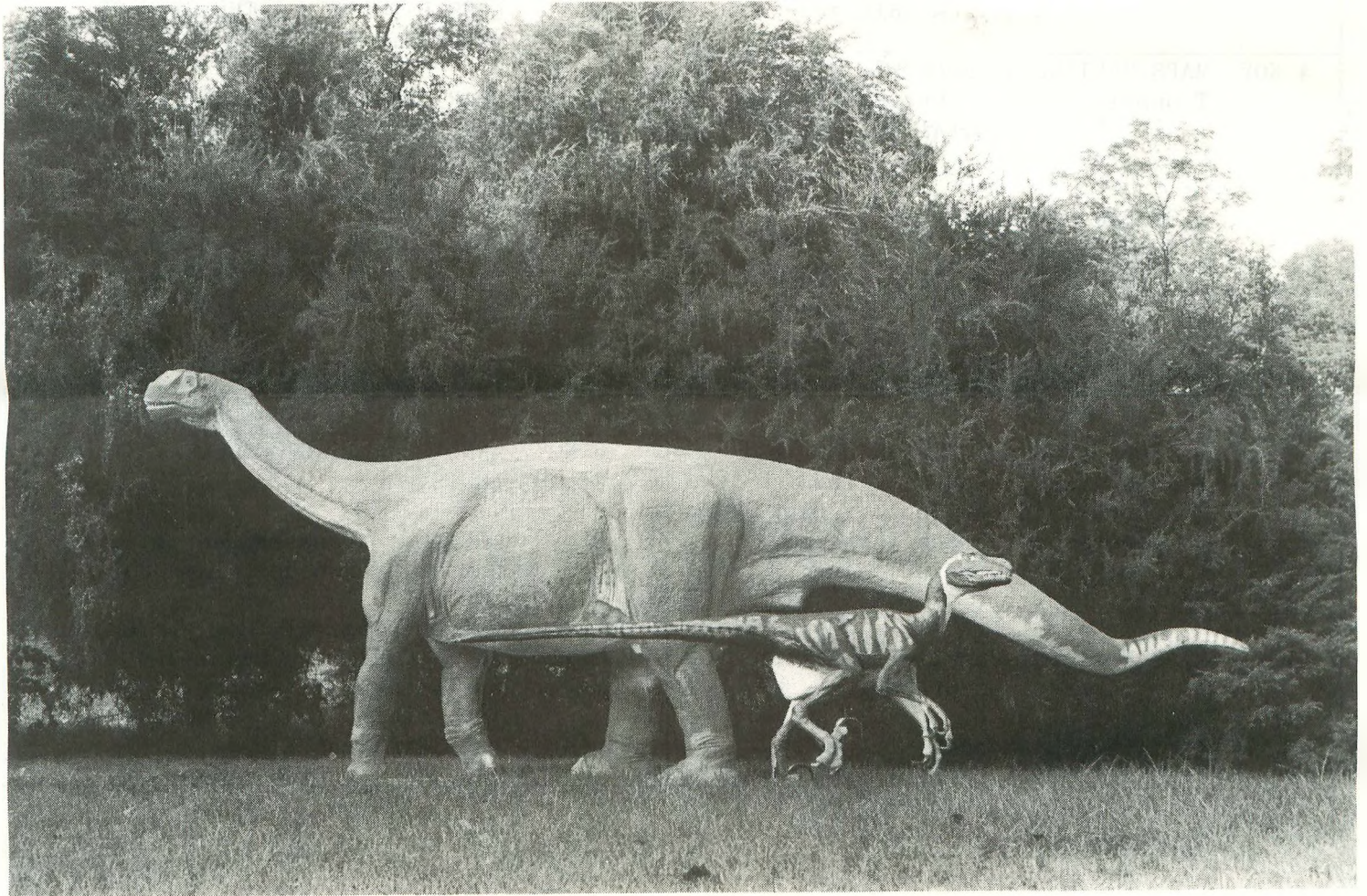


M.A.P.S. *Digest*

Official Publication of
Mid-America Paleontology Society

Volume 12 Number 7
October, 1989



Sculptures of Prehistoric Reptiles Camarasaurus and Deinonychus

MARK YOUR CALENDARS

<p>8 OCT MAPS FIELD TRIP TO LONE STAR QUARRY, OGLESBY, IL</p> <p>MEET AT 9:00 AT STARVED ROCK GATE MOTEL OFF I-80 & RT. 178 AT UTICA.</p> <p>We will be hunting in Pennsylvanian material for brachiopods, pelecypods, coral, & fish remains (teeth & crusher plates).</p> <p>HOST: Chuck Styles 815-433-9436</p>	<p>20 OCT FOSSILMANIA VII, SPONSORED BY THE AUSTIN & DALLAS PALEO SOCIETIES.</p> <p>21 AT OAKDALE PARK, GLEN ROSE, TX.</p> <p>22</p> <p>Fri.: 1:00 pm to 6:00 pm Sat.: 9:00 am to 6:00 pm Sun.: 9:00 am to noon</p> <p>Look for more information in the Summer '89 <i>Digest</i></p>
<p>4 NOV MAPS MEETING at Room 27, Trowbridge Hall, University of Iowa, 123 N. Capital St., Iowa City, IA</p> <p>1:00 Board Meeting 2:00 MAPS Meeting</p> <p>Ron Metzger, grad. student, of the Geology Dept. will speak on Microfossils in general--how to prepare them, where found, etc.</p> <p>The building usually does not open until about 1. The Library in the Geology Bldg. is open from 1-5 and there are exhibits in the building.</p>	<p>20 OCT 6TH ANNUAL FLORIDA FOSSIL FAIR, SPONSORED BY THE BONE VALLEY FOSSIL SOCIETY & THE CITY OF MULBERRY.</p> <p>NEAR THE INTERSECTION OF HWY 60 & S.R. 37. ONE BLOCK SOUTH OF HWY 60 ON S.R. 37, EAST SIDE CORNER AT THE MULBERRY PHOSPHATE MUSEUM.</p> <p>Fri.: 9:00 am to 5:00 pm Sat.: 9:00 am to 5:00 pm Sun.: 9:00 am to 3:00 pm</p> <p>Look for more information in the Summer '89 <i>Digest</i>.</p>
<p>1990 MAPS National Fossil Exposition XII - Leaves and Grasses</p> <p>April 20-22, Macomb, IL</p>	<p>6 NOV ANNUAL MEETING OF GSA AT ST. LOUIS, MO.</p> <p>7</p> <p>8</p> <p>9 CONTACT: Vanessa George, GSA, Box 9140, Boulder, OH 80301</p> <p>Paleontological Society sponsored Short Course on Dinosaurs on Sun., Nov. 5. No registration fee for the course; book fee usually about \$12.50.</p>

