



# CEDAR VALLEY GEMS

CEDAR VALLEY ROCK & MINERAL SOCIETY

CEDAR RAPIDS, IOWA

CEDAR VALLEY GEMS

OCTOBER 1995

VOL. 23, ISSUE 2, PAGE 1

**OCTOBER MEETING** Cedar Valley Rocks & Minerals Society will meet October 18, 1995 at the Life Investors/AEGON Building on the NE corner of Edgewood Rd and 42nd St. NE, Cedar Rapids, IA, at 7:15 PM.

The program will be a slide presentation by Sharon Sonnleitner on the Dinosaur Dig she and her family attended with the North Dakota Paleo Society. The dig was a three day experience near Baker, Montana. It included collecting microfossils from a dinosaur site, digging at a known site, exploring for other sites, and plaster-jacketing specimens for removal. The dinosaurs were triceratops.

Host and Hostesses will be Jim & Myrna Shetterly and Julie Sova.

Host and hostesses are needed for several different months this season. Pleased look at the volunteer book and sign up for your preference.

## FIELD TRIPS

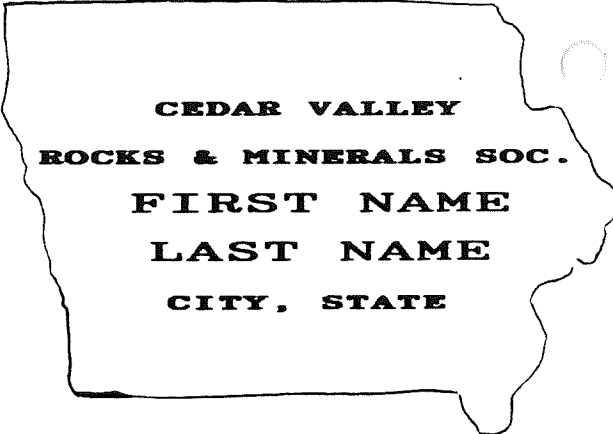
Two field trips are scheduled for the month of October. Bill Mitchell has arranged for the club to get into **Conklin Quarry** in Coralville on **Sunday, October 15**. Meet at 9:00 at the gate. Directions: I-380 south to I-80. I-80 east to exit #242. Turn north and the gate is right across the road from the Ironmen Inn (at the intersection of I-80 and exit #242. The gate will be locked behind us. A group usually leaves at about noon and the others usually stay until 3:00 or so. Bring water, also lunch if you're staying past noon. If there's been a lot of rain, it will be muddy. Conklin has a mix of minerals and fossils: millerite (the prize find), calcite, pyrite, and sometimes sphalerite; coral, brachiopods, bryozoans, and sometimes trilobites, crinoids and fish parts. Tools to bring include: heavy rock hammer, chisels, sledge if you have one, and paper to wrap your specimens. This is a working quarry and requires hard hats (members that have extras bring them for those who don't have any).

Saturday, October 28, is a scheduled field trip to the **LaFarge Quarry** (Davenport Cement Co.) near Buffalo, Iowa. Meet at 8:00 at the rest stop on I-380 just south of Cedar Rapids or at 9:00 at the rest stop just east of exit 267 on I-80 (Tipton exit)--be on time! The quarry is just east of Buffalo on Hwy. 22. The Blackhawk Club is holding their show this same weekend, so you might want to take it in, too. LaFarge has beautiful specimens of calcite, dolomite and pyrite/marcasite as well as some fossils. Bring the same tools as for Conklin and water and lunch.

## ORDER YOUR NAME TAG BY OCTOBER 18

We have finally located a source for name badges for our members. We will place an initial order for all those who make a request by our next meeting, October 18. If you can't make the meeting, call me--396-4016. If I'm not there, leave a message: include your name exactly as you want it on the badge, plus your city and state. Cost is \$6.89 including tax. If we put in a club order, we should be able to get them tax-free at \$6.50 each. Anyone who misses the deadline but still wants a badge can order one separately at a cost of \$8.39, which includes tax and postage and handling.

Sharon Sonnleitner



**CEDAR VALLEY  
ROCKS & MINERALS SOC.  
FIRST NAME  
LAST NAME  
CITY, STATE**

## HERE AND THERE WITH OUR MEMBERS AND FRIENDS

We extend our sincere sympathy to Dick and Millie Smouse. Millie's sister passed away September 29 (Friday while they were with all of us at Ely helping to set up the auction).

