

The Pick & Shovel

Volume 46, Issue 4, December 2005, Page 1

Club Events

Jan 28 SWAP & General Meeting
SWAP 1-4 PM, Antelope Park Shelter,
SWAPPERS can set up at noon. **Pizza Party**
dinner (Valentino's delivery) at 5PM (\$5.00
each), **General meeting** at 7PM.

**Feb Geology Day-info in next Pick &
Shovel**

Recap November Meeting

PROGRAM- Video, "Secrets of the Dead,"
exploring the archeological excavations in
Kyrgyzstan. Presented by Dave Heffelbower.

Election of Officers:

President: James Marburger

1st VP- Pat Akins, Jr.

2nd VP- Roger Pittard

Secretary-Sharon Marburger

Treasurer- Vera Lyman

Board of Directors, David Heffelbower, James
Atkins, John Harrison, Charles Wooldridge

Food-Treats brought by Susy & Judy

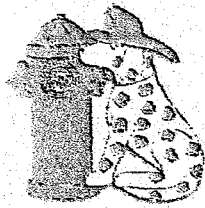
December Meeting & Party

PROGRAM: Rock Bingo-thanks to all who
brought specimens for prizes

Party: Meats and beverages provided by the
club, delicious hot dishes, salads and desserts
brought by club members. Special thanks to
Ed Ridge for the beautiful decorations which
created a festive atmosphere.



CHRISTMAS
December 25, 2005



President's Message

Thanks to everyone who accepted a position on
the board of directors and the nominating
committee for 2006. I will be calling on people to
fill other vacancies as needed. If you would like to assist with any
committee or position, please contact me. For example, we are in
need of an historian. See the inside cover of the Pick & Shovel for a
listing of all positions.

I would like to offer my thanks to Judy Reilly for the great
job as editor of the Pick & Shovel for the past four years. She has
tendered her resignation as of 12/31/05. Jim Atkins has agreed to
take over the editor's duties. Thanks for stepping up, Jim!

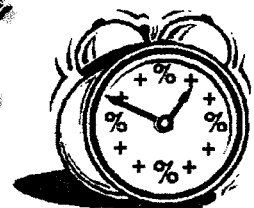
I urge each and every member to submit a short article for
publication in the Pick & Shovel. The article can contain tips, share
why you are a rockhound, tell about your field trip, or anything for
the good of the club. The newsletter belongs to US, and we should
all have input.

I wish you all a safe and happy holiday season. See you at
the January Swap!

Rock on!



TIME FOR DUES!



Club dues can be paid by mailing check to the club post office box #
(address and fees are on inside cover of the Pick & Shovel) by
December 31. Payment can also be made at the January meeting.
Dues are delinquent January 31, 1006.

Youth Page

From MWF Winning Articles, 2005 via The Loup Scoop, Dec. 2005

ANIMAL, VEGETABLE OR MINERAL?

By Katherine Vasper

From: *The Post Rock* 12/04

(Third Place AFMS Junior Articles 12-17)

Animal, Vegetable, or Mineral?

Katherine Vasper, McPherson Gem and Mineral Club

Junior

It's natural!

It's inorganic!

It has a chemical structure!

It has a crystalline structure!

It's a mineral!