ABOUT THE COVER

This month's cover features a photo of full scale sculptures by David Peters, St. Louis, MO, of two prehistoric reptiles. The 18-foot-long baby Camarasaurus (background) would have been less than a third the size of an adult. In front of it the 8-foot-long bird-like Deinonychus adult

features a sickle-shaped toe claw built for slashing open other dinosaurs. The sculptures will be on display at the St. Louis Museum of Prehistoric Life, which David and Guy Darrough are working to build.

FALL HAPPENINGS

With the coming of Fall come the MAPS October field trip and a return to monthly meetings. We hope many of you will be able to join us for the October 8 field trip to Lone Star Quarry at Oglesby, Illinois, to collect Pennsylvanian material. Details are in the Calendar on page 1.

We know that most of you cannot attend the monthly meetings, but there's always EXPO to shoot for. EXPO XII is already in the initial planning stages. The theme for this year's EXPO *Digest* is "Leaves and Grasses," so if you can write anything about that subject or know anyone else who can, please let me or someone else on the board know. Compiling the EXPO *Digest* is a big job, so all help is appreciated.

WANTED! DIGEST CONTRIBUTIONS

This is a plea to all you authors and artists (both proven and aspiring): I need articles and drawings, **particularly covers**, for the *Digest*. I like to include a variety of items in each *Digest*, and whatever interests you probably interests a lot of other members, too. So why not share your interests and knowledge with other MAPS members through the *Digest*? Send contributions to:

MAPS DIGEST
Sharon Sonnleitner, Editor
4800 Sunset Dr. S.W.
Cedar Rapids, Iowa 52404

All contributions are appreciated!

