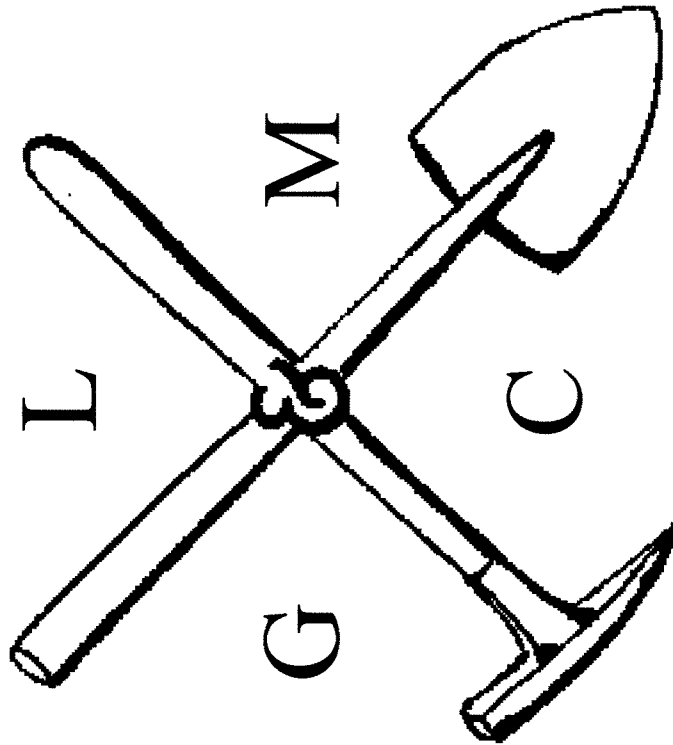


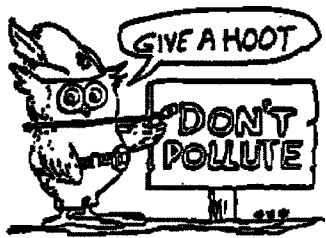
THE PICK & SHOVEL

September 2003



OFFICIAL PUBLICATION OF
LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA



Mail Exchange Bulletins To:

Lincoln Gem & Mineral Club
Box 5342
Lincoln, Nebraska 68505-0342



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CLUB EVENTS

- Sept. 25** Antelope Park Shelter,
7-9PM (Adults and Juniors)
- Oct. 1** Board Meeting, Kinko's,
48th & Vine, 7-8 PM
- 23 General Meeting...Halloween
Party, Antelope Park Shelter, 7-9PM
- Nov. 5** Board Mtg Kinko's 7-8 PM
- 20 General Meeting & Election
of Officers, Antelope Park Shelter-7PM
- Dec. 7** Christmas Party/ Meeting,
Antelope Park Shelter, 5-9 PM

Recap of May Meeting

Rockhound of the Year presentations were made to two very active club members, **Phyllis Parks** and **Vera Lyman**, for their hard work this past year. Congratulations ladies!

The recipient of the 2003 LGMC Scholarship, **Kim Jacobs** presented an overview of her future studies in Cherry, NE. Accompanying Kim was **Dr. Smith** of the Geosciences Division at UNL and his wife. Kim received a \$500 check from Acting Pres. **Jim Marburger**. She expressed gratitude to our club for supporting her efforts at UNL.

After the meeting we all enjoyed a delicious meal and great company.

September 25 Meeting

Program: To be announced

Display Material: Summer finds

Snacks: Donated by Phyllis Parks

Door Prizes: Donated by Judy and Susy



PRESIDENT'S MESSAGE

Greetings Fellow Rockhounds,

Finally, after some soothing rain, we are having some great outdoor weather. Hope you all had a great summer!

How are your rocks? Minerals? Fossils? Stories? Are you ready for Thursday night meetings at Antelope Park? For snacks, socializing, some great programs and other activities? It all starts on Thursday, September 25th, at 7 PM. We will be able to meet **Gavin Guy-Dexter** that night, if baby's schedule permits. Congratulations **Mom Amy and Dad Dan!**

Our Memorial Day Field trip to South Dakota to hunt for agates was a great time. Four members from our club were in attendance as well as 35 plus from the Omaha club. Those LGMC members who snoozed, lost (or something to that effect). Thanks to the Omaha club for all the rockhound camaraderie!

