

Mesozoic Fish News

Volume 1, Number 2

June 16, 1994



Group photo of conference participants, Jura Museum, Eichstätt, Germany, 1993.

Newsletter Name Update

by Mark Wilson

Many thanks to all those who submitted suggestions for the name. Unfortunately, no clear choice has emerged from the judging. The list of suggestions is provided on page 2, so that all readers can vote for their personal favourite. Names preceded by a * were the five finalists, each receiving nearly equal support from judges. In view of the lack of consensus, the current name, one of the finalists, remains in place for now. Please indicate your preference(s) with your next submission.

It would also be nice to have a symbol or logo for the newsletter and for our interest group. See page 5 for details on how to make suggestions, and thanks in advance for any and all ideas. I propose to choose the winner, to

("Newsletter Name" continued on page 2)

Potential of Mesozoic Fish Microfossils to Aid Biostratigraphy

by Susan Turner

Several people have been in contact about the suggestion to propose an IGCP project to include Mesozoic microvertebrates.

Favourable responses have come from Dr. H. Capetta (France), David Ward (UK), Noel Kemp (Australia), G. Prasad (India), and D. Thies (Germany). Other interested parties include Marji Johns (Canada).

If others are interested in this project please contact Sue Turner as we hope to develop a project to succeed IGCP 328 (Paleozoic Microvertebrates). This topic will be discussed at the IGCP 328 Annual General Meeting in Moscow on July 9, 1994. ■

II International Symposium "Lithographic Limestone" Cuenca - Spain July 9-16, 1994

Contact:
Bernardo P. Pérez-Moreno,
Unidad de Paleontología,
Departamento de Biología,
Facultad de Ciencias,
Universidad Autónoma de Madrid,
28049 - Madrid,
SPAIN

("Newsletter Name" continued from page 1)

keep the process simple.

Here is the complete list of newsletter names suggested by various readers, of various ages and degrees of seriousness:

Amazing Technicolour Dreamfish
(The) Complete Mesoangler

Fisch Fiche

Fish Bone Pickings

Fish Tales

* Fishes of the Mesozoic — A Newsletter

Flat Fossil Fish

IchthyoLexicon

IchthyoLexis

IchthyoLog

IchthyoLogos

IchthyoLogica

* MesIchthyoLog

MesIchthyoLogos

Mesichthyologist

Meso Mash

Mesoangler

MesoFishes

Mesoichthyologist

MesoPisciForum

MesoPisciNews

Mesopisco News

MesoPoissoNews

Mesozoic Chronicles

Mesozoic Fish Facts

* Mesozoic Fish News

* Mesozoic Fish Tales

Mesozoic Fishes

Mesozoic Mail

Mesozoic Miscellany

Mesozoic Minutes

Mesozoic Records

Middle-Aged Angler
Middle-Aged Fish Tales
Midlife Angler
Midlife Crises in Fish Evolution
Midlife Fish Tales
PisciForm
PisciForum
Poisson Distributions
Poissons Mesozoiques
REAL Fish
* The Compleat Mesoangler ■

Fish Tales:

News from Readers

Arratia, Gloria, *Change of address effective Sept. 1*: Paläontologisch-Geologisches Institut und Museum, Museum für Naturkunde der Humboldt-Universität, Invalidenstr. 43, D-10115 Berlin, Germany.

Fax: 49-30-28972561

Blieck, Alain, Université des Sciences et Techniques de Lille Flandres Artois, Sciences de la Terre, URA 1365 du CNRS, F-59655 Villeneuve d'Ascq Cédex, France.

Phone: 33-20 43 4140

Fax: 33-20 43 69 00

Current research: 1) Paleozoic agnathans (Heterostraci); 2) taxonomy, phylogeny, biostratigraphy, paleobiogeography (mainly Ordovician to Devonian).

Bürgin, Toni, Hellberg, CH-8626 Ottikon, Switzerland.

Phone: 01-259-4178, 01-935-4421

Current research: 1) neopterygian fishes from the Middle Triassic of Monte San Giorgio, Switzerland; 2) a Middle Triassic fish fauna from eastern Switzerland; 3) fish remains from the Miocene of Crete.