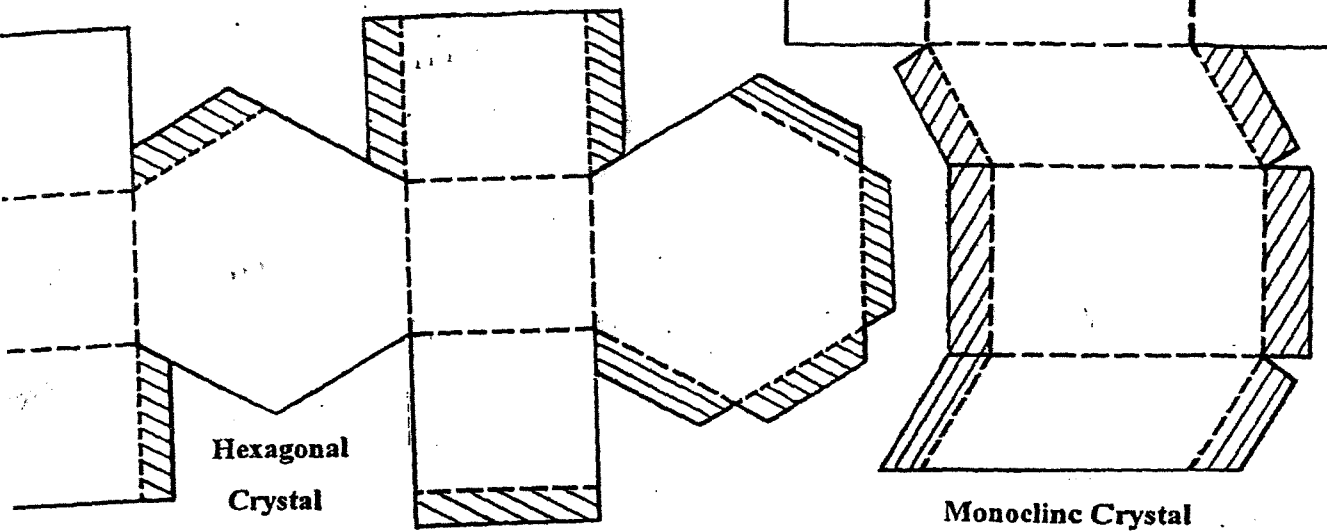
Let's learn more about minerals!



A mineral is natural because it crystallized from magma or was deposited from substances originally dissolved in water. A mineral is inorganic because it isn't alive and didn't come from something alive. A mineral has a chemical structure because it is a chemical element or compound. An element is the basic material of our world. A compound is a group of different elements. The smallest part of an element is called an atom. Atoms make up a chemical structure. The chemical structure can be written as a formula because the element or compounds that make up a mineral are always present in the same amounts. SiO_2 is the chemical formula for quartz. Quartz has one silicon atom for every two oxygen atoms.

A mineral has a crystalline structure. If we could look inside a crystalline structure, we would see that each atom has a large nucleus at the center with tiny electrons vibrating around it. Atoms can share electrons with each other. Atoms sharing electrons are 'charged up' with energy and are called ions. (From the Greek word 'go') Ions have strong attractions for each other. A mineral is hard and rigid because of the strong attractions, or bonds. The bonds lock the ions into little clusters called unit cells. The unit cells can have no spaces between them. Crystalline structures are limited to six basic shapes because of the lack of available space. The six crystalline shapes are isometric or cubic, tetragonal, orthorhombic, monoclinic, hexagonal, and triclinic. Examples of the isometric or cubic shape are gold, pyrite, diamond, magnetic and garnet. Two examples from the tetragonal shape are zircon and rutile. Sulfur, barite and topaz belong to the orthorhombic shape. Muscovite, selenite, borax and azurite are monoclinic. Beryl, ruby, sapphire, tourmaline, quartz and apatite are among the many gemstones in the hexagonal shape. Turquoise and Amazonite belong to the triclinic shape.

Now that we've learned what a mineral is, let's make some paper models. Copy the patterns onto stiff paper. Cut along the solid lines, fold on the dotted lines and glue the tabs together.



Editor's Note: The December issue of *National Geographic* features "sea monsters", including plesiosaur and mosasaur fossils, which have been found in Nebraska.

GENERAL MEETING – November 17, 2005, Antelope Park Shelter

The meeting was called to order at 7:10 p.m. Sixteen adult members were present. One guest was present: Jackie Barnhardt.

OLD BUSINESS: Jim Atkins made the motion to accept the minutes of the October meeting as printed, followed by a second by Charles Wooldridge. Motion carried. John Harrison made the motion to accept the October Treasurer's report, second by Phyllis Parks. Motion carried.

