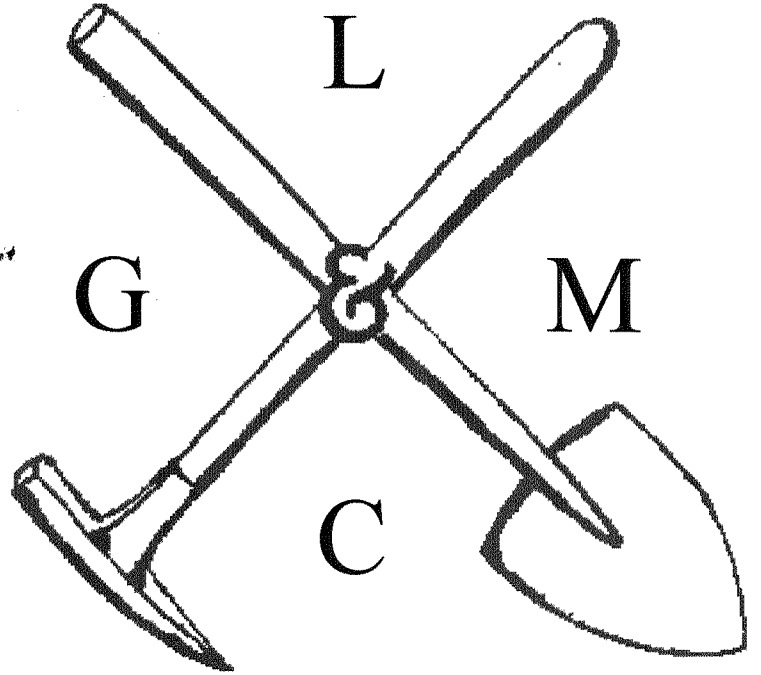


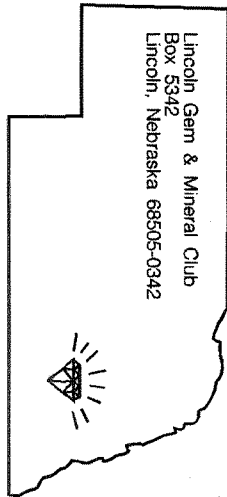
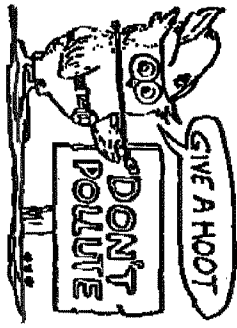
# THE PICK & SHOVEL

March 2002



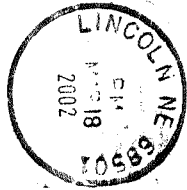
OFFICIAL PUBLICATION OF  
LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA



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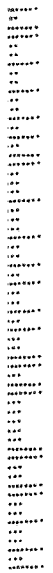
**H. E. L. P.**  
Help Eliminate Litter Please



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Susy McMahan  
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Lincoln, NE 68507

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## 2002 ELECTED OFFICERS

President	Susy McMahan	5636 Greenwood St.	Lincoln, NE 68507	464-0065
1 <sup>st</sup> Vice Pres.	Grant D. Bennett	721 No. 58 <sup>th</sup> St.	Lincoln, NE 68505	466-5377
2 <sup>nd</sup> Vice Pres.	Pat Akins, Jr.	5017 No. 6 <sup>th</sup> St.	Lincoln, NE 68521	477-1322
Secretary:	Vera Lyman,	420 N. 56 <sup>th</sup> St.	Lincoln, NE 68504	464-6089
Treasurer:	Phyllis Parks,	2435 So. 19 <sup>th</sup> St.	Lincoln, NE 68502	476-6798
Board Member	David Heffelbower,	1819 Washington St.	Lincoln, NE 68502 cell	890-2794
Board Member	James Marburger	330 Locust	Hickman, NE 68372	792-2348

### Nominating Committee

3 years	John Harrison
	Aulden Stewart
2 years	Billie Heffelbower
	Judy Reilly
1 year	Jim Parks
	Edward Ridge

Chairman-Immediate Past President James N. Atkins

### Long Range Planning & By-Laws Committee

3 years	Susan Taylor
	Edward Ridge
2 years	Vera M. Lyman
	Roger K. Pabian
1 year:	Charles Wooldridge
	Kevin Schwartzman

### Standing Committees

Education / Librarian	Roger Pabian	MWF Liaison:	Vera Lyman
Field Trips:	Pat Akins, Coordinator	Scholarship:	
Historian:	Susy McMahan	Christmas Party	Susy McMahan
Membership Record:	Edward Ridge	2002 Show:	Roger K. Pabian
Programs:	Roger Pabian	2003 Show:	John Harrison
Housing/Property:	Jim Parks	2002 Swap:	Roger K. Pabian
Youth Activities:	Kay Jurgens	2003 Swap:	David Heffelbower
Auditing Committee: John Harrison, Roger Pabian, James Marburger			

L. G. M. C. Web Page Address :

Geology Day Coordinator: 2nd Vice President

<http://nesen.unl.edu/lgmc/lgmc.html>

### Your PICK & SHOVEL Staff

<b>Publisher:</b>	Lincoln Gem & Mineral Club, Inc., P.O. Box 5342, Lincoln, NE 68505-0342
<b>Editor:</b>	<b>Judy Reilly</b> 421-3064
<b>Assistant</b>	Phyllis N. Parks 476-6798
<b>Business Reporter:</b>	Vera Lyman 464-6089
<b>News Reporters</b>	<b>All Club Members</b>
<b>Circulation:</b>	Jim Parks 476-6798

The PICK & SHOVEL is the official publication of the Lincoln Gem & Mineral Club, Lincoln, Nebraska. Articles and items appearing within may be reproduced in other club bulletins, provided proper credit is given to the PICK & SHOVEL and the author and that a reprint of the bulletin is sent to the editor of the PICK & SHOVEL.