Duffin, Chris, 146 Church Hill Road, Sutton, Surrey SM3 8NF, England.

Phone: 081-644-7028

Current research: 1) Triassic, Jurassic and Cretaceous microvertebrate faunas from Britain, Germany and Belgium; 2) new articulated Sinemurian neoselachian shark from Osteno (Italy); 3) revision and description of new Toarcian neoselachians from Holzmaden (Germany); 4) Mesozoic chimaeroids.

Jackson, Keith L., Department of Zoology (Dept. Biological Sciences after July 1), University of Alberta, Edmonton, Alberta, T6G 2E9, Canada.

Phone: (403) 492-1298

(See "Fish Tales": continued on page 3)

("Fish Tales": continued from page 2)

Fax: (403) 492-9234

E-mail: kjackson@gpu.srv.ualberta.ca

Current research: 1) systematics of Psychrolutidae; 2) would appreciate reprints on teleost osteology and systematics.

Kemp, Anne, Department of Anatomical Sciences, University of Queensland, St. Lucia, Queensland 4072, Australia.

Phone: 61 7 365 2955 or 1943

Fax: 61 7 365 1299

E-mail: A.Kemp@mailbox.uq.oz.au

Items suitable for the newsletter:

- news from your lab or reports of fieldwork
- statement of research interests
- meeting announcements
- hints or questions on techniques
- small photos of problematical fossils that someone else might be able to identify
- small photos of Mesozoic fish or of localities, field parties, etc. (please!)
- employment and graduate school opportunities available or needed
- publications (last two years, not previously listed)
- address changes

Remember, keep items short (less than 100 words).

Long items may have to be edited or omitted.

Items such as photos should have no copyright restrictions.

Send submissions to:

- electronic mail:

Mark_Wilson@biology.ualberta.ca

- FAX:

Dr. M. V. H. Wilson
1-403-492-9234

- regular mail:

Dr. M. V. H. Wilson
Dept. of Biological Sciences
University of Alberta
Edmonton, Alberta T6G 2E9
CANADA

Next Deadline October 30/94

Optional Contribution to defray expenses of production and mailing:

\$5. U.S. per year

In lieu of money, please send copies of publications with your news if you can.

ASIH 1995

Edmonton, Alberta Canada

75th Annual Meetings of the

American Society of
Ichthyologists and Herpetologists

with

American Elasmobranch
Society

June 15-19, 1995

Featuring the symposium:
"Interrelationships
of Fishes"

Also take time to visit:

- Paleontology Museum & Laboratory for Vertebrate Paleontology
- West Edmonton Mall, the world's largest, with indoor lakes & amusement park
- Royal Tyrrell Museum of Palaeontology (in Drumheller)
 - Dinosaur Provincial Park, Alberta
 - Burgess Shale in Yoho National Park, British Columbia
 - Banff and Jasper National Parks in the Canadian Rockies, including Columbia Ice Fields, Lake Louise, etc.

See you here!

Current research: 1) taxonomy and phylogeny of Mesozoic and Cenozoic dipnoans; 2) conservation of Recent lungfishes; 3) development of Recent lungfishes; 4) palaeopathology of fishes, especially lungfish; 5) writing a book on lungfishes; 6) new ways to assess the affinities of conodonts.

Kemp, Noel R., Tasmanian Museum, GPO Box 1164M, HOBART, Tasmania 7001, Australia.

Phone: 61-02-350720

Fax: 61-02-347139

E-mail: mus_noelk@ecc.tased.edu.au

Current research: all things chondrichthyan from the Cretaceous.

Kriwet, Jürgen, Frei Universität Berlin, Institut für Paläontologie, Malteserstraße 74-100, Haus D, D-12249 Berlin, Germany.