The Christmas Party will be held December 11 at 6:00 p.m. As usual, the club will provide the meat dish and beverages, members are asked to bring a hot dish and salad or dessert. There will also be an inexpensive, hobby related gift exchange.

David Heffelbower reported that plans for the 2006 January Swap are being coordinated. Vera Lyman will be reserving the room.

There was no show report as Show Chairman Pat Akins was not present.

No nominations were received from the floor for officers. Charles Wooldridge moved to close nominations for president, second by Phyllis Parks. Charles Wooldridge also moved to close nominations for first and second vice president, second by Jim Atkins. Mary Pittard moved to close nominations for secretary, second by Susy McMahan. Roger Pittard moved to close nominations for treasurer, second by Susy McMahan.

Judy Reilly nominated David Heffelbower for board, David accepted the nomination. Roger Pabian was nominated for board, but declined. Jim Atkins moved to close the nominations for Board, second by Mary Pittard.

Phyllis Parks moved to suspend the rules and accept the list of officers and directors for 2006, second by Vera Lyman, motion carried. The officers and board members for 2006 are: President – Jim Marburger; 1st Vice President – Pat Akins; 2nd Vice President – Roger Pittard; Secretary – Sharon Marburger; Treasurer – Vera Lyman; and board members Jim Atkins, John Harrison, Charles Wooldridge, and David Heffelbower.

Phyllis Parks nominated Vera Lyman, and John Harrison nominated Ed Ridge to next year's nominating committee. Charles Wooldridge moved to cease nominations for the nominating committee, second by Susy McMahan.

NEW BUSINESS: The Midwest Federation directory of events and program directory can be found online at <http://www.amfed.org/mwf/>. See Vera Lyman if you don't have internet access and would like copies.

Discussion regarding the possibility of changing the monthly general meetings to the third Thursday of the month. This would affect only four meetings. The purpose of changing the meeting date to the third Thursday is to have consistency and make the meetings evenly spaced for those who attend Board meetings. This would make every-other-week meetings rather than back-to-back meetings for Board members. Charles Wooldridge moved to suspend the rules and take a vote at this meeting, second by John Harrison. It was pointed out that the voting on this subject was published to occur at the December meeting, thus causing Mr. Wooldridge to withdraw his motion, and Mr. Harrison his second. The vote will take place at the December meeting as published.

Treasurer Lyman is now accepting dues for 2006.

The meeting adjourned to the program at 7:38 p.m. on a motion by Jim Atkins, 2nd by Phyllis Parks. The program, Secrets of the Dead, was provided by David Heffelbower. Very entertaining! Thank you, David.

Respectfully submitted,
Sharon Marburger

LINCOLN GEM & MINERAL CLUB, INC. – BOARD OF DIRECTORS – October 5, 2005

Kinkos, 48th and Vine

President Jim Marburger called the meeting to order at 7:01 p.m. Board members present were Jim Marburger, Roger Pittard, Sharon Marburger, Vera Lyman, John Harrison and Jim Atkins, along with guest Ed Ridge.

The minutes of the September meeting were distributed. Roger Pittard moved to accept the minutes as printed, Jim Atkins 2nd. Motion carried. The treasurer's report for September was handed out and Jim Atkins moved to accept the report as printed, 2nd by Sharon Marburger. Motion carried.

OLD BUSINESS: Roger Pittard reported that the spare tire has been purchased for the trailer.

No formal show report was made as Show Chairman Pat Akins was not present. However, Dealer Chairman John Harrison reported that 13 dealers had returned contracts and booth rent.

Plans for the Halloween party were discussed. It is designated as youth night, with desserts and hobby related Halloween costumes.

NEW BUSINESS: No new business.

The meeting adjourned at 7:27 p.m. on a motion by John Harrison, 2nd by Jim Atkins.

Respectfully Submitted,

Sharon Marburger



How Geologic Time Periods Got Those Crazy Names.

