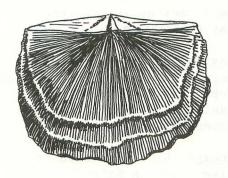


Official Publication of Mid-America Paleontology Society

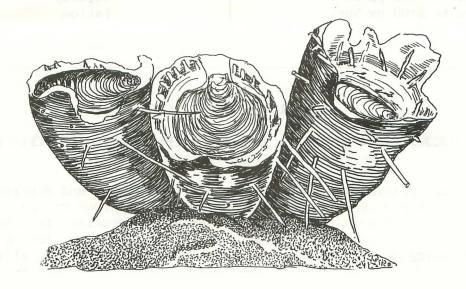
Volume 12 Number 3 March, 1989





Derbyia ciscoensis
Dunbar and Condra
X 1





Teguliferina armata (Girty) X 2.5

Two Texas Pennsylvanian Brachiopods

MARK YOUR CALENDARS

18 MAR MAPS MEETING at IBEW Hall 1211 Wiley Blvd. S.W. Cedar Rapids, IA

> 1:00 Board Meeting 2:00 MAPS Meeting Cedar Valley Rocks & Minerals Society Show

31 MAR TAMPA BAY FOSSIL CLUB 2ND ANNUAL FOSSIL FAIR.

1 APR

2 APR

MUSEUM OF SCIENCE & INDUSTRY 4801 East Fowler Ave, Tampa, FL

Set-up Friday, open to public Sat. & Sun.

10:00 am to 6:00 pm Sat. 10:00 am to 5:00 pm Sun. 14 APR NATIONAL FOSSIL EXPOSITION XI-15 MAMMALS

16

Grand Ballroom, Student Union Western Illinois University Macomb, IL

The simplest way to the Union is to turn off IL Hwy 67 west on University Drive, then go south to the Union. (Follow the signs.) Set-up is permitted on Friday at 8:00 am

Friday: 8:00 am - 7:00 pm Keynote Speaker: Peter Larson President of Black Hills Institute of Geological Research, Inc., at 7:30

Saturday: 8:00 am - 5:00 pm Live Auction Saturday evening, following a short business meeting and awards presentation

Sunday: 8:00 am - 3:00 pm

ABOUT THE COVER

TEXAS PENNSYLVANIAN BRACHIOPODS

by: Tom and Rosemary Akers, Spring, TX

This month's cover drawing and article were provided by Tom and Rosemary Akers. Rosemary wrote that the "article comes from the Brachiopod Study Group of the Paleontology Section of the Houston Gen & Mineral Society. This group is focusing its efforts on brachiopods from the Pennsylvanian Period in Texas. We hape to have our fourth publication, Texas Pennsylvanian Brachiopods, in about a year. This publication will cover all of such brachiopods mentioned in the professional literature. To date we have found about 65 genera and over 150 species."

The Phylum BRACHIOPODA or brachiopods are bivalves with bilateral symmetry which usually live attached to the sea floor by either a stalk (pedicle) or cementation to object. The phylum is partially presence characterized by the of lophophore which is a special organ for both breathing and eating. Brachiopods are divided into two classes commonly called

inarticulates and articulates. Pennsylvanian period in Texas we have about genera and over 150 different 65 different species, and they represent a remarkable diversity of form. Like sea and land animals, the brachiopods have adapted to a variety of situations in the shallow sea by such changes in form.

cont. on p. 4

EXPO XI - MAMMALS

EXPO XI is just about a month away now, and we hope lots of you will have the opportunity to attend.

Karl Stuckerjuergen, Show Chairman, reports that there are only about a dozen tables People are coming from 24 states, left. Canada, Italy, and Germany, so we should have a good variety at the show.

Madelynne Lillybeck, editor of the EXPO edition of the Digest, reports that articles are rolling in, coming from all sections of the country; there will be something from the North, South, East, and West. She says there is always a time of panic when she wonders if it will all come together, but then it does, and it looks like this year's EXPO edition will be as enticing as ever, thanks to the generosity of the members of MAPS! Madelynne says she'll see you at EXPO.