Jamie and Jeff Stout, sons of Dale and Nancy, are currently in Chile. Jamie is pursuing his career in banking. Jeff went with him and is enrolled in a University exchange program.

## We welcome new members:

Dean & Marie Anderson  
2910 Cornell Ave.  
Iowa City, IA 52245

Gilbert Norris  
2623 - 34th Avenue Ct  
Rock Island, IL 61201  
309-786-6505

Paul Stults  
105 - 1st Street  
Van Horne, IA 52346

## CHANGES OF ADDRESS

Jenise A. Blong  
Ithiel L. Matteson  
1431 - 78th St. Trail  
Belle Plaine, Ia 52208-8835

Gene A. Burry  
Box 484  
Greene, IA 50636

## OUTDOOR ADVENTURE GUIDES AVAILABLE

Have you ever planned a trip to another part of Iowa and wondered if there were campgrounds or parks available in that area? State parks are marked on state highway maps, but county parks can remain well-kept secrets. Until now. A guide to county parks and natural areas in all 99 counties has been published. This Outdoor Adventure Guide is available for \$2 at any Linn County park, the Linn County Recorder's Office, the Conservation Department main office at 1890 County Home Road or by mail. Postage to mail the books is \$3 for a total cost of \$5. Call the Conservation Department at 398-3505 for more information.

via the Summer issue of OAK HICKORY NEWS, Linn County Conservation Department

## THANK YOU! THANK YOU! THANK YOU!

Norman and I want to thank each of you who had any part in making the auction of our collection such a success.

There were so many - Marv Houg who designed the flyers, gave suggestions and answered so many questions. Those who helped get out the flyers - Alberta Cray, Gladys Wanek and me. (We were surely working in the dark - we had always depended on Darlene Sweet for direction. To Blins who made the signs and got them to the auction site. They also picked up the black light equipment from the shed and set it up at the auction site so the fluorescent collection might be properly shown. The Smouses who came and helped with packing two days and brought labelling and other supplies. And helped so much to get the gem stones, etc set up for the auction. Alberta Cray and Sharon Sonnleitner for picking up the food and pop for the workers on Friday, and Sharon and her young helpers (8th graders from Prairie High working to make money for a class trip to Washington DC) who very capably handled the food on Saturday. Alberta kept bringing little boxes and boxes of every sort and size, which she gleaned from many sources, helping to pack rocks, move cases, make decisions, load and haul rocks. Our daughters, Geraldine and Pat for coming with trucks and helping to load and unload. A big THANK YOU to all who helped with unloading, unpacking and getting the material in place. Dale Stout and Bryan Schaap who carried many tables up stairs and downstairs in preparation for the auction. Dale Stout who put on the the lot numbers calling out the lot numbers and listing the material in the lot as Sharon Sonnleitner put it all in the computer so each guest on Saturday would have a list of what was to be sold and the order in which it would be sold. Bryan Schaap also helped with the numbers while Richard Smouse worked ahead organizing the boxes and/or lots. Special thanks to A. J. Johnson who stayed all night Friday at the auction site as security guard. The auctioneers and their assistants who kept the auction moving all day Saturday - Marv Houg, Larry DeSotel, Dale Stout, Tom Whitlatch, Jeff Groff, George Vacik, Milo Cervený, A.J. Johnson and David Malm. Our daughter Pat managed the "Office" issuing bid numbers, receiving cash, etc. etc. with assistance from Dale Stout and me.

Thanks again. We do appreciate all that each of you did to help. We could not have done it without you.

Norman & Alice Brown

## CHRISTMAS BASKETS



Alice Brown phoned to say it might be good to remind the membership that we usually give 3 families, or households, a large 'hand up' at Christmas time. She pointed out that Econo has been having some free items almost each week - when your order comes to \$10. or more. Even if it is something you don't use, perhaps it will be just right for one of our families. Also, there have been some very good buys on staple items such as sugar, flour, Jello and other items. If we start now and buy 1 or 2 items each month, we will be all set at Christmas time. We will probably have lots more about this next month.

## CONNECTIONS PROGRAM

The next Connections program is scheduled for Monday, October 23, 1995, at Coe College. Susan C. Morse will be the speaker and will discuss large carnivores and habitat concerns. The title of her presentation will be "Room for a Cougar and Me." For additional information call Dennis Goemaat or Gail Barels at 398-3505.