The three geologic periods are the Paleozoic, Mesozoic, and Cenozoic, from the Greek for ancient, middle, and recent life. They are divided into 11 periods most of them names for places where rocks from that period were first discovered.

The Cambrian Period (570 to 500 millions years ago) is named for Cambria (or Wales). The next two periods also have Welsh names: Ordovician and Silurian for the two Welsh tribes, the Ordovicians and the Silurians.

The Devonian is named for the Devenonshire, and Cretaceous comes from Creta, Latin for chalk. Creta refers to the white cliffs of Dover.

The Jurassic is named for the Jura Mountains in Germany and the Permian for Perm in Russia's Ural Mountains.

The Triassic got its name because it was really divisible into three parts. And the Carboniferous is named of carbon, because most coal deposits date to that period.

The most recent periods are the Tertiary and Quaternary named for types of rocks dated to those times. They are divided into epochs, whose names all end in "cene", a Greek root meaning recent.

Pleistocene is from the Greek for the most recent. Preceding it are the Pliocene, Miocene, Oligocene, Eocene, and Paleocene, for the most recent, less recent, little recent, early recent, and oldest recent.

Via Jax Gems 10/05, via Scribe from Rocket City Rocks, via Flint Flashes 9/93

From the MWF Newsletter, December 2005

AFMS SCHOLARSHIP REPORT

by Nellie Claxton, MWF Scholarship Chair

Our Federation year is over on October 31, 2005. Although we have a very impressive report of "giving" to the AFMS Scholarship Foundation from "Show to Show" - 2004 through 2005 - \$3,419.75, the donations are continuing to pour in! Eventually the Scholarship reports will get closer to the time of the gifts.

The following reports are for the donation that were received in August, following the August Delegates meeting:

- Gem City Rock Club, Illinois - Club memorial for Gretchen Reich - \$20.00 - 4800%
- Micromineral Society of Cleveland Museum of Natural History, Ohio (personal donation) - \$201.08 - from 1600% to 2800%
- Mineralogical Society of Cleveland, Ohio (personal donation) - \$201.09 - from 2300% to 3800%
- Tri County Rocks & Minerals Society, Michigan - memorial for Ruth Alcorn - \$10.00 - from 1000% to 1100%

MICA Winners:

- Osage Rock & Mineral Club, Missouri - \$25.00 - 500%
- West Suburban Lapidary Club, Illinois - \$25.00 - 2900%
- Columbus Rock & Mineral Society, Ohio - \$25.00 - 200%
- Worthern Earth Searchers of Illinois - \$25.00 - from 1800% to 2100%
- Mineral Area Gem & Mineral Society, Missouri - \$25.00 towards the 100% level
- Michigan Mineralogical Society, Michigan - \$25.00 from 1800% to 1900%

Diane & Jack Dare - Personal memorial for their grandson Kevin Lee Pender - \$50.00

To date in September, the following two donations were received:

- Personal memorial for Gilbert Stuckerjuergen - Lincoln Orbit Earth Science Society, Illinois - \$100.00 - 1400%

Non-member club, Midwest Federation Chap. of Friends of Minerology - \$100.00. In memory of deceased member Norman D. Leppert and deceased member Fred W. Lewis.

This brings our total donations to AFMS Scholarship Foundation since the "Show to Show" report as \$832.17 and this in only as of September 15, 2005. What a Year!! What a generous Midwest Federation!

MERIT AWARDS

by J.C. Moore

The AFMS All American Club Award Contest is for clubs who put together a notebook of the club's activities according to requirements set up by the AFMS All American Club Award Committee.

Participating in this contest is an excellent means of recording and documenting the activities of your club for the year. Ideally each club participating will have a committee working on this project throughout the year. It can be an overwhelming job for one person, or if left to do at the end of the year.

It is very important that each section have the documentation to show what was done by the club or members to warrant the points. Examples of letters, flyers, newspaper articles, or pictures are some things that make excellent documentation. If you do not want to include originals, copies will suffice.