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

GEMS - CABS  
ROUGH - SLABS - MOUNTINGS  
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STARTING OUR 27<sup>th</sup> YEAR

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

NEBRASKA STATE SHOW  
hosted by

LINCOLN GEM & MINERAL CLUB

at our

44<sup>th</sup> Annual Show

PERSHING MUNICIPAL AUDITORIUM

March 23 - 24, 2002

'A BLAST FROM THE PAST'

Show Chairman - Roger K. Pabian

Read your bulletin for new materials or specials from the above advertisers.

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:

Adult(ages 16 and over) \$10.00 per year  
Junior(ages 12 to 16) \$ 2.00 per year

Family Membership (Husband,wife,resident children under age 16) \$22.00 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 \$5.00 registration fee.**

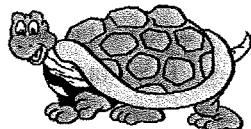
## CLUB EVENTS

- March NO GEN. MEETING!  
 19 Science Fair, AgHall 5-8pm  
 21 Meet at Stash 8AM haul items to show (3201 N 19th)  
 21 Set Up for SHOW at Pershing 9AM  
 22-23 LGMC SHOW "...blast from the past"  
 23 Dealer's Breakfast Old Country Buffet 8AM9see p.5)  
 April 25 General Mtg, Gere Library 56 & Normal 7-9PM  
 May 23 Mtg at Antelope Park Shelter near 31st & Sumner 7:0-9PM.."Dessert Supper" with club providing coffee  
 June Field Trips (see. p.6)  
 July Grinding Party date to be announced  
 Sept 26 Mtg Gere Library 7-9PM  
 Oct 24 Halloween Meeting at Antelope Park Shelter 7:30-9PM  
 Nov. 21 Gen Mtg Kellogg Center  
 Dec. 8 Christmas Party  
 \*\*\*\*\*Nearby Events\*\*\*\*\*  
 May 3-4 McPherson Gem & Mineral Club Rock Swap, 4-H Fairgrounds, McPherson, KS  
 May 10-11 Hutchinson Gem and Mineral Club Show, Highway 96, Hutchinson, KS  
 June 21-23 Mid America Paleontology Society Swap and Show Monroe Co 4-H Fairgrounds, Bloomington, IN

*Happy Easter!*



## PRESIDENT'S MESSAGE



We are closely approaching both Spring (finally) and our club's annual show -- the

Lincoln Gem & Mineral Club's 44th Annual Show- "...a blast from the past." This show will have many new treats in store for everyone. New dealers, new demonstrators, and new programs, as well as many of our old favorite dealers and demonstrators. We are hosting the State Show, and there will be a silent auction to benefit Nebraska Association of Earth Science Clubs, Inc. (NAOESCI-nay-o-see, much easier to remember!) All members should glean their stash for some nice rocks, slabs, specimens, magazines, etc., to donate to our state club!

Another member activity is to show up on Friday morning, the 22nd, at 9am, to help set up. Or, if you have muscle and a truck, meet out at the Security Storage, just north of 19th & Cornhusker. Taping skirting to tables, assembling and setting out display cases, and just helping out in general. It's a peek at what will be at the show, and a chance to meet the out-of-town dealers.

Be sure to have your case ideas ready, and we are sure to have a great show!

Another reminder, March 19, which is a Tuesday, is the LPS/Pfizer Science Fair. LGMC has been invited to demonstrate so the 5th & 6th graders have something to do while waiting for their exhibits to be judged. It's a lot of fun, kids are so interested in rocks! Any member is welcome to bring in equipment to demonstrate, or exhibits to show. The times are 5- 8pm. Give yourself a little time to set up. Location is at the Ag Hall, State Fair Grounds.

Just a reminder...no general meeting in March due to the show.

See you at Science Fair (I hope) and at the Show!!

Susy

YOUTH NOTES  
by Kay Jurgens

Juniors, prepare yourselves for a "Blast from the Past". We will need the help of current juniors and our "recent grads" to run the show this year. I've been very busy taking care of my family, and I'm really looking forward to the show. It will be a wonderful break.

I need your input for ideas for the show. Call me at 786-2756 or E-mail me at Ruby51@aol.com. I'm planning on everyone being available both Saturday and Sunday, so let me know if you can't be there. Don't forget to bring a collection to exhibit. Some of you have done a fantastic job in the past! Also, I need some articles from Juniors to put in the Pick and Shovel. What would you like to write about? Let me know, or bring it to the show.



**WHAT'S THE BUZZ?**



I sure have had a lot of fun with club activities since the last newsletter. Geology Day was a blast (see p. 3) & the Feb. meeting was great. I really enjoyed Roger's presentation on dopping. (I knew I shouldn't have used that 3-ft long dopping stick!) I also read 1015 of articles this past month, some of which appear in this issue. There is sure a lot to learn about this hobby. And I completed the month with a trip to KC for the KC SHOW. My navigator, Susy McMahan and I were blown to KC in the ice and wind and boy were we glad we made the trip. My husband just shook his head in disbelief as I unloaded rock after rock and sphere after sphere! But we had FUN! And I am sure looking forward to more fun at the show. I might even be able to get my new camera working by then.

Judy.....jshannonreilly@aol.com

\*\*\*\*\*

Jim Parks has been having his ups and downs. He is not feeling so well at this writing so keep him in your thoughts and prayers, as I do.

Billie Heffelbower had a bout with pneumonia. At the Board Meeting, Dave reported that she was feeling some better. We are wishing you a continued recovery, Billie!

Kay Jurgens has been experiencing some rough times but is still active with the youth group which is greatly appreciated.

