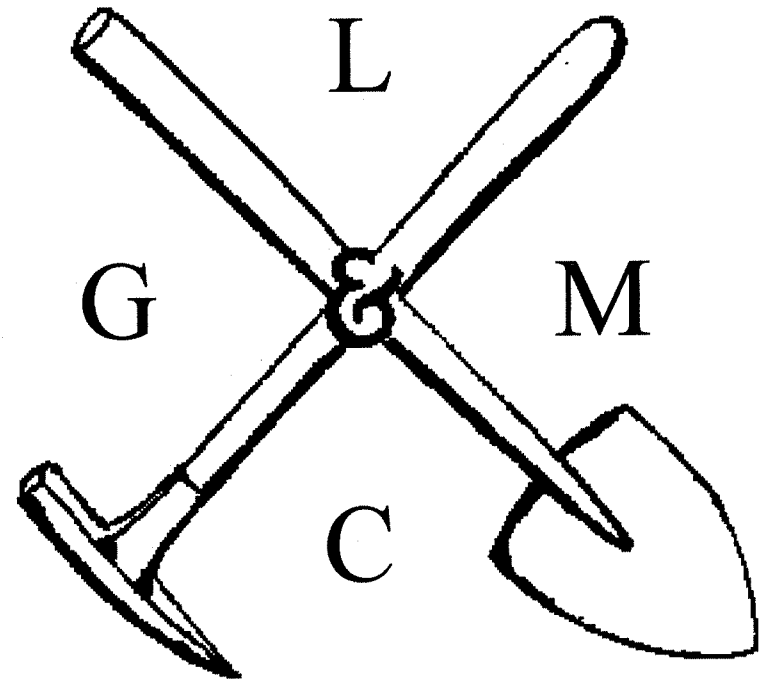


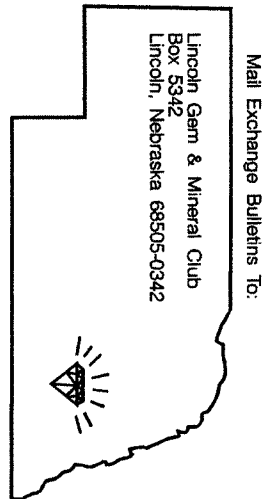
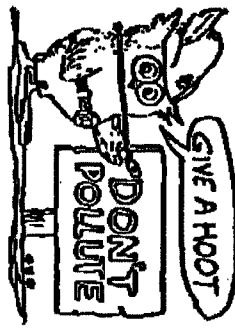
THE PICK & SHOVEL

March 2005



OFFICIAL PUBLICATION OF
LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA



H. E. L. P.

Help Eliminate Litter Please



Associated with



The Pick & Shovel

Volume 45, Issue 7, March 2005, Page 1

Club Events

- Mar. 24** General Mtg, Antelope Park, 7PM
Apr. 6 Board Meeting, Kinko's, 48th&Vine, 7 PM
9-10 LGMC Annual Show, Pershing Auditorium
28 General Mtg, Antelope Park, 7 PM, Youth Night
May 4 Board Meeting, Kinko's, 48th & Vine, 7PM
26 General Mtg, Antelope Park, 7 PM
July 17 Grinding Party, Pioneers Park 1-4PM

Recap February Meeting

PROGRAM- 'Minerals 'by Eric Fritszch. Although many people could not attend the meeting, those who were there enjoyed another fine presentation by Eric...thank you!

March Meeting

Program: Moctezuma Agates by Roger Pabian
Snacks: Judy Reilly (thanks, Vera for covering for me last month!)
Display Material: Agates (Moctezuma if you got 'em)



*Happy St.
Patrick's day*



President's Message

Since my last message, I have had trips to Boise, Chicago, Macomb, Kansas City, Cedar Rapids, work, birthdays, and work....whew! I will see you at the club meeting and I hope that you all have been planning your display for our show coming in just a few short weeks. Please be ready to volunteer for many miscellaneous duties at our show. Help from all will make a fun and exciting show for our visitors around Lincoln. New members will need guidance from the older members to help with the show. We all need to participate and help to promote our hobby and club.