There were changes made this year from suggestions of participants, committee members and judges. So those planning to participate, please make sure you have the proper set of requirements. These requirements, as well as the score sheet were included in the October issue of the AFMS newsletter. They are also to be available on the AFMS website for clubs to download.

Clubs participating must have their notebooks/ scrapbooks to me by March 15, 2006.

MWF Merit Awards
J.C. Moore
2535 N IL 97
Cuba, IL 61427

Exotic Terrane by Bill Gissler, SCVGMS Member

The geologic term "exotic terrane" refers to a group of rocks, a fragment of a formation, that attaches itself to a tectonic plate and ends up at a new site, totally out of place from its origins.

Video, V-106 available in the CFMS slide and video program library, traces the fascinating history of mysterious rocks in Hells Canyon region on the Oregon-Idaho border and provides an overview of tectonic activity along the Pacific coast. The video is actually two stories. It is first the story of the magnificent mountains along the Oregon-Idaho border. Second, it is the story of the geologists who pieced together the history of these mysterious rocks.

In the early 1960's, Dr. Tracy Vallier began mapping this region for the U.S. Geological Survey and discovered "pillow lavas," which develop only where volcanic lava flows into a large body of water. But Vallier was mapping an area 9000 feet above sea level and 350 miles east of the Pacific Ocean.

Subsequent studies of the paleontology of nearby rocks by Dr. George Stanley, Jr., from the University of Montana, turned up tropical marine fossils, specifically corals. How could it be that marine fossils were being found thousands of feet above sea level in eastern Oregon?

The answer lies in plate tectonics. The Earth's crust is made of separate pieces, called plates, that fit together like a puzzle. The plates are floating on hot, plastic-like material below. Some of the plates are pulling away from each other and some are colliding. Geologists call an area a subduction zone when two plates collide and one sinks under the other. The sinking plate melts and creates magma which then forces its way up through the overlying plate by volcanic action.

Dr. Ellen Bishop, from Eastern Oregon State College, noticed that rock samples dredged up from active subduction zones looked very similar to the rocks she was finding in eastern Oregon. Both were a melange, rocks that were

highly altered and a composite of a variety of materials.

Combining their research, Drs. Vallier, Stanley, and Bishop recreated the geologic history of the Pacific Northwest. Millions of years ago, ocean waves broke on beaches in western Idaho. A portion of a tectonic plate that had formed near the equator broke free, migrated up to, and collided with the North American continent. The collision occurred along a zone near Hells Canyon.

It is now thought that much of western North America did not form as part of the continent. Large parts are made of oceanic islands, coral reefs, and other seafloor fragments. And it is these parts, the EXOTIC TERRANE, which offer geologists such important clues to the past.

Beautiful scenery, computer modeling, discoveries in the field, and narration by John Forsythe combine to create an adventure in science in the video, "The Geology of the Pacific Northwest Exotic Terrane."

Trick for Cutting Mexican Jelly Opal Via The Lithnic 10/05, via The Chiseler 01/05

When cutting Mexican opal with transparent or clear (that's most of it) base color, cut a high dome on the top side and a moderate dome on the back. The reasons are two fold.

1. If you get the top and bottom domes just right, the light will refract within the stone as it does in the properly cut faceted stone. The effect will be as though light is trapped within the stone and the color will "glow" in a seemingly bottomless stone. It works great with or without play of color. Try it.
2. Polishing the back of the opal helps the stone to last longer. A polished surface tends to retard water loss from the opal over time. A rough surface has many times more surface area per given dimensions, than a polished surface, thus increasing the potential for physical and chemical interaction.