BLACK HAWK GEM & MINERAL CLUB IS CELEBRATING IT'S  
FIRST FORTY YEARS with a



NEW LOCATION FOR IT'S ANNUAL



## GEM, JEWELRY, FOSSIL & MINERAL EXPOSITION

in the MILAN COMMUNITY CENTER

10,000 SQUARE FEET FOR Dealers & Displays!  
Located 2 miles South of Milan, IL on U.S. 67 (Exit #15 off I-280)



OPEN TO THE PUBLIC  
Sat OCTOBER 28TH 10 AM to 5 PM  
& Sunday OCTOBER 29th 10AM to 4 PM



Donation: \$1.00 for Adults & \$.50 for children 5-12 years old  
Proceeds benefit scholarship funds.

Items for Sale

Books  
Fossils, Minerals  
Jewelry, Spheres  
Geodes, Crystals  
Rough Rock, Carvings  
Jeweler's Supplies & Tools  
SeaShells, Pewter

Silent Auction

Food Available  
Door Prizes III

Parking on Site!

Demonstrations

Sphere Making  
Rock Polishing  
Cabochons  
Wire & Glass workings

Displays

2 Displays: Corp. of Engineers  
ILL Fluorite Mining  
M.A.P.S. Fossil Display  
Augustana Geology Dept.  
Geodes, Agates, Carvings

Information: Club Secretary Ethel Morrill 308-786-1832

### CEDAR VALLEY ROCKS & MINERALS SOCIETY 1996 SHOW THEME

#### CELEBRATING IOWA'S SESQUICENTENNIAL 150 YEARS OF GEOLOGICAL CONTRIBUTIONS TO THE DEVELOPMENT OF IOWA

The contracts are out to the dealers. Several have already returned their confirmation for our March 23 & 24, 1996 SHOW. Now is the time to be thinking about which committee you would like to chair, or co-chair.

### HERE'S WHAT'S HAPPENING

- October 21-22, 1995 Des Moines Lapidary Society - SHOW, Des Moines Botanical Center, 909 East River Drive - Dealers, demonstrations, exhibits and Silent Auctions. Show admission free. Admission to Botanical Center \$1.50, Children .50; Seniors .75. What a beautiful place to have a show. They have some different demonstrations than we have had, also a dinosaur egg display. Might be a perfect opportunity to visit the State Historical Building too. I'm not sure if the crinoids are still on display at the Historical building or not. Would make a great field trip. 1-22, October
- October 21-22, 1995 Anoka County Gem & Mineral Club - SHOW, Har Mar Mall, Roseville, Minnesota
- October 21-22, 1995 Pike County Gem & Mineral Club - SHOW, American Legion Hall, Louisiana, Missouri
- October 21-22, 1995 Park Forest Earth Science Club - SHOW. Keeling Center, Park Forest, Illinois
- October 21-22, 1995 Ken-Rock Gem & Mineral Society - SHOW, Lutheran High School Gym, Rockford, Illinois
- October 27-29, 1995 AUSTIN & DALLAS PALEONTOLOGICAL SOCIETIES - FOSSILMANIA XIII, Somervell County Expo Center, Glen Rose, Texas. Fri. 10-6; Sat. 9-6; Sun. 9-2. This is a new, larger location. Tables are \$20. each.  
BUY SELL TRADE
- October 28-29, 1995 BLACKHAWK GEM & MINERAL CLUB - SHOW, Milan Community Center, Milan, Illinois. 2 miles south of Milan. Exit #15 off I-280 (See flyer above for more details)

## A NOTE FROM GENE BURRY

"Labor Day weekend I went down to one of my favorite quarries in southern Iowa. I was by myself. Since it was the weekend, there was no one else around. Just as I was really "getting into the hunt" and enjoying the solitude from ringing telephones and meeting new faces as a new pastor in Greene, my luck changed.

July 12th I turned 64, and I don't have the balance I once had in climbing over large boulders. So I was very gingerly making my way down a steep draw where the dozer had pushed down some new rock. All of a sudden I found myself tumbling! It wasn't really a long fall at all--a rather simple one at that. But as I put my right hand out to steady myself, the full weight of my body landed on my right thumb!

I had my gloves on. Since my thumb felt strangely numb, I took off my glove to discover that I had bent it way back the opposite direction, and had broken the skin on the underside right down to the bone! At that moment I was profoundly thankful that I had not broken a leg because there was no way I could crawl out of that quarry without help!