The Grinding Party at Pioneer Park was another crowd pleaser. Thanks to members who donated their time and expertise to demonstrate this year.

Congratulations to **David Heffelbower** for taking 1st, 2nd and 3rd place at the State Fair in the Lapidary Category. There is a 'rest of the story' but I will leave that for the meeting.. See you then!

Rock on!

Susy

Nominating Committee

The Nominating Committee, lead by **Jim Atkins**, met September 15 to discuss recommendations for 2004 LGMC officers. Anyone interesting in running for office is encouraged to do so. The slate of current candidates will be presented at the September and October Meetings, with nominations accepted from the general membership. Elections will be held at the General Meeting November 20. Consider running for an office or a committee. This is a great way to get involved in your club!



WHAT'S THE BUZZ? by Judy Reilly

Once again, we had a long, hot summer in Lincoln. I spent most of the time trying to stay cool but managed to get out to a few hobby-related events.

Over Memorial Day, **Susy McMahan** and I drove to Kedoka, S.D. where we met up with **Roger & Mary Pittard** from the Lincoln Club and 30+ members if the Omaha Club. It was great weather for tracking down those elusive Fairburn agates. Almost everyone found one (including me!) and we all came home with "tons" of prairie agates, jasper, quartz, fossils and other goodies.

The annual grinding party was held in July at Pioneer Park. I did not receive an official report but I have heard that **Alden Stewart**, **Ed Ridge** and **David Heffelbower** were there among others. As usual, many kids came and enjoyed talking to club members about our hobby.

The Midwest Federation Show was held in Cottage Grove, MN. in August. **Susy** and I drove up for the weekend and, despite the heat, we had a great time. We backed out of the field trip for Lake Superior Agates, due to the heat, but managed to purchase a few at the show. We did attend the Newsletter Editor's Seminar which was very informative and a lot of fun. I learned a lot from the instructor and some really great editors and fellow rockhounds. **Phyllis Parks** and her daughter, **Linda** were our delegates to the show and secured our bid to hold the show in Lincoln in 2008. **Phyllis** will provide a complete delegate's report for the October P&S. **Roger Pabian** was guest lecturer. **Pat Akins, Sr.** was present selling petrified wood. **Bill & Betty White** were there also. That's all I remember from our club so I apologize if I missed anyone.

Roger Pabian retired June 30 from UNL after 35 years of service. Many people attended a reception in his honor June 26. Congratulations, Roger!

Our club had several losses again recently. **Irl Everett** died June 18 at age 81 from heart disease. We send our love and prayers to his daughter, Janet and the rest of his family. Our deepest condolences go out to **Bill and Betty White** in the loss of their son June 20. We also extend sympathizes to member, **Francis Belohlovy** in the death of his mother on June 23. **Orville Spencer (O.D.)**, a long-time club member, died July 3 at age 88. Orville was a faceter of gem stones until his stroke in 1993. Even after the stroke, he and his wife, Eunice attended meetings as long as their health permitted. Orville was also a collector of butterflies. His collection was extensive and is now in the Smithsonian. LGMC received thank you cards from the above families for our memorials and support. Our friends will be missed.

One very BRIGHT spot was the birth of little **Gavin Bruce Dexter-Guy** August 20 at "2:37 PM" as reported by the proud papa. Ask Dan to show you his nearly worn-out picture- it's a great one. Gavin weighed 5lb. 3 oz. at birth and was 18 1/2" long. He is now well over 6#. We can't wait to see him!

Vera Lyman's new granddaughter, Elizabeth was born August 23. Congratulations Vera!

I'm hoping to receive lots of articles this year. And that means JUNIORS too! See you Thursday!!!

LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS - May 7, 2003
7:00 P.M. @ Kinkos, Conference Rm.

The Meeting was called to order by Past President, Jim Atkins, in the absence of Susan McMahan who was ill.

Motion by Phyllis Parks for approval of the Minutes and Treasurer's report. 2nd by Dave Heffelbower. Motion carried.

BELLS: John Harrison presented a bill for Saw blade for Special Lapidary Class. Motion for approval of payment by Vera Lyman, 2nd by Dave Heffelbower. Motion carried.
Motion made by Dave H. to pay Peter Crawford \$ 50. for the time and lumber to set up proper storage for cases and show supplies. 2nd by Jim Atkins. Carried.