Phone: {49} (030) 7792-273

Fax: {49} (030) 7762-070

Current research: (1) work on elasmobranch remains from the Barremian of north-eastern Spain; (2) description with my colleague Uwe Gloy of new pycnodontid fishes from the

(See "Fish Tales": continued on page 4)

**VIII International Meeting:
Early Vertebrates/
Lower Vertebrates**

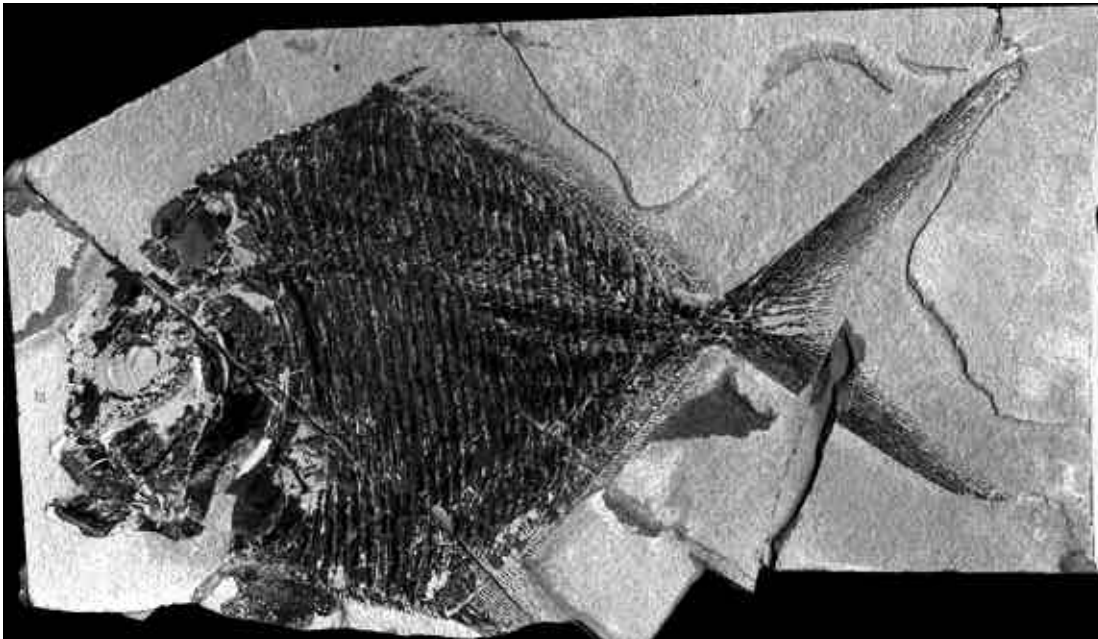
**Paris - France
September 4-9, 1995**

Contact:
Early Vertebrates/Lower Vertebrates
Laboratoire de Paléontologie - URA 12
8, rue Buffon
75005 Paris, France

(*"Fish Tales": continued from page 3*)

Lower Cretaceous of north-eastern Spain; (3) description of some unknown neoselachians from the Upper Jurassic coal min Guimarota.
Lambers, Paul H., Paleontologische Werkkamer, Biologisch Centrum, Postbus 14, 9750 AA Haren, the Netherlands.

Phone: 31-50-632267(w), 136591(h)
Fax: 31-50-635205



Bobasatrania in UALVP collections from Wapiti Lake, British Columbia, Canada.

Current research: (1) study of Mesozoic halecostomes (pycnodonts, caturids, pachycormids, pholidophorids); (2) study of the jaw joint and tail in halecostomes; (3) study of some Mesozoic coelacanth; (4) finishing two papers on Caturids and pachycormids, extracted from my thesis.

Maisey, John G., Department of Vertebrate Paleontology, American Museum of Natural

Palaeontological Association Field Excursion -

Exceptionally Preserved Biotas

Messel, Solnhofen, Holzmaden & Ries Crater
Sept. 8 - 13, 1994

Contact: Dr. M. E. Collinson, Geology Dept.,
Royal Holloway University of London,
Egham, Surrey TW20 0EX U.K.
Tel. 0784 443607 Fax 0784 471780

History, Central Park West @ 79th Street, New York, NY 10024-5192, USA.

Phone: (212) 769-5811

Fax: (212) 769-5842

E-mail: maisey@amnh.org

Current research: 1) systematics of Lower Cretaceous fishes from the Santana Formation (NE Brazil); 2) ionoscopid/basal halecomorph relationships; 3) feeding and reproduction in fossil fishes; 4) Cretaceous fish assemblages from Venezuela and Colombia.

