

CALENDAR

March

NO REGULAR MEETING--Show **SET-UP**, Friday March 24, 1995-- All **Able bodied** Clubmembers needed to assist in this necessary and very important club activity--help is needed to transport our club properties from storage room to Pershing Auditorium(8 to 9 a.m.); help is needed to reassemble club cases, clean & polish them up for the many fine exhibits they will hold; help is needed to cover tables in preparation for the displays; help is needed to insure that all phases of the show will run smoothly when the doors open on Saturday to the **PUBLIC**. (Remember Show Set-Up runs from 8 am Friday to 8 pm with a tight schedule for entries and exits from the building to accommodate dealers, demonstrators and displayers. Be prepared to take your turn and remember to exit as quickly as possible to make room for the next vehicle.)

Saturday, March 25 1995 1:00 P.M NEW LGMC Study Group - at the **CLUB MEMBERSHIP BOOTH** - There will be a meeting for all club members interested in the study group project (preparing a large Cretaceous fish fossil for the State Museum). This will be held during the Annual LGMC show at 1:00 p.m. Saturday, March 25th at the membership booth. We will need to discuss scheduling the training sessions and the individual group meeting times. Please attend if you can.

Kevin Schwartzman, Study Group Coordinator.

Sunday, March 26, 1995 We hope all members have had a good time and enjoyed the show, this 'once a year extravaganza', this reason most people join the group, this means of showing the rest of the world just why we are 'Rockhounds', this looked for, worked for, planned for, event that has controlled the thoughts of your **SHOW COMMITTEE** for the past 12 months. Now is the time for all clubmembers to forget how tired you are and pitch in to help get all the club properties returned to their storage. They don't just miraculously take care of themselves. Your **COMMITTEE** is probably even more tired than you and will welcome all able bodied members who can lend a hand--See Chairman John Harrison and/or Floor Chairman Francis Belohlavy and help plan ahead.

April 22 Meeting Show Reports and a good program-Nebr.Center 7:30

May 20 Meeting Coffee & Desserts - Antelope Park Shelter - 7:30

NEXT LGMC SHOW -March 23 and 24, 1996 - Pershing Auditorium

Local Shows & Swaps for 1995

March 17-19 Show Kansas City Assoc. Earth Science Clubs

March 18-19 Show Cedar Valley R & M, Cedar Rapids, IA

April 21-23 Show Blackhawk Rock Club, Rockford, IL

May 13-14 Show Northeast Nebraska Rock & Mineral

As we receive dates for other nearby shows we will publish them.

1995 REGIONAL SHOW SCHEDULE

EASTERN FEDERATION

March 17-19

Hickory, North Carolina

SOUTH CENTRAL FEDERATION

April 28-30

Waco, Texas

ROCKY MONTAN FEDERATION

June 9-11

Oklahoma City, Oklahoma

NORTHWEST FEDERATION

/AFMS Combined

July 13-16

Boise, Idaho

CALIFORNIA FEDERATION

June 23-25

San Jose, California

SOUTHEAST FEDERTION

Unknown

MIDWEST FEDERATION

OCTOBER 13-15

Detroit, Michigan

YOUTH

No regular meeting in March since all of our time needs to be devoted to OUR participation in the yearly show. Contact your leaders Pam Killion and Kay Jurgens for your individual share in making this a success.

Several LGMC Youth attended the March 5th Geology Day at Pioneers Park and made quite a contribution to the days success. We had several reports that Youth Members Rennie Rieur and Emerson Wooldridge took excellent care of our clubs registration book for Editor Phyllis Parks so that we have a nice record of this event. Thanks fellows for your participation and hope that you enjoyed it as much as I always have.

Also participating was Emily Rieur and a schoolmate talking about their lapidary work. Nice work!

Up-date on Grant Quinn Memorial Fund for Juniors: As of this date there has been \$372.00 in contributions made. No set plans todote.

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CLUB NOTES

Speaking of Geology Day -reports were good- lots of displays, visitors and participation. Club members who helped were Roger Pabian, Ed Ridge, Charles Wooldridge, Jerry Moore-Chairman, Jon Eggan, Kevin & Kathy Schwartzman, Pam Killion, Brett, Janelle & Kay Jurgens, Marci Hamilton, David Heffelbower, Bill & Shirley Rockel, & The Frys.

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February Scholarships:

Our club secretary has forwarded these thoughts to us for publication regarding the UNL Geology students who were recipients of our 1995 stipends for their use as they pursue their advanced degrees at UNL. We wish to thank both os these students for sharing their studies with us at the February meeting.