Being Saturday, I knew none of the small towns would have medical facilities open. So with my left hand I drove the 85 miles or so back to Waterloo and checked in at Covenant Hospital emergency. After scads of x-rays, they wheeled me into the operating room for surgery - a compound fracture. This required putting a rod down through the bone and stitching the underside of my thumb. The doctor said, "you really did a number on your thumb." And I did! Now I am wondering if I will be able to hold a rock hammer or sledge with my right hand!

My question in all this: is it really wise to go into a rugged quarry without someone with you, especially when you are getting up in years? I'm still kicking myself over the incident!

Getting "agate fever" (akin to "gold fever") sometimes keeps us from doing wise things, and can result in physical injury. This I now know full well. But chances are that once my hand heals, I'll be right back at it again, even if this means going to a quarry alone. When will I ever learn?

Gene A. Burry

Thank you Gene, for this story. Certainly it is not ever wise to go into a quarry alone. There are times when even two other people are not enough, as I learned way back in the 70's when I pulled the Keystone out of the wall and ended up with my body pinned over one big rock by another sizable rock which was a real challenge for Bud and Alice to remove so I could be freed. Not fun. Talk about a BAD HAIR DAY!! No broken bones, but health problems that persisted for weeks.

Please note Gene has a new address. He says, "anyone coming through this area is welcome to visit the parsonage and see the large display case I have in our living room - large Lakers, Laguna agates and some minerals. Most (95%) of my collection is in storage. Gene

## GOOD ROCKHOUNDS EVERYWHERE

The ALAA is soliciting contributions to finance sending a representative to Washington, DC to lobby for passage of the "Fossil Protection Act of 1995." A large number of clubs in the NFMS have contributed amounts ranging from \$100.00 to \$500.00 Please consider making a donation either as an individual or as a club. Donations should be sent to: ALAA - Ed Romack, Treasurer, 655 8th Street, Idaho Falls, ID 83401.

George Loud, Chair, AFMS Conservation and Legislation Committee,  
1628 Crowell Road, Vienna, VA 22182

## CEPHALOPODS

-by Paul Godollei

The earliest Cephalopods belonged to the subclass Nautiloidea and ranged from the Cambrian to the Present. Some reached a length of 12 feet, and were fierce carnivores with long tentacles. They probably ate trilobites in the ages before fishes. Some were straight, some were partially coiled, and some tightly coiled. Some lived on the bottom of the sea, some crawled and some swam or drifted.

The shell is composed of aragonite, and has a surface layer resembling china, a middle pearly layer and a clear inner layer. As it grew it formed thirty or more chambers separated by pearly partitions called septa. A siphon connected the chambers and the connecting tube is called the siphuncle.

The living animal had an internal mantle, two large slit like eyes, ten or more tentacles, a radula or rasp like tongue, beaks and a funnel or hyponome that could inject or squirt out water in a forward or backward direction. An ink sac could be utilized to throw out a blinding ink cloud for defense. A hood could be closed to protect the mantle.

The chambered Nautilus of today is the only living relative of this ancient genera. The shapes of nautiloids varied greatly, and ornamentation varied from plain to shells with frills, grooves, spines and ridges.

Ammonoids apparently developed from straight shelled Ordovician nautiloids but did not become well established until late Devonian times. The Goniatites had compactly coiled smooth shells with angular zig-zags in their sutures. They lived for 120 million years and died out at the end of the Triassic.

The early Permian period saw the appearance of the Ammonites. The saddles and lobes of the sutures were divided and subdivided into complex shapes. The shells were often elaborate and grotesque. The siphuncle was located near the outside of the shell. At the end of the Triassic the highly specialized Ammonites died out leaving simpler forms. These again developed with more elaborate sutures. Some reverted to almost simple types. The highly ornamental types had frills, nodes, ribs, furrows and ridges.

Ammonoids seemed to like water 120 to 600 feet deep. They vanished suddenly at the end of the Cretaceous Period.

Bellemnites and squids have an internal chambered shell enclosed by soft muscular tissues. Many forms have a hard internal support structure made of calcium carbonate or protein, known as the pen or guard. The guards are sometimes the only part preserved. Bellemnites only lived in the Mississippian, Jurassic and Cretaceous Periods. They had six arms with hooks instead of suckers. Some grew to 5 or 8 feet in length. Cuttlefish, squids and octopus are still living today. Some squids grew to thirty feet, or more, in size.