\*\*\*\*\*

*New Members*

*Welcome the following new members:*

*Stella & Charles Thiessen, 1519 Superior, #13, Lincoln, NE 68521*

*Daniel & Amy Dexter-Guy, 3737 Lewis Ave., Lincoln, NE 68521*

*Dave & Gail Dobesh, 342 S. 18th St., Lincoln, NE 68508*

*Bret & Deborah Henning (applied for membership) 1836 SW 11th St 68522*

*Reinstated member: Richard Caster, 5740 Rokeby, Rd 68516 423-7472*

*(Please add the Hennings and Richard Caster to your Who's Who?)*

\*\*\*\*\*

If you have not received your new membership cards or the new BRIGHT YELLOW "Who's Who?", please see Vera at the Show.



*Memorium*

Former LGMC member and 1st Vice President, Louise Baugher passed away Monday, Feb. 11, 2002 at the home of her granddaughter, Kim, in LaLuz, NM. "Lou" and her late husband, Floyd loved the outdoors and shared an interest in mineral collecting over the years. Louise will be missed by her family and friends. She was 83.

# GEOLOGY DAY, 2002



What a day-bright and sunny, with just a bit of coolness in the air!. It was just that kind of day to get out of the house.

So what a better day for the Lincoln Gem and Mineral Club to hold its annual Geology Day. The event was held Sunday, February 17, 2002 at the Prairie Building Auditorium in Pioneers Park. There was an EXCELLENT turnout of 116 guests and 13 club members!

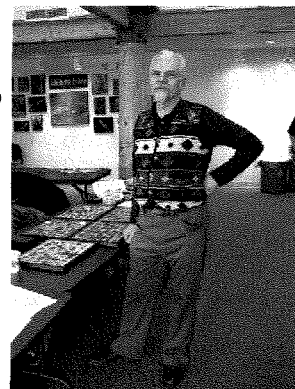
John Harrison displayed horn coral and Blue Forest limb casts. The kids were delighted to receive specimens of each for their collections. Roger Pabian was present, showing lapidary work and identifying minerals. David and Billie Heffelbower showed, what else but opal? Jim Parks displayed fossils and Phyllis brought a beautiful, large geode. Guests really enjoyed examining it with a flashlight and watching the crystals sparkle. Judy Reilly displayed some very nice geodes. She also explained to and showed our younger guests how to start a rock collection. Jim Atkins showed some nice finished lapidary work and brought books about our hobby. Ed Ridge had a very nice case showing black light effect on various rock. He brought some rough rock and nice finished material. Pat Akins and his son, Chris, had a beautiful display showing black light material plus a very nice display of petrified wood. Chris was very proud to show his display of opal. I was busy answering questions and doing some silversmithing.

Our host for the afternoon was Karen Messenger. What a wonderful person! She helped set up tables and chairs. She also provided coffee, tea, fresh fruit and a variety of fresh vegetables for the club members. Pat Akins brought some pastry to add to the feast.

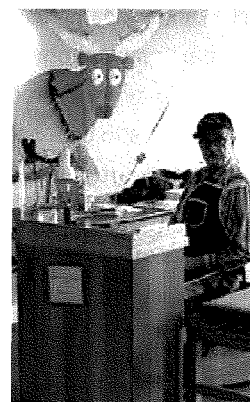
So, members of the Gem and Mineral Club of Lincoln that could not make it to a very nice afternoon...we hope to see you next year on Geology Day!

Club Reporter,  
Grant Bennett

(photos by Roger Pabian)



(photo by Jim Atkins)



# It's Show Time!

## Some Last Minute Show Thoughts

In less than two weeks, the show will be history and we will all have had a chance to participate in it. It is the hope of all of the committee members that all of you will choose to effect the outcome in a constructive manner in one way or another.

There are a number of ways you can help accomplish a successful show and make a solid contribution to the overall efforts of the club. First, any kind of display that you can put together will be most beneficial. Believe it or not, it is not the big time feature that makes the show. I have seen many shows where a big feature was billed but there were no individual exhibits. An individual exhibit can show the visitors what you are doing and what some of the material that can be found in your area is. One time I went to a national show in Oregon. There was only one exhibit of material from that state. The whole show was pretty flat. Sure, there were some nice features but I left learning little about Oregon's gems and geology.

Can you do something on set up day? That is when the show that the public sees really goes together. All of the behind the scenes work has been done and we just have the physical part of the project. That includes bringing in material from the stash on North 19th Street. We need to have a work crew assembled there at 8:00 AM on Friday, the 22nd. Many hands make short work.

When the cases and other show paraphernalia arrive at the auditorium, we need to have people to help assemble cases, carry things to their various places in the auditorium and cover tables. It takes about 4 hours to cover the tables such that we can start putting in cases, displays and demonstrations.

The first step is to get the dealers in place. The dealers bring in their vehicles and unload; then, they take their vehicles out of the building. During this phase of setup, we will be covering tables and preparing the display area to receive displays. As soon as the dealers are in place and the tables are covered, usually early afternoon, members and other exhibitors can begin setting up their materials. Exhibitors are under the same obligation as the dealers; that is, bring in their vehicles, unload, and remove their vehicles promptly. A vehicle in an aisle with a driver who has stopped off for a cup of coffee or a visit to the restroom or a visit with friends can really slow down setup.

After all of the unnecessary vehicles are removed from the auditorium, one needs to put up ones display or demonstration. If one does not have ones own cases, one needs to get a club case. We do need help assembling the cases and taking them to their assigned display area. If there are no cases set up, your help can be used in assembling the club cases and other club properties. We have to check the cases to see that none have broken glasses or large, protruding splinters. In addition to setting up the cases, the glasses need to be cleaned. So we need some workers here too.

There will be other jobs too, such as putting the exhibitor's badges and ribbons together. This may seem like a small job to some but it is very important and has to be done. The people doing that work will appreciate your help there.