Passing the Torch

Thank you sincerely to everyone who has helped me with the Pick & Shovel over the past four years. First and foremost, A HUGE THANK YOU to Phyllis & Jim Parks who were the circulation editors when I took over as editor in January, 2002. Since Jim passed away, Phyllis has taken on the role alone, and I understand, she will continue to serve in this capacity for the new editor. I literally could not have published the newsletter without her help. Thanks also to the past and present presidents who always had their messages to me on time and thanks to the other officers for their reports. The meat of the newsletter is the articles submitted by club members. I want to thank all of you who contributed articles, reports, photos, poems, jokes, etc. Roger Pabian sent me original articles every month for two years, many of which were picked up by exchange bulletins. The late Grant Bennett and Irl Everett (Evey) often submitted hobby-related stories which were always enjoyable to everyone. Roger and Mary Pittard, James and Sharon Marburger and others shared vacation and field trip stories and the Marburgers, Roger Pabian, Jim Atkins, Bill White and others, e-mailed some great pictures, which added so much to the newsletter. I also want to thank Susy McMahan for lending moral support as well as good articles and great suggestions and for helping me keep things in perspective. I probably missed someone important and, if so I apologize. The main thing I want to convey is that the newsletter is very important to a club, and one person cannot produce a good bulletin alone. Please give the new editor, Jim Atkins oodles of support, as you gave me, by submitting articles, reports, stories, etc to him for printing.

Merry Christmas & Happy New Year!

Judy Reilly



Glass Specimen Cover

Wouldn't it be nice to get a cheap clear glass cover for your valuable crystals, minerals, etc., without having a custom-made glass cover? Try this out. At a flea market or yard sale, pick up a few odd wine glasses, large or small, with no patterns etched on them. With your trim saw, cut the stem off as close to the base of the globe as possible. Polish the goblet end to a glass finish, place over your specimen and there you are. No more dust on your specimens. Also, looking down through the cut end magnifies whatever you have under it. The stem can be polished flat to mount anything else you fancy. A word of advise, though. Don't get caught in your wife's china cabinet. She might get a little upset.

Via Show me Rockhounds 9/05, via John Radcliffe on internet, via the Rockpile 1998,

Shop Hint

Mineral Oil has many uses. It is fine for preserving borax crystals from Hydration changes. It makes varisite a deeper green, and improves appearance of fluorites and calcites.

From The Memphis Archaeological Society, via Rocktik, 11/83, via Huntin' and Diggin' 9/94, via Bak-bender's Gazette 5/04

From *Rocky Ramblings* by Evey...a publication of stories from the late Irl Everett, who founded LGMC and was a real gem himself.

THE WIDOW AND THE WIDOWER

I can't remember who asked me to write some little stories down. Let's see... Was that Suzy Rcilly or that Judy McMahan? Wait, I think I got the names mixed up. It should be Suzy McMahan and Judy Reilly. Well, any way they have caused me to go crazy in writing. As I do one story, at least three or four more come back to me. This one in my mind is a classic. It involves once again, Frank Rule. Wow – how many tricks were pulled on him and he still loved us all. Well, we loved him too. He was so much fun.

There was a field trip planned for out in Wyoming to the rock beds. It was supposed to be a four-day deal, and was for collecting wood, agate, and other rocks. I can't remember who the trail boss was, but it seems like it was Tom Simmons. It also was a state with rock field trips, so there were about seven or eight trailers in the roundup.

Of course, Tom could not turn down a good field trip. So off he went, trailer and pickup. It seems they started the trip from Grand Island or North Platte, and they all headed for Wyoming. Now Frank Rule was a widower and in another trailer was a widow. She was, as I get it, kind of "looking" for a man.

Well, as they started west, they stopped overnight somewhere and she let it be known that she was looking. Now poor Frank did not know this, but it seems like some dirty rotten rockhound in this convoy of trailers kind of hinted to her that Frank was "looking" too.

Well, things went all right the first day in the Wyoming field, and as they all sat around the campfire, Frank said, "I'm tired. I'm going to see you in the morning." And off he went. This is when the "dirty rotten" planners started the rumor that Frank was looking and someone should go over in the morning and make him breakfast.

Ho-ho – now you get the drift of this plot. So sure enough, she went over and knocked on Frank's door. She just walked in and said, "Where's your skillet? Where're your eggs? You got any bacon? I'll make you coffee before we eat."