Nazarkin, M.V., Lab. of Ichthyology, Institute of Biological Problems of the North, Far East Center, Academy of Sciences of Russia, 685000

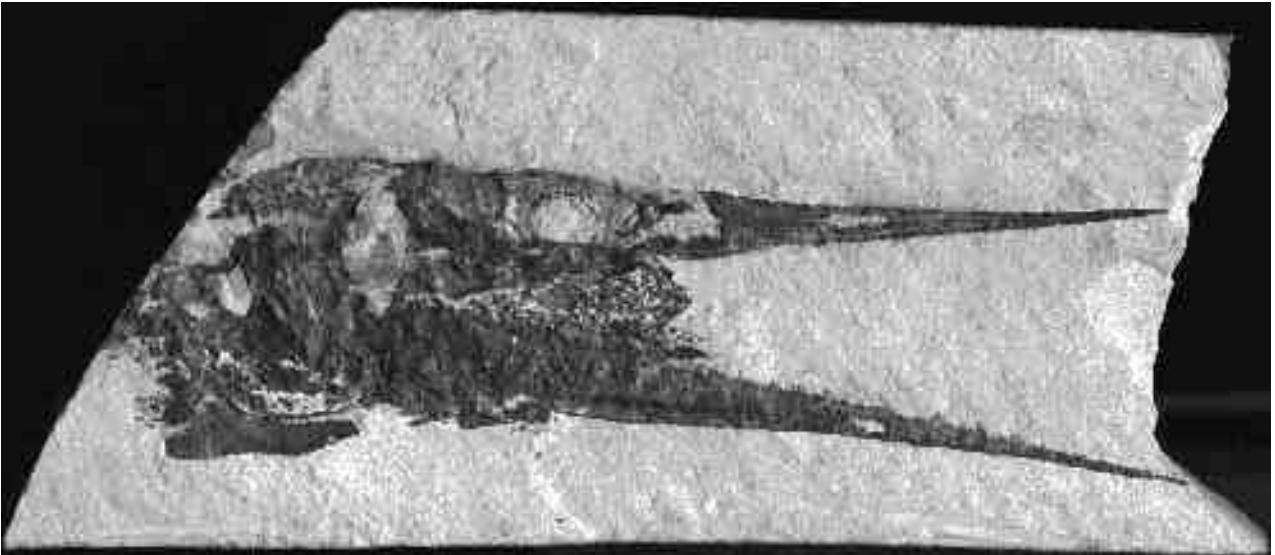
Magadan, K. Marx str. 24, Russia.

Nelson, Joseph S., Department of Biological Sciences (formerly Dept. of Zoology), University of Alberta, Edmonton, Alberta T6G 2E9 Canada

Phone: (403) 492-4741 (or message at 3308)

Fax: (403) 492-9234

(See *"Fish Tales": continued on page 5*)



Saurichthys skull in UALVP collections from Wapiti Lake, British Columbia, Canada.

(“Fish Tales”: continued from page 4)

Current research: The third edition of my book *Fishes of the World* is now available. See the separate announcement in this newsletter for details. I was pleased to attend the 1993 Eichstätt conference and the book was better for my discussions with people there. I ask that readers of the newsletter send me either reprints or references to their systematic works so that the fourth edition may include even more on fossil fish groups. Thank you!

Northwood, Caroline, La Trobe University, Melbourne, Australia.

Current research: 1) Ph. D. student of Dr. Anne Warren; 2) paleoecology of Early Triassic sites at Rewan and Duckworth Creek in central Queensland; 3) would appreciate reprints on actinopterygian scale variation - has identified several actinopterygian scale types including *Saurichthys*. (Submitted by Sue Turner).

Schaeffer, Bobb, 1400 East Avenue, No. 505, Rochester NY 14610, USA.

Phone: (716) 271-5935

Fax: c/o George McIntosh, Rochester Museum & Science Center

Current research: Continuing analysis of lower actinopterygian (see Gardiner & Schaeffer, 1989) for more thorough analysis of interrelationships via PAUP and MacClade (with B. Gardiner, King’s College, London); details will be supplied on request.