DIRECTORY INFORMATION

Have you received your 1989 Directory? Directories were given out or mailed at EXPO in April. Also, all new members whose names appeared in Digests through the Summer issue should have received a Directory by now. If you have not received yours, please drop a line or postcard to:

Tom Walsh
510 E. 19th Ave.
Coal Valley, IL 61240

BOOK REVIEW

by N. Gary Lane
Department of Geology
Indiana University, Bloomington 47405

Feldman, R. M. and others (Editors). 1989. *Paleotechniques*. The Paleontological Society, Special Publication No. 4, 358 p. \$20.

This large, softcover, book is available through the Department of Geology, University of Tennessee, Knoxville, TN 37996-1410.

For all of us who spend time cleaning and preparing fossils this is a valuable book. It has been a long time since a comprehensive manual concerning techniques for studying fossils has appeared. Such books get out-of-date very quickly as old products disappear from the market (Q-O, for instance), and new products appear. This volume was prepared for a short course on techniques for the International Geological Congress in Washington, D.C., in July, 1989. The course was cancelled because of low enrollment, so the Paleo Society agreed to take the assembled manuscripts and publish them as a special publication, for which we should all be grateful.

The book has a total of 41 chapters, with over 60 authors. General sections include general techniques, techniques for micropaleontology, internal anatomy and microstructure, megafossils, replication (molding and casting), and paleontological illustrations. I am sure that many of you will want to have this book at hand, although I must confess that some of the chapters are far too esoteric for the average amateur collector, unless you just happen to have an X-ray machine or scanning electron microscope on your back porch. Nevertheless, there is a lot of good advice and tips for preparation in this book. I should note that the book is aimed primarily at microfossils and animal fossils. Quite a few specialized techniques that apply to fossil plants, like cuticle preparation, for instance, are not covered.

SYSTEMATICS OF THE DEVONIAN CORAL GENUS *EMMONSIA* OF THE KENTUCKIANA AREA

by Alan Goldstein

Museum of History & Science, 727 W. Main St., Louisville, KY 40202

Part 1: Review of the Genus

The middle Devonian rock formations in the Kentuckiana area contain over 50 genera of corals. Among the most important of the reef-building corals in the Jeffersonville Limestone are those in the genus *Emmonsia*. *Emmonsia* belongs to the subclass *Tabulata* and the family *Favositidae*. The favositid corals have an early history of confusion, because most early studies were carried out by external examination. Superficially, many of these corals look alike. Modern coral studies require internal examinations, generally with a series of thin-sections across one or more individual corallites in at least vertical and horizontal directions. The variations of internal structure are the basis of classifying one species from another.

The genus *Emmonsia* was established by Edwards and Haime in 1851 with their description of *Emmonsia hemisphericus*. They did not establish a genotype. Some authors (Lang, Smith & Thomas, 1940) indicate Edwards and Haime meant for *E. hemisphericus* to be the genotype.

Later authors studied the illustrated specimens of *Emmonsia hemisphericus* Edwards and Haime and found them to be two different species. One was labelled *Calamopora alveolaris* (Goldfuss), Hall, 1843; the other was *Favosites hemisphericus* Yandell and Shumard, 1847. It turned out that the coral Hall described in 1843 was not *Calamopora alveolaris* Goldfuss, 1826. Hall renamed it *Favosites emmonsi* in 1876. More on this coral later.

Favosites hemisphericus Yandell and Shumard, 1847 was described earlier as *Calamopora hemisphericus* Troost, 1840 and later as *Favosites turbinatus* Billings, 1859. This was not returned to the *Emmonsia*, although quite a bit of confusion remained as to who named the "hemispherical" coral.

While James Hall was preparing to name

Favosites emmonsii, Carl Rominger was also describing the same species of *Emmonsia*, giving it virtually the same name (*E. emmonsi* with one "i"). There was much confusion as to whose name had priority, since the copyright of both publications is 1876. No one knows which book reached general circulation first. Rominger's book, published by the Michigan Geological Survey, is said to be dated July, 1876. Hall's book, published by the New York Geological Survey, is said to be dated December, 1876. Apparently neither book was available before 1877. Land, Smith and Thomas, 1940, consider Hall's publication to have priority, while Stumm, 1965, considers Rominger to have priority. The latest comprehensive work on corals (Hill, 1981) agrees with Stumm's lectotype designation. In any event, both Hall and Rominger's lectotypes are known and in Museums. It is possible that Stumm's association with the University of Michigan biased his opinion to the Rominger lectotype.