We have another project coming up at our April club meeting. It is Youth night, designed to introduce youth groups and individuals to our club and hobby. Please contact Judy Reilly, Susy McMahan, and Vera Lyman for items needed for the youth program. Maybe prizes, specimens, support of any kind. We all will learn from this activity in many ways. (See page 3).

Next, a short word from the Denver Gem and Mineral Guild. They are ready for a great trip to the Crawford area in July, as they are joining us for the President's Field Trip. Please make plans to attend this event. Also, if you have any favorite locations in Crawford, please get with me so we can include them.

I would like to thank all of the members who attended and displayed at Geology Day and Pfizer Science day at Pershing. These are fun events and they put the club in the limelight. Next year Geology Day is Feb 12, 1-4 and Grinding Party in 2006 is Sunday, July 16 1-4. Rock on! Jim Marburger

Club Activities

Pfizer Science Fair, March 1, 2005

By Susy McMahan

On Tuesday, March 1, the Demo Diggers were at it again. This time we shared some of our expertise with hundreds of kids and parents at the LPS/Pfizer Science Fair. Ed Ridge had his fluorescent display, and many interesting rocks to look at, plus a bucket of rocks where kids could choose a sample. Roger Pabian had a great display of a large variety of trilobites. Susy McMahan and Aulden Stewart both demonstrated polishing stones on portable machines, and had slabs and finished stones to view. We all ran into old friends and met some new ones. And they even fed us (both demonstrators and judges) Valentino's pizza & salad and added to our ever-growing t-shirt collection!! A great time was had by all!



Junior, Mommy would like to talk to you about your rock collection.

*by Erston Barnhart
via Fly Grader 3/94*

Members

Please add reinstated member, Richard Caster to your Who's Who. Richard's address is 5740 Rokeby Rd., Lincoln, NE. 68516...phone 402 423 7472.

From the Editor

Many thanks to the following for their contributions to this month's Pick & Shovel: Susy McMahan, James and Sharon Marburger, and Dave Heffelbower.

Special thanks to Vera Lyman who saved the Feb. newsletter at a moment's notice. I am in your debt, Vera.

For Juniors

Making Rock Candy

Rock candy is a fabulous way to see what crystals are about. Rock candy is just crystallized sugar. **This project is intended for parents.** They should share it with their children because it involves cooking sugars at dangerous temperatures hot enough to burn or hurt children very, very badly. **Kids absolutely need their family's help and permission to do this project!**

WHAT YOU NEED: 2 cup water - 5 cups sugar - pie pan - string or bamboo skewer - grown-up - candy thermometer - foil - patience

WHAT TO DO: Stretch the string across a pie pan so that it is suspended across the top. You'll have to weight the ends so that it does not touch the bottom of the pan. Or You Can punch holes in the edge of the pan and tie the string. You Can also lay a skewer across and out the pan like in the drawing.

MORE STUFF: Dissolve the sugar in the water and cook until it reaches 250°. This temperature is also called hard ball, and most cookbooks will tell you how to do it without a candy thermometer. Don't stir after you've dissolved the sugar.

EVEN MORE STUFF: Pour the hot liquid into the pan. The string should be 3/4 inch under the surface of the sugar water. Cover the pan with foil and don't touch it for a whole week. In 7 days, lift out the string or stick and it will be covered with sugar crystals!

You Can also pour the liquid into a jar. Punch a bamboo skewer through a plastic coffee-can lid. Lay the lid over the jar so the skewer hangs down the middle of the liquid. Do not let the skewer touch the bottom of the jar. In 7 days, lift out the skewer and it will be covered with sugar crystals!

P.S. from Beakman: There was so much sugar dissolved, the water couldn't hold it all. Some sugar had to undissolve and grew into sugar crystals.