**Bibliography:** Shimer & Shrock "Index Fossils of North America"

"The Audubon Society Field Guide to North American Fossils" by Ida Thompson.

"The Fossil Book", by Carroll Lane Fenton & Mildred Adams Fenton

"Fossils" by Cyril Walker & David Ward

FROM ; Serendipity Gems 2/94 via Rock Rustler's News

## EGGSHELL GEODES

Don't throw those eggshells away! If prepared properly, you can make your own geodes.

First make sure there are no cracks in the eggshell halves. There's a thin skin on the inside of the shells that needs to be removed or the crystals will not attach themselves to the shell.

Mineral crystals grow out of solutions. Your mineral crystals will grow in a matter of days. But first you must mix the solution. Start with salt. Dissolved the salt in about 1/2 cup of warm water until you can dissolve no more. You are making a "super-saturated" solution. Add some food coloring to the solution.

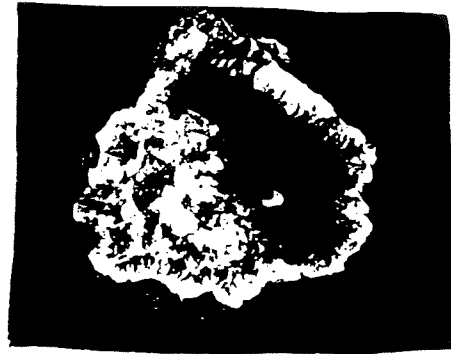
Fill the bottom of your eggshell halves with the water solution, then drop in a few extra grains of salt into the shells for "seed" crystals. Set the eggshells aside until the solutions have evaporated. Note how and where the crystals grew in your geodes. What crystal shape do you see? Is the color what you expected?

Now examine some grains of salt with a hand lens (cubic) and the crystals in the geodes.

Try other super-saturated solutions to make new geodes using sugar, alum, Epsom salts etc.

From Anna Domitrovic - TALK TOWN 1/94 via G.I. Drifter 5/95 to us via PEBBLE PUSHER.

John Boland, editor of Pebble Pusher, suggests you try the above with a porous rock or chunk of coal (briquet) setting in a saucer. Spoon the solution over the object each time it dries out and watch large crystal growths cover the surface.



## Archaeology Field Schools



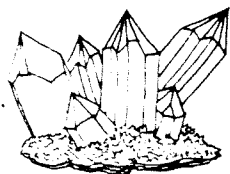
The Office of State Archaeology has received a grant from the Iowa Science Foundation to conduct Field Schools at the Wickiup Hill Natural Area this fall. These field schools are open to anyone interested in learning about archaeology and research techniques. Participants will assist the site archaeologist with current research at the site.

Three weekend field schools will take place. The dates are October 14 & 15, October 21 & 22 and November 4 & 5. Participants must attend both days of the weekend they choose. Attend all three weekends if you like. Credit for the Iowa Archaeology Society's field certification can be received. Cost for the workshops is \$15.00 per day which includes lunch. All participants must register by calling the Office of State Archaeology at (319)335-2389.



## CRYSTALS YOU CAN EAT

Bring 1 cup of water to a boil in a saucepan. Turn off the heat. Add 1 cup of sugar. Stir until it is dissolved. Let it cool and pour solution into a tall glass. Tie a clean string to a pencil and hang the string in the glass. Store in a cool place. In a few days crystals will be forming on the sides of the glass. In a week to ten days crystals will have formed on the string. Look at them through a magnifying glass. THEN EAT THEM. via ESCOMO, 2/84, to us via ACHATES 9/95

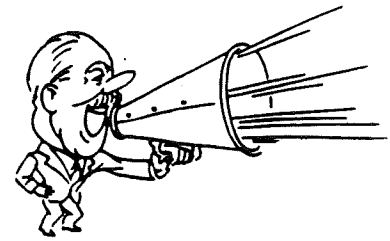


## LOUD &amp; CLEAR

by GEORGE LOUD, Chair, Conservation &amp; Legislation

While my sense is that the regulatory tide is still running against us, a number of recent events are very encouraging. Consider the following:

-Responding to correspondence from **Jon Spunaugle** (President, ALAA) and me, the Arizona State Office of the BLM has agreed to change their regulations governing mineral collecting in the Muggins Mountains Wilderness Area to allow for the use of rock hammers (prospector picks). The Muggins Mountain Wilderness Management Plan specifically allows mineral collecting or



rockhounding as an activity within the wilderness. Accordingly, if collecting in the Muggins Mountains Wilderness Area feel free to crack a rock to see what is inside.

