

CALENDAR

November date changed-to Saturday

Nov. 19, 1994 Nebraska Center Annual Meeting-Election of 1995 Officers and Board of Directors by Ballot. Additional nominations will be called for prior to voting. Those nominees must have given prior consent to run. Any nominee must have at least 12 months current membership in the club. Presidential candidates must have served at least one year on the LGMC Board of Directors. Nominations will also be taken for electing two (2) to the nominating committee for a three year term to replace Jim Parks and Janet Wright.

Program: Professor Walter C. Erbach, recently retired from UNL Mechanical Engineering Department, will present one of his 3-D slide productions on English Geodes, 'Forces that Shape the Landscape.' This is a program that many of us missed when he presented it at our 1992 Show. Don't miss it this time!

Rock of the Month: Your favorite examples of Jasper & Quartz. Display space will be available.

December 5 December Board Meeting-Monday, 7 P.M. at Hurlbut Cycle Shop, 73rd & North Cotner.

December 12 Meeting & Christmas Dinner- Sunday, 5 to 8 P. M. See invitation Page 2

January 22, 1995 Meeting-our 17th Annual Indoor Swap, 1:00 to 5:00 PM, Scottsbluff-Minden Room, Nebraska Center, 33rd & Holdrege Streets, followed by our regular meeting at 7:30 PM. Watch for special news in our January Pick & Shovel.

March 5, 1995 Geology Day at Pioneer Park-be planning ahead.

Next LGMC SHOW-March 25 and 26, 1995, Pershing Auditorium.

Reminder- DUES ARE DUE ! Reminder

1995 REGIONAL SHOW SCHEDULE

EASTERN FEDERATION
March 17-19
Hickory, North Carolina

SOUTH CENTRAL FEDERATION
April 28-30
Waco, Texas

ROCKY MONTAN FEDERATION
June 9-11
Oklahoma City, Oklahoma

CALIFORNIA FEDERATION
June 22-25
San Jose, California

NORTHWEST FEDERATION
July 13-16
Boise, Idaho

MIDWEST FEDERATION
Unkown Date !
Detroit, Michigan

SOUTHEAST FEDERATION
Unknown

CLUB NOTES

Our October Meeting-Dessert Supper-Halloween Costume Party was a fun time for many with a very informative program produced by the Midwest Federation of Mineralogical Societies and a few added notes that had been researched by our Liaison Officer Vera Lyman. Thanks! Vera and Wooly!!

Our Educational Chairman, Roger Pabian, had cases with lots of wonderful cabs brought by himself, Wooly, Jim Parks, the Spencers, and some of the work of Bill and Betty White. Also featured was Opal by Billie & Dave Heffelbower and crystals by Ed Ridge. Thanks to each of you for sharing.

A FIELD TRIP FOR CLUB MEMBERS-(non collecting) Sunday, November 13,1994, Noon to 4 PM-Open House-COFFEE at Cycle Shop, 73rd & North Cotner Blvd, (Jim & Phyll's) **Materials**-" The Jones Collection" to be inspected, identified, sorted and enjoyed with the end result of making a decision about its future benefits to the club. Jim says this will also be a good opportunity to return any library materials and/or look over available materials to plan winter reading activities. Wooly sez "Bring snacks!!"

In case of snow or ice please call Phyll, Jim or Wooly before coming.
476-6798, 466-9837, or 475-9034

DUES ARE DUE and payable by January 1st, 1995 and will be accepted at any of our meetings prior to January 31st or you may send your checks to LGMC, P. O. Box 5342, Lincoln, NE 68505 Dues are \$10.00 per adult member, \$2.00 per youth or \$22.00 for a family including all children under 16 years of age. New memberships only require an additional \$5.00 per family as a registration fee.

(Any member not paying 1995 dues before January 31st, 1995 will be assessed the \$5.00 reinstatement fee.)

A CHRISTMAS INVITATION

Sunday, December 12, 1994 5 to 8 P.M.



A Christmas Buffet and Fun for all. Antelope Park Shelter across north and east of the Auld Center near the Viet Nam Memorial. Same as last three years. Meat (turkey & ham), coffee and tea will be provided by the club. Vegetables, salads, desserts and table service to be each club members responsibility.