Toni Verdi is planning to be at EXPO again year with another one-time postal this cancellation depicting a mammal--in keeping with the theme of this year's show. So look for the Postal Station set-up and get your souvenir cancellation, available only at EXPO!

Get your fossils ready and/or bring only as much money as you can afford to spend. Gear up for seeing old friends and meeting new ones. Plan to take in Pete Larson's presentation Friday night and the Live Auction Saturday. (Don't forget donation). We'll see you at EXPO XI April 14, 15 and 16!.

A REQUEST FROM HAROLD TICHENOR

To the woman who made a point of bringing me a lot of Spergen Hill Salem Limestone at EXPO X: Please get in touch with me at my MAPS Directory address; I lost my note of your name. I plan to offer most of that material at EXPO XI (as freebie), if there are any aspiring microfossileers, and I want them to know where this wonderful stuff came from.

The next Digest will be the EXPO NOTE: May issue will arrive about midedition. May.

TAPE PROGRAMS AVAILABLE

Gil Norris has put together four VHS tape programs which were first released at EXPO X and are still available by mail order. Each program comes with a study guide. The programs available are:

Arthropods & Crustaceans......34 min Brachiopods, Bryozoans, Sponges..44 min Echinoids......48 min

The programs may be ordered as stated on separate tapes; or any combination of programs up to a total of 2 hours long may be ordered on one tape. The price is \$20 per program for each program ordered on a separate tape. If you want more than one program on one tape, the price is \$20 for and \$15 for each the first program additional program on that tape. Add \$2 per tape for postage. Make checks payable to MAPS and send to:

> Gil Norris 2623 34th Avenue Ct. Rock Island, IL 61201

PLEASE USE THE ORDER FORM (or a reasonable facsimile of it) FOUND ON PAGE 8.

PALEONTOLOGICAL SOCIETY PUBLICATIONS

THE EVOLUTION-CREATION CONTROVERSY, Perspectives on Religion, Philosophy, Science and Education (Proceedings of a Symposium Convened by Robert A. Gastaldo and William The Paleontological Society Tanner), Special Publication No. 1, Kenneth R. Walker, ed., 1984, 160p., \$7.50

PALEOECOLOGY AND TAPHONOMY OF RECENT TO INTERTIDAL DEPOSITS GULF OF PLEISTOCENE CALIFORNIA (Prepared for Field Trip Number 5 Sponsored by The Geological Society of America and The Paleontological Society), The Paleontological Society Special Publication No. 2, Karl W. Flessa, Ed., Kenneth R. Walker, series ed., 1987, 237 p., \$12.50.

Make checks to PALEONTOLOGICAL SOCIETY

Order from:

Paleontological Society Publications Department of Geological Sciences University of Tennessee Knoxville, TN 37916

AN UNUSUAL NEW FOSSIL FROM THE ORDOVICIAN OF UTAH by John McLeod 703 Pearl St., Boise, ID 83705

One of the greatest unappreciated enigmas of the fossil record is the origin of the of Paleozoic reefbuilding major groups fossils. Bryozoans, corals stromatoporoids are all well-developed and diverse in Middle Ordovician time, but fossil remains of ancestral forms are frequently rare, poorly preserved and/or of doubtful affinities.

Several years ago while searching Lower Ordovician carbonates of the Ibex Range in Utah, I discovered a new fossil of unknown affinities in a large block of "float". It is approximately an inch and a half long, and is shaped like a horn or tusk. It is clearly a colony, consisting of polygonal tubes which appear to lack internal And, although partitions. \mathbf{or} tabulae. exfoliated partially by weathering, it appears to lack an epithica, or outer skin, such as that found on solitary horn corals and some primitive bryozoans.

While the limestone block was found well below the Lower-Middle Ordovician contact. exact age is unknown. Dr. John the Repetski of the U.S. Geological Survey is currently assisting me, analyzing the age of conodont microfossils from the matrix in order to make an accurate determination.

guess as to its affinities? An early Lichenarid tabulate corals, which may lack tabulae are known from rare specimens from Lower Ordovician rocks; and the size of the



new fossil, possibly related to Lichenarid tabulate corals, being studied by John McLeod.

tubes is quite comparable to these earliest tabulate corals. But the tusk-shaped colony is unknown from other tabulates. It is hoped that further investigation with longitudinal and transverse thin sections may elucidate the true affinities of this enigmatic fossil. If any MAPS members have seen similar fossils from the Great Basin or elsewhere, I would most welcome any information.