Later studies of the Hall lectotype by Fenton and Fenton, 1936 moved *Favosites emmonsii* to the genus *Emmonsia*. Ross, in her studies of the *Favositidae* of New York (1952), describes the same species as *Favosites [Emmonsia] emmonsii* Rominger, 1976. Nowhere does Ross mention how she considered *Emmonsia* to be a subgenus of *Favosites*.

Both Hall and Rominger erred in their illustrations using more than one species described as specimens of *Favosites emmonsi*. Rominger's figure 1 was okay; figure 2 was *F. heliolitiformis* Rominger, 1876. Hall's illustration included *F. emmonsi* and another species, later named *F. halli* Fenton & Fenton, 1936 (see below). The primary reason for the inconsistency of their identification falls back to their method of differentiating species based on external anatomy. Studies of illustrated specimens by later paleontologists found errors in their identification.

Davis (1887) illustrated *Favosites emmonsii* without a description. Neither Hall nor Rominger was cited as being the author, although Davis obviously knew of their publications. In addition, Davis illustrated a number of other specimens of *Favosites* which later authors have placed in *Emmonsia*.

As mentioned above, the current synonymy gives Rominger's publication priority over Hall's. Since *Emmonsia hemisphericus* Edwards and Haime, 1851, at least in part includes *Emmonsia emmonsii* Rominger, 1876, the latter was selected as the genolectotype by Stumm, 1965. Lang, Smith, and Thomas had selected the Hall, 1876, specimen as the genolectotype.

The systematics of the genus *Emmonsia* can be summarized in the following synonymy:

Emmonsia Edwards and Haime, 1851, p. 152
E. hemisphericus Edwards and Haime, 1851, p. 247
Emmonsia emmonsii (Rominger, 1876
E. hemisphericus Edwards and Haime consists of two forms: *Favosites alveolaris* (Goldfuss) Hall, 1843, p. 158 (renamed *Favosites emmonsii* Hall, 1876, explanation of pl. ix) and *F. hemisphericus* Yandell and Shumard, 1847, p. 7. *F. emmonsii* Hall, 1876 embraces two forms: *Emmonsia emmonsii* (Hall) and *Favosites halli* Fenton & Fenton, 1936, p. 27. Fenton & Fenton, (1936, p. 23) designated *E. emmonsii* Hall as the lectotype species of *Emmonsia*. Stumm, 1965, p. 66 considers *Favosites emmonsii* Rominger, 1876 (p. 27, pl. 7, fig.1) as the lectotype of *Emmonsia* and considers it to be conspecific with *E. emmonsii* (Hall) as defined by Fenton & Fenton (1936).

Part 2: Review of Kentuckiana Species

There are 12 species of *Emmonsia* in the Kentuckiana area according to Stumm, 1965 (pp. 65 - 68). This writer will provide a complete synonymy for each species.

- Emmonsia amplissima* (Davis), 1887
Favosites amplissimus Davis, 1887, pl. 17, figs. 1-3
Emmonsia amplissima Okulitch, 1949, Cards 188, 189
Emmonsia amplissima Stumm, 1965, p. 65, pl. 62, figs 1-3
- Emmonsia arbuscula* (Hall), 1876
Favosites arbuscula Hall, 1876, pl. 36, figs. 2-9
Favosites digitatus Davis, 1887, pl. 21, fig.5, not *Favosites digitatus* Rominger, 1876
Emmonsia arbuscula Fenton and Fenton, 1936, p. 35, pl. 1, figs. 1-3; Stewart, 1938, p. 67, pl.15, fig.4; in Stumm, Fenton & Fenton, 1949, Card 191
Favosites [Emmonsia] arbuscula Ross, 1953, p. 54, pl. 14, figs. 2-9
Emmonsia arbuscula Stumm, 1965, p. 65, pl. 64, fig. 13

Note: Ross does not indicate if *Emmonsia* is a subgenus.