Installation of 1995 Officers and Directors.

Program (To be decided)

GIFT EXCHANGE FOR THOSE INTERESTED

THE PRESIDENT'S MESSAGE

Fellow Club Members

I would like to encourage, **no challenge**, each of you to attend the November meeting. This is probably the most important meeting of the year as it is election night. The officers and board members who will be deciding the club's operations for the next year will be selected by **YOU!** **YOU** have a voice and this is how it is heard the strongest. I would invite you to not only vote but set forth goals and objectives you would like to see accomplished by the executive board over the course of the next year. Please speak out and make your thoughts known.

Our elections are as well they should be, from **YOU** the

held in an atmosphere of friendship and cooperation, but an organization needs direction and it should come members.

The Jones shop. The LGMC Club Sunday, November 13th (weather PM, organize and get acquainted with the provide club members an opportunity to learn more identification of minerals. We need lots of people to provide expertise. The coffee pot will be on and members are snacks to share.

Collection is now at Jim & Phyllis's cycle is going to hold a "Field Trip" on providing) from noon to 4 materials. This will about the care and both labor and encouraged to bring

A side benefit to this activity will be the ability for the club to make a more "informed" decision as to the future disposition of the collection. Suggestions include keeping the collection in storage in hopes of a future permanent "Club House", having a silent auction at the Christmas party amongst ourselves, selling the material at the swap or show, etc.

The November program is one that should be of interest to young and old alike. Adeline Nolde has arranged for Professor Walter Erbach to present a program on British Geodes. The presentation is in 3-D slide format, a technique Professor Erbach developed himself. I understand this program was very popular the the '92 LGMC Show but many members of the club including myself did not get the opportunity to see it.

Thank you Adeline!

Wooly

HAPPY Holidays

LINCOLN GEM & MINERAL CLUB, INC. - GENERAL MEETING - Oct. 22, 1994 7:30 P.M.
@ Bethany Park Shelter House

President made announcements of several upcoming events and Rock related Auctions. Then he called the Meeting to order. The Minutes of the previous Meeting and the Treasurer's report were approved as printed.

HOSPITALITY: Ed Ridge reported that 27 members were present.

OLD BUSINESS: Pam Killion asked to have her name removed from Board of Directors and listed only as First Vice.

The Jones Collection is at the Cycle Shop. Please call Jim & Phyllis Parks for appointment to see collection.

Four boxes of magazines were donated by Mrs Masa. They will be at Cycle Shop also, or will be disposed of at Show by Juniors or Silent Auction.

March 5, 1995 from 1-4 P.M. is "Geology Day" at Pioneer Park

SHOW BIDS:

Motion to table discussion until Nov. Meeting on bid for State Show.

Discussion of hosting a Federation Show. The idea was nixed due to lack of able-bodied members to undertake such a task.

REMEMBER WITH CARDS - Lloyd Tanner who is in a Nursing Home in Cozad. Clyde Wallace (member of 100th Meridian Club) who attends our Shows every year. He suffered severe injuries in fall from ladder, then a stroke.

SHOW - JRS:

Juniors are working on labeling materials for "Spinning Wheel". If you have any materials, please give to Pam or Kaye. They will help the Juniors label them for prizes.

STUDY GROUPS: Kevin S. is getting group together to work on Fossil Prep.

JANUARY SWAP: Flyers will be in Dec Bulletin. Room is already reserved.

PROGRAM: "Understanding of Federations" with MWF slides and printed handouts. Excellent explanation.

Then - HALLOWEEN COSTUMES - Some excellent "ROCK" disguises!! Thanks to all who participated. A special THANKS to Kaye Jurgens for all her efforts.

The evening closed with everyone enjoying refreshments and visiting.