BOOK REVIEW

by S.J. Ciurca, Jr., Rochester, NY

SOURCEBOOK TO THE NEW YORK STATE GEOLOGICAL ASSOCIATION GUIDEBOOKS 1956-1986. 1987. R. D. Hamell. Stratagraphics, 63 Knoll Top Drive, Rochester, New Yor, 14610, 236p. \$20.00.

For over fifty years, the New York State Geological Association has met at various colleges throughout New York State. From these colleges numerous field trips have been conducted to important geological

sites including many classic fossil sites of interest to paleontologists, stratigraphers, and fossil collectors.

Richard Hamell's Sourcebook to the NYSGA Guidebooks provides easy access to over 300 field trips that cover the geology of most of New York State. The Guidebook lists all authors and institutions involved in the field trips and contains over 4,000 references to the literature used by the authors of the field trips.

All serious fossil collectors need this Sourcebook.

cont. from p. 1 ABOUT THE COVER

Genus Derbyia

Derbyias belong to Superfamily DAVIDSONIACEA and are found world-wide in Carboniferous and Permian Periods. They are meduim- to large-sized fossils with a roughly semicircular shape. They have narrow costellae which increase by division as they go from posterior to anterior. The space between these radial costellae is flat. Concentric growth lines close order are evident in varying prominence on the shell surface. brachial valve is more convex than the pedicle valve, and the latter has a large interarea almost perpendicular to the hinge. In the center of the interarea is pseudodethyrium. Internally, the pedicle valve teeth and the brachial valve sockets interlock and stabilize the hinge. A median ridge or septum is also found in valve and serves as an the pedicle important identification feature. lobed cardinal process of the brachial provides another means for valve identification.

Derbyia ciscoensis

Dunbar and Condra
Upper Pennsylvanian Period
Virgilian Series (Cisco in Texas)
Thrifty Group

Medium-sized, Derbyia ciscoensis measures about 4 cm long, 4.5 cm wide and 2.7 cm thick. The biconvex shape, sometimes distorted, is ornamented with angular, radial costellae, and the space between them is equal to costellae width. The pedicle valve deltidium bears a median depressed line. Dunbar and Condra

described this fossil in 1932 from specimens found between 7 and 15 miles northeast of Cisco, Texas.

Genus Teguliferina

These rather bizarre brachiopods belong to Superfamily STROPHALOSIACEA and have a gelological range from the Pennsylvanian through the Permian Periods. They have the typical convex pedicle valve and flat brachial valve of the suborder but the pedicle valve has evolved in a cone-like The brachial valve is extended posteriorly into а tongue articulates in a notch near the apex of the pedicle valve. There is no cardinal Ornamentation of the pedicle valve is tubular spines open at the outer end and used for attachment.

Teguliferina armata

(Girty)

Upper Pennsylvanian Period Missourian Series (Canyon in Texas) Gaptank Formation

I like to think of this genus as the brachiopods' answer to the rudists, the reef-building clams. They are small, coneshaped shells measuring 1.5 cm wide and 2.5 cm high. The brachial valve is nearly flat and serves like a trap door. The edge or brim of the cone-shaped valve had a row of tooth-like spines. Shells were cemented to the substratum by the initial point of the shell growth or by a tangle of spines. These remarkable shells are found in West Texas near the Glass Mountains, an area famous for silicified Permian brachiopods.