Another job that needs to be done is to help string up the electrical cords that furnish lights to the cases. We need to be sure before the show opens that all of the areas that need lights have electricity. We need to check and see that the cords are safe and that there are no cracked plugs or frayed wires. Are all of the light bulbs that have been put into the cases work.

The program room needs to be set up. There is a projector to carry in and set up. It has to be checked to see if it is operational. There has to be a back up projector and a screen set up. The PA has to be checked to see that programs can be announced.

Other areas that need workers are the junior activities area. There is the gem dig and the fossil dig that needs to be set up. These need a couple of hands to get these jobs done. The gem dig needs to have some tables, chairs and lights set up for the show attendees. The fossil dig needs to have the bins for the loose shale set up and the shale placed in the bins.

Since we have a state show this year, we will also have to have an area set aside for a silent auction. Setting that up requires a couple of people.

(continued on p. 5)

When all of the above things are going on, the person in charge is the floor chairman. The floor chairman will provide all of the help and instructions on how things are to proceed. During the set up time, the floor chairman is the most important administrator of the show. There's still a lot to do, but let's go to the show opening the next day.

We need to have some people working to sell tickets and see that guests sign the register. The self-adhesive labels on which they register serve as a mailing list for the next year. You can help by working at the front desk for an hour or two.

The club booth needs to be staffed and that takes more than one person. Ideally, two or three people can work here and greet the public. This is where the club recruits potential new members.

The Junior Activities Booth needs to be staffed by more than one person. There are many opportunities for kids to get rocks and become acquainted with rock collecting. One person can't do all this. This is another area in which potential new members can be recruited.

These are some of the things that have to be done when we set up and operate a show. It requires a great deal of work and concentration. There are many details. Then there was the preparatory work that took place months before the show. Contacting dealers, getting features, insurance, demonstrators, table covers, and many other things needed to be done months ahead of time.

The members can put the icing on the cake with their exhibits, their works on some of the above jobs, and their support for those who are managing the various departments of the show.

Thank you.

Roger K. Pabian

\*\*\*\*\*  
**Silent Auction**

To all club members, Please be thinking of helping out on the Silent Auction, it's not real hard to do, just do a little rock house cleaning, we all have one or two items that we can part with. You all know that your trash can be someone's treasure. Also if you can volunteer to help me !!!

Looking forward to seeing you all in a couple of weeks.

Betty White

\*\*\*\*\*

Betty and Bill White pose by their displays at the KC SHOW, March 8, 2002. (photos by Roger Pabian)

More photos upcoming on club web page and April Pick&Shovel.



Lincoln Gem and Mineral Club

Proudly presents its

**44<sup>th</sup> Annual**

**SHOW**

Combined with the 2002 Nebraska State Show  
"...a blast from the past"

*Please put these dates on your calendars now!*

**March 23, 24, 2002**

Displays	Working Exhibits	Dealers	Programs
Fossils	Gem Dig	Family Activities	Minerals

and many more Educational Exhibits and Activities

-----Valuable Coupon Below-----

Pershing Auditorium, between M St. and N. St. on 15<sup>th</sup>, Downtown  
Lincoln, NE

**Lincoln Gem & Mineral club, 44<sup>th</sup> Annual Show**

Admission: Adults-\$4.00, Children Under 12-free with adult  
Two-day pass - \$6.00

Hours: Saturday, March 23, 9:00 A.M. to 6:00 P.M.  
Sunday, March 24 10:00 A.M. to 5:00 P.M.

Bring this coupon or newspaper ad for \$1.00 off all adult admissions to the show.

\*\*\*\*\*

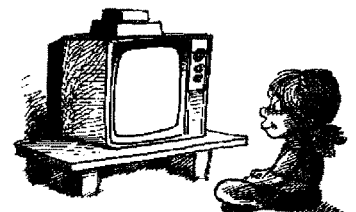
**DEALER'S BREAKFAST**

All Club Members and guests are invited to attend the Dealer's Breakfast Sun. morning, March 24 at The Old Country Buffet, 2241 "O" St. We will meet from 8-9 AM. The cost of the breakfast is \$6.47.

Coordinators for this event were Shirley and Bill Rockel.

\*\*\*\*\*

Gather 'round the tube, channel 10-11, Wed., March 20 at 12 ,NOON to see our own Roger Pabian promoting the LGMC SHOW!



**2002 Regional Show Schedule**

- ROCKY MOUNTAIN FED. APRIL 19-21, ENID, OK.
- EASTERN FEDERATION APRIL 27-28, FRANKLIN, NJ
- CANADIAN FED. (25<sup>TH</sup> ANNIV) MAY 4-5, CALGARY, ALBERTA
- CALIFORNIA FED. JULY 12-14, PLACERVILLE, CA
- COMBINED NW/AFMS FED. JULY 16-21, PORT TOWNSEND, WA
- SOUTHEAST FED. OCTOBER 5-6, JACKSONVILLE, FLORIDA
- MIDWEST FED. OCTOBER 4-6, SPRINGFIELD, IL

# Adventures by Grant

*Maybe I should call this the misadventures by the wife and me. Now I shall attempt to explain the previous statement.*

*I had planned to go to Las Vegas February 1st. It was to be my eleventh year to bowl there. I kept a close eye on the weather, but it won, in the end. Had to cancel all reservations as we had planned to drive. Did not want to fly as we had a bad experience last year.*

*Well, to make matters worse, if that was possible, upon leaving Las Vegas this year we had planned to stop at Quartzite...always a good place to look for gems and minerals. Got to know a couple of dealers there and always came away with some good bargains.*

*Then we were to go off to Yuma, Arizona to spend a few days with my brother and his wife. Of course we just had to go to the local swap meet. We got some nice Mexican opal there a couple years ago.*