However, remember that you are in a wilderness area and that creation of any significant surface disturbance is illegal. Use of shovels and any prying tool that disturbs the surface "in any significant way" is specifically prohibited. The same would be true for any wilderness area where rockhounding is permitted. I wish to thank **Dean Richardson** of the Utah Federation for bringing the problem with the Muggins Mountains Wilderness Area rules to our attention (where are the Arizona collectors?)

In connection with the above, the Arizona State Office of the BLM has requested the help of the AFMS in composing educational materials to be distributed to collectors on land administered by the BLM. Please send any suggestions you may have to me at the address below.

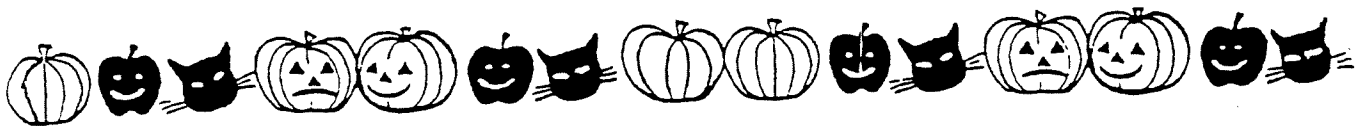
At the AFMS convention in Boise, Idaho, **Mary Andersen** (CFMS President), reported that the BLM in California has requested that the CfMS submit a nomination to the Advisory Boards for each of their Susanville, Ukeah and Bakersfield offices. A nomination to the California Desert District Advisory Committee was also requested.

**Don and Betty Eastman** and other Wyoming rockhounds have succeeded in reaching agreement with the Rock Springs Wyoming District Office of the BLM regarding rules for collection on BLM lands in the Rock Springs District. **Jon Spunaugle** reports having received numerous complaints from rockhounds of harassment by BLM rangers about collecting petrified wood in Wyoming. Hopefully, the problem has been successfully resolved.

Approximately one year ago, responding to more than 1,000 letters from rockhounds, the USFS agreed to change the new language proposed for 36 CFR parts 261 and 262. This will clarify that the collection of rocks and minerals without a permit is permissible in national forests, if such collecting is limited to non-commercial or hobby purposes.

Hopefully, we can build on the foregoing to establish a more cooperative relationship with government agencies that manage the public lands. As Blue Ribbon President **Don Amador** writes in the July 1995 issue of the Blue Ribbon magazine, "It behooves us to be thankful for the many dedicated and service minded rangers and officers in the USPS, BLM and our state land agencies." Please remember your responsibility in this area - obey the law. An incident or two of collector greed could undo everything we have accomplished within the last year or so.

via the AFMS Newsletter, September 1995





**LCFC**

Linn County Environmental Council  
1890 County Home Road  
Marion, IA 52302  
(319)398-3505

May 24, 1995

Dale Stout  
Cedar Valley Rock & Mineral  
2237 Meadowbrook Drive SE  
Cedar Rapids, IA 52403

Subject: Cedar Valley Rock & Mineral Club Donation

Dear Mr. Stout:

Thank you for your recent donation to the Connections program on behalf of the Cedar Valley Rock and Mineral Club. The \$100 your club contributed to the continuation of this unique program is very important to the ongoing success of this initiative. We appreciate the financial support as well as the club's assistance in advertising the programs. Please convey our appreciation to your members for their commitment to this educational activity.

The most recent program presented by the International Wolf Center was an outstanding success. We had nearly 300 people in attendance at the public presentation. They were treated to a very interesting and informative presentation concerning the wolf in North America. In addition to the public Kirkwood presentation, over 900 students were able to attend presentations at various local schools. We are very pleased by the response and enthusiasm the Connections program has generated. We hope you share our enthusiasm and believe your contributions are well spent.

Very truly yours,

*Dennis E. Goemaat*

Dennis E. Goemaat, member  
Connections Committee

Committee Members: Gail Barels, Neil Bernstein, Duane Carr, Bill Desmarais, Shirley Dietrich,  
Dennis Goemaat, Doug Miller, Rich Patterson, Joe Wilkinson, Miriam Woods

June 8, 1995

**Cornell College**  
Established in 1827

Cedar Valley Rock & Mineral Society  
Dale Stout  
2237 Meadowbrook Drive SE  
Cedar Rapids, IA 52403

Dear Dale

This is a rather belated thank you from the Cornell geology department for your generous contribution to send Cornell geology students to field camp. This year we have two winners: Tawnya Eberhart, a junior from Des Moines, and Eric Roberts, a junior from Georgia. Tawnya is also an art major, with interests in photography, lapidary work and jewelry design. She will be attending Eastern Illinois University's camp in South Dakota, while Eric will be attending Texas Tech's camp in Colorado.