OLD BUSINESS: Show Chair proposed that we take \$ 600. from Show profit for Trailor/Black Light set-up. Motion for proposal by Dave H., 2nd by Phyllis Parks. Motion carried.

NEW BUSINESS: Peter Crawford donated \$ 100. and Phyllis Parks donated \$ 50. (in memory of Jim) to outfit Trailer for proper storage & transport of Properties.
Motion by Phyllis Parks, 2nd by Jim Atkins to give permission to Junior Chairperson, Kay Jurgens, to purchase Rubbermaid containers for storage of Junior supplies. (Funds used from Junior profits) Discussion of Quinn Memorial Fund which was never dispersed. Will call Mrs. Quinn and seek her wishes, possibly using for Black Light set-up.

It will be presentation time for our Scholarship at May General Meeting. There will be "snack tray" as well as desserts from members.

MEMBERSHIP: Philip Monroe - attended our April Meeting and applied. Motion for approval by Phyllis Parks, 2nd by Dave H. Carried.

SHOW: John Harrison, Chair
We had a Post-Show Meeting on April 22. Reports that Show went very well. However, we need better co-ordination with Geology Club members to utilize their help. We need to reciprocate in Club participation; personal displays at other Shows. Also need to put out display at several locations prior to Show.

Notes: List activities in newspaper, including Meetings. Contact Journal-Star to see what format suits their printing needs and how far in advance.
Library Rooms are available under LGMC. Call at least 1 mo in advance if possible.
At Sept. Meeting, need volunteers for State Meeting at Omaha Show in Oct.

Field trips - Memorial Weekend to South Dakota

- Labor Day Weekend to Crawford

Grinding Party - July 20 at Pioneer Park

MWF Show/Convention - Aug. 14-16. Our formal request for MWF Show in 2008. Discussion of these activities at May General Meeting.

Sept. Board Meeting not set yet. Will check with all Board Members to see what date works best for all.
Meeting adjourned.

Respectfully submitted,

Vera Lyman
Vera Lyman, Secretary

LGMC Treasurer's Report for May 2003
Pinnacle Checking Balance on April 30, 2003 \$ 4,074.90

May Receipts:
Peter Crawford-Donation-ShowProp. 100.00
Phyllis Parks-Donation-Mem of Jim 50.00
New Membership-Philip Monroe 15.00 165.00

May Payments:
Postmaster-May P&S Mailing 37.00
Kinkos-Board Mty & copies(5-7) 24.41
Dave Heffelbower-Brass Plate & Hand truck - Memory of Billie 36.83
JJ&L-Saw Blade (Roger Pabian-SELCP) 49.80
Peter Crawford-Years of assistance 50.00
KFOR-Three Eagles Comm.-2 ads 20.00
Kimberly Jacobs-Scholarship Recip. 500.00
Super Saver-Supper Trays-5/22 Mty 58.16
Judy Reilly- Copy May P&S 34.22
Rixstine's- Rock Round of Year Plague 53.50 863.92
Pinnacle Checking Balance on May 31, 2003 \$ 3,375.98

LGMC Treasurer's Report for June, July, August
Pinnacle Checking Balance on May 31, 2003 \$3,375.98

No Receipts during 3-month period.

Three-month Payments:
Postmaster-Bk of Stamps/12 Who's Who 11.84
Memorial - Irl Everett 100.00
Memorial - Bill/Betty White (Son) 25.00
Security Storage - 7/1-12/31 378.00
Linc Journal/Star(2008 MWF Show) 39.00
Memorial - O.D. Spencer 25.00
Bill's Trailer Sales (Kearney)Deposit 1,000.00
Susan McMahan - Supplies 131.20
MWF - Dozen ea. Pins/Patches 36.00 1,746.04
Pinnacle Checking Balance on Aug. 31, 2003 \$ 1,629.94

LINCOLN GEM & MINERAL CLUB, INC. - GENERAL MEETING _ May 22, 2003
Antelope Park Shelter - 7:30 P.M.

Present: 16 Members 4 Guests - Dr. & Mrs. Norman Smith
Kimberly Jacobs, Scholarship Recip.
Dee Shaeffer (w/ Irl Everett)

Acting President, James Marburger called the Meeting to order.
Minutes of the previous Meeting were approved with motion by John
Harrison, 2nd by Susan Taylor. Motion carried.
Treasurer's report approved with motion by John Harrison, 2nd by
Dave Heffelbower. Motion carried.