From Beakman & Jax by Jok Church:

<http://library.thinkquest.org/J002289/crystals.html>

LINCOLN GEM & MINERAL CLUB, INC. – BOARD OF DIRECTORS – February 2, 2005

Kinkos, 48th and Vine

President Jim Marburger called the meeting to order at 7:02 p.m. Board members Jim Marburger, Sharon Marburger, Vera Lyman, John Harrison, Charles Wooldridge, and Jim Atkins were present, along with guest Ed Ridge.

The minutes of the January meeting were handed out. Charles Wooldridge moved to accept the minutes, Jim Atkins 2nd. Motion carried. The treasurer's report was handed out and examined. John Harrison moved to accept the report, 2nd by Jim Atkins. Motion carried.

OLD BUSINESS: Geology Day will be February 13. Jim Atkins was given flyers for youth night to hand out at Geology Day. Jim will also have a sign up sheet available for scout troops and other youth groups.

NEW BUSINESS: On a motion by Charles Wooldridge and 2nd by Jim Atkins, Vera Lyman will contact local colleges to inquire if any geology or earth sciences students would be interested in a scholarship. The amount and number of scholarships will be determined at a later date, contingent upon number and qualifications of candidates.

Membership applications and dues were received by two prospective new members. Vera Lyman will contact them to acknowledge receipt and to inform them that membership is dependent upon their attendance of at least one meeting.

The President's Field Trip this year will again be on the July 4th weekend. Destination – Crawford, Nebraska.

The meeting adjourned at 7:48 p.m. on a motion by Sharon Marburger, 2nd by John Harrison.

Respectfully Submitted,

Sharon Marburger

GENERAL MEETING – February 24, 2005, Antelope Park Shelter

The meeting was called to order at 7:21 p.m. by Board Member Jim Atkins. The President, First Vice President, and Second Vice President were not present. Fifteen members and no guests were present.

OLD BUSINESS: Charles Wooldridge made a motion that the minutes of the January meeting be accepted as printed in the Pick & Shovel, 2nd by David Heffelbower. Motion carried.

A motion was made by Susy McMahan to accept the Treasurer's report, 2nd by Phil Rose. Motion carried.

The Club received a thank you from AFMS for the scholarship donation.

Geology Day was February 13. Roger Pabian reported that there was a large turnout of club members. There were not as many visitors as usual, but those who attended stayed a long time. Eighty-four people signed in.

In the absence of Show Chairman John Harrison, Roger Pabian reminded committee members that a show committee meeting is scheduled for March 16. Roger also needs to know how much space each club member requires for their show displays.

NEW BUSINESS: There was no new business.

The meeting adjourned on a motion by Susy McMahan and 2nd by David Heffelbower. The basic geology program on what minerals are made of was presented by Eric Fritsch. I found it very interesting. Thank you Eric!

Respectfully submitted,

Sharon Marburger

LGMS Treasurer's Report - February 2005		
Pinnacle Checking Balance on January 31, 2005		\$ 2,989.38
February Receipts:		
Membership Dues/Registrations	80.00	
Gem Palette subs. (2)	10.00	
Subscriptions to Pick & Shovel	20.00	
Donation to SLCEF	<u>30.00</u>	140.00
February Payments:		
Kinkos - Board Meeting 2/2	10.00	
Phyllis Parks-Feb/Mar P & S Covers	24.52	
NAOESCI - Membership Dues	71.00	
NAOESCI - (18) Gem Palette subs (suspense)	90.00	
Vera Lyman - (90) Who's Who	31.75	
The Hartford-Liability Ins. (Club)	250.00	
* (Show)	100.00	
Rixstines- 2005 Plaque	22.74	
Kinkos - Feb P & S added copy	9.61	
Judy Reilly-Feb P & S Copy	54.58	
Postmaster - Feb Postage	18.50	
* Marilyn Stewart - Name badges (Awards)	<u>32.47</u>	<u>715.17</u>
Pinnacle Checking Balance February 28, 2005		\$ 2,414.21
* Current Show Expenses		

TRUTHS ABOUT LIFE THAT CHILDREN HAVE LEARNED:

- 1.) No matter how hard you try, you can't baptize cats.
- 2.) When your mom is mad at your dad, don't let her brush your hair.
- 3.) Never ask your 3-year old brother to hold a tomato.
- 4.) You can't trust dogs to watch your food.
- 5.) Don't sneeze when someone is cutting your hair.
- 6.) Don't wear polka dot underwear under white shorts.
- 7.) You can't hide a piece of broccoli in a glass of milk.
- 8.) Never hold a Dust-Buster and a cat at the same time.
- 9.) If your sister/brother hits you, don't hit him/her back. They always catch the second person.
- 10.) The best to be when you're sad is Grandma's lap.

47th Annual Show "Let's Rock 'N Gem"

April 9-10, 2005

The 47th Annual Show is nearly upon us. Remember, the dates are April 9-10. This is a change from previous years due to Easter being the last weekend in March.

Set up for the show is Friday, April 8 at 9AM at Pershing. The trailer will be there so come help unload the display cases, etc.. As in the past, please remember to unload your vehicle, then move it out of the building as there is limited space inside Pershing.

There are lots of ways you can help with the show so please offer your services to John Harrison, Show Chairman or any Subcommittee Chairperson:

Floor-Francis Belohlavy

Dealers- Pat Akins, Jr.

Advertising- Phil and Patty Rose

Educational Programs- Roger Pittard

Show Programs (Handouts)- Judy Reilly

Displays- Roger Pabian

Club Information Booth- Ed Ridge

Ribbons & recognition- Aulden and Marilyn Stewart

Special Features- James and Sharon Marburger

Silent Auction- Betty White

Demonstrators- David Heffelbower

Security- Vera Lyman

Tickets- Jim Atkins



Youth Night

April 28, 2005, 7PM

The steering committee for Junior Program/Activities has planned a program for the April 28th meeting. We have been advertising at The Swap, Geology Day and the Pfizer Science Fair and will have fliers at the Show. We also encourage you to bring any children you know that might be interested...your children, grandchildren, nieces, nephews, friends, etc. This first meeting will give us a feel for the interest in the community and in our own rockhound families. It will be a sort of "getting to know each other meeting", at the same time educating the visitors and hopefully encouraging them to become involved in our club.

The plan is to have club members bring a show and tell item or items or even a display. The member will talk a little about what they brought and allow hands on participation with the children whenever possible. Specimen handouts would be fantastic. For example, John Harrison had a working tumbler at Geology Day and allowed each child to choose a tumbled stone to take home. Susy McMahan brought a bucketful of prairie agates and other stones found on a field trip to South Dakota. The kids loved hearing about the trips and they each took a stone home. Use your imagination. We have so much to share and the children and their parents are always so interested and appreciative.

In addition to teaching about the rocks, we will help the kids start, or add to a rock collection. We will provide items such as egg cartons and labels for the kids to organize the items they receive. I will talk about this more at the March meeting so everyone can be prepared. We don't know how many children will show up but I think "show and tell" is something that everyone will have an interest in, even if we end up showing and telling to each other! After this first meeting we will have a better idea of what the interest is for future programs, field trips, etc.

Judy Susy and Vera

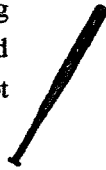
Tips & Hints

Untried Shop Tips

Saw Blade Storage: I keep saw blades in a plastic folder that originally held a set of files. They can be easily separated by size, and clearly labeled. It provides wonderful inventory control and is easy to keep handy, tucked into a corner of my bench.

More Saw Blade Storage: My favorite is to take those cheap (used to be 10 cents) Bic ball point pens, pry off the cap, remove the ball point mechanism and ink tube, place your saw blades inside the plastic pen, replace the cap and you're set. I wrap a plain strip of adhesive tape around the pen and mark the blade size on it in indelible marker. This is an easy way to store blades, keeps them safe and doesn't take up much space. I store my pen (saw blade holding) cases in an old pencil holder.

Recycling: Try using an old baseball bat as a mandrel for bracelets, or using knitting needles for making jump rings. And plastic berry baskets in the pickle pot work great.



