

# DVESScapades

*escapades: interesting, stimulating, exciting activities and adventures*



## Delaware Valley Earth Science Society Newsletter Welcome Back September 10, 2008



**\*\*\* NOTE \*\*\* NEW MEETING ROOM AND  
BUILDING**

**September meeting *ALERT***

**ROAD CLOSURES AND NEW LOCATION**

### RT. 322 TO ROWAN UNIV. CLOSED

Allow plenty of time to get to the meeting on September 10, since the main access road, Rt. 322, is closed on **both** ends of the campus from Main Street (one block from Delsea Drive, Rt. 47) to Heston Rd. **AND** the Rt. 322 Exit from Rt. 55 is also closed **AND** Woodbury-Glassboro Rd., Rt. 553, is closed from Pitman to Glassboro.