OLD BUSINESS: Field trip planned to South Dakota. Itinerary is
printed in the Pick & Shovel. Scheduled for Memorial Weekend.

COMMITTEE REPORTS: SHOW - Chair, John Harrison thanked Committee
and all Club Members for a job well done. Stated that many compli-
ments were received on the Show. Letters of Thanks read by John
from; Geology Club of UNL; several Dealers at the Show & their
desire to return; Bill & Shirley Rockel, annointed King/Queen of
Show.

Our THANKS, John for your excellent leadership as Chair.

Next year's Chair will be Roger Pabian. He is looking forward to
all our support.

Roger is also retiring from his career at UNL. Everyone is invited
to a reception in his honor on June 26, 2003 from 2:00 - 4:00 P.M.
at East Campus Student Union. OUR BEST TO YOU, ROGER ON YOUR
RETIREMENT!

NEW BUSINESS: ROCKHOUND/S OF THE YEAR! John Harrison presented
plaques to both Phyllis Parks & Vera Lyman. What a surprisell!
Our Thanks to everyone for this honor.

Rock Auction - August 23, Hastings, NE. Collection of Jim & Geneva
Gurtsen. Excellent collection, many things you cannot find any more.

SCHOLARSHIP: Dr. Smith of the Geosciences division at UNL was in-
troduced. He in turn introduced the recipient, Kimberly Jacobs.
She gave an excellent presentation of her future studies she is
entering in Cherry County, NE along the Niobrara River. She indi-
cated she would return upon her completion of studies to give a
summary of her findings. At the conclusion of her presentation,
Acting Pres. Marburger presented her with a \$ 500.00 check from
LGMC. Congratulations, Kimberly and our Best Wishes in your studies.

The evening concluded with supper/desserts and fellowship.

Respectfully submitted,

Vera Lyman

Vera Lyman, Secretary

Lincoln Gem & Mineral Club, Inc.,
P.O. Box 5342
Lincoln NE 68505
46th Annual Show, March 27, 28, 2004
"Those Golden Years"

PROJECTED INCOME

14 Dealers @\$425.00	\$5,950.00
6 Selling Demonstrators @40.00	240.00
Gate Admissions---Saturday, March 27	\$2,800.00
Sunday, March 28	\$2,700.00
Total Receipts:	\$11,690.00

PROJECTED EXPENSES

Floor: Rent 2 days @ \$1,000.00/day	\$2,000.00
½ day @ \$500.00	500.00
Tables: 170 @ \$5.00	850.00
Chairs: 150 @ \$1.50	225.00
Round Tables: 5 @ \$5.00	25.00
Drapes and Table Skirts	75.00
Elevator Operator:	180.00
Commonwealth Electrical:	450.00
Security:	830.00
Advvertizing - KFOR Radio	815.00
-Journal - Star	725.00
-Daily Nebraskan	55.00
Pre-Printed Flyers	40.00
Postage - Discount Cards	175.00
Hand-out Programs	120.00
Ribbons - Recognitions	110.00
Special Features	850.00
Lectures - Programs - 5 @ \$50.00	250.00
Exhibit Area Decorations - Flowers	75.00
Show Labor - Peter Crawford,	100.00
-UNL Geology Club,	100.00
Miscellaneous - Show Chair	50.00
--Floor Chair	20.00
--Ticket Sales Chair	40.00
Property Storage	800.00
State/City Sales Tax Payable	250.00
Total Expenses per Contract	9710.00
Projected Net Gain per 2004 Contract	1980.00

FEDERATION NEWS

AFMS Newsletter, September, 2003

Summary of Loud & Clear by George Loud
Conservation and Legislation Chair

In this article, George Loud encourages all amateur rock, fossil and mineral collectors to write to their Congressmen to oppose H.R. 2416, (Paleontological Resources Preservation Act).

(The article in its entirety along with sample letters from the AFMS will be at the Sept. LGMC meeting ...P&S Ed.)

Summary of Safety on the Road by Bill Buckner
AFMS Safety Chair

Bill Buckner's article gives general driving safety information. The three major elements of the transportation system are: 1) the driver, 2) the vehicle and 3) the road. Most accidents relate to the driver.