Man, poor old Frank did not know what happened. Then before dinner, she said, "Frank, why don't I make up some potato salad for supper. I'll peel the taters and you boil the eggs and cut up the onions and get the mayonnaise ready. Okay?"

Well, Frank was really taken aback, but was kind about it all up to this point. Then the next morning, I don't know if she even knocked, but was once again in his trailer cooking eggs, bacon, frying potatoes, toast and coffee. Frank wondered what was happening and would talk to the guys and say, "What am I going to do? This is getting serious."

Well, like ol' Job in the Bible, all his "friends" comforted him and told him just to hang on for a few more days and all would pass way. But it did not. She was more pressing and more "comfy" around poor Frank. It seems like she was always with him and pressing more and more and being with him in his trailer. Listening to the radio, playing checkers – it was a battle and Frank did not know how it would end.

Along about the third day, Frank was really overwrought about the whole ordeal. So he moved his pickup to the trailer hitch and told the guys he was going to "charge his battery" in the trailer park. Well, this sounded reasonable, and no more was said. They all had fun around the campfire. The widow was sitting by Frank real close like and Frank could feel the "full court press" coming on him. About 9:30 or so, Frank told them, "I'm going to bed, see you in the morning." Off he went, but not to bed yet. He screwed his tongue jack down to the ball hitch. He connected the light wires. He screwed his tongue jack up tight and was ready.

Oh, boy was he ready. It seems like at four or so in the morning while everyone was asleep, ol' Frankie Boy cranked up the old pickup and awayyyyyyy he went. The poor widow got up in the morning and was going over to fix Frank his breakfast, but he was gone.

You know, as I type this little story, I wonder if anyone ever told Frank about the set up they pulled on the "widow and the widower".

Frank, thank you for the fun times we had with you and the joy you gave us all!

Rockspectfully,

Evey

2005 ELECTED OFFICERS

President	James Marburger	332 Locust	Hickman, NE	68372 (402)	792-2348
1 st Vice Pres.	Pat Akins, Jr.	5017 N. 6 th St.	Lincoln, NE	68521	477-1322
2 nd Vice Pres.	Roger Pittard	1013 Road K	Geneva, NE	68361 (402)	759-4623
Treasurer	Vera Lyman	420 N. 56th St.	Lincoln, NE	68504	464-6089
Secretary	Sharon Marburger	332 Locust	Hickman, NE	68372 (402)	792-2348
Board Member	James Atkins	3028 S. 35th St.	Lincoln, NE	68506	483-1610
Board Member	John Harrison	330 Locust	Hickman, NE	68372 (402)	792-2337
Board Member	Judy Reilly	4050 Worthington Ave	Lincoln, NE	68502	421-3064
Board Member	Charles Wooldridge	10305 202 nd St.	Greenwood, NE	68366 (402)	789-8100

Nominating Committee

3 years	Susan Esquivel
	John E. Harrison
2 years	Mary Pittard
	Phyllis Parks
1 year	Vera M. Lyman
	Edward Ridge

Chairman: Immediate Past-President Susan McMahan

Long-Range Planning & By-Laws Committee

3 years	Daniel Dexter-Guy
	Phyllis Parks
2 years	Susan Taylor
	Edward Ridge
1 year	Vera M. Lyman
	Roger K. Pabian

Standing Committees

Education /Librarian:	Roger Pabian	MWF Liaison:	Vera Lyman
Field Trips:	Pat Akins, Coordinator	Scholarship:	Vera Lyman
Historian:	Sharon Marburger	Christmas Party:	Edward Ridge
Membership Record:	Edward Ridge	2005 Show:	John E. Harrison
Programs:	David Heffelbower	2006 Show:	Pat Akins, Jr.
Property:	Pat Akins, Jr. & James Marburger	2005 Swap:	Roger Pittard
Youth Activities:	New Committee in Place	2006 Swap:	David Heffelbower
Refreshments/Door Prizes:	Judy Reilly		
Housing Committee:	Susy McMahan, Pat Akins, Charles Wooldridge & Vera Lyman		
Auditing Committee:	John Harrison, Roger Pabian & James Marburger		
Geology Day Coordinator:	2nd Vice President Roger Pittard		

L. G. M. C. web address—courtesy of Jim Atkins:

<http://incolor.inetnebr.com/jna/gemclub/lgmc.htm>

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, especially to youth and student groups.