Respectfully submitted,

Vera Lyman

Vera Lyman, Secretary

L G M C Treasurer's Report October 1994
NBC Checking Balance 9/30/94 \$2073.24

Receipts

'94 Membership dues	42.00	
'95 Show dealer space	300.00	
		342.00

Payments:

Oct. Pick & Shovel Printing	17.44	
UNL Center-Sept.Meeting Room	60.00	
Cards & postage for curtesy	7.93	
MWF Program for Oct.	5.00	
		90.37

NBC Checking Balance 10/31/94 \$2324.87

MORE CLUB NOTES

Weekend update on our club's friend and frequent show displayer Mr. Clyde Wallace of The 100th Meridian Club at Gothenberg-It seems that he is making progress enough that he wanted some of his rocks brought to him at the nursing home so he could share their beauty and interest with others in the facility. That can only be interpreted as good news. We wish him a quick return to his favorite haunts and will hope to see him at the 1995 shows and swaps.

As you will note this is a combined November-December Pick and Shoavel with news of all activities in the near future. As your Treasurer I ask that you be sure to get all bills for LGMC to me before the end of the year. We'll be discussing many of them at our December Board Meeting.

As Editor I ask that all copy for the January Pick & Shovel be in my hands by January 7th so it can be programmed into the bulletin. Thank you for your cooperation!

Special Thanks to Club Member Ed Petersen, who now resides in Colorado, for the excellent series of articles on 'Finding New Collecting Areas' and which we have had special letters of Commendation and requests for copies of units missed. We have two more units to run in the near future. We are skipping one this month in order to run the following copy from Conservation and Survey's **RESOURCE NOTES** with permission of the editor. I hope you will find this article as interesting as I did. -Phyll



Roger Pabian, CSD research geologist, examines some of the fossils being cataloged for an invertebrate fossil data base made from a collection put together mostly between 1921

and 1954 by researchers from the University of Nebraska-Lincoln and Yale University. Photo by Jerry Leach, CSD.

Fossils uncovered a second time for computer data base

Paleontologist resurrects invertebrate fossil data

by Deborah McAdams
Editorial Assistant, CSD

Long before there were buffalo, the Great Plains was a home where invertebrates roamed. In the early 1900s, a small army of geologists collected 7.5 million of the fossilized creatures. The fossils were put into boxes, brown paper sacks or sheets of newspapers, where most of them remained, until recently, said Roger Pabian, a paleontologist with the University of Nebraska-Lincoln Conservation and Survey Division (CSD). Pabian is trying to sort the fossils and create a computer data base with information from the collection.

Many of the fossils were collected by George E. Condra, the director of CSD from 1921 to 1954, and C. O. Dunbar, a researcher from Yale University, during their geological survey of Nebraska, Pabian said. Consequently, Yale developed an invertebrate fossil collection comparable to the one here.

Two years ago, Yale opened its collection at the Yale Peabody Museum, Pabian said.

Since the specimens were labeled with numbers and Nebraska had the only existing catalog of the collection, researchers at the Peabody requested a copy, he said. Copies of the catalog were made, but the material needed a great deal of organizing, Pabian said.

Data base lost for 30 years

"We are trying to resurrect a data base that's been lost for 30 years or so," Pabian said

To organize the catalog, the fossils need to be sorted. They range in size from microscopic, single-celled organisms to the cephalopods, which look like snail shells, some nearly two feet in diameter, Pabian said.

"When I started here 25 years ago, I started some basic unwrapping of specimens when I did the *Record in Rock* book," he said. *Record in Rock* is a handbook of the invertebrate fossils of Nebraska available from CSD.

Pabian is being assisted by Huaibao Liu, who is working on his Ph.D. in micropaleontology.

"After I unwrap it, if it's a good one, I mark it," Liu said. "Some of them are very good, particularly the crinoids."

Crinoids are related to starfish and sea urchins and are recognized by their five-sided structure.

"Some aren't good enough, and some have no labels," Liu said.

He pointed to photographs of some fossils that looked like small nails all pointing the same way, indicating a direction of water flow. The information about water flow is relevant, but the photos are useless.

"We cannot figure out where it came from," Liu said. "When you collect the fossil in the field, you have to make short notes."

Ideally, those notes include the location where the fossil was found, the type and thickness of the rock layer, other types of fossils that were found in the area, and how many of each type were collected.

What kind of environment?

"That can tell you what kind of environment the fossils came from," Liu said. "Was it land, was it sea—and what kind of sea—was it shallow or deeper ocean? Rocks such as limestone indicate there was sea."

"Some collectors were only interested in the fossils, so we don't have data on the rocks," Liu said.