*Then on to Tucson to visit with friends I made while in the service at Davis-Monthan AFB. There always seemed to be many gem and mineral shows going on when we stopped there...hundreds of dealers! You could read about all that was going on in the latest lapidary journal and rock and gem magazines.*

*After Tucson...we were to head home. Well, on the way, one more stop in Albuquerque, NM. While there, I intended to put in an order at Rio Grande. It is a very large warehouse to supply the best of everything for a jeweler. They have some good items that I felt I couldn't live without. Guess I shall just call in my orders instead.*

*So you see, the weather really bummed me out. I had been through the roads and places before so you see really missed out on some good times this year. But like I told Ruth (the wife), "there is always next year."*

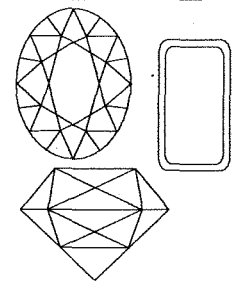
*See you down the road at a show.*

*Grant Bennett*

# Class

LAPIDARY (noncredit) Learn the art and techniques of cutting and polishing stones. Participants supply their own stones. Beginners will learn basic instruction during the first class with materials provided. You will receive information regarding sources for purchasing future stones. Starts 4/1/02, 8 sessions, M 7-9pm Auld/ Inst: Pabian.

course# LLLX112653 Tuition:\$45 (from SECC Spring Quarter Continuing Education Pamphlet.)



## Let's Go Somewhere!

# Field trips

Pat Akins is gathering information for a field trip to a sand pit on the Platte River sometime in June! This editor has never been to a sand pit and I have no clue what to do there but I'm enthusiastic about getting out and going *somewhere!* The more the merrier!

There was some discussion at the general meeting about getting a group together to go to Limestone Day in Weeping Water, June 29, 2002.. Ed Ridge brought some info to the Board Meeting which described Limestone Day as "a town festival celebrating our mining history, mine tours, parade, lawn games, car and craft show. For more info call City Clerk 402-267-5152."

(And with field trips in mind, see AFMS Code of Ethics, p.12)

A FIELD TRIP IS A SOCIAL OCCASION



via: HN GRADER 4/94

via Rear Trunk, Sept.

# FEDERATION NEWS

## The Pleasure of Sharing

from R. Jay Bowman, member Uniform Rules Committee

One of the pleasures of our hobby is sharing what we have and what we know. Displaying our collections and craftsmanship has been one of the ways we do this. Competitive exhibiting in Gem and Mineral Shows is a natural result of these displays. As we have attempted to improve our shows, we have seen competitive exhibiting grow into a major contribution.

The first shows had mineral and gem exhibits displayed according to the whim of the exhibitor. The judging of such exhibits soon proved the need for uniformity so rules were adopted by each of the Federations based on their own experiences. Since 1961, the Uniform Rules of the American Federation have been in effect. The rules are now on a nation-wide basis and, as they must cover all aspects of the hobby for the thousands of interested hobbyists, they are comprehensive.

The current revision of the Uniform Rules is the result of the continuing effort on the part of the Regional Federation Uniform Rules Committee and the AFMS Rules Committee to provide uniform conditions under which exhibitors from all regions may compete.

The AFMS and the Regional Committees welcome suggestions that may lead to other improvements and implementations of the use

(continued p. 8)

## Hey, There's a Rockhound in That Vehicle!

by Richard Pankey, Field Trip Chairman North, CFMS

Over the years I have seen the need for some kind of easily recognizable way for rockhounds to identify themselves to other rockhounds and to the general public, especially on field trips or on some back country road. It would also be very useful in campgrounds and other gatherings. In the summer of 2000 I discussed my idea with friends for some sort of sticker that a rockhound could put on his vehicle, much like the scuba diver's red and white sticker. It would say to the world, "there's a rockhound in this vehicle."

I designed a prototype sticker and presented the idea to the CFMS Public Relations Committee in June of 2001. The concept was enthusiastically accepted, and for the past several months we have developed and are refining the artwork on several alternative designs. The Public Relations Committee and the Executive Board of CFMS sees the need and supports the concept of a rockhound sticker/symbol, but would like to know what the other Federations and societies think about the idea.

A Rockhound Sticker would be an easy way to identify yourself to others as a rockhound. It provides an easy way to recognize other rockhounds. The sticker not only promotes and publicizes rockhounding, it is a service to rockhounds to facilitate meeting one another. The sticker is a universal identifier for club members

(continued, p. 9)

(Pleasure of Sharing, continued from p. 7)

of these rules. You or your club may submit suggestions and proposals to the EFMLS Uniform rules chairman, Esther Dunn (1102 Camilla Dr., Ozark, AL 36360-2502.) Your suggestion will then be reviewed and discussed by the EFMLS Rules Committee and be presented for consideration by the AFMS Rules Committee.

Regional Federation Uniform Rules representatives now meet together with the AFMS Uniform Rules Committee prior to the annual American Federation Convention and Show to review and revise the Uniform Rules in an attempt to make them fair, clear and understandable to all. Each Federation has one vote in the decision making body.

from The AFMS Newsletter, February, 2002

**The Jewelry Corner**

Match the gemstone with its correct definition:

- |                 |                  |
|-----------------|------------------|
| 1. Briolette    | 6. Palm or Palma |
| 2. Tsavorite    | 7. Beryl         |
| 3. Opaque       | 8. Corundum      |
| 4. Translucence | 9. Amber         |
| 5. Cabochon     | 10. Garnet       |

- 1 A. The mineral that crystallizes into emerald and other gems.
- 9 B. A gem often used in jewelry that has a vegetable origin as opposed to a mineral origin.
- C. A group of silicates that occurs in igneous and metamorphic rocks and is among the most common gems.
- 8 D. The mineral that comprises sapphires, rubies and some other gems.
- 1 E. An elongated modification of the double rose cut, pear or tear drop shaped with small triangular facets on all sides.
- 2 F. A grossular green garnet.
- 3 G. A stone that has been polished for use in jewelry but has not been faceted
- 4 H. The property that causes certain materials to reflect light.
- 6 I. An oil used to fissure fill emeralds to enhance their clarity.