Mr. Pedro Tapia - a student from Peru, is working on the biostratigraphy of Cretaceous diatoms (unicellular plants from about 100 million years ago) for his M.S. project. He has found that although very few diatoms have been described from Cretacious rocks they are especially well preserved and abundant in the calcite concretions that surround ammonites.

Ms. Yana Minnis - a first-year M.S. student, has her B.S. from Middlebury College in Vermont. Her project is concerned with the seasonal dynamics of the hydrologic system underlying the "wet meadows" between the large dunes of the Nebraska Sand Hills. She is especially interested in comparing ditched and unditched meadows.

THE PRESIDENT'S MESSAGE

Fellow Club Members

I wish to thank each of you that participated in Geology Day at the Chet Ager Nature Center. It is refreshing to meet with the curious public about our hobby. The hot chocolate hit the spot--**Thanks Jerry!** The suggestion was made that we hold a "grinding party" at the center sometime this summer. Let me know if you would be interested.

By now everyone should be signed up for displays and when they can work at the show. It takes a few super humans an overwhelming lot--or a lot of plain ol' Rock Hounds a little effort to put on a good show. If anyone has missed signing up please call me at 475-9034 and I'LL see you get on the appropriate list.

Speaking of the show I received an interesting phone call from a fellow club president from Illinois. He had seen our press release in the Mid-West Federation Newsletter and was curious how we were able to get the prestigious Lizzadro Museum to come to Nebraska with a display. I informed him that one of our members was assigned the task of researching and making contacts for special exhibits....As I did so it struck me how fortunate we are to have knowledgeable, articulate, and energetic club members. Last year we had the premier showing of the new Smithsonian Collection. The year before I believe we had an exquisite display of black light materials, and the list goes on and on. As we take part in this years show we need to "take time to smell the roses". We need to thank each other for the effort that we put into making the show special for everyone. When you see someone working hard or doing an especially good job -- take time to let them know how much you appreciate their efforts.

Thank you, and, enjoy the Show.

Wooly

Tribute to C. Bertrand Schultz

Mr. Schultz was a long-time Honorary Member of this club with a history of involvement in some of our most well known and important activities. As head of Morrill Hall and professor of Geology he enabled our club to work on 'The Pleezy Dig' and Room 104, He gave programs to the club and attended many of our functions. His death on March 7, will leave an empty spot in the Field of Geology.

Earth's Treasures

THE FINAL STAGE: Ten days to COUNT DOWN when the doors to Pershing's lower level open at 9 am on Saturday morning, March 25, 1995. we'll be ready and we hope that you will have helped. Your Chairman has done a great job of selecting his committee and each of them have done their best to make this one of LGMC's best shows -- if not the best.

Your 1995 Show Committee is composed of:

1995 Show Chairman	John Harrison
Floor Chairman	Francis Belohlavy
Dealer Chairman	Jerry Moore
Publicity	Charles Wooldridge
Tickets & Security	Vera Lyman
Recognitions	Kathy & Kevin Schwartman
Special Features	Ralph Ulrich
Displays Chairman	Roger Pabian
Lecture Programs	Norman Balliet
Rock Races	Ed Ridge
Saturday Night Buffet	Shirley & Bill Rockel
Youth Booth	Pam Killian & Kay Jurgens
Show Secretary	Phyllis Parks

Floor Chairman Frances Belohlavy has worked very hard plotting a floor plan, arrangements for extra lighting, table & chairs needed and plans for traffic control on Friday Set-up Day and Sunday Exit Day.

Dealer Chairman Jerry Moore has contracted 14 dealers with a variety of materials to delight we rockhounds and the general public. Get acquainted with them and look for your heart's desire then enjoy it for the next year.

Publicity Chairman Charles Wooldridge has arranged newspaper and radio coverage with both national and local media. (Was most interesting to have calls from S. Dak. and Kansas City requesting verification of our show dates, location etc. for their calendars of events.)

Tickets & Security Chair Vera Lyman is ready for action! She has our usual Security Coverage arranged, has her tickets and related materials ready for 2 days of vigorous activity. Her attention to this detail is part of the reason our show goes so smoothly and provides us with the incentive to produce the next year's show.

Kathy & Kevin Schartman as Recognitions Committee did such a good job of getting ribbons, awards and name tags dispersed last year that they were unanimously endorsed for 1995.