The collection is also valuable because it covers such a long period of time, from 250 to 300 million years before the present. This allows researchers to see changes in the creatures over time.

Primary sorting determines what will remain in the collection. Unlabeled fossils that are in good condition could go to Morrill Hall.

"Some may go to the encounter center at the museum for little kids to dig out of the sand so they can get their junior paleontologist badge," Pabian said.

After deciding what to keep, Liu will sort the specimens by type and location. The collection is especially valuable to researchers because it is arranged according to the rock layers where the fossils were found, Pabian said. Most collections are arranged only by fossils species, or type.

The collection is also valuable because it covers such a long period of time, from 250 to 300 million years before the present. This allows researchers to see changes in the creatures over time.

"My intent is to get it on a data base. Then we will be able to draw up any information we want," said Pabian.

Paleoecologists—those who study ancient ecology—could use the data to determine what ancient environments were like, to understand changes in the environment, and to predict the stability of animal species, Pabian said.

The collection also contains "holotype" specimens—those used to describe a newly discovered species. Pabian has discovered at least 250 holotypes so far.

"A lot of what we have is first-hand information," Pabian said. Pabian is trying to get the collection organized to the point where another organization will be interested in providing funding to house the fossils.

"For a small investment of time and money, we could catalog irreplaceable data," he said.

MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES

Member of the American Federation of Mineralogical Societies

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PRESIDENT'S MESSAGE

When I started through the chairs three years ago, goals were established, and have seen fruition during this time. My priorities were: RESPONSIBILITY and YOUTH INVOLVEMENT.

I encouraged all State Directors to appoint an assistant in each club in their state. This would eliminate some of the need to visit each club, and matters could be accomplished by a phone call. Several of the State Directors have done this, and are able to keep in touch with their constituents on a regular basis, thus eliminating a considerable amount of time and money traveling from one end of the state to another...some states are mighty long!!!

At the State Director's meeting at the Show and Convention, I passed around a brochure explaining MGAGS, the Michigan Geology and Gemcraft Society, whose purpose is to provide supplemental services to those groups within Michigan whose common interest is the furtherance of the varied aspects of geology and the lapidary arts. I suggested and encouraged each State Director present to go back, and establish such a group in his state. It is a 'helping hand', per se. I intend to continue with this project, and offer help wherever it is needed.

"YOUTH INVOLVEMENT", a most important priority has produced tangible results. Kitty has spent considerable time gleaning material from various sources, from teachers, friends, other clubs, etc. This has all been passed along to Flossie Anderson, along with a sample of our "BASIC ROCK KIT", which we make for schools, teachers and kids! Flossie, who has a wealth of information of her own, along with her able assistants are/and will have a booklet and information ready shortly for the use of clubs. Several sources of information have been passed along via the Newsletter, many of these coming from Neil Reeder of the Brukner Gem and Mineral Club of Troy, Ohio. Exchange bulletins, phone calls and letters have proved to me that "YOUTH" are an important subject in clubs, as they are calling and writing inquiring on "How to Start a Junior Club", and ask for any sources of information available, and any clubs that can help them get started.

Several important issues were addressed...the MWF insurance payment on time, the Alert!, Alert!, Alert!, which was a special mailing, printed at my home, but mailed in Erie, Pennsylvania! Rockhounds responded magnificently...60,000 signatures convinced the Forest Service to rethink their proposed rules restricting amateur fossil and mineral collecting. Individual support of the Black Hills Institute, the Hardin County Fluorite Museum, and the Greene Museum were encouraged, but were not mandatory.

Two new societies joined the Midwest Federation this year. They are LAKE OZARK ROCK AND GEM AND MINERAL CLUB of Versailles-Eldon, Missouri, and CUYUNA ROCK, GEM AND MINERAL SOCIETY of Crosby, Minnesota. We welcome them aboard. These two clubs, along with the two new clubs which joined last year, lead me to believe the hobby is on the upswing!!!

The ISHPEMING ROCK AND MINERAL CLUB presented a tribute to the MIDWEST FEDERATION from the STATE OF MICHIGAN. I am checking into the possibility of this being placed in the A. E. Seaman Museum in Houghton, Michigan.