Tawnya and Eric know that they are expected to present reports back to you next year, and I think they'll do well. Thank you for patiently listening to Marcus Minefee's report last year. Even though I pointed out to him that you were most interested in hearing about his own experiences, he felt he had to present a lot of detail about the geology of Maine. Marcus was very anxious about the presentation, but it was a good learning experience for him. And field camp itself did wonders for his self-confidence. Thanks again for your continued support.

Sincerely,

*Peter*

Peter J. Thompson

DEPARTMENT OF GEOLOGY  
600 East Street West  
Marion, Vermont, USA 52302-1008  
(319) 398-1000



**Who are the friends of the Linn County Conservation Board?**

The "Friends" are representatives of local businesses, corporations, organizations and individuals with an interest in improving the quality of life in the Linn County community. To accomplish this, the "Friends" work with the Linn County Conservation Board to support and enhance the Board's efforts. The Friends have a strong interest in promoting partnerships which link resources of governmental agencies with local businesses and organizations to improve the recreational opportunities available to residents.

**The Friends Mission**

*To support the Linn County Conservation Board's park, outdoor recreation and education programs. To cultivate public awareness, appreciation, understanding and involvement in the programs through financial assistance and other efforts.*

**What are the Friends doing?**

The immediate emphasis is on developing educational and recreational facilities at the Wickup Hill Outdoor Learning Area at the Cedar River Greenbelt. The Greenbelt is a corridor of publicly owned land adjoining the Cedar River and offers outstanding potential as a community asset and Eastern Iowa showpiece. The Outdoor Learning Area will provide Greenbelt access to people for education and recreation uses.

**How can I help make the Outdoor Learning Area a reality?**

Donations are needed to complete the trails and support facilities at the Outdoor Learning Area in the Cedar River Greenbelt. Donations of any size are encouraged and appreciated. Donations may be made as a single payment or a commitment can be made to spread payments over a number of years. We hope you can participate with us!

**What will the Outdoor Learning Area offer to the community?**

The Wickup Hill Outdoor Learning Area offers a variety of opportunities in a relatively small area. The educational trails will provide educators, youth leaders and families with resources to better educate future citizens about the importance of natural areas and our natural resources. In addition, the area will serve as an exceptional place to hike, view wildlife, bird watch, cross-country ski and just enjoy the outdoors. In addition, the Greenbelt provides access to the Cedar River for water-related recreation.

**Does the Greenbelt serve any other purposes?**

Protection of the river corridor is vital to the Cedar Rapids community. The wetlands found in this corridor serve as a buffer and pre-filter to the drinking water supply while protecting it from contamination. In short, protecting the Cedar River Greenbelt demonstrates that as a community we are committed to maintaining and enhancing our quality of life today and for the benefit of future residents.

**When will the project begin?**

The project is already underway. The parking area is already in place. The educational trails and support facilities will be added over the next few years. Plans are to add one trail each year until a total of five educational trails are completed.

**How much of my donation goes directly to work to improve the community?**

100%. The Friends serve as volunteers without pay.

**Is my gift tax deductible?**

Yes. The Friends have received determination from the IRS that gifts to support the Friends' mission are tax deductible for federal tax purposes.

**Are there other ways I can help?**

The Friends are involved in two efforts. The first is the current project, the Outdoor Learning Area. The other effort is a long-term endowment to provide funds for future efforts and for maintenance of completed projects.

**How can I best get involved in contributing to the endowment?**

The future ability to provide quality opportunities and a healthy environment depend on efforts today. There are numerous ways to help provide a bright future for citizens of our community. The endowment can be included in your will as a way to make a lasting contribution to the quality of life in Linn County. Other ways to help include: annual donations; year-end gifts; donation of appreciated stocks or property; purchase of life insurance or annuities to provide a future gift; establishment of a charitable remainder trust of other options to fit your circumstances. Again, any size of donation is helpful. We suggest you consult your attorney to determine which option is most beneficial to your situation.