Schultze, Hans-Peter, change of address,

(See “Fish Tales”: continued on page 6)

Santana Fossils: an Illustrated Atlas

Edited by John Maisey

TFH Publications, Neptune City, NJ, U.S.A.
459 pp.

Copies of this book are still available at considerable savings (\$75. rather than publisher’s price of \$200.) directly from John Maisey (MAISEY@AMNH.ORG), American Museum of Natural History.

Logo Suggestions for the Newsletter & Group Deadline October 30, 1994

Whatever the name of the newsletter, it’s time to think about the next need - a logo or symbol suitable for use on the newsletter and also for announcements, communications, or conferences that our group might wish to organize in the future. To keep the process simple, the editor will be the final judge.

Guidelines:

- Logo should be in black and white only.
- Suitable for reduction to a size no larger than 5 cm X 5 cm.
- May be drawn with black pen by hand, or printed by computer, or submitted as a file on floppy disk.
- Chosen entry will be read or converted or scanned or redrawn into a form suitable for printing by computer.
- Person submitting the chosen idea will be announced in the next issue.

("Fish Tales": continued from page 5)

effective 1 July 94: Paläontologisch-Geologisches Institut und Museum, Museum für Naturkunde der Humboldt-Universität, Invalidenstr. 43, D-10115 Berlin, Germany.

Fax: 49-30-28972561

Tintori, Andrea, corrections to previous listing:

Phone: 39 2 23698202

Fax: 39 2 70638261

Tokaryk, Tim, change of address, effective immediately: Earth Sciences, Royal Saskatchewan Museum, Wascana Park, Regina, Saskatchewan, S4P 3V7, Canada.

Phone: 787-9053

Fax: 787-2820

Wenz, Sylvie, Laboratoire de Paléontologie, Muséum national d'Histoire naturelle, 8 rue Buffon, F-75005 Paris, France.

Phone: 33 1 40 79 30 04

Fax: 33 1 40 79 35 80

Current research: 1) Late Jurassic and Early Cretaceous fishes from Europe (France, Spain ...); 2) study of ex-Holostei fishes from north-east Brazil. ■

Fisch Fiche:

Recent Publications

Barale, G., Martinell, J., Martinez-Delclos, X., Poyato-Ariza, F. J., & Wenz, S. In press, 1994. Les gisements de calcaires lithographiques du Crétacé inférieur du Montsec (Province de Lérida, Espagne): apports récents à la paléobiologie. *Geobios* mém sp., 16.

Bartholomew, P., Lund, R., & Kemp, A. 1992. The mineralisation of fish dental hard tissues. *In Structure, Function and Evolution of Teeth*. Edited by P. Smith and E. Tchernov. Freund Publ. House, Tel Aviv, pp. 1-10.

Bürgin, T. 1992. Basal ray-finned fishes (Osteichthyes;

("Fisch Fiche": continued on page 7)

"Ichthyolith Issues"

IGCP 328 Newsletter on Palaeozoic Microvertebrates

Subscription \$20 (Australian) payable to
Queensland Museum
(Microvertebrate Account)

Send to:
Dr. Susan Turner
Queensland Museum
PO Box 3300
S. Brisbane, Qld 4101
AUSTRALIA

Fishes of the World, 3rd Edition

by Joseph S. Nelson

John Wiley & Sons, New York

600 pp.

The completely revised third edition of this book (ISBN 0-471-54713-1) gives a more expanded and critical treatment of fish groups and their phylogenetic relationships than the 1984 second edition, for both fossil and extant groups.

The inside cover gives a revised "Hierarchy of higher categories of fishes". A brief discussion of fish diversity, classification and systematics, and biogeography are found in the introduction. Although the emphasis of the book is on fishes, the lower chordate taxa, including conodonts, are discussed. Some eight monophyletic classes of vertebrates, with over 48,100 extant species, are recognized. Fishes are placed in all eight, with tetrapods being placed in one, the Sarcopterygii. All 482 recognized families of extant fishes, which contain about 24,600 species, are discussed. For most of these families there is an illustration and common name and for each there is a statement on the general habitat and range, a brief description, a listing of all or a sample of major genera, and an estimate of the number of species.