Bill gives good common sense examples of how to stay safe on the road. For instance, drivers need to maintain best possible vision, hearing and general health. We must avoid fatigue to stay alert on the road. Consider physical and emotional health before getting behind the wheel. If you are ill or worried or upset, rest before you get behind the wheel or let someone else drive.

Keep your vehicle in good condition. Obey traffic signals and road signs.

These are good things for rockhounds and everyone else to remember on the road.

MWF Newsletter, September, 2003

Excerpts from
QUARTZ, State Mineral of Arkansas
by George Judd G.G., Mineralogy Chair

Quartz is among the most beautiful of gemstones, yet its surprisingly cheap because of its great abundance. How abundant? It's the most abundant mineral on Earth, so almost every rock has a little quartz in it.

Quartz is made of silicon dioxide (SiO₂). Quartz and other minerals made of SiO₂ are grouped in the class "silicates". Quartz is also the most varied mineral. Specimens vary according to color, shade, transparency, size of crystals and crystal form. There are hundreds of unique quartz varieties.

Things that are made from silica include glass, optical lenses, electrical components, abrasives, gemstones and building stone.

Most quartz is a souvenir of volcanoes. The melted silica is carried by water into crevices where it crystallizes. Such quartz often includes traces of other minerals picked up in the water flowing underground.

But a different process is thought to have created the fabulous quartz crystals of Arkansas' Ouachita Mountains. As the mountains rose, millions of years ago, enormous forces were created. Trapped sea water was squeezed out and heated. The ancient sea water contained less dissolved minerals than rock melted by volcanic sources, making the Arkansas quartz purer and cleaner.

Places to Go, Things to Do

Sept. 27-28, Schuyler, NE.- Loup Valley Gem & Mineral Society, Inc., Gem, Mineral & Jewelry Show, St. Mary's Social Hall, 320 West 10th St. (see flyer p. 8).

Sept. 27-28, Joplin, MO.-Tri-State Gem & Mineral Club, Rock-A-Thon, 504 Schifferdecker Ave. Chris Wiseman, 417-623-1180.

Oct. 4-5, Topeka, KS.- Topeka Gem & Mineral Society, 47th Annual Show, AG Hall, Kansas Expocentre, 17th & Topeka Blvd. Stacey Davis, 785-233-2631, gkhobby@cox.net.

Oct. 4-5, Omaha, NE.-Nebraska Mineral & Gem Club, Inc. 48th Annual Gem, Jewelry, Fossil, & Mineral Show. Westside Community Education Center, 108th & Grover Streets. Oct. 4th, 9-6, Oct. 5th, 10-5. Jack Jensen, 402-593-7426.(see flyer, p. 8).

Oct. 18-19, Springfield, MO.- Ozark Mountain Gem & Mineral Society, 36th Annual Gem & Jewelry Show. 635 E. St. Louis. Floyd Carpenter, 417-882-9296.

Oct. 18-19, Keokuk, IA.- 4th Annual Smposium, Mississippi Valley Chapter Friends of Minerology, "Geodes of the Warsaw & Keokuk Formations, Missouri, Illinois, and Iowa." Mark Sherwood 816-690-8226.

Oct. 25-26, Davenport, IA.- Black Hawk Gem & Mineral Club, Rock Show, Mississippi Vaalley Fair Grounds 4H Building, 2815 W. Locust St., Davenport, IA. Kellie Moore, 563-445-3034.

Under the Blacktop Lies a Link to the Past: Scottsbluff, Neb. (AP) Two Uni. of Nebraska paleontologists have spent the past four years collecting hundreds of fossils at a road construction site in the Nebraska Panhandle. The efforts of Bruce Bailey and Shane Tucker began in 1999 when work on the Nebraska Highway 71 Heartland Expressway project in the Wildcat Hills first unearthed fossils.

Both Bailey and Tucker work on the Highway Salvage Paleontology Program. They travel throughout the state as highway construction begins, making sure fossil locations are documented and contents preserved. When earthwork started on the Heartland Expressway in 1999, the pair found more than 500 fossil remains, Tucker said. Some of the fossils are those of a new species that had not yet been identified. Other fossils found at the bone bed included three different types of small horses, a trio of camels and animals with characteristics of both sheep and pigs. "We found a beaver that is completely new to science" Tucker said. "We have new species of gophers."