PRESIDENT'S MESSAGE...continued

Twelve new committee Chairmen were appointed to head various committees. They all gladly accepted the challenge of responsibility, and several have had regular reports in the Newsletter pertaining to their committee, or on important issues. I would like to thank them all for assuming these positions, and responding to the challenge. With committee chairmen taking their responsibility seriously, our future looks bright!

Back in 1989, I suggested at the fall meeting in Springfield, Missouri, that the profits from the conventions be cut from the usual 50%-50%, to 75% to the clubs, and 25% to the Federation, because convention sites were becoming harder and harder to get, and with this percentage perhaps it would give clubs more of an incentive to bid on a convention. This finally came to pass in 1993 in Houghton, Michigan. It was an idea whose time had come! We now have conventions lined up for 1995 in Detroit, 1996 in Macomb, Illinois, and possibly Milwaukee in 1998, anyone for 1997? And rumors have been flying around that various clubs are considering hosting a convention!!!

In this issue, you will find a first...a complete report from the recent Show and Convention in South Bend, Indiana. Please read it, and pass along any pertinent information to your fellow club members. This is an exceptionally large bulletin, but that is what it is for, to keep you the clubs and your members informed of ALL the happenings in YOUR Federation.

Our treasurer, Norm Hanschu reports that we have 182 clubs, with 9,576 adults and 888 juniors, and that we are financially solvent.

Now that my year as your President is coming to a close, it is with mixed feelings that I step down. I have enjoyed my march through the chairs, and hopefully have accomplished some, but not all of my goals. I am hoping that the new officers will follow through on some of the projects, especially the 'youth'. I have learned a lot about the inner workings of the federation, some good, some bad, have met a large host of dedicated people, who like me, wish to see this hobby prosper, and want to keep the Federation alive and well. I will continue to offer my services in whatever capacity they are needed, and I ask that you please support and assist the new officers and the committee chairpersons, just as you have supported me. I know of no other hobby that provides the camaraderie, the collecting, the displaying, etc., that this one does, and gives you friends ALL OVER THIS GREAT COUNTRY...that is why it is so great!

My heartfelt thanks to all of you for letting me be your 'leader' during the past year, good hunting to all of you, and REMEMBER TO BRING BACK ROCKS FOR THE KIDS, THEY ARE OUR FUTURE!!!

Sincerely,



Marve Starbuck

1994 ELECTED OFFICERS

President:	Charles Wooldridge, 836 S. 31st St.	Lincoln NE 68510	475-9034
1st Vice President:	Pam Killion, 3425 'N' St.	Lincoln NE 68510	477-1780
2nd Vice President:	Jerry Moore, 2305 So. 35th St.	Lincoln NE 68506	489-4184
Secretary:	Vera Lyman, 420 N. 56th St.	Lincoln NE 68504	464-6089
Treasurer:	Phyllis Parks, 2435 So. 19th St.	Lincoln NE 68502	476-6798
Board Member:	Ed Ridge, 2507 A St.	Lincoln NE 68502	477-8469
Board Member:	Kevin Schwartman, 5522 Shady Creek Ct.	Lincoln NE 68516	423-5523
Board Member:	Billie Heffelbower, 1819 Washington St.	Lincoln NE 68502	475-4713
Board Member:	Shirley Rockel, 1134 West Avon Lane,	Lincoln NE 68505	464-3059

Nominating Committee

3 Year:	Francis Belohlavy Ralph Ulrich
2 Year:	Jim Marburger Kathy Schwartman
1 Year:	Jim Parks Janet Wright
Chairman:	Immediate Past President

Long Range Planning & By-Laws Committee

3 Year:	David Heffelbower Jim Parks
2 Year:	Vera Lyman Roger Pabian
1 Year:	Kevin Schwartman Jim Marburger
Chairman:	Immediate Past President