Ralph Ulrich, as Special Features Chair, has done an outstanding job in securing exhibits: Carvings from Idar Oberstein, Germany from The Lizzadro Museum at Elmhurst, Illinois via the cooperation of Russ and Doris Kemp of Chicago (long time friends of LGMC and fellow Rockhounds). Ralph also has displays from 'The Bartels Collection' at Concordia College, Seward, NE., curtesy of Mr. Marvin Plamman, Curator, and from Montana, an interesting 'Dinosaur Egg' on loan through the assistance of the educational executive who teaches classes at the Museum of The Rockies.

Displays Chairman Roger Pabian has put in much time planning the locations for our Special Displays, our Dealer Displays and all of the individual displays that will be shown. Check with Roger for your special spot.

(continued on page 5)

A BOOK REVIEW

by Club Member Ben Darling

BANDED AGATES ORIGINS AND INCLUSIONS

Roger K. Pabian and Andrejs Zarins

Educational Circular #12

Conservation and Survey Division

Institute of Agriculture and Natural Resources, UNL

Banded Agates Origins and Inclusions by Roger Pabian and Andrejs Zarins is the latest in the debate about why agates look like they do. It presents past theories and a brief history of agates and does an excellent job of developing the stratigraphic environment agates form in, and provides a source for both the silica and colorants that we see. The development of the ideas presented is the result of the study of thousands of agates and extensive readings. The references and glossary are welcome additions.

I have started to use some of the information to identify sources for agates, and have moved from trying to pronounce amygdaloidal to wondering about the relationship between banded agates and banded jaspers, wondering about the nature of gels in general and silica gels in particular, and where agate formation takes place relative to the surface at the time of formation and a time scale. Since the book has raised so many questions for me, I think it is successful, and would recommend it to all levels of lapidary interest. The model presented should stand for years as the basis for banded agate formation and will inform beginners like me and establishes the theory with argument and observation for professionals.

Hmmm, I wonder if I review enough of these I can get John Lewis to change my Jr. Hi science grades.

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Thanks, Ben, for taking time from your busy schedule to produce this thought provoking review. It certainly created an interest for me to read Roger's latest publication with renewed vigor. Here's hoping that John Lewis enjoys the review (and then the book) as much as I am. Phyllis

(continued from page 4)

Lecture Programs Chair Norm Balliet has secured interesting presentations by both Russ and Doris Kemp on Idar Oberstein Carvings and Amber as well as an exciting one by Charles &/or Karen Messenger of Hickman.

Our Annual Rock Races will be under the guidance of 'Lightning' Ed Ridge with lots of prizes for old & young alike.

LGMC Youth's special booth is once again attended by Pam Killion & Kay Jurgens with all of our young members assisting. They also are planning to produce the Black Light or Fluorescent exhibit.

Shirley & Bill Rockel have made all of the arrangements for a delicious catered buffet on Saturday evening right after the show closes or 7:30 whichever comes first. We're to enjoy fried chicken, salsbury steak, scalloped potatoes, hot vegetable, salad, rolls, coffee, tea followed by cake. Club members will pay \$7.50 each for their meals (payable in advance). Children under 12 will pay \$4.00 for their meal. Be sure to notify Shirley before Friday March 24 if you will share in this fun buffet as we honor our Dealers and Special Guests.

Now for one of our most important functions-LGMC Membership Booth--This is where all of the answers are (we hope). As the club's Membership Chair Shirley sets up this booth and does her best to staff it with people who have most of the answers to the questions that may come up. Any who ask about club membership are provided with recent copies of our Pick & Shovel, general information about the club and it's purpose, aims, and meetings.

Now you are in the picture and ready for Show number 37. See you all there.

Finding New Collecting Areas
Part 13 -- An Example of the Process

Edward P. Pedersen

Research has presented you with a hot prospect for a new mineral collecting locality. The prospect consists of a group of mining claims described in a 30 year-old report by a state geologist, who is known to be familiar with specimen minerals. This report mentions the occurrence of fine groups of large crystals coming from a north-facing incline on the claims. The location of the claims is given as 4 1/2 miles southeast of a small town, located a three-hour highway drive from the front door. A country-road map shows unimproved roads to the area and a mine symbol in the right location. The reference is part of an open-file report in the state mines office.

The following elements are favorable: The reference is not widely available to collectors, the report author is known to be familiar with quality mineral specimens, the locality is within reasonable distance, a more-or-less specific description of the mineral producing area is given, and a second source supports the existence of the general locality.