To Polish Silver: It's amazingly simple! I usually use a Pyrex (glass) dish and line it with aluminum foil, because then I can either toss out or recycle the foil. An aluminum pan would work as well...or even better. I wouldn't use it for cooking later, though. Fill the container with hot water and toss in about 1/4 cup of baking soda. Stir to dissolve and place your silver pieces in the bath, in contact with the aluminum. Leave it for awhile, then pull the pieces out and rinse. Ta-da! Seems overly simple, but it's reasonably effective and totally harmless to people and the environment.

(from club members around the country, in The Rockfinder 10/02-via The Pegmatite, 2/05)

Polish on Turquoise: If you are running into trouble getting a good polish on turquoise, use a piece of organdy on the wheel. It seems to be more effective than felt.

(from Oregon Coast Agate Club 11-12/02, via Snoopy Gems 10/04 via The Backbender's Gazette, 3/05.)

Hints for Rock Collectors

1. Label specimens as they are collected. Identification can wait until later, but the place where the rocks were found should be recorded at once.

2. Trim rocks in the collection to a common size. Specimens about 3 by 4 by 2 inches are large enough to show rock features well. Other display sizes are 2 by 3 by 1 inch or 3 by 3 by 2 inches.

3. Ask permission to collect rocks on private property. The owners will appreciate this courtesy on your part.

4. Be careful when collecting rocks. Work with another person, if possible, and carry a first aid kit. Wear protective clothing- safety glasses, hard-toed shoes, hard hat and gloves- when dislodging specimens. Avoid overhanging rock and the edges of steep, natural or quarried walls.

5. Do not collect rocks in national parks and monuments or in state parks; it is illegal. Similar rocks commonly crop out on land nearby.

6. Look for unusual rocks to study in large buildings or in cemeteries. Dimension stone blocks and monument stone are often transported long distances from where they are quarried. Polished stone sometimes looks different from unpolished rock. This provides good identification practice.

7. Join a mineral club or subscribe to a mineral magazine. They occasionally discuss rocks. (*Occasionally?* P&S Ed.)

8. Collecting rocks from each state or country has no scientific significance. The distribution of rocks is a natural phenomenon and is not related to political division.

BE CAREFUL OUT THERE!

FIELD TRIP SEASON BEGINS SOON!

(from U.S. GEOLOGICAL SURVEY INFORMATION SERVICES, VIA SHOW-ME ROCKHOUNDS, FEB., 2005)



Federation News

AFMS Newsletter, March, 2005

Safety by Bill Klose
AFMS Safety Chair

Hearing Safety

Hearing loss affects about 28 million people in the United States. About 10 million of these people received this damage as a result of exposure to loud noises. More than 20 million Americans are exposed to hazardous levels of noise on a regular basis that could result in Noise Induced Hearing Loss or NIHL. Occupational noise exposure is the most common cause of NIHL, but non-occupational exposure, such as live or recorded high volume music, airplanes, automobiles and recreational vehicles, household tools and some appliances, are also major contributors to NIHL.

Very loud noises of short duration, such as explosions, gunfire or loud banging, can produce immediate, severe and permanent loss of hearing. Longer exposure to intense levels of sound, over time exacts a gradual toll on hearing, initially without the person's awareness. The louder the level of noise, and the longer the duration of exposure, the greater the potential for permanent damage.

The best method for protecting ourselves from NIHL is to eliminate or reduce the intensity of the noise source and the time of exposure. The next best prevention method is to wear hearing protection in the form of ear plugs (disposable or fitted) or ear muffs, when faced with potential exposure to noise. Rockhounds are most commonly exposed to noise while in vehicles or on the way to and from collecting sites. Some collecting sites contain industrial equipment that can generate considerable amounts of noise. When at these sites, it is best to wear the same level of protection that the workers at the site are wearing, as the employer has determined the level of protection required for his employees.

Rockhounds also use hammers and even large portable gasoline engine powered diamond saws at collecting sites to recover specimens and should protect their hearing with ear plugs or ear muffs.

