001 002 011 | | | | |
| Ultrastructure | 064 204 221 222 224 | 138 | | 200 202 | | |
| Endocrinol. | 230 | 126 137 283 | | | | |
| Experim. | 030 | | | | | |
| Autoradiogr. | 065 | | | | | |
| <u>BIOCHIMIE</u> | 118 | | | | | |
| <u>PHYSIOLOGIE</u> | 193 | 223 241 242 195 207 266 267 | 036 094 103 120 208 209 268 286 | | | 049 |

LIST of WORKS PUBLISHED or in PRESS in 1984

Papers already in the printer in 1983 do not figure in the list if they are still in press in 1984

Since 1977, works in press will be only listed if accompanied by the name of the periodical and the approximate number of pages.

LISTE des TRAVAUX PARUS et sous PRESSE en 1984.

Les notes déjà sous-presse en 1983 et qui le sont encore en 1984 ne figurent pas dans la liste ci-après.

Depuis 1977, les travaux sous-presse ne figurent dans la liste que si le nom du périodique et le nombre approximatif de pages sont indiqués.

LISTE der ERSCHIENENEN- und DRUCK- ARBEITEN des Jahres 1984

Einige Arbeiten, die sich schon 1983 im Druck befanden, sind es noch 1984; demzufolge scheinen sie nicht in der Liste auf.

Seit 1977, werden die Arbeiten im Druck nur auf die Liste stehen, wenn die der Name der Zeitschrift und die ungefähre Zahl der Seiten angegeben sind.

- 001 ACHAR K.P..- Karyological studies in nine species of Indian Diplopoda (Myriapoda). *The Nucleus*, 26, 3:191-197, 1983
- 002 ACHAR K.P..- The use of G-banding technique in the chromosome studies of a millipede species *Spirostreptus asthenes*. *Curr. Sci.*, 52, 11: 540-543, 1983
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- BAJORAT K.H...- cf. 223, 224

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BIDER .- cf. 047
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- 042 BOCHER J. et ENGHOFF H..- A centipede in Groenland: Lamyctes fulvicornis Meinert, 1868 (Chilopoda, Lithobiomorpha, Henicopidae). Ent. Meddr., 52: 49-50
BODDY L. cf. 274
- 043 BONZANO C..- Considerazioni generale sulla fauna cavernicola delle Alpi apuane. Le Grotte d'Italia, 4, 11: 123-132, 1983
- 044 BONZANO C., et REDA BONZANO B..- Fauna cavernicola elenco dei diplopodi delle grotte liguri (esclusi i d. craspedosomatidi). Boll. G.S. Imperiese, 11, 16: 41-48, 1981
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- BURGMAN M.A..- cf. 155
- CABRAL R.A..- cf. 286
- 049 CAMPAGLIA S.S. et LAVALLARD R..- Water loss Peripatus acacioi (Onychophora) during experimental immobilization. Vie et Milieu, 32, 3:171-174, 1982
- 050 CARPENTER Ch.C. et GILLINGHAM J.C..- Giant centipede (Scolopendra alternans) attacks marine toad (Bufo marinus). Caribb. J. Sci., 20, 1-2: 71-72
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- CHAMBERS R.J..- cf. 273
- 056 CHEMSEDDINE M..- Contribution à l'écologie de la Crau (B.D.R.) Structure et fonctionnement du peuplement des arthropodes terrestres du Coussou. Th. 3e cycle Zooécol., Aix-Marseille, 169pp, 1982
- 057 CONDE B. et NGUYEN-DUY M..- Diplopodes Pénicillates de Papouasie et de Bornéo. Rev. Suisse Zool., 91, 1:47-55
- CONDE B..- cf. 201
- COURET T.- cf. 061

- 058 CRAWFORD C.S., GOLDENBERG S. et WARBURG M.R..- Seasonal water balance in Archispirostreptus syriacus (Diplopoda: Spirostreptidae) from mesic and xeric Mediterranean environments. J. Arid Environ., sous presse.
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- DASS C.M.S..- cf. 129
- 60 060 DAVID J.F..- Lecycle annuel du Diplopode Microchordeuma gallicum (Latzel, 1884). Bull. Soc. Zool. France, 109, 1: 61-70
- 061 DAVID J.F. et COURET T..- La fin du développement postembryonnaire en conditions naturelles de Polyzonium germanicum (Brandt) (Diplopoda, Polyzoeniida). Bull. Mus. Natn. Hist?Nat., Paris, (4), 6, sect.A, 4: 1067-1076
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- DESCAMPS M..- cf. 030
- 066 DESHPANDE S.B. et PATHAN K.M..- On the pregenital abdominal muscular system in Nymphal and adult Heptagenia diabasea (Ephemeroptera). J. anim. Morphol. Physiol., 29, 1-2: 272-279, 1982
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- 068 DOHLE W..- Pollution Rhymes, Anamorphosis of a Diplopod. Bull. British Myr. Group., 2: 48, 1985

- 069 DOHLE W...- Phylogenetic pathways in the Chilopoda. Proc. 6th Int. Congr. Myr., Amsterdam, sous presse
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- 071 DUNGER W...- Beobachtungen an Collembolen und anderen Antennen in offenen Sandtrockenstellen einer Fichtenplantzung. Abh. Ber. Naturk. Görlitz, 58, 5: 1-20,
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