ANSWERS ON PAGE 12

(FROM THE TRILOBITE, JANUARY 2002)

**WIT & CHARM**

**Build for yourself a strong box,  
Fashion each part with care;  
When it's strong as your hand can make it,  
Put all your troubles there;  
Hide there all thought of your failures,  
And each bitter cup that you quaff;  
Lock all your heartaches within it,  
Then sit on the lid and laugh.**

**Tell no one else it's contents,  
Never it's secrets share;  
When you've dropped in your care and  
worry,  
Keep them forever there;  
Hide them from sight so completely,  
That the world will never dream half;  
Fasten the strong box securely-  
Then sit on the lid and laugh.**

**-Bertha Adams Backus-**



(Hey, There's a Rockhound... continued from p. 7)

as well as unaffiliated rockhounds. It lets everyone know you are interested in collecting rocks, minerals, or fossils and you are willing to discuss collecting, to share rockhounding experiences and to help other rockhounds. It's an invitation to others to ask questions and seek your help. It tells others that you are a rockhound friend.

While working on this project I discovered that a "Universal Rockhound Emblem" had been promoted in the past. In the early 1970's a Universal Rockhound emblem pin and sticker was developed and distributed widely in Australia. It was also offered in the United States but for some reason did not gain acceptance. I have seen a few pins but have never seen a sticker on a vehicle.

The rationale and need for such a symbol to help identify rockhounds to others still exists. I am ready and anxious to make it a reality. I would like to hear what other federations and societies think about this idea. Please contact me at <dickpankey@juno.com or at 4310 Kingsly Dr., Pittsburgh, CA. 94565. It is our plan and hope to finalize artwork this spring and present the concept at the AFMS meeting in July.

from AFMS Newsletter, March, 2002

Fiber Optic Gems: What Are They?

(Bill Grimes in The Rockhound via Lapadarian via Rear Trunk, Feb. 2002)

Fiber optics was developed as a result of someone studying a piece of the mineral Ulexite. Also known as TV rock, it is a hard, brittle fibrous stone which, when writing is placed underneath, will allow the image to appear on the surface of the stone.

This led to the theory that if this type of fibrous material could be manufactured, it could be used in many different ways where image transmission was needed. Fiber optic cables were at first very slender and flexible and used in surgeries and household decorations.

The manufacturing technology improved and soon manufacturers were spinning out miles of cable for a new application - data transmission lines. These lines can be up to two inches across. The cable consists of thousands of pairs of optic fibers. Each pair carries data for phone, computer, fax, etc. Since the sides of the cable are reflective, there is no need for insulation or shielding around each fiber, as in old phone lines. This translates to more pairs in a smaller space. For us in the hobby, this creates one of the newest gem treasures.

Fiber Optic Cabs

In order to make a fiber optic cabochon, the cable scraps are first cut into small lengths. The cable is then either cut into spheres, or it is sectioned parallel to the length of the fiber. Once the slices are made, it's cut much like any other gem. However, care must be taken to protect the ends of the cable from splintering, catching cutting dirt, abrasives, etc.

There is an interesting thing about fiber optic gems. If you look at them from a 90 degree angle from the eye of the gem, the gem will be transparent to light, maintaining its properties for light transmission.

## A SYNOPSIS OF TEKTITES

By Chuck DeFlorin, Minnesota Mineral Club Member

Tektites, in the simplest terms are pieces of natural glass. Most scientists today think that they are the melt products of terrestrial rocks formed by hyper velocity impacts of large extraterrestrial objects. Some tektites resemble obsidian (the commonest natural glass on earth) in appearance and chemical compositions. However, there are several distinguishable differences. Microscopically, tektites resemble glass more than obsidian in that they are almost entirely devoid of any mineral crystals in their composition. Unlike obsidian, tektites have a very low water content ( about 1000 times less,) a low alkali content and they always contain Techatelierite (pure silica glass.) They also contain Coesite (a dense polymorph,) a nickel-iron spherules and Baddeleyite (Zircon oxide mineral produced at very high temperatures during shock metamorphism,) which lend evidence to a meteorite impact origin. Obsidian, when heated will foam from the gases and water it contains, whereas tektites at the same temperature will produce only a few bubbles. Tektites are made of a glass that melts at a far higher temperature and it is far more viscous.

Scientists are still divided as to the origin of tektites. Some believe that volcanic activity on the moon is involved in some part of their formation. However, the return of lunar material from the Apollo missions in the late '60's provide evidence that tektites are compositionally unrelated to lunar material. Most believe that tektites form through some mechanism during the impact of a meteorite or comet.

When the meteorite or comet nuclei hits the earth, it is believed that the material, soil and rocks are liquified, or vaporized and then ejected from the area forming a splash field (strewnfield.) A Professor Bouska explains it as "An enormous body with a volume of several cubic kilometers is racing towards the earth. The uppermost layers of the earth's surface are melted away by the highly compressed hot air cushion in front of the flying meteorite prior to its impact with the surface of the earth. At the moment of impact, there is a tremendous explosion comparable with a multiple hydrogen bomb, the atmosphere is torn apart, and the tektites are formed in the vacuum bubble. The fusion process and the throwing out of the tektite glass material occurs in a very short time period prior to the actual impact of the meteorite."

Some scientists are saying that the tektites were in a liquid form and shaped in the atmosphere in flight. They say the bubble of atmosphere created by the impact provided a wind resistant, free path for the liquid material to travel through. Without this bubble, any material would be slowed down very quickly, thus precluding the possibility of reaching high altitude and long distances from the impact crater.