- Emmonsia bacula* (Davis)
Favosites baculus Davis, 1887, pl. 21, figs. 1-4; Werner, 1936, p. 53; Stumm, in Stumm, Fenton & Fenton, 1949, Cards 226, 277
Favosites clavatus Greene, 1900, p. 41, pl. 15, fig. 1-3; Stumm, in Stumm, Fenton & Fenton, 1949, Card 239
Emmonsia bacula Stumm, 1965, p. 66, pl. 63, fig.1
- Emmonsia convexa* (Davis), 1887
Favosites convexus Davis, 1887, in part pl. 27, fig. 3, not fig. 2, which is *Emmonsia epidermata* Rominger
Emmonsia convexa Okulitch, in Stumm, Fenton & Fenton, 1949, in part, Card 195, figs. 1, 3, not fig. 2, which is *Emmonsia epidermata* Rominger
Favosites rotundus Greene, 1900, v. 1, p. 41, pl. 15, figs. 4-6
Emmonsia convexa Stumm, 1965, p. 66. pl. 61, figs. 13, 14
- Emmonsia cymosa* (Davis), 1887
Favosites cymosus Davis, 1887, pl. 23, figs. 2-5; Stumm in Stumm, Fenton & Fenton, 1949, Card 247
Emmonsia cymosa Stumm, 1965, p. 66, pl. 63, fig. 8

- Emmonsia emmonsi* (Rominger), 1876
See genolectotype description above, in addition,
Favosites emmonsi Nicholson, 1879, p. 67, pl. 3, figs. 3-3b; Davis, 1887, pl. 12, fig. 23, 4, pl. 32, fig. 5
Emmonsia emmonsi Stewart, 1938, p. 68, pl. 16, fig. 1-4; Swann, 1947, p. 260, pl. 5, figs. 4-7, pl. 7, fig. 1; Stumm, in Stumm, Fenton & Fenton, 1949, Cards 198, 199; Stumm, 1965, p. 66, pl. 63, figs. 1-4
Emmonsia hemisphericus Smith & Gullick, 1925, p. 116
- Emmonsia epidermata* (Rominger), 1876
Calamopora epidermata Rominger, 1862, p. 396
Favosites epidermata Rominger, 1876, p. 29, pl. 8, figs. 1-3; Hall, 1876, pl. 6, figs. 1-5, pl. 12, figs. 6, 9-13; Davis, 1887, pl. 12, fig. 1
Favosites radiatus Davis, 1887, pl. 12, fig. 2, ?pl. 13, fig. 1; not *Favosites radiatus* Rominger, 1876
Favosites spiculatus Davis, 1887, pl. 15, fig. 7
Favosites convexus Davis, 1887, in part, pl. 27, fig. 2, not fig. 3
Favosites decorus Greene, 1906, v. 2, p. 37, pl. 9, figs. 1,2
Emmonsia epidermata Fenton & Fenton, 1936, p. 36; Stumm, in Stumm, Fenton & Fenton, 1949, Cards 200, 201
Emmonsia decora Stumm, in Stumm Fenton & Fenton, 1949, Card 196
Emmonsia spiculata Stumm, in Stumm, Fenton & Fenton, 1949, Card 216
Emmonsia epidermata Stumm, 1965, p. 66, pl. 62, figs. 5,9
- Emmonsia eximia* (Davis)
Favosites eximius Davis, 1887, ?pl. 26, fig. 1, pl. 27, fig. 7
Favosites globosus Greene, 1898, p. 5, pl. 3, figs. 3-5
? *Thecia kentuckyensis* Herzer, 1902, O. 54, pl. 9, fig. 14
Emmonsia eximia Stumm, in Stumm, Fenton & Fenton, 1949, Card 202
Emmonsia globosa Stumm, in Stumm, Fenton & Fenton, 1949, Card 205
? *Emmonsia kentuckyensis* Stumm, in Stumm, Fenton & Fenton, 1949, Card 208
Emmonsia eximia Stumm, 1965, p. 67, pl. 62, fig. 8
- Emmonsia ocellata* (Davis)
Favosites ocellatus Davis, 1887, pl. 16, fig. 4
Emmonsia ocellatus Okulitch, in Stumm, Fenton & Fenton, 1949, Card 209
Emmonsia ocellata Stumm, 1965, p. 67
- Emmonsia radiformis* (Rominger)
Emmonsia radiformis Rominger, 1876, in part, p. 34, pl. 12, fig. 1 only; Davis, 1887, in part, pl. 20, fig. 1,2, not 3; Lambe, 1899, p. 14
Favosites fustiformis Davis, 1887, pl. 26, figs. 2,3
Favosites fustus Greene, 1906, v. 2, p. 37, pl. 9, figs. 3,4
Emmonsia radiformis Stumm, in Stumm, Fenton & Fenton, 1949, Card 211, 212
Emmonsia fusta Stumm, in Stumm, Fenton & Fenton, 1949, Card 204
Emmonsia fustiformis Stumm, in Stumm, Fenton & Fenton, 1949, Card 204
Emmonsai radiformis Stewart, 1938, p. 69. pl. 16, figs. 8-10; Stumm, 1965, p. 67, pl. 63, figs. 5-7,9,10
- Emmonsia ramosa* (Rominger)
Thecia ramosa Rominger, 1876, p. 69, pl. 25, fig. 4; Davis, 1887, pl. 35, figs. 1,2
Emmonsia ramosa Stumm, in Stumm, Fenton & Fenton, 1949, Card 214
Emmonsia ramosa Stumm, 1965, p. 67, pl. 70, figs. 1-3
- Emmonsia tuberosa* (Rominger)
Favosites tuberosus Rominger, 1876, p. 30, pl. 9, figs. 1,2; Hall, 1876, pl. 1, fig. 1, pl. 4, fig. 1, ?pl. 6, fig. 6, pl. 7, fig. 1, pl. 8, figs. 1, 3-7; Nicholson, 1879, p. 62, pl. 3, figs. 2-2e; Davis, 1887, pl. 16, figs. 1-3, pl. 19, fig. 3; Whiteaves, 1889, p. 121; Stewart, 1938, p. 66, pl. 14, fig. 6
Favosites favosus Davis, 1887, in part, pl. 8, fig. 2, not fig. 1 (which is not *F. Favosus* Goldfuss, 1826)
? *Favosites cystoides* Herzer, 1902, p. 54, pl. 10, fig. 16; Stumm, in Stumm, Fenton & Fenton, 1949, Card 248
Emmonsia tuberosa Fenton & Fenton, 1936, p. 37, pl. 1, fig. 11, pl. 4, fig. 5; in Stumm, Fenton & Fenton, 1949, Card 218
Emmonsia tuberosa Stumm, 1965, p. 68, pl. 58, figs. 17-18, pl. 62, figs. 4,6,7