REFERENCES:

- 1. Dunbar, C. D. annd Condra, G. E. 1932. Brachiopods of the Pennsylvanian System in Nebraska: Nebr. Geo. Sur. Bull. 5, 475 pgs.
- 2. King, P. B. 1930. The Geology of the Glass Mountains, Part 1, Descriptive Geology: Univ. Tex. Bull. No. 3038, 167 pgs, 6 pls.
- 3. Moore, R. C. (Ed.) 1965. Treatise of Invertebrate Paleontology, Part H Brachiopoda, v. 1 and 2, 927 pgs, illus.
- 4. Plummer, F. B. 1943 (1950). The Carboniferous Rocks of the Liano Region of Central Texas: Univ. Tex. Pub. No. 4329, 170 pgs.
- 5. Plummer, F.B. and Moore, R. C. 1921. Stratigraphy of the Pennsylvanian Formations of North Central Texas: Univ. Tex. Bull. No. 2132, 237 pgs.

PALEONTOLOGICAL COLLECTING IN KANSAS

source: Paleontological Collecting in Kansas, by Rex Buchanan and Chris Maples, Kansas Gelological Survey, Open-file Report 89-5, January 18, 1989. [The following are excerpts.]

For the past few years, commercial fossil collecting has been a subject of growing interest and concern, both nationally and In 1987, the National Academy of locally. (NAS) produced a major report Sciences recommending policies for paleontological collecting... In general, the recommends that uniform policies developed toward fossil collecting on state and federal lands, and that commercial collecting on public lands be regulated.

has been focused In Kansas, concern primarily in the western part of the state, where large vertebrate fossils...are from...the removed regularly formation. Fossils have been removed from the Niobrara for more than 100 years; many have gone to museums throughout Kansas and However, prices for fossils the world. have apparently begun escalating, bringing commercial fossil collectors (some more from Kansas, some from out-of-state) to western Kansas. According to some reports. an increasing number of those fossils now go into private collections.

With increasing interest in commercial fossil collecting came a concomitant increase in concern among local landowners about commercial Kansas residents prices being paid for collecting. the fossils and the ultimate disposition of the fossils... It should be made clear that of the concern expressed about collecting Was related to casual collectors, such as rockhounds and students, or professional paleontologists...

Problems with commercial collecting centered around the unauthorized collecting of large vertebrate fossils from private property; appropriate compensation for landowners with fossils on their property; the exportation of Kansas fossils outside of the country; and the alteration of fossils for use as art objects...

The consensus developed that regulation of private land would be difficult and perhaps counterproductive. However, participants felt that commercial collectors (not casual or scientific collectors) should be licensed by the appropriate state agency,

and that there should be appropriate fees for the license and appropriate penalties for unlicensed collectors. Such a licensing procedure might be helpful in discouraging unauthorized collecting on private land, and would provide additional penalties for unlicensed collectors...

The following recommendations were then made: 1) the recommendations made in the NAS report should be made state policy; 2) quarrying for fossils on state-owned land by commercial collectors should require a permit from the appropriate state agency. The decision on awarding such a permit should be made in consultation with the Geological Survey; 3) commercial Kansas fossil collectors should be licensed by an apropriate state agency, with fees for the license and penalties for unlicensed collectors; and 4) efforts should be made to take advantage of the educational and historical value of Kansas Efforts should be made to keep important Kansas fossils in state museums universities...

[The above recommendations resulted from a meeting involving primarily paleontologists paleontologists and educators from around Kansas; the following conclusion was drawn from that and a later public meeting. ed.]

First, there is a problem with commercial collection in Kansas. Fossils removed apparently without landowner knowledge, and sold with little or no recompense to landowners. Apparently, much the problem is from out-of-state commercial collectors. Second, there is no problem with casual fossil collecting by students or rockhounds, or with research collecting by professional paleontologists Third, the guidelines and institutions. developed in the [NAS] report and in the meeting of Kansas paleon-tologists are generally useful and should be instituted. Fourth, as best we can determine, fossils currently have no special protection under the law. To help stem their unauthorized removal from private or public property, it might be advisable to develop statutory protection, and make their theft a felony or misdemeanor...