Ten feet of back slope needs to be removed in order to get to more of the bone bed, Tucker said. That eventually may happen, but for now work continues periodically on acquiring what fossils they can remove given the short amount of time they have until moving on to the next highway project.

Tucker favors a proposal that would create a "paleontology corridor" to advise travelers in the area of the unique fossil discoveries. He said he would like to eventually see a trail from the Wildcat Hills Nature Center to the bone bed, with interpretive displays. — *Omaha World-Herald*, August 14, 2003

(Note: Bruce Bailey gave a very interesting talk at one of our Spring Banquets a few years ago. His talk made us aware of the fossil-riches of our state.)

**OUR FOUNDER IS GONE BUT
WE WILL NOT FORGET**

Rocky Ramblings By Evey



From January, 1955 until June 18, 2003, Irl C. Evey (Evey as he signed himself) watched over and encouraged the members of Lincoln Gem and Mineral Club in our activities, shows, educational projects, and role in the community. Most of you are aware that Irl originally got a few people together whose common interests were rocks, minerals, fossils and related topics. They formed a club, elected officers and held meetings. Evey held the office of President in 1956 and again in 1959 when the Corporation was formed and the first show was produced.

In January, 1970, Irl was presented with a Life Membership and honored as Founder of the club along with three others.

As a memorial for Evey, let us vow to keep "his club" growing and active, fulfilling its purpose and letting people know the beauty and worth of rocks, minerals and fossils.

Thank you, Evey, for letting us share one of your many interests and for having the vision to initiate The Lincoln Gem and Mineral Club.

Submitted by Phyllis Parks

Evey's stories have been featured in the Pick & Shovel this past year or so. I will continue to include them in some future issues of the Pick & Shovel. Here is one that seems especially appropriate.
(EDITOR)

Where Is The Rockhound Mentioned In The Bible?

You don't know? I'll tell you, but if you have a Bible, you can look it up for yourself. See, when the Lord made us all and made this earth, he knew that somewhere along the line there would be a group that would someday call themselves "Rockhounds". Now don't get me wrong, this is not a bad name. Oh, no. In fact, it's a GOOD name. See, I am one and have been for many years.

So, if you have your Bible and want to know where it mentions rockhounds, follow me. In my Bible it's on page 786. Yours might be on a different page since I have a fat Bible, maybe fatter than yours.

OK. Got your Bible? Open it up to the book of Ecclesiastes and find Chapter 3, Verses 1-5. Got it? See there, it says in verse five: "There is a time for scattering stones and a time for gathering stones." The reason for my liking this verse is that every time I wrote Lois in WWII, I ended the letter with this verse. Oh yes, I had to take my Bible over more than once to show the officer who was censoring the mail.

Now the funny part is this. I wrote Lois about every other day, and while I was overseas, I did not get one letter from her. We were in an outfit that was moving with the front line, and in fact, we were about 12-15 miles behind the front line. But when I got home, Man, did I have a bunch f letters waiting for me!

Rockspectively,
EVEY

(Let's keep gathering stones together! Bye, Evey.)

On Types

The word "type" is used in many ways in the geologic sciences as well as in the rock hobby. The word is also badly misused. Proper use of the word type in paleontology is dictated by the International Commission on Zoological Nomenclature (ICZN).

Many people ask the question: "Why don't scientists use easy names for animals or plants? Why do plants or animals have long, often Latin names?" The best answer for that is: "what easy name would you give to some animal that has been extinct for 200 million years and doesn't have any descendants that even closely resemble it?" Dog, cat, cow, horse..., they're all taken up?" Then you have the problem of language to further complicate the picture. A dog in the United States is "un cane" in Italy, ein Hund in Germany, kalb in Arabic, and something different in most of the several thousands of languages that are spoken on our planet.

The ICZN foresaw these problems early on and adopted the binomial nomenclature system that was introduced by the Swedish scientist, Linnaeus, in the 18th Century. That is, each species is given a name of two parts---a generic name and a specific name. The specific (or species) name is fixed. Once the specific name is published and circulated within the scientific community, it can never be changed. The generic (or genus) name can be changed.