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MYRTLE BEACH FOSSIL CLUB 7TH ANNUAL FOSSIL FAIR

MAPS member and Myrtle Beach Fossil Club President **David Grabda** extends an invitation to MAPS members to attend the 7th Annual Fossil Fair of the Myrtle Beach Fossil Club on the 2nd of December at Santee Cooper Auditorium, 2003 Oak St., Myrtle Beach, SC. A team of specialists from the Smithsonian, local museums and colleges will be on hand to identify fossils brought in. Since selling is forbidden in the Auditorium, the show is primarily exhibits and educational workshop. Contact David for more information.

POST OFFICE TO ISSUE DINOSAUR STAMPS

On October 1 the U.S. Post Office will issue a set of four dinosaur stamps. MAPS member **Tony Verdi** has been lobbying for some kind of fossil stamp issue for some time, and the *Digest* has carried several requests for you to write in support of a fossil stamp. Perhaps those of you who wrote helped to influence the Post Office to issue what many consider a long overdue tribute to fossils. Some paleontologists are concerned, however, that one of the dinosaurs is called Brontosaurus (which really didn't exist) rather than Apatosaurus.

Please ADD the Following NEW MEMBERS to Your Directory:

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McLean, VA 22101

703-821-3987

Cartographer. Will trade. Has for trade blastoids (pentramites), brachiopods, corals, shark's teeth. Wants to broaden his knowledge of paleontology.

Sheila Ingersoll

1646 Whittier Road

Ypsilanti, MI 48197

Sign Contractor & Carpenter. Will trade. Major interest trilobites. Has for trade mostly trilobites. Wants to learn more and to meet people with similar interests.