Back in the shop, hammers and rotating equipment such as diamond saws, grinding wheels, rock hammers, rock trimmers, etc., contribute to the noise level, along with everyday activities around the house, such as music, TV, household appliances and power equipment, such as lawn mowers. Consider wearing ear plugs or ear muffs when appropriate to prevent NIHL.

Rockhounds, The Movie

"RockHounds: The Movie"

Coming to a Gem & Mineral Show Near You

Dallas, TX - Explorer Multimedia Inc. has just finished the new documentary film, "RockHounds: The Movie." While following the exploits of "rock hounds," the documentary showcases the fun, adventure and even the wackiness of the hobby of gem & mineral collecting. The independent film will now begin to tour on the film festival circuit throughout the country.

In addition, the producers are also hoping to distribute the film to Gem & Mineral Shows that are interested in screening it. "While the film serves as a great introduction to the hobby of gem and mineral collecting, we believe it will also be appreciated by life-long rock hounds," said director Todd Kent, "For a lot of people gem and mineral collecting is a passion. This definitely comes through in the film."

"A wide range of diggers appear in the movie," said producer and geologist, Devin Dennie, who also appears in the film, "from young children to college students to adults, rock hounds are a diverse group."

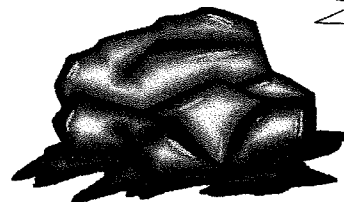
Shot in three states, the film covers digs of fossils, crystals and more with an emphasis on the people who share this great adventure. Any gem and mineral societies that are interested in screening the documentary can contact the producers through the film's website ; <http://www.rockhoundsmovie.com> .

"We hope to distribute to as many gem & mineral shows as we can across the country," said Kent, "We also plan to approach museums and other organizations about exhibiting it."

Explorer Multimedia Inc. is a non-profit 501 (c)(3) corporation responsible for the TV series "North Texas Explorer" and the upcoming "GeoAmerica." For more information consult their websites: www.explorermultimedia.org and www.rockhoundsmovie.com .

(from "RockHounds: The Movie")

<rockhoundsmovie@hotmail.com>



Starring, me...

The Rock!

Upcoming Shows

Mar. 19-20, Carterville, IL - Southern Illinois Earth Science Club. School St. 19th, 10-6; 20th, 10-5. Mike Chontofalsky, 618-532-0455, mchontofalsky1019@charter.net.

Mar. 19-20, Cedar Rapids, IA- Cedar Valley Rocks & Minerals Society. Contact Leslie Blin, 319-377-3339

Mar. 22, Omaha, NE- Rings & Things. Clarion Hotel Heritage Room, 4888 S. 118th St. 402-895-1000, www.rings-things.com

Mar. 25-27, Collinsville, IL - The International Gem & Jewelry Show. The Gateway Center. 301-294-0034, www.intergem.net.

Mar. 26-27, Odessa, TX- West Texas Gem & Mineral Society Annual Show. Contact- Robert Thompson, 432-337-3662, rriverdog@aol.com

Mar. 31-Apr. 4, Chicago/Rosemont, IL - Transworld Exhibit Inc. Jewelry, Fashion & Accessories Show. Stephens Convention Center. 800-323-5462, fax 847-446-3523.

Apr. 2-3, Canton, IL - Fulton County Rockhounds. 45th Annual Show. Wallace Park. 2nd, 10-6; 3rd, 10-5. Steven Holley, 309-231-8861, ifossil@hotmail.com.

Apr. 2-3, Monroe, WI - Badger Lapidary & Geological Society, Inc. 35th Annual Mineral, Gem, & Fossil Show. Monroe High School, 1600 26th St. 9-5 daily. Dave Zimmerman, 608-921-0206, dzimmerman@wisconsininsulatedforms.com.