Let's take an example and see how it works. We are going to take for our example, the late Pennsylvanian proetid trilobite, *Ameura missouriensis* (Shumard). *Ameura* is the genus name; *missouriensis* is the specific name; and Shumard is the surname of the scientist who described the species. On the following page, Shumard described a species *Phillipsia major*. This

has some significance too. In his original description of *A. missouriensis*, and also of *A. major*, Shumard illustrated specimens of each, and these were placed in a safe repository where they would be available to the scientific community for all time. These specimens are what are called "holotype" specimens. These holotype specimens forever define what the species are. The quality of preservation is of no importance. The holotype may be damaged and/or incomplete. A perfect, complete specimen found later still can never replace the holotype.

Benjamin F. Shumard originally described this species as *Phillipsia missouriensis* Shumard. Note that Shumard's surname is not in parentheses in the original description. There's a reason for that.

In Shumard's original description, his name will not go in parentheses because the genus to which the species is assigned has not changed.

Shumard did his work in the late 1850's and early 1860's for the most part. Some 75 years later, the paleontologist J. Marvin Weller at the Illinois Geological Survey published an extensive study and revision of proetid trilobites. Over 85 or so years, many more examples of these trilobites had been collected and made available for study. Weller observed and demonstrated that the genus *Phillipsia* really contained trilobites of several distinct morphologies or forms. Weller erected the new genus *Ameura* and placed the species *P. missouriensis* and *P. major* of Shumard, and the species *P. sangamonensis* Meek and Worthen in this new genus. Hence, *Phillipsia missouriensis* Shumard became *Ameura missouriensis* (Shumard), *P. major* Shumard became *A. major* (Shumard), and *P. sangamonensis* Meek and Worthen became *A. sangamonensis* (Meek and Worthen). Through all of this, the holotype specimens never change. The

holotype of *A. missouriensis* is the same holotype of *P. missouriensis*, but the generic assignment changed; hence, the parentheses.

In the late 1960's and early 1970's, J. A. Fagerstrom and I reworked these proetid trilobites from Nebraska and we showed that the three species of *Ameura* were all the same. In a statistical sample, one could not be distinguished from the other. There's a hare and fast rule of the ICZN that the first published name has priority over all others. Remember, above, I said that the name *P. missouriensis* appeared one page earlier than *P. major*, and both names appeared about 5 years earlier than *P. sangamonensis*. So, the species name *missouriensis* has priority over all of the other names, which then become synonyms.

What happens if a holotype specimen becomes hopelessly and irretrievably lost? There is a rule to cover that case too. The late Pennsylvanian crinoid *Delocrinus subhemisphericus* Moore and Plummer provides a good example.

Shumard described a Pennsylvanian crinoid that he called *Poteriocrinus hemisphericus*. In the early 1890's, the paleontologists S. A. Miller and W. F. E. Gurley redescribed this whole group of crinoids that included *P. hemisphericus*, and they erected a new genus of crinoid called *Delocrinus*. Thus, the crinoid species *P. hemisphericus* Shumard became *Delocrinus hemisphericus* (Shumard) Miller and Gurley. The type specimen of *D. hemisphericus* (Shumard) was later destroyed in a fire.

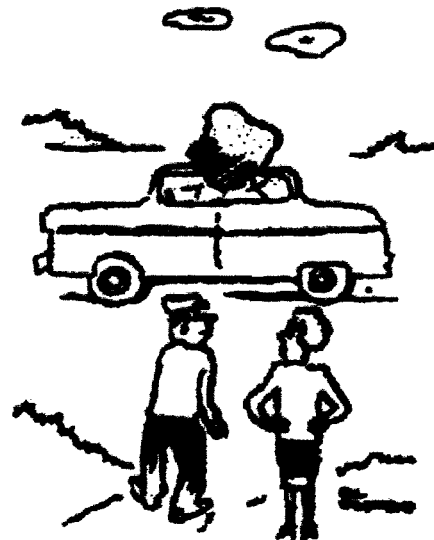
In 1940, R. C. Moore and F. B. Plummer described a species of crinoid, *Delocrinus subhemisphericus*. Crinoid systematics became a hot item in the early 1970's in preparing the *Treatise on Invertebrate Paleontology*.

Delocrinus was the most common Pennsylvanian crinoid genus and it had no type species. Moore and H. L. Strimple subsequently showed that their species *subhemisphericus* was probably conspecific with Shumard's species *D. hemisphericus*.