Gregg L. Jackson

2614 Southway Dr.

Fort Wayne, IN 46825

219-637-5537

Lecture & Exhibit ("Life from an Ancient World"). Major interest hunting Mazon Creek Region.

Cameron C. Oglesbee

6551 Neckel Ave.

Dearborn, MI 48126

313-846-9102

Dean Tyler

4608 Bluestem Circle

Sioux Falls, SD 57106

605-361-9207

Geographer. Enjoys field trips. Has fossil books & shark teeth. Wants to learn more about fossils.

David Wells

1015 N. Kensington, #8

Arlington, VA 22205

703-534-0905

Hydrologist. Will trade. Major interest shark teeth, mammals and Tertiary mollusk. Also, crabs, trilobites, crinoids, and sea urchins. Has for trade shark teeth from Cretaceous & Tertiary of Maryland, VA, & NC. Many species of well-identified Ter. mollusks from eastern U.S. Also Pliocene whale teeth, porpoise vertebrae & fish material. Wants contact with other MAPS members.

Gaye L.M. Williams
12400 Shelter La.
Bowie, MD 20715
301-464-0273

Entomologist. Collecting since 1959; intensively since 1987. May trade. Major interest Cretaceous in general, sharks in particular, micros specifically. Also, trilobites & other arthropods & amber. Has for trade seconds & thirds; some Lee Creek material. Member Calvert Museum Fossil Club, Solomons, MD. Wants to increase contacts & data base (networking).

Randall Quon
4 Thames Pl. N.W.
Calgary, Alberta
CANADA T2K 5L2
403-274-5965

Student. Alberta Government won't allow him to trade until he registers his collection. Major interest Invertebrate and Vertebrate paleontology. Member of Albta. Palaeontological Society, Calgary, Albta., CAN, and Friends of the Tyrrell Museum of Palaeontology Foundation, Drumheller, Albta., CAN. Wants to learn more about paleontology in different areas.

Dr. Wolfgang Jahn
Garschager Str. 32
Remscheid
WEST GERMANY

Veterinary. Will trade. Major interest fossils from all periods, especially invertebrates.

Laurent Rasia
8, Place de la Cite
7100 LA LOUVIERE
BELGIUM EUROPE
065-21-20-88

Will trade. Major interest trilobites, urchin, teeth. Has for trade trilobites (Devonian, Ordovician, Carboniferous), urchin, teeth. Wants to complete his collection and to make known his studies about Belgian Carboniferous trilobites.

Please Note the Following CHANGES OF ADDRESS and CORRECTIONS.

Mike Balogh
3330 TCHTW/CIM
Chanute AFB, IL 61868-5000

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9908 Las Tunas Dr.
Temple City, CA 91780

William J. Di Brino
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Tampa, FL 33606

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3205 Forsyth Drive
Springfield, IL 62704

Stephen Farrington
234 South 44th Street
Philadelphia, PA 19104

Mike & Kay Knightstep
4315 Cunningham
Wichita Falls, TX 76308

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388 Townline Rd.
Lancaster, NY 14086

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Ft. Worth, TX 76133
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34 W 836 N. James Dr.
St. Charles, IL 60174

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8420 Freemantle Dr.
Colorado Springs, CO 80920

The Mid-America Paleontology Society (MAPS) was formed to promote popular interest in the subject of paleontology; to encourage the proper collecting, study, preparation, and display of fossil material; and to assist other individuals, groups, and institutions interested in the various aspects of paleontology. It is a non-profit society incorporated under the laws of the State of Iowa.

Membership in MAPS is open to anyone, anywhere who is sincerely interested in fossils and the aims of the Society.

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MAPS meetings are held on the 1st Saturday of each month (2nd Saturday if inclement weather). October & May meetings are scheduled field trips. The June meeting is in conjunction with the Bedford, Indiana, Swap. A picnic is held in August. November through April meetings are scheduled for 2 p.m. in the Science Building, Augustana College, Rock Island, Illinois. One annual International Fossil Exposition is held in the Spring.

MAPS official publication, MAPS DIGEST, is published 9 months of the year--October through June.

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Dated Material - Field Trip Notice