Categories above the family level and higher categories of fossil fishes are also discussed, and modern alternative and controversial schemes in classification are often mentioned. The book also gives four cladogram charts, a diagram showing the relative number of species of major taxa, a checklist of families, and about 1500 references to current literature through 1993. The 45 distribution maps of the 2nd edition have been omitted in order to devote more space to text.

For ordering information please contact John Wiley & Sons, Inc. appropriate to your area: in the USA at 1 Wiley Drive, Somerset, NJ 08875-1272 (FAX 908-302-2300)—also for the rest of N. & S. America (except Canada), the Middle East, and from all other areas if stock not carried); in Canada at 22 Worcester Road, Rexdale, Ontario M9W 1L1 (Fax 416-675-6599). John Wiley & Sons, Inc. also has offices in Chichester (England) for Europe, Brisbane for Australia, and Singapore for most of Asia. Orders may also be placed directly with credit card within USA by calling 1-800-225-5945 or from elsewhere 908-469-4400 between 0830 and 1730 hours EST (you will be asked recorded questions re how your call is to be directed before getting a live representative).

North American Paleontological Convention NAPC - VI

Smithsonian Institution, Washington D.C.

June 9-12, 1996

Contact: M. A. Buzas, Chair, NAPC VI
Dept. Paleobiology, NMNH MRC-121
Smithsonian Institution
Washington, D.C. 20560 U.S.A.

("Fisch Fiche": continued from page 6)

Actinopterygii) from the Middle Triassic of Monte San Giorgio (Canton Tessin, Switzerland). Schweiz. Paläont. Abh., **114** : 1-164.

— & **Furrer, H. 1992.** Zähne und Kieferreste der Gattung *Birgeria* (Osteichthyes, Actinopterygii) aus der ostalpinen Obertrias der Bergüner Stöcke (Kanton Graubünden, Schweiz). Eclogae Geol. Helv., **85** : 931-946.

— & — **1993.** Kieferreste eines grossen Strahlenflossers (Osteichthyes; Actinopterygii) aus der ostalpinen Obertrias der Bergüner Stöcke (Kanton Graubünden, Schweiz) und Diskussion der Validität von *Birgeria costata* (Münster 1839). Eclogae Geol. Helv., **86** : 1015-1029.

Cappetta, H., Duffin, C. J., and Zidek, J. 1993. Chapter 34. Chondrichthyes. In *The Fossil Record 2*. Edited by M. J. Benton. Chapman & Hall, London, pp. 593-609.

Delsate, D., & Duffin, C. J. 1993. Chondrichthyes du Sinemurien de Belgique: Révision et compléments aux Hybodontidae et Holocephales. Présence des Neoselachii *Palaeospinax* Egerton 1872 et *Agaleus* Duffin et Ward 1983. Belgian Geological Survey, Professional Paper, **264** : 103-136.

Dettman, M. E., Molnar, R. E., Douglas, J. E., Burger, D., Fielding, C., Clifford, H. T., Francis, J., Jell, P., Rich, T., Wade, M., Rich, P. V., Pledge, N., Kemp, A., & Rozefelds, A. 1992. Australian Cretaceous terrestrial faunas and floras: biostratigraphic and biogeographic implications. Cretac. Res., **13** : 107-262.

Duffin, C. J. 1992. A myriacanthid holocephalan (Chondrichthyes) from the Sinemurian (Lower Jurassic) of Osteno (Lombardy, Italy). Atti della Società Italiana di Scienze Naturali e del Museo Civico di Storia Naturale di Milano, **132** : 293-308.

— **1993a.** Late Triassic shark's teeth (Chondrichthyes, Elasmobranchii) from Saint-Nicolas de Port (north-east France). Belgian Geological Survey, Professional Paper, **264** : 7-32.

— **1993b.** Mesozoic chondrichthyan faunas. 1. middle Norian (Upper Triassic) of Luxembourg. Palaeontographica A, **229** : 15-36.