Moore and Strimple petitioned the ICZN to designate a neotype species for *Delocrinus*, namely their species *D. subhemisphericus*. The petition was subsequently honored and *D. subhemisphericus* is now the neotype specimen for the genus *Delocrinus*.

The important points are that the first used specific name always has priority and a holotype specimen is the basis for all comparisons. There are a lot of different type specimens besides the holotype and I'll get to these in later issues. "Type" also is used in stratigraphy and I'll get into those usages with later issues.

Roger K. Pabian



"Must you always bring the biggest one you can find?"

via Golden Spike News 10/00

Rockhoundus typicalis?

(P&S ED)

THE NEBRASKA MINERAL & GEM CLUB of OMAHA

Presents

The 48th Annual
Gem, Jewelry & Mineral Show

Oct. 4th & Oct. 5th, 2003

Featuring

2003 NAOESC State Show

Saturday - 9:00 a.m. to 6:00 p.m.
Sunday - 10:00 a.m. to 5:00 p.m.

Admission

Adults - \$4.00
Students & Senior Citizens - \$2.00
Children Under 12 - Free with paying adult

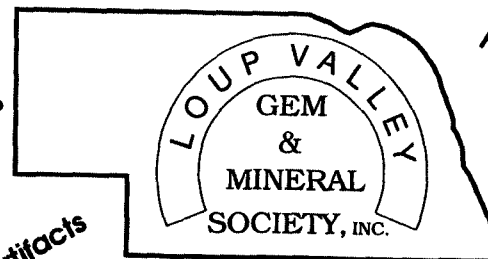
Westside Room

Westside Community Center
3534 South 108th Street
Omaha, NE

Jack Jensen & Ed Schafer
Show Chairmen

Jades
Jaspers
Mineral Specimens
Petrified Woods

Artifacts



Opals
Agates
Jewelry
Crystals
Fossils

Gem, Mineral & Jewelry Show

Sept. 27th & 28th, 2003

ST. MARY'S SOCIAL HALL
320 WEST 10TH STREET

SCHUYLER, NE



Saturday 10 a.m. to 6 p.m. Sunday 10 a.m. to 5 p.m.
THREE Dealers • Hourly Door Prizes • Ongoing Silent Auction

DISPLAY CASES • SPECIAL EXHIBITS

Working Demonstrations

Fossil Preparation • Silversmithing
Flint Knapping • Student Activities



Lunch Stand



Come and Enjoy the Beauty and Wonder of the Rock World

Admission: Adults \$1.00 Children 12 years old and over 50¢
Children Under 12 — Free — with parent

Not Responsible for Loss or Accident

2003 ELECTED OFFICERS

President	Susy McMahan	5636 Greenwood St.	Lincoln, NE	68507	464-0065
1 st Vice Pres.	Pat Akins, Jr.	5017 No. 6 th St.	Lincoln, NE	68521	477-1322
2 nd Vice Pres.	James Marburger	330 Locust	Hickman, NE	68372	792-2348
Secretary:	Vera Lyman,	420 N. 56th St.	Lincoln, NE	68504	464-6089
Treasurer:	Phyllis Parks	2345 So. 19th St.	Lincoln, NE	68502	476-6798
Board Member	David Heffelbower,	1819 Washington St.	Lincoln, NE	68502	cell 890-2794
Board Member	James Atkins	3028 So. 35th St.	Lincoln, NE	68506	483-1610

Nominating Committee

3 years	Amy Dexter-Guy
	Edward Ridge
2 years	John Harrison
	Aulden Stewart
1 year	Judy Reilly
	David Heffelbower

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:	Vera Lyman
Historian:	Susy McMahan	Christmas Party	Edward Ridge
Membership Record:	Edward Ridge	2003 Show:	John E. Harrison
Programs:	Roger Pabian	2004 Show:	Roger Pabian
Property:	Pat Akins, Jr.	2003 Swap	David Heffelbower
Youth Activities:	Kay Jurgens & Committee	2004 Swap:	?
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		

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.

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LINCOLN GEM & MINERAL CLUB

hosts our

46th Annual Show

PERSHING MUNICIPAL AUDITORIUM

March 27 - 28, 2004

Show Chairman - Roger Pabian

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) \$10.00 per year Juniors (age 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.