PUBLICATION AVAILABLE FREE FOR ASKING

Ed Lauginiger, a biology teacher in Sharon Hill, PA, sent me a copy of his latest publication with a note to let you know that it may be obtained FREE by writing and asking for the following:

Special Pub. #18 Cret. Fossils from the C&D Canal by Ed Lauginiger

Send requests to:

Delaware Geo. Survey University of Delaware Newark, Del. 19716

Ed¹'s Cretaceous Fossils from the and Delaware Canal is a Chesapeake comprehensive 57-page soft-bound guide for students and collectors. The contains chapters on the requirements for and types of fosssilization, the geology of the canal. the classification of fossils illustrations). (with and locatities area collecting in the (including a chart of which fossils are found in the different formations). It also has an extensive Bibliography and nine plates of fossils. It would be a valuable guide for those collecting in the area and a source of information for other collectors not in the area.

UNIVERSITY OF TENNESSEE STUDIES IN GEOLOGY AVAILABLE

University of Tennessee Studies in Geology publishes subjects of general geologic interest plus more detailed treatments and field guides relating to the geology of the Southern Appalachians. Short course notes for the annual Short Courses of the Paleontological Society are published as a part of this series.

Professor Thomas W. Broadhead, The University of Tennessee, Knoxville, sent the following list of publications, which may be of interest to MAPS members:

- 3. Echinoderms, notes for a short course. T.W. Broadhead & J.A. Waters, co-editors, v. 3, 235 p., 1980. \$12.00. 17 contributions by 19 authors covering aspects of evolution, paleoecology, and taxonomy of living and fossil echinoderms.
- 5. Lophophorates, notes for a short course organized by J.T. Dutro & R.S. Boardman. T.W. Broadhead, ed., v.5, 253 p., 1981. \$12.00. 13 contributions by 13 authors covering aspects of evolution and paleoecology of brachiopods and bryozoans.
- 6. Foraminifera, notes for a short course organized by M.A. Buzas & B.K. Sen Gupta. T.W. Broadhead, ed., v. 6, 219 p. 1982. \$12.00. 10 contributions by 13 authors covering ecology, biogeography, evolution, and classification of foraminifers.
- 7. Sponges and Spongiomorphs, notes for a short course organized by J.K. Rigby & C.W. Stearn. T.W. Broadhead, ed., v.7, 220 p., 1983. \$12.00. 16 contributions by 17 authors covering paleobiology, evolution, and classification of sponges, stromatoporoids, chaetetids, and archaeocyathids.
- 8. Mammals, notes for a short course organized by P.D. Gingerich & D.E. Badgley. T.W. Broadhead, ed., v. 8, 234 p., 1984. \$12.00. 12 contributions by 12 authors covering evolution, functional morphology, and classification of mammals.
- 13. Mollusks, Notes for a Short Course Organized by D.J. Bottjer, C.S. Hickman & P.D. Ward. T.W. Broadhead, ed., v. 13, 308 p., 1985. \$12.00. 16 contributions by 17 authors covering many aspects of molluscan paleobiology.
- 15. Land Plants, Notes for a Short Course Orrganized by R.A. Gastaldo. T.W. Broadhead, ed., v. 15, 226 p., 1986. \$12.00. 12 contributions by 17 authors covering aspects of evolution, paleoecology, and biogeography of land plants.

Prices are postpaid, 4th class domestic mail; overseas orders must add \$1.50 per copy for surface mail. Payment of institutional purchase order must accompany order and be made payable to Department of Geological Sciences, Univ. of Tennessee, Knoxville, TN 37996-1410.

ADVERTISING SECTION

Ads \$3.50 per inch (6 lines x 1 column--43 spaces). Send information and checks payable to MAPS to: Mrs. Gerry 2623 Avenue Ct., Rock Norris. 34th Island. IL61201. Phone: (309) 786-6505. This is a \$3.50 size. space OFFERS A FINE, WORLDWIDE ART BY GOD: FOSSILS AND MINERALS. WE SELECTION OF FEATURE FLORIDA FOSSILS. TO BUY, SELL OR TRADE CONTACT US AT 305-274-4044. STORE LOCATION 7123 S.W. 117TH AVE., LOHEMANNS PLAZA, MIAMI, FLORIDA 33183.