— **1993c.** New record of the phoebodontid chondrichthyan *Thrinacodus ferox* (Turner, 1982) from the Carboniferous of England. Belgian Geological Survey, Professional Paper, **264** : 1-6.

— **1993d.** New records of Late Jurassic sharks teeth from southern Germany. Stuttgarter Beiträge zur Naturkunde, Series B.

— **1993e.** The palaeospinacid shark "*Synechodus*" *jurensis* (Schweizer, 1964) from the Late Jurassic of Germany. Belgian Geological Survey, Professional Paper, **264** : 157-174.

— **1993f.** Reworked Courceyan (Early Carboniferous)

chondrichthyan remains from British Triassic cave deposits. In IGCP328: SDS The Gross Symposium. Edited by S. Turner : 2.

— **1993g.** Teeth of *Hybodus* (Selachii) from the Early Jurassic of Lyme Regis, Dorset (southern England): preliminary note. Belgian Geological Survey, Professional Paper, **264** : 45-52.

— **In press.** Myriacanthid holocephalans (Chondrichthyes) from the British Late Triassic. Neues Jahrbuch für Geologie und Paläontologie Abhandlungen.

— & **Delsate, D. 1993a.** The age of the Upper Triassic vertebrate fauna from Attert (Luxembourg, Belgium). Belgian Geological Survey, Professional Paper, **264**.

— & — **1993b.** A new myriacanthid holocephalan (Chondrichthyes) from the Early Jurassic of Luxembourg. Neues Jahrbuch für Geologie und Paläontologie Monatshefte, **1993** : 669-680.

— & **Patterson, C. In press.** The Jurassic fishes of Osteno. Palaeocronache.

— & **Sigogneau-Russell, D. 1993.** Fossil shark teeth from the Early Cretaceous of Anoual, Morocco. Belgian Geological Survey, Professional Paper, **264** : 175-190.

— & **Ward, D. J. 1993.** The Early Jurassic palaeospinacid sharks of Lyme Regis, southern England. Belgian Geological Survey, Professional Paper, **264** : 53-102.

Kemp, A. 1992a. New neoceratodont cranial remains from the late Oligocene-middle

Miocene of Northern Australia with comments on generic characters for Cenozoic lungfish. J. Vertebr. Paleontol., **12** : 284-293.

— **1992b.** Ultrastructure of the developing dentition in the Australian lungfish, *Neoceratodus forsteri* (Kreffft). In

Structure, Function and Evolution of teeth.

Edited by P. Smith and E. Tchernov. Freund Publ. House, Tel Aviv, pp. 11-33.

— **1993a.** *Ceratodus diutinus*, a new fossil ceratodont from Cretaceous and Tertiary deposits in Australia. J. Paleontol., **67** : 883-886.

— **1993b.** Problematic fossil dipnoans from Australia. In *The Nonmarine Triassic*. Edited by S. G. Lucas and M. Morales. New Mexico Museum of Natural History Science Bulletin, **3** : 223-227.

— **1993c.** An unusual oviposition site for *Neoceratodus forsteri*. Copeia, **1993** : 240-241.

— & **Nicoll, R. 1993.** A histochemical analysis of biological residues in conodont elements. In *SDS: Gross Symposium*. Edited by S. Turner.

Lambers, P. 1992. On the ichthyofauna of the Solnhofen Lithographic Limestone (Upper Jurassic, Germany). Ph.D. dissertation, University of Groningen, x + 336 p.

— **In press.** The halecomorph fishes '*Caturus*' and '*Amblysemius*' in the Lithographic Limestone of Solnhofen (Tithonian), Bavaria. Geobios, mém. spec., **16**.

— **In press.** The actinistian fish '*Macropoma willemoesii*' Vetter from the Late Jurassic lithographic limestone of Solnhofen, Bavaria. In *Mesozoic Fishes - Systematics*

("Fisch Fiche": continued on page 8)



("Fisch Fiche": continued from page 7)

and *Palaeoecology*. Edited by G. Arratia, and G. Viohl. Verlag Dr. Pfeil (Muenchen).