Apr. 1-3, Fort Collins, CO - Fort Collins Rockhounds. 44th Annual Gem & Mineral Show. Lincoln Center, 419 W. Magnolia St. 1st, 4-8; 2nd, 10-6; 3rd, 10-5. 970-493-6168, fcrockhounds@yahoo.com.

Apr. 3-4, Minneapolis, MN - Gem & Lapidary Wholesalers, Inc. Business to Business Gem Trade Show. Ramada Inn Thunderbird Hotel & Convention Center, 2201 E. 78th St. 3rd, 11-6; 4th, 10-3. 601-879-8832, fax 601-879-3282, info@glwshows.com, www.glwshows.com.

Apr. 9-10, Lincoln, NE- Lincoln Gem & Mineral Club, 47th Annual Show, "Let's Rock 'N Gem", Pershing Auditorium, 226 Centennial Mall South. 9th, 10-5; 10th, 10-5. John Harrison 402 792 2337 or Phil Rose-prose@neb.rr.com. (see p. 10)

Apr. 16-17, Norfolk, NE- Northeast Nebraska Gem & Mineral Society Show, Sunset Plaza of Norfolk (see below)

Apr. 30-May 1, Kansas City, MO - The Bead Society of Kansas City. Bead Blast 2005. Overland Park Convention Center, College Blvd & Lamar Ave. 10-6 daily. aleavitt@kc.rr.com, www.kcbeadsociety.org.

Regional Federation Shows

Eastern - March 19-20, Athens, PA.

California- June 10-12, 2005, Roseville, CA.

Rocky Mountain- June, 2005, Colorado Springs, CO.

Northwest- August 5-7, 2005, Albany, Oregon

Midwest/ AFMS- August 16-21, 2005, St. Louis, MO.

NORTHEAST NEBR. ROCK AND MINERAL SOCIETY FUN AT THE MALL

SATURDAY APRIL 16, 2005: 10AM TO 7PM
SUNDAY APRIL 17 2005: 12 NOON TO 6PM

(DEMONSTRATIONS)

ROCK POLISHING
MAKING SPHERES FROM
ROCK AND GLASS
SILVER SMITHING
MAKING ARROW HEADS
FUN AND GAMES FOR ALL
SUNSET PLAZA-NORFOLK,NE
FREE ADMISSION

(Via The Glacial Drifter, 1/05)

"Krakatoa"

by Rob Kaleel

"Civilization exists by geologic consent, subject to change without notice." - Will Durant

The book sitting on the discount table at Barnes and Noble looked irresistible. *Krakatoa - The Day the Earth Exploded - August 27, 1883*, by Simon Winchester, powerfully describes the biggest volcanic eruption in human history.

Krakatoa was located between Java and Sumatra in Indonesia, the former Dutch East Indies. I speak of the island in past tense because it is no longer there. The island, and its 2,600 foot volcano, was virtually destroyed by the eruption of 1883. The volcano had been dormant for 1,200 years. Dutch colonists, who had ruled the area for the prior 200 years, thought it was extinct.

Indonesia has been described as the volcanic cockpit of the world, with more than 75 active volcanoes. It owes this distinction - its very existence - to its location above a tectonic subduction zone. For 60 million years, two crustal plates have been converging toward a violent, and still ongoing, collision. At its northern edge, the dense, basaltic Indo-Australian plate is colliding with, and diving below, the lighter, granitic Eurasian plate. As the down-racing plate moves toward the hot mantle, it melts to liquid magma and the lighter components float back toward the surface. When the rising magma encounters a crack, or fault, in the overlying crust, it rushes to the surface as a volcano. More than 90% of the world's volcanoes are located above abduction zones at the edges of the world's 26 crustal plates.

Islanders noticed the first signs of the imminent disaster in May, just 3 months before the climactic August eruption. Weak tremors, followed by stronger, more sustained earthquakes, were felt throughout Java and Sumatra. Within days, Krakatoa erupted for the first time, blanketing the area with ash and pumice. When the volcano quieted down two days later, the Dutch colonists were convinced that the event was over. They returned to their business of exporting pepper and other spices from the islands. They even organized excursions to the noisy island for nervous tourists. Krakatoa, however, was only clearing its throat.