**Here's your chance to be a part of this effort:**

Yes - I want to help improve the quality of life and the environment in Linn County. My donation is enclosed or pledged as indicated on the form at right.

I am interested in the Friends efforts and would like to know more about the Greenbelt project.

I am interested in learning more about a gift to the endowment fund. Please contact me.

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Phone # (if contact requested) \_\_\_\_\_  
 Amount of donation \_\_\_\_\_  
 Pledge of \$ \_\_\_\_\_ per year for \_\_\_\_\_ years  
 I request my donation go toward (circle one)  
 Greenbelt Project \_\_\_\_\_  
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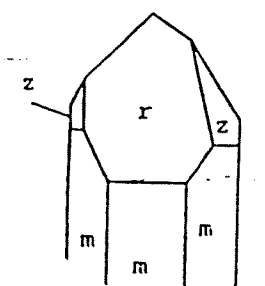
CRYSTAL FACES

Based on DOODLINGS ABOUT QUARTZ by Paul Seel p.p. AFMS

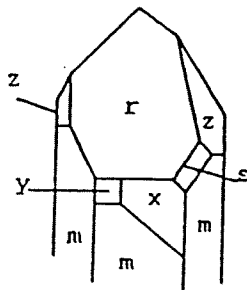
This article first appeared in the April 1982 ROCKHOUND GAZETTE

The following edited version comes from the February 1994 OSAGE HILLS GEMS

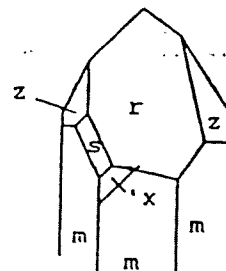
- \* m - the prism face - usually striated
- \* r - the primary or positive (+) rhombohedron (bounded by 6 rhombic planes) - often more brilliant than the negative (-) rhombohedron
- \* z - the negative (-) rhombohedron - generally smaller and often less brilliant than the positive rhombohedron
- \* s - the trigonal pyramid face - varies in size from very small to large - is a parallelogram - if striated it points to the z face - limit 3 on an end
- \* u - a secondary trigonal trapezohedron
- \* x - the trigonal trapezohedron if on the right side
- \* 'x- (say prime x) - the trigonal trapezohedron if on the left side
- \* y - secondary positive rhombohedron - similar to r except steeper with higher indices
- \* c - basal pinacoid - flat top, 90 degrees to axis - rarest of all



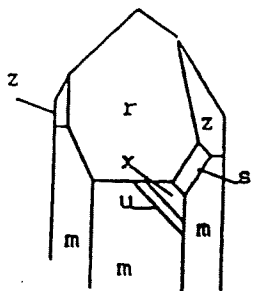
most common form  
<left right>



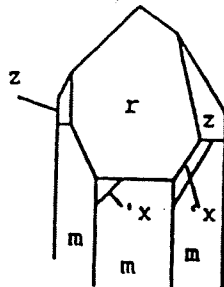
right hand crystal  
with x, s, & y



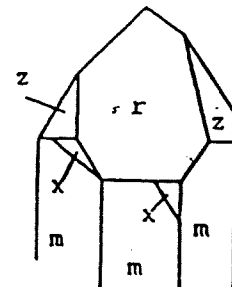
left-handed  
'x on left



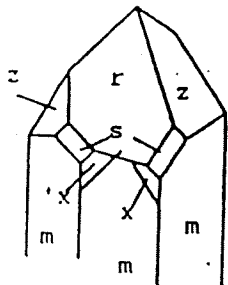
right hand crystal  
with 2 trigonal  
trapezohedrons



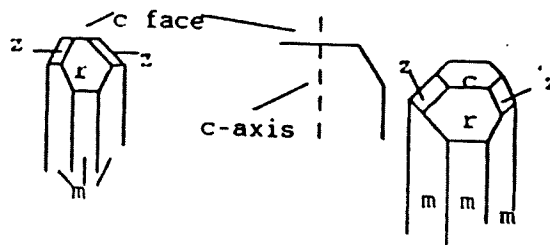
Dauphine twin  
left- hand



Dauphine Twin  
right hand



Brazil twin  
x & 'x same face



The rare c face is perpendicular  
to the c-axis

via T-TOWN ROCKHOUND 9/94

via THE TULLY 10/94

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OCTOBER 15 FIELD TRIP!  
SEE PAGE 1 FOR INFORMATION