At this point there are two possibilities: additional research on the locality, or a field trip to test the research already done. In either case it would be worth while to get a topographic map of the area. Additional research would probably add little more to the evidence already in hand. Anyway the average collector would rather be in the field than in the library. There is a point beyond which even the best research will not direct the collector and a trip should be scheduled at the earliest possible opportunity. Before dashing off you must consider the answers to several questions: Can I reach the site by road?; will seasonal weather conditions prevent my reaching the site?; what type of equipment will I need to collect this material?; will I be crossing private property, and if so is it possible to get permission before the trip?; are there alternate collecting possibilities in the general area?; and so forth. Detailed planning will increase your chances for having a successful trip.

Once it is determined that the prospect under consideration can be reached in a passenger car by road in dry weather, without crossing private property, your selection of equipment can proceed. Assume that collecting will be on mine dumps or underground and the material to be collected is fragile and requires additional wrapping and careful transportation. There may be some climbing or hiking involved in reaching the mineralized area. Your equipment would include the usual underground safety equipment, medium weight hammers and rock chisels, packing boxes, specimen wrapping materials, and possibly a back pack or pack frame. A heavy hammer, a pick, and a shovel could be carried in the vehicle, just in case.

Upon reaching the general area of the collecting lead locate yourself on the maps (county road map and topographic map) and familiarize yourself with the appearance of the ground. Take the vehicle as close to the area as possible, then proceed on foot. A copy of the description given in the report should be carried as the authors meaning may be more clear when the relationships of things in the area can be seen. This writer suggests leaving most of the equipment with the vehicle as considerable hunting may be needed before you locate the material to be collected. An exception to this would be if a steep climb is needed to reach the general collecting area after leaving your vehicle. The topographic map will aid in determining if this is the case. The collector should then carefully examine dumps and ore piles for evidence of the reported minerals. During this time the caution that always applies to areas of underground mining should be exercised. It is not always easy to identify the particular mine feature mentioned in an older report. Frequently new workings have altered the description. What was at one time the only north-facing incline may now be one of four or five. If the first visit to a new collecting area confirms the presence of collectable material it should be considered a success.

Keep in mind that field collecting in each area will require a slightly different approach. In a "hard-rock" collecting area the rock may fracture differently than the last such area visited. The writer once observed an "old-hand" quartz collector who could move more rock and find more crystals with a single pry bar than any two members of the writers party could with all their specialized equipment. The crystals or other material may occur in a different association than in another area for the same material.

Knowledge of an area, obtained from previous collecting, can usually save considerable physical effort. For example, the quartz-crystal-lined pockets of Arkansas have the crystals pointing inward. If you are "working" such a pocket and find all of the crystals pointing toward you it probably indicates that the end of that individual pocket has been reached. Another pocket might lie behind or deeper than the worked-out one, but usually it seems more productive, for the same amount of work, to search for another area with a pocket nearer the surface. Pockets in the pegmatite vein areas of Colorado appear similar. These pockets often follow each other in a fracture system. There it may be more productive to dig deeper.

MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES
Member of the American Federation of Mineralogical Societies. **PRESIDENT**

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PUBLISHED MONTHLY
EXCEPT JULY-AUGUST

FEBRUARY, 1995 - Issue No. 339

KITTY STARBUCK, ED
7636 V AVENUE EAST
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PRESIDENT'S MESSAGE

Greetings!

In the last two months, I have used this page to talk about sharing our hobby with others in the community by going out to other groups, and by exhibiting and demonstrating at shows. This month I would like to discuss another way of sharing our hobby, through the monthly bulletins that many clubs put out.

Sharing through the bulletin will not reach the general community the way the others will, but it will reach all club members, including those who because of health problems or distance from meetings cannot attend regularly. It will also reach those outside the club who receive the bulletin, including editors of other bulletins (who may share them with their home clubs), Federation officers, and officers in other Federations. The bulletin can reach others in your community if your public library has an area where they keep publications from local groups - the PTA, the Chamber of Commerce, and so forth. Ask whether you can leave a copy or two of your bulletin in such an area, for the general public to look at; it may spark interest in a reader's mind. Another place to leave your bulletin is at any local rock shops or hobby stores. If they will let you post a copy, it again may lead to some new attendees at, and, one can hope, new members for, your club.