After an 8 week calm a second, then a third crater opened up on the volcano, emitting steam, ash, and toxic gases throughout the month of August. The final phase of the eruption began with a tremendous explosion at 1:06 P.M. on Sunday, August 26, 1883. The following 20 hours and 56 minutes were a living

nightmare. Clouds of white smoke and ash billowed from the mountain, reaching a stratosphere height of 17 miles. Ash covered the surrounding villages to depths of several feet. The sky rained car-sized chunks of red hot pumice. Continuous sheets of lightning charged through the dust clouds and St. Elmo's fire electrified the masts and rails of passing ships, illuminating them with a terrifying glow. The sea around Krakatoa was punctured with waterspouts, and a continuous series of tsunamis, or tidal waves, radiated from the island in all directions.

Dawn never arrived in Java on Monday, August 27, 1883. Temperatures that morning were 15 degrees cooler than the previous morning due to the darkness. Four gigantic explosions rattled the area, beginning at 5:30 A.M. and culminating at 10:02 A.M. The last explosion was the greatest sound ever experienced by man. It could be heard for 3,000 miles. It shattered the ear drums of the unfortunate locals. It created air pressure waves that circled the globe seven times, vibrating barometers in places as far away as Washington D.C. for 15 days. When it was over, the island of Krakatoa, including its 2,600 foot peak, ceased to exist, collapsing back into the sea to a depth of more than 1,000 feet. Villages in Java and Sumatra - 165 of them - had been swept away by the waves, killing more than 35,000 people. Rafts of pumice interlaced with human remains washed ashore for months, in places as far away as Africa. Ash clouds reaching the stratosphere spread in a westerly direction, causing brilliant sunsets and other optical phenomena worldwide. On November 28th, the sky was so red at sunset that the fire department of Poughkeepsie, New York was dispatched to extinguish an apparent blaze in the western suburbs. The ash and dust remained in the stratosphere for at least 3 years, cooling the climate globally. Studies of the movement of the dust led to the discovery of the jet stream.

Krakatoa's eruption continues to this day. The tectonic fires below Indonesia still rage. Anak Krakatoa - "son of Krakatoa" - was born on January 26, 1928, rising from the sea in a steaming upwelling of red-hot lava. Today the central peak with two volcanic craters is 1,500 feet tall, growing at a rate of 20 feet per year. The geologic reality of the region ensures that what happened in 1883 will happen again... in exactly the same way.

The Chiseler Sept. 2004

THE LITHNICS JAN. 2005 VOLUME 44 ISSUE 157

Geology Report Article Submitted by John Washburn

Let's Rock'n Gem

Lincoln Gem and Mineral Club's 2005 Show



**Gems, Minerals, Fossils, Meteorites,
Beads, Jewelry, Hobby Supplies and
Equipment, Findings, Exhibits,
Demonstrations, Lectures, Hands-On
Activities for Family Fun !**

April 9 and 10, 2005

Saturday 9:00 - 6:00 Sunday 10:00 - 3:00

Pershing Auditorium


226 Centennial Mall South

Lincoln Nebraska


Adults: \$5, Children Under 12: Free with Adult

Clip and Save!

Give one to a friend!

\$1 OFF  **BRING THIS COUPON
OR NEWSPAPER AD.**

ALL ADULT ADMISSIONS TO THE SHOW.

\$1 OFF  **BRING THIS COUPON
OR NEWSPAPER AD.**

ALL ADULT ADMISSIONS TO THE SHOW.

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	Amy Dexter-Guy
	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

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STARTING OUR 30th YEAR

330 LOCUST
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PHONE
402-792-2337

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

LINCOLN GEM & MINERAL CLUB hosts our

47th Annual Show
at

PERSHING CENTER
226 Centennial Mall South

*** April 9 - 10, 2005 ***

Note: Dates changed due to Easter.

Show Chairman - John Harrison

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.