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1989 SHOW SCHEDULE

Lewiston, ID April 1-2 Eugene, OR May 6-7 Coeur d'Alene, ID May 13-14 Cincinnati, OH May 20-21 Portland, OR June 8-11 Sheridan, WY June 23-25 Cortez, CO July 8-9 Durango, CO July 14-16 Colorado Springs, CO July 22-23 Buena Vista, CO August 11-13 Grand Junction, CO August 18-20 September 2-4 Canby, OR Denver, CO September 13-17 Walla Walla, WA October 6-8 I am interested in purchasing reasonably priced, good quality fossil collections.

> Dennis & Pat De Laet (208) 347-2507 For Appointment P.O.Box 321 New Meadows, Idaho 83654

NEW PUBLICATION AVAILABLE

Memoir 44 -- Contributions to paleozoic paleontology and stratigraphy in honor of Rousseau H. Flower, compiled by D.L. Wolberg, 1988, 415 pp., 192 figs.

The volume contains 25 contributions by 37 authors from around the world. It covers a variety of Paleozoic invertebrates, stratigraphy, and paleogeography. The memoir contains 100 line drawings and 92 halftone illustrations, most of them full-page composites. Cost is \$30 plus \$3 to cover postage and handling. Orders are tax exempt. It is available from:

NM Bureau of Mines & Mineral Resources Campus Station Socorro, NM 87801

"WELL, YOU SEE, I WAS BITTEN BY THIS CEPHALOPOD..."

from: Dry Dredgers Bulletin, Department of Geology, Univ. of Cincinnati, Cincinnati, OH, Greg Hand, ed.

Tetanus from а fossil: It's not. impossible, according to a report making the rounds of mineralogical publications (lately in Fort Hamilton Gems via Hy Grader, Stonebruisers, Scribe, and Chip & Lick). Rocks can hold spores that become activated after years of dormancy once they come into contact with human or animal blood. Ιs your tetanus immunization up-to-date? Booster shots are now good for up to five years.

Please ADD the Following NEW MEMBERS to Your Directory:

George Aldred R# 2 Box 175 Shoals, IN 47581 Retired. Will trade. Interested in all fossils. Lawrence Co. Rock Club, Bedford, IN.

Paul Demkovich 240 Willow Elmhurst, IL 60126 Analyst. Will trade. Major interest invertebrate fossils. Has for trade misc. Member ESCONI (Downers Grove, IL) & CAPS

8816 Cherry Hills Road, NE Albuquerque, NM 87111

Daniel F. Foote 29665 E. Broadway Walbridge, OH 43465 Staff, US Congress. Will trade. Vertebrates, Plants. Has for trade fossils from Ohio area. Member Calvert Marine

Museum, Salomons, MD

Cynthia M. Kromm P.O. Box 761 Butte, NT 59703

Geologist/manager for educational supply company. Unable to trade at this time. Major interest primarily invertebrates, but also vertebrates. Wants tp further her education in paleontology by meeting/corresponding with knowledgeable persons as well as making contacts for sources fo specimens for schools.

Vincent P. O'Donnell P.O. Box 1380 Nedia, PA 19063

Lee & Lydia Robertson 38W571 Arrownaker Pass Elgin, IL 60123 Retired. Interested in education and field trip

opportunities.

Steven Skerritt Box 40618

Cincinnati, OH 45240

Q.C. Engineer. Will trade. Major interest general. Has for trade Cincinnati Fossils. Member Dry Dredgers, Cincinnati, OH. Wants information and education.

Donald P. Specht 127 Hatchings Rd. Rochester, NY 14624

Willem Bessen 45 Matipo Boad Teatatu North Auckland 8 NEW ZEALAND

Draughtsman. Will trade. Major interest Echinoids--all geol. time ages + recent ones. Has for trade some echinoids. Member The Possil Collectors Association of Australasia. Wants to be associated with people who are interested in fossils--echinoids in particular. Would like to obtain information about echinoids for study purposes.

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SEND ORDER TO: Gil Norris

2623 34th Avenue Ct. Rock Island, IL 61201 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 <u>anyone</u>, <u>anywhere</u> who is sincerely interested in fossils and the aims of the Society.

Membership fee: One year from month of payment is \$10.00 per household. Institution or Library fee is \$25.00. Overseas fee is \$10.00 with Surface Mailing of DIGESTS <u>OR</u> \$25.00 with Air Mailing of DIGESTS.

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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