Tektites are found in only four major strewnfields. Strewnfields are the areas over which chemically and physically related tektites are found. The four major strewnfields are the Australasian, Ivory Coast, Czechoslovakian, and the North-American Strewnfields. The assignment of a strewnfield is based on the unique meteorites hitting unique rock types with the combinations producing particular effects.

The Australasian Strewnfield covers approximately one-tenth of the earth's surface. This tektite's area encompasses most of SE Asia, including Viet nam, Thailand, Southern China, Laos and Cambodia. It also stretches across the ocean to include the Philippine Islands, Indonesia, Malaya and Java. It reaches far out into the Indian Ocean and includes the western side of Australia. The source impact crater should exist within the strewnfield, but none has been found yet. They have a pretty good theory, but are still investigating it. They think the impact crater site is the "Tonle Sap," a relatively long lake called Grand Lake in Cambodia. The theory is that the impact site was caused by an object a few kilometers in diameter moving from the northwest to the southeast at a low angle.

The Ivory Coast Strewnfield is the smallest and least explored of the four fields. The strewnfield is located on the western coast of African and extends out into the Atlantic Ocean. These tektites are extremely rare because of the difficulty in recovering them from the dense forested areas. The Ivory Coast tektites are linked geographically, chronologically and geochemically to the Bosumtwi Crater in Ghana. They have concluded that this crater is 1.3 million years old, quite new compared to the other three impact sites.

The Czechoslovakian or more commonly called Moldavite Strewnfield was made by two different impact crater that hit at the same time in Germany which have been dated back 14.7 million years ago. The two craters are called the Nordlinger Ries and the Steinheim, each producing a different kind of tektite. The Nordlinger Ries tektite is a bottle green color and is called Moidavite, while the Steinheim tektites are brownish in color. This strewnfield is quite small by comparison to the other three sites.

The North American Strewnfield is located in the southeastern United States and extends to Texas on the main continent. It also includes areas of the Caribbean Sea, Barbados and the upper continental slope of the western Atlantic Ocean. There are two kinds of tektites here, one in Texas, Bediasites, which are opaque and black in color. The other kind being the Georgiatites, which are translucent and very light green in color. Both kinds originated from a single but heterogeneous source based on chemical, isotopic and age data. The impact crater for the North American tektites is located in the lower Chesapeake Bay of Virginia. It is 85 to 90 kilometers in diameter and considered to be 35 million years old.

Tektites have a wide range of forms but are mostly tar black in color. There are a few exceptions like the Moldavites and Georgiatites, which are green in color caused by iron in combination with aluminum. The rich green color of the Moldavite makes it the only tektite with gemstone clarity, and is cut into faceted stones. There are some tektites which are brownish, like the Bediasites of Texas, but most are black and not the brown color.

The shapes of the tektites can be teardrop, dumbbell, spheres, rods, discs and all types of irregular forms. In Australia, they can be found in an aerodynamic button shaped (flying saucer shaped). The different shapes are formed from rotation of the viscous melt in the atmosphere. When the tektite (in its liquid state) flew through the air spinning at a slow rotation, it formed ovals and rods. If the rotation was fast, it formed dumbbell shapes and at the fastest rotations, teardrops were formed. If there was no rotation, spheres were formed. Some tektites often times contain bubbles and these bubbles contain a near vacuum. All of the common tektites shapes have been successfully reproduced in high-speed tunnels called Aerodynamic Tunnels by the injection of a viscous melt.

#### REFERENCES:

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8. "Origin of Tektites," <http://www.meteorite.com/tektites/oritin.htm>

**AFMS CODE OF ETHICS**

**I will respect both private and public property and will do no collecting on privately owned land without the owner's permission.**

**I will keep informed on all laws, regulations and rules governing collecting on public lands and will observe them.**

**I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.**

**I will use no firearms or blasting material in collecting areas.**

**I will cause no willful damage to property of any kind- fences, signs, buildings.**

**I will leave all gates as found.**

**I will build fires in designated or safe places only and will be certain they are completely extinguished before leaving the area.**

**I will discard no burning material- matches, cigarettes, etc.**

**I will fill all excavation holes which may be dangerous to livestock.**

**I will not contaminate wells, creeks or other water supply.**

**I will cause no willful damage to collecting material and will take home only what I can reasonably use.**

**I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.**

**I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.**

**I will cooperate with field trip leaders and those in designated authority in all collecting areas.**

**I will report to my club or Federation officers, Bureau of Land Management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.**

**I will appreciate and protect our heritage of natural resources.**

**I will observe the "Golden Rule," will use "Good Outdoor Manners" and will at all times conduct myself in a manner which will add to the stature and public "image" of rockhounds everywhere.**



**Happy St. Patrick's Day!**

**Well, with a name like Judy Shannon Reilly, you didn't think I'd pass up an opportunity to share some Irish, did you? Here is something cool I found on the web: (I know it's late but it's fun to be Irish anytime!)**

**SHAMROCK PRINT PICTURES**

**(Great for decorating cards or gift wrap!)**

**Materials Needed:**

- Bell Pepper**
- Paper**
- Paint**

**Instructions:**

**Cut a bell pepper in half through the middle. Not end to end going through**

**the stem, but through the center. This will make a shamrock shape out of the cut section of the bell pepper. Clean out the seeds. Dip the cross sections of the pepper into some paint and press the shamrock print onto paper.**

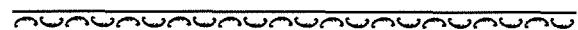
**(From Family Crafts**

**<http://craftsforkids.about.com/library> -EDITOR-**



**FOR SALE**

Highland park 24" saw w/automatic feed/auto shutoff. Enclosed cabinet, comes with 2 blades (\$840.00 new) The 18" blade is new, 20" has approx. 150 hours of cutting left. Asking \$1200 for all, shipping would be around \$100. Leonard Ochs, (707) 964-7309 lochs123@yahoo.com Solid Rock Jade Co.- Jade and other cutting stock available.



LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS - Feb. 6, 2002 7 P.M. @ Kinkos, 48th & Vine, Conference Rm.

President McMahan called the Meeting to order.  
Minutes of Jan. Meeting approved after a minor transposition error corrected.  
Motion by Jim Marburger, 2nd by Grant Bennett. Carried.

Treasurer's report approved with motion by Jim Marburger, 2nd by Vera Lyman.  
Carried.

BILLS: Both Club and Show bills were presented for approval and payment with motion by Dave Heffelbower, 2nd by Jim Marburger. Motion carried.

During our annual Swap, Junior members have their "Supper" paid with funds from the Club Junior Account. Leader Kay Jurgens was not present to handle the matter this year. The Board approves payment of \$19.98 for payment of their meals.

Payment of premium for Officers Performance Bond is due.  
(The Hartford - #91-10345276 - \$ 126.00 yr.) Motion to pay by Vera Lyman, 2nd by Jim Marburger. Carried.

Proposed "2002" Budget was presented by President. Discussion. Motion by Phyllis Parks to present proposed budget to General Membership for approval. 2nd by Dave Heffelbower. Carried.

OLD BUSINESS: Pfizer/LPS will be having their Science Fair on Tues. March 19 at Ag Hall. Club members asked to participate.

NEW BUSINESS: Appointments to Standing Committees filled as listed in cover page of Pick & Shovel

Request for short term ad in Pick & Shovel for 2 gem Saws and miscellaneous. (Leonard Ochs). Motion by Phyllis Parks and 2nd by Grant Bennett to permit. Carried.

Motion by Phyllis Parks to hold off on delinquency fees for member dues until Feb. 28, since she was unable to be at Jan. Meeting. 2nd by Jim Marburger. Carried.

MEMBERSHIP: Charles & Stella Thiessen; Dan & Amy Dexter-Guy have applied for membership; have attended a meeting and paid required dues. Motion for approval by Jim Marburger, 2nd by Dave Heffelbower. Carried.

SHOW: Committee Meeting will be at home of Chair, Roger Pabian on Feb, 18, 2002 at 7:00 P.M.

Next Board Meeting is March 6, 7:00 P.M. at Kinkos.  
March 6 is also deadline for material for March Pick & Shovel.

Respectfully submitted,  
Vera Lyman, Secretary

LINCOLN GEM & MINERAL CLUB, INC. - GENERAL MEETING - (Thursday) Feb. 28, 2002 7:00 P.M.  
at NCCE Beatrice Room.

The Meeting opened with the Pledge of Allegiance led by Grant Bennett.

Meeting was attended by 22 members and 3 guests; Dave Dobesh and Bret & Debra Henning. "Welcome".

Minutes and Treasurer's report for January were approved as printed by a motion from Dave Heffelbower, 2nd by John Harrison. Carried.

Proposed budget was approved as printed by a motion from Pat Akins, 2nd by Dave Heffelbower. Carried.

**Show:** Update - Roger Pabian, Chairman

Most of Promo work is done. Feature on 10/11 on March 20 at noon.

We do need help with set-up on Friday. Help at Storage Unit to load at 8 A.M. (located 1/2 block north of Cornhusker on 19th St)

Also need help on Sunday evening with tear-down. Kay is in need of adult help in the Junior booth.

Parking will be available on Sat. and Sun. @ State Parking Garage for \$ 3.00 (all day).

State Association Meeting: 4 Delegates and 2 Alternates needed. Volunteers were Phyllis Parks, Pat Akins, Dave Heffelbower, Judy Reilly. Alternates are - Susan McMahan and Shirley Rockel.

Sunday Morning Show Breakfast: At Old Country Buffet, beginning at 7:45 A.M. Price is \$ 6.49.

NEW BUSINESS: Friends of Museum, budget cut affecting Fort Robinson. Members urged to write letters to Regents urging them to retain funding for the Museum.

FIELD TRIP: Pat Akins would like to set up possible date in June for trip to Sand pit on the Platte River; also a trip to Weeping Water.

Announcements: Welcome to new Editor, Judy Reilly, who will be assisted by Phyllis.

Geology Day on Feb 17th was a big success! There were 116 visitors plus Scout groups. There were 9 displays. THANKS!

No General Meeting in March because of SHOW.

April Meeting is Thursday, April 25, 7-9 P.M.(promptly) at Gere Library, 56th & Normal.

May Meeting will be at Antelope Park Shelter. Bring Desserts!!

DUES: Tonight is the deadline, to avoid delinquency fees and to be listed in the Who's Who!

Roger presented an excellent program giving us tips on "dopping stones". Thanks, Roger.

Respectfully submitted

Vera Lyman, Secretary

**LGMC Treasurer's Report for February 2002**

Pinnacle Checking Balance on January 31, 2001		\$ 3320.83
<b>Receipts for February:</b>		
Membership Dues	114.00	
Suspense for Gem Palette Subscriptions	5.00	
Donation for Spec. Lap. Class Equip. Fund	5.00	
2002 Show Receipts (Dealer & Demo. Space)	<u>435.00</u>	559.00
<b>Payments:</b>		
February Pick & Shovel	41.57	
Officer's Performance Bond	126.00	
Show & Club Liability Insurance	250.00	
Youth Expense	19.98	
Kinko's Feb. Board Meeting	10.00	
Jan. Swap & Meeting Rent	210.00	
Refreshments Jan. Swap & Meeting	217.59	
Spec. Lap. Class Equip. Fund Expense	27.74	
Suspense-Member Badges & Bars	48.56	
2002 Show Expenses	<u>390.71</u>	<u>1342..15</u>
Pinnacle Checking Balance on February 28, 2002		2537.68