J. J. & L. ROCKS and MINERALS

COME SEE US FOR YOUR ROUGH NEED'S

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STARTING OUR 30th YEAR

330 LOCUST
HICKMAN, NE 68372-0068

PHONE
402-792-2337

"PROVIDING SUPPLIES FOR THE NOVICE TO THE DISCRIMINATING ROCKHOUND"
Please Call for Appointment

LINCOLN GEM & MINERAL CLUB
hosts our

48th Annual Show
at

PERSHING CENTER
226 Centennial Mall South

*** March 25-26, 2006 ***

Show Chairman Pat Akins, Jr.

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 is \$10.00 per year mailed.

Dues to Lincoln Gem & Mineral Club are as follows:

Adults (age 16 and over) \$10 per year Juniors (age 12 to 16) \$2 per year

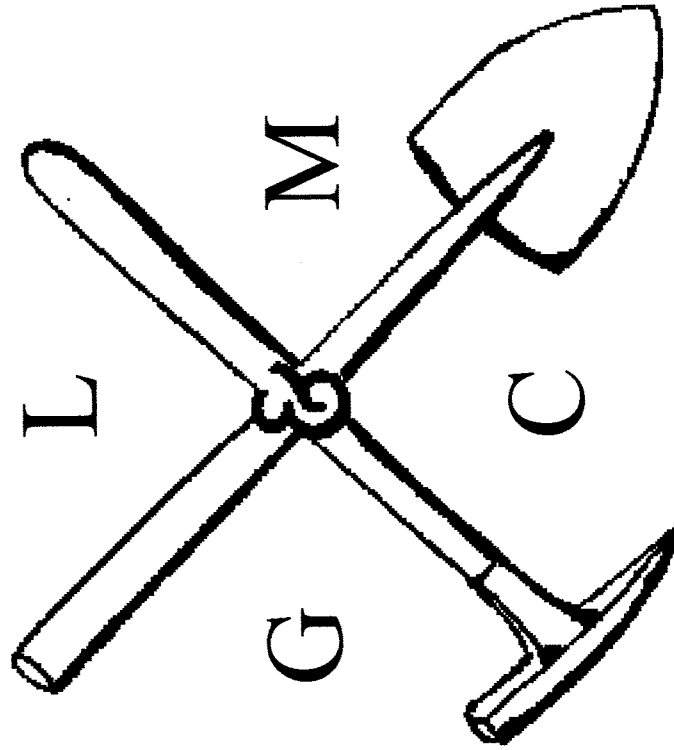
Family Membership (Couple, resident children under age 16) \$22 per year

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 registration fee.

Meetings: Fourth Thursday, Sept. through May except December & January to be announced. Held at Antelope Park Indoor Shelter, near 30th and Sumner, next to the Veterans Memorial and the children's playground.

THE PICK & SHOVEL

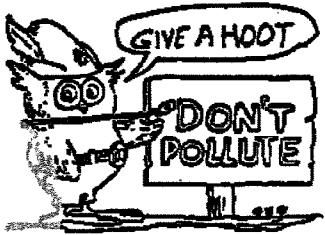
December 2005



OFFICIAL PUBLICATION OF

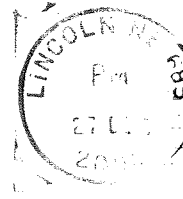
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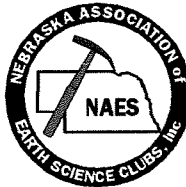
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