During the last two years, as I have come up through the two vice president's offices, and now, as I am president, many clubs have sent me their bulletins. For those who send them to me, be assured that I read them all. For those who do not, I would love to be added to your mailing list, and would urge that you put the two vice-presidents and the president on the list each year. I have learned a great deal about what clubs are involved with, what their concerns and joys are, what matters to them. Whether the editors intend to or not, they have shared with me the doings of the members, and I appreciate that sharing. Thank you.

Anne



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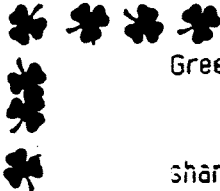
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MARCH, 1995 - Issue No. 340

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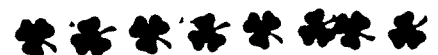


Greetings!

This month I would like to consider with you, as a club member, the sharing that goes on between all the members of the Executive Committee and the clubs. First, who constitutes the Executive Committee? All of the elected officers, all of the State Directors and their assistants, all of the Chairmen of both Permanent and Special Committees and their assistants, and all the past Presidents of the Midwest Federation. Each of the members has a job to do, which is described in the Operating Procedures of the Federation, and each one, except for the elected officers, agrees to take his or her job for a three-year term. During that time they are expected to do the job they have accepted, to attend the three meetings each year of the Executive Committee, and to send in written reports before those meetings. No one, officer or chairman, receives any pay for any of the time they spend doing their job; all they receive from the Federation treasurer is repayment of out-of-pocket expenses, like postage and long-distance phone calls. The president, first vice president, and Uniform Rules Chairman do receive reimbursement for their transportation expense in attending AFMS conventions outside the Midwest Federation, but their hotel and meal expenses are borne by the individuals, and no reimbursement is made for any meeting within our Federation.

So why, with all the time and expense involved in serving the Federation as an officer or chairman, would anyone want to take on one of these jobs? The basic answer is that these people are those who, long before I started harping on the word, felt the obligation to share their knowledge and expertise with others. They know that when they take a job, they will get phone calls or letters, not always at convenient times, asking about what to do in a given situation. Chairmen of committees dealing with a particular phase of the hobby, like paleontology, lapidary, or mineralogy, will get questions pertaining to it. Chairmen of committees dealing with club activities, like bulletins or programs, will get that sort of question. State Directors will get questions dealing with club organization and the running of a club. Presidents will get questions dealing with almost anything - at least the job is far from dull!

Next page please...



1995 ELECTED OFFICERS

President:	Charles Wooldridge, 836 S. 31st St.	Lincoln NE 68510	475-9034
1st Vice President:	Pam Killion, 3425 'N' St.	Lincoln NE 68510	477-1780
2nd Vice President:	Jerry Moore, 2305 So. 35th St.	Lincoln NE 68506	489-4184
Secretary:	Vera Lyman, 420 N. 56th St.	Lincoln NE 68504	464-6089
Treasurer:	Phyllis Parks, 2435 So. 19th St.	Lincoln NE 68502	476-6798
Board Member:	Ed Ridge, 2507 A St.	Lincoln NE 68502	477-8469
Board Member:	Shirley Rockel, 1134 West Avon Lane,	Lincoln NE 68505	464-3059
Board Member:	Roger Pabian, 315 D St.,	Lincoln NE 68502	474-2034
Board Member:	Kay Jurgens, 14111 Guildford,	Waverly NE 68568	786-2756

Nominating Committee

3 Year:	Jim Parks Ben Darling
2 Year:	Francis Belohlavy Ralph Ulrich
1 Year:	Jim Marburger Kathy Schwartzman
Chairman:	Immediate Past President

Long Range Planning & By-Laws Committee

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

Standing Committees

Membership:	Shirley Rockel	Programs:	Randy Fry
Education:	Roger Pabian	MWF Liaison:	Vera Lyman
Field Trips:	Ben Darling	Scholarship:	Dwight Miller
Historian:	John & Lillie Lewis	Christmas Party:	Shirley Rockel
Hospitality:	Eddie "Lightning" Ridge	1995 Show:	John Harrison
Study Coordinator:	Kevin Schwartzman	1996 Show:	
Housing/Property:	Jim Parks	1995 Swap:	Dave Heffelbower
Youth Activities:	Pam Killion & Kay Jurgens	1996 Swap:	
Librarian:	Jim Parks		
Auditing Committee:	Jerry Moore, Francis Belohlavy, Mike Jurgens		
Gem Palette Correspondent:	Vera Lyman		
Geology Day Coordinator:	Jerry Moore		

Your PICK & SHOVEL Staff

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




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

Dues to Lincoln Gem & Mineral Club are as follows:

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

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