Standing Committees


Membership:	Shirley Rockel	Programs:	Charles Wooldridge
Education:	Roger Pabian	MWF Liaison:	Vera Lyman
Field Trips:	Kevin Schwartman	Scholarship:	Dwight Miller
Historian:	John & Lillie Lewis	Christmas Party:	Billie Heffelbower Shirley Rockel
Hospitality:	Eddie "Lightning" Ridge	1994 Show:	Billie Heffelbower
Study Coordinator:	Ralph Ulrich/Kevin Schwartman	1995 Show:	John Harrison
Housing/Property:	Jim Parks	1994 Swap:	Kevin & Kathy Schwartman
Youth Activities:	Pam Killion	1995 Swap:	Dave Heffelbower
Librarian:	Jim Parks		
Auditing Committee:	Jerry Moore, Francis Belohlavy, Mike Jurgens		
Gem Palette Correspondent:	Pam Killion		
Geology Day Coordinator:	Jerry Moore		

Your PICK & SHOVEL Staff

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The purpose of this corporation shall be to study, promote an interest in, and disseminate knowledge of lapidary and various Earth Sciences including but not necessarily limited to geology, paleontology and mineralogy. It shall be a particular purpose of the corporation to provide education in these fields to its members and the general public, particularly youth and student groups.




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Advertising by rock-hobby business or interest is permitted with the approval of the Board. The rate now set at \$15.00 per full page; \$7.50 per 1/2 page; \$5.00 per 1/3 page; and \$3.75 per 1/4 page(min) per issue, paid in advance. These ads will be placed through the bulletin as space permits.

Subscription to the *PICK & SHOVEL* are \$10.00 per year mailed.

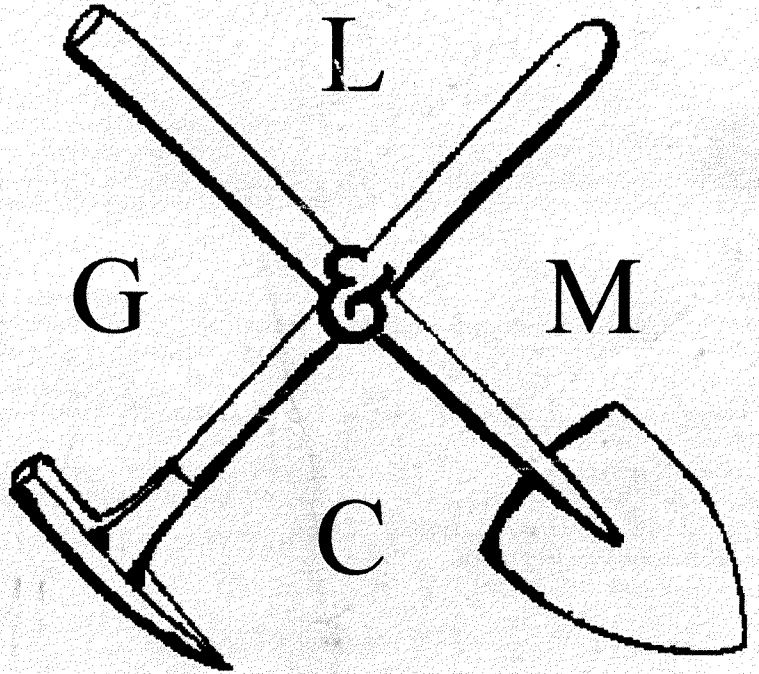
Dues to Lincoln Gem & Mineral Club are as follows:

Adult	(ages 16 and over)	\$10.00/year
Junior	(ages 12 to 16)	\$2.00/year
Family Membership	(Husband, wife, resident children under age 16)	\$22.00/year

New memberships must be approved by the Board, after the applicant attends at least one meeting of the club and pays the above dues plus a \$5.00 registration fee.

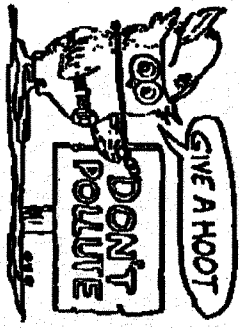
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NOVEMBER/DECEMBER
1994

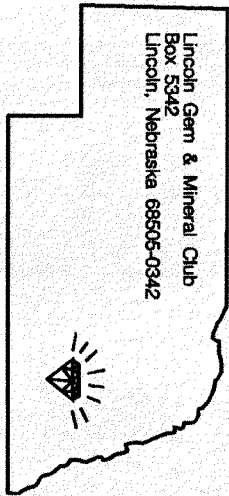


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LINCOLN, NEBRASKA



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