— & **Arratia, G. In press.** The caudal skeleton of Pachycormiformes: parallel evolution? In *Mesozoic Fishes - Systematics and Palaeoecology*. Edited by G. Arratia, and G. Viohl. Verlag Dr. Pfeil (Muenchen).

— & **Boekschoten, G. J. In press.** - Fish remains from the Aptian near Bentheim. *Geologie en Mijnbouw*.

Lund, R., Bartholomew, P., & Kemp, A. 1992. The composition of the dental hard tissues of fishes. In *Structure, Function and Evolution of Teeth*. Edited by P. Smith and E. Tchernov. Freund Publ. House, Tel Aviv, pp. 35-71.

Maisey, J. G. 1993a. A new clupeomorph fish from the Santana Formation (Albian) of NE Brazil. *Amer. Mus. Novitates*, **3076** : 1-15.

— **1993b.** Tectonics, the Santana lagerstätten, and the implications for Late Gondwanan biogeography. In *Biological Relationships between Africa and South America*. Edited by P. Goldblatt. Yale University Press, pp. 435-454.

Biodiversity and Phylogeny

XIII Meeting of the Willi Hennig Society

Copenhagen, Denmark, August 23-26, 1994

Contact:

Dr. Nils M. Andersen, HennigXIII
Zoological Museum
Universitetsparken 15
DK-2100 Copenhagen
DENMARK

Martill, D. M. 1993. *Fossils of the Santana and Crato Formations of North East Brazil*. Palaeontological Association, Field Guides to Fossils No. 5.

Nelson, J. S. 1994. *Fishes of the World*. 3 ed. John Wiley & Sons, New York, 600 pp.

Roman, J., Arnaud, M., Barale, G., Barrat, J. M., Bouleir, A., de Broin, F., Michard, J. C., Taquet, P., & Wenz, S. In press. Le gisement tithonique inférieur de Canjuers (Var, France): état actuel des connaissances. *Geobios mém sp.*, **16**.

Sempere, T., Aguilera, E., Doubinger, J., Janvier, P., Lobo, J., Oller, J., & Wenz, S. 1992. La formation de Vitacua (Permien moyen à supérieur — Trias ?inférieur, Bolivie du Sud): stratigraphie, palynologie et paléontologie. *N. Jb. Geol. Paläont. Abh.*, **185** : 239-253.

Sorbini, L., & Bannikov, A. F. 1991. The Cretaceous fishes of Nardo. 2^o. An enigmatic spiny-rayed fish. *Bollettino della Società Paleontologica Italiana*, **30** : 239-249.

Thies, D. 1992. Die Erhaltung von Fischen in den Geoden-Lagen des nordwestdeutschen

Society of Vertebrate Paleontology

Seattle, Washington
October 19-22, 1994

Contact: SVP '94
Dept. of Geological Sciences
University of Washington AJ-20
Seattle, WA 98195, U.S.A.

Posidonienschiefers. Kaupia - Darmstädter Beiträge zur Naturgeschichte, **1** : 11-21.

Thies, D. 1992. A new species of *Palaeospinax* (Chondrichthyes, Neoselachii) from the Lower Jurassic Posidonia Shale of Southern Germany. *Paläontol. Z.*, **66** : 137-146.

Thies, D. 1993. New evidence of *Annea* and *Jurabatos*, two rare neoselachians (Pisces, Chondrichthyes) from the Jurassic of Europe. *Belgian Geol. Survey Professional Paper*, **264** : 137-146

Thies, D. 1993. *Palaeospinax*, *Synechodus* and/or *Paraorthacodus*. Is the problem of palaeospinacid genera (Pisces, Neoselachii) solved? *Neues Jahrbuch für Geologie und Paläontologie, Mh.*, **1993** : 724-732.

Thies, D. & A. Müller. 1993. A neoselachian fauna (Vertebrata, Pisces) from the Late Cretaceous (Campanian) of Höver, near Hannover (NW Germany). *Paläontol. Z.*, **67** : 89-107.

Tintori, A. 1992. Fish taphonomy and Triassic anoxic basins from the Alps: a case history. *Rivista Italiana di Paleontologia e Stratigrafia*, **97** : 393-408.

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