

# *The Compleat Mesoangler*

A Newsletter About Mesozoic Fishes

Volume 4, Number 2

December 28, 1997



## Second Mesozoic Fishes Meeting Held

by Mark Wilson

Once again, Mesozoic Fish enthusiasts are indebted to Gloria Arratia, for her efforts – with the assistance of Hans-Peter Schultz and other representatives of the Institut für Paläontologie, Museum für Naturkunde der Humboldt-Universität zu Berlin – in organizing an international meeting on Mesozoic Fishes. This, the second such meeting, was held in Buckow, a small town east of Berlin, Germany. The first meeting had been held in 1993 in Eichstätt.

As you can see from the group photograph above, the meeting was attended by more than 40 people from all over the world. Scientific contributions spanned the geologic column from the Triassic through the Jurassic and Creta-

ceous, to the Recent, and addressed issues as diverse as paleoecology, paleogeography, anatomy, development, and phylogeny (topics were summarized in the previous issue of *The Compleat Mesoangler*). Manuscripts are currently in review for potential inclusion in an edited volume to be published by Verlag Dr. Friedrich PFEIL.

The weather as well as the hotel accommodations and food during the conference were excellent, and the small-town setting surrounded by small lakes and walking trails proved ideal.

I'm already looking forward to the next opportunity to get together with my agreeable and creative colleagues! ■

## Mesozoic Fish Tales: News from Readers

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*Current research:* I work now in the Musée des Dinosaures, Espéraza, Southern France. The Museum is managed by a private association, Dinosauria (see above WWW address). I work on Late Cretaceous actinopterygians, mainly on a Moroccan marine fauna (Goulmima) and European continental assemblages.

**JOHNS, Marjorie J.** B.Sc., M.Sc., Pacific PaleoQuest, P.O. Box 220, Brentwood Bay, British Columbia, V8M 1R3 CANADA

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*Current research:* I have started my own consulting business (Pacific PaleoQuest). I hope to continue some ichthyolith biostratigraphic and thermal work and to undertake foraminifer biostratigraphic and paleoenvironmental projects.

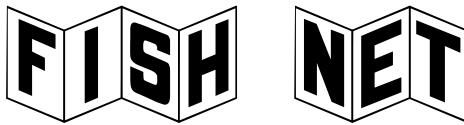
G. Arratia & G. Viohl, eds.

### Mesozoic Fishes: Systematics and Paleoecology

Proceedings of the First International Meeting,  
Eichstätt, 1993

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*Current research:* I am presently preparing a rather long (40 cm) "complete" part of a rostrum of the Mesozoic ?sclerorhynchid chondrichthyan *Schizorhiza stromeri*. As far as I know no other articulated find of this peculiar fish has been recorded previously. The genus is well known only by single rostral teeth. After preparation is finished I will submit the manuscript for publication.

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*Current research:* My paper on the Morrison Fm. fishes comes out in Modern Geology this fall. It will also be included in a separate volume on the Morrison to be published by MG later.

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*Current research:* A small study-group was established at the Geology Department of Hessisches Landesmuseum. Current projects are: Age and growth of Eocene gars, especially those from the Messel Formation. Scale articulation patterns in fossil and extant "ganoid" fishes with special respect to gars. Description of new gars from the Eocene Messel Formation. Taphonomic investigations in fossil and extant bowfins. Percoids and lower bony fishes of the Messel Formation. Oligocene marine bony fishes from the western Parathethys.

**RINEHART, Larry.** 13100 Argon NE, Albuquerque, New Mexico, 87112 USA.

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*Current research:* I am a part-time paleontology and geology student at the University of New Mexico and also work as a volunteer preparator and collector for the New Mexico Museum of Natural History. My field work includes collecting Jurassic fish and insects in New Mexico's Todilto Formation.

**TURNER, Susan.** Australian Research Fellow, Queensland Museum, P.O. Box 3300, South Brisbane, Queensland 4101 Australia.

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*Current research:* Dr. Detlev Thies (University Hannover) visited Brisbane in September (1997) and he and Sue Turner looked over Mesozoic fishes in the QM collection; they will prepare a short note on a Jurassic fish from Monto in SE Queensland which Sue showed in her poster at the Eichstätt meeting. The fish appears to be *Lepidotes* - a first record for the Jurassic of Australia.

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## Squish Fisch Fiche: Recent Publications

**Bemis, W. E., Findeis, E. K., & Grande, L.** 1997. An overview of Acipenseriformes. Environmental Biology of Fishes **48**: 25-71.

**Bravi, S.** 1988. Contributo allo studio del giacimento ad ittiolitti di pietrarosa (Benevento). *I. Pleuopholis decastroi* n.sp. (Pisces, Actinopterygii, Pholidophoriformes). Mem. soc. Geol. It. **41**: 575-586.

**Bravi, S.** 1994. New observations on the Lower Cretaceous fish *Notagogus pentlandi* Agassiz (Actinopterygii, Halecostomi, Macrosemiidae). Bollettino della Società Paleontologica Italiana **33**(1): 51-70.

**Bravi, S.** 1995. Studies on old and new Mesozoic "Plattenkalk" in southern Italy. - II International symposium on lithographic limestones Lleida - Cuenca (Spain) **9th-16th July 1995** Extended Abstracts: 39-43.

**Bravi, S. & De Castro, P.** 1995. The Cretaceous fossil fishes level of Capo d'Orlando, near Castellammare di Stabia (NA): biostratigraphy and depositional environment. Mem. Sci. Geol. Vol. **47**: 45-72.

**Bruner, J. C.** 1997. El Tiburón "Megadiente" *Carcharodon megalodon* "De dientes duros y enormes". Mundo Marino Revista Internacional de Vida Marina, **5**(Septiembre-Octubre): 6-11.

**Buffetaut, E. & Cavin, L.** 1995. Nouveaux restes de vertébrés du Maastrichtien supérieur de la carrière du Jadet (Saint-Martory, Haute-Garonne, France). Bull. trim. Soc. Géol. Normandie et Amis Muséum du Havre, **82** (4): 31-34

**Buffetaut, E., Le Loeuff, J., Cavin, L., Gheerbrant, E., Laurent, Y., Martin, M., Rage, J.-C., Tong, H., & Vasse, D. (in press)** Données nouvelles sur les vertébrés du Crétacé supérieur du Sud de la France. Geobios.

**Carroll, R. L.** 1997. Patterns and Processes of Vertebrate Evolution. Cambridge Paleobiology Series 2. Cambridge University Press. Port Chester, New York, USA. 528 pp.

**Case, G. R.** 1994. Fossil fish remains from the Late Paleocene Tuscaloosa and Early Eocene Bashi Formations of Meridian, Lauderdale County, Mississippi. Part 1. Selachians. Palaeontographica A **230**: 97-138.

**Case, G. R. 1994.** Fossil fish remains from the late Paleocene Tuscaloosa and early Eocene Bashi Formations of Meridian, Lauderdale County, Mississippi. Part II: Teleosteans. *Palaeontographica Abt. A* **230**: 139-153.

**Case, G. R. 1996.** A new selachian fauna from the Lower Hornerstown formation (Early Paleocene/Montian) of Monmouth county, New Jersey. *Palaeontographica Abt. A* **242**: 1-14.

**Case, G. R. & Cappetta, H. 1997.** A new Selachian fauna from the Late Maastrichtian of Texas (Upper Cretaceous/Navarroan; Kemp Formation). *Münchener Geowiss. Abh. (A)* **34**: 131-189.

**Cavin, L. 1996.** *Goulmimichthys arambourgi* n. g., n. sp., un Pachyrhizodontidae (Actinopterygii, Teleostei) d'une nouvelle localité à nodules fossilifères du Turonien inférieur marocain. *C. R. Acad. Sci., IIa*, **321**: 1049-1054.

**Cavin, L.** Supposed and direct evidence of trophic relationships within the fish community of the Lower Turonian of Goulmima, Morocco. Geological Society of Denmark, On Line Series, 1, <http://hone4.inrt.tele.dk/dgfh/online/workshop.htm>.

**Cavin, L. (in press).** Nouveaux Teleostei du gisement Turonien inférieur de Goulmima (Maroc). *C. R. Acad. Sci.*

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**Cavin, L, Martin, M., & Valentin, X.** Découverte d'*Atractosteus africanus* (Actinopterygii, Lepisosteidae) dans le Campanien inférieur de Ventabren (Bouches-du-Rhône, France). Implications paléobiogéographiques. *Revue de Paléobiologie*, **15**(1): 1-7.

**Gayet, M. & Meunier, F. J. 1996.** À propos du genre *Bartschia* Gayet & Meunier, 1996: rectification de nomenclature en *Bartschichthys* nov. gen. *Cybium* **20**(3): 314.

**Gayet, M. & Meunier, F. J. 1996.** Nouveaux Polyptérides du gisement coniacien-sénonien d'In Bechetem (Niger). *C.R. Acad. Sci. Paris*. **322**(2a): 701-707.

## *The Compleat Mesoangler*

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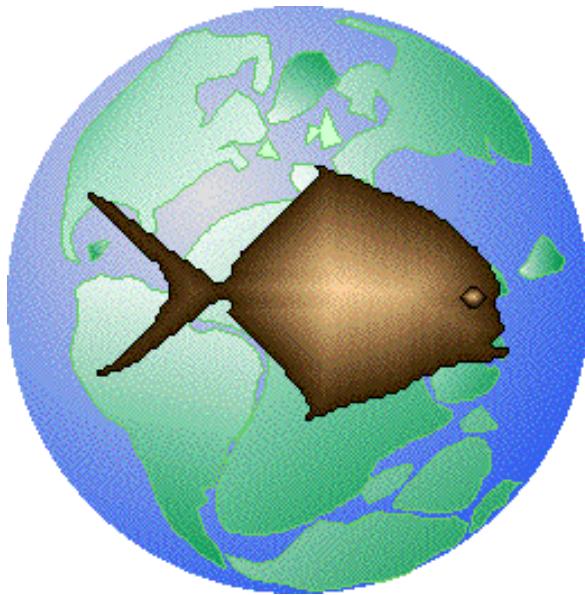
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**Goto, M., Date, Y., & Tanimoto, M. 1996.** On a tooth of *Chlamydoselachus* sp. from the Izumi Group (Upper Cretaceous) in Sobura, Kaizuka city, Osaka Prefecture, southwest Japan. Abstracts of the 1997 Annual Meeting of the Palaeontological Society of Japan: 25.

**Grande, L. 1997.** Review of: Discovering fossil fishes, by John G. Maisey. *Copeia* **1997**(3): 639-640.

**Huber, P., Lucas, S. G., & Hunt, A. P. 1993.** Chapter 4. Late Triassic fish assemblages of the North American Western Interior, pp. 51-66. In: Morales, M. (ed.): Aspects of Mesozoic Geology and Paleontology of the Colorado Plateau. *Museum of Northern Arizona Bulletin* **59**.

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from northeastern British Columbia, Canada. *Micropaleontology* **42**(4): 335-350.

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**Lovejoy, N. R. 1997.** Stingrays, parasites, and Neotropical biogeography: a closer look at Brooks et al.'s Hypotheses concerning the origins of neotropical freshwater rays (Potamotrygonidae). *Systematic Biology* **46**(1): 218-229.

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**Maisey, J. G., & de Carvalho, M. R. 1997.** A new look at old sharks. *Nature* **385**(6619): 779-780.

**Mudroch, A. & Thies, D. 1996.** Knochenfischzähne (Osteichthyes,

Actinopterygii) aus dem Oberjura (Kimmeridgium) des Langenbergs bei Oker (Norddeutschland). *Geologica et Palaeontologica* **30**: 239-265.

**Nelson, J. S. 1997.** Review of: *Interrelationships of Fishes Revisited*, edited by M. L. J. Stiassny, L. R. Parenti, and G. D. Johnson. *Copeia* **1997**(3): 647-649.

**Ortí, G., & Meyer, A. 1997.** The radiation of characiform fishes and the limits of resolution of mitochondrial ribosomal DNA sequences. *Systematic Biology* **46**(1): 75-100.

**Otero, O. 1997.** A new genus of Aipichthyoidea (Teleostei, Acanthomorpha) from the Lower Cenomanian of Hgula (Lebanon): description and phylogenetic relationships. *C.R. Acad. Sci. Paris, Earth & Planetary Sciences* **325**: 453-458.

**Otero, O., & Gayet, M. 1996.** Anatomy and phylogeny of the Aipichthyoidea nov. of the Cenomanian Tethys and their place in the Acanthomorpha (Teleostei). *N. Jb. Geol. Paläont. Abh.*, Vol. **202**(3): 313-344.

**Otto-Bliesner, B. L., & Upchurch, G. R., Jr., 1997.** Vegetation-induced warming of high-latitude regions during the Late Cretaceous period. *Nature* **385**(6619): 804-807.

**Rich, T. H. 1997.** Review of: *Contributions of southern South America to vertebrate paleontology*, edited by Gloria Arratia. *Copeia* **1997**(2): 471-472.

**Schwimmer, D. R., Stewart, J. D., & Williams, G. D. 1997.** *Xiphactinus vetus* and the distribution of *Xiphactinus* species in the eastern United States. *Journal of Vertebrate Paleontology*, **17**(3): 610-615.

### International Symposium:

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**Shimada, K. 1997.** Gigantic lamnid shark vertebra from the Lower Cretaceous Kiowa Shale of Kansas. *Journal of Paleontology* **71**(3): 522-524.

**Shimada, K. 1997.** Paleoecological relationships of the Late Cretaceous lamniform shark, *Cretoxyrhina mantelli* (Agassiz). *Journal of Paleontology* **71**(5): 926-932.

**Shimada, K. 1997.** Dentition of the Late Cretaceous lamniform shark, *Cretoxyrhina mantelli*, from the Niobrara Chalk of Kansas. *Journal of Vertebrate Paleontology* **17**(2): 269-279.

**Siverson, M. 1997.** Sharks from the mid-Cretaceous Gearle Siltstone, Southern Carnarvon Basin, Western Australia. *Journal of Vertebrate Paleontology*, **17**(3): 453-465.

**Siverson, M. 1995.** Revision of *Cretorectolobus* (Neoselachii) and description of *Cederstroemia* n. gen., a Cretaceous carpet shark (Orectolobiformes) with a cutting dentition. *Journal of Paleontology* **69**(5): 974-979.

**Solé, R. V., Manrubia, S. C., Benton, M., & Bak, P. 1997.** Self-similarity of extinction statistics in the fossil record. *Nature*, **388**(6644): 764-767.

**Taverne, L. 1995.** Description de l'appareil de Weber du téléostéen crétacé marin *Clupavus maroccanus* et ses implications phylogénétiques. *Belgian Journal of Zoology* **125**(2): 267-282.

**Taverne, L. 1996.** Révision de *Tingitanichthys heterodon* (Arambourg, 1954) nov. gen. (Teleostei, Pachyrhizodontidae) du Crétacé supérieur marin du Maroc. *Biol. Jaarb. Dodonaea*. **63**: 133-151.

**Thies, D., & Vespermann, J. 1997.** Excursion: Mesozoic Fishes in North Germany (11.7.1997). Second symposium on Mesozoic Fishes, Buckow, Germany : 1-10.

**Tong, H., Buffetaut, E., Le Loeuff, J., Cavin, I., & Martin, V. 1993.** Découverte de restes de Vertébrés dans le Crétacé Supérieur de Monséret (Corbières orientales, Aude). *Bull. Soc. d'Etudes Sci. de l'Aude* **93**: 161-164.

**Werner, C., & Gayet, M. 1997.** New fossil Polypteridae from the Cenomanian of Sudan, an evidence of their high diversity in the Early Late Cretaceous. *Cybium* **21**(1): 67-81.

**Wullmann, M. F. 1997.** Major patterns of visual brain organization in teleosts and their relation to prehistoric events and the paleontological record. *Paleobiology* **23**(1): 101-114. ■

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## Symposium on Fish Palaeontology

At CEI 9 (Trieste, August 1997)

by Norbert Micklich

For the very first time, a symposium on fish paleontology was included in the programme of a CEI conference. One plenary lecture, two keynotes, fourteen "regular" oral talks and five posters were presented. Starting with the Middle Triassic, all periods in earth history were covered and freshwater and marine taxa and biotas were considered as well. Most talks were focused on European fishes and fish localities, but there also were comparisons with those from North America and other regions.

Various aspects of the question in what ways ancient fish taxa and ancient fish faunas can shed light on the respective relationships of extant ones were discussed. It was demonstrated that **1)** they bear essential information for the reconstruction of the interrelationships of bony fish groups at various taxonomic levels; **2)** they are important for the understanding of present day dispersal and diversification patterns; and, **3)** they are also useful for the reconstruction of ancient ecosystems. Much of the former information from the fossil record that seemed poor when compared with those derived from extant fishes, was simply because of the application of old-fashioned excavation, preparation and investigation methods, or the overall insufficient exploitation of appropriate fossil sites. In the final discussion, another "palaeofish symposium" at the next CEI was encouraged. However, further efforts are needed to get more "extant fish" colleagues interested and involved in these sessions and to initiate joint research projects that could be – as demonstrated with a few examples during the conference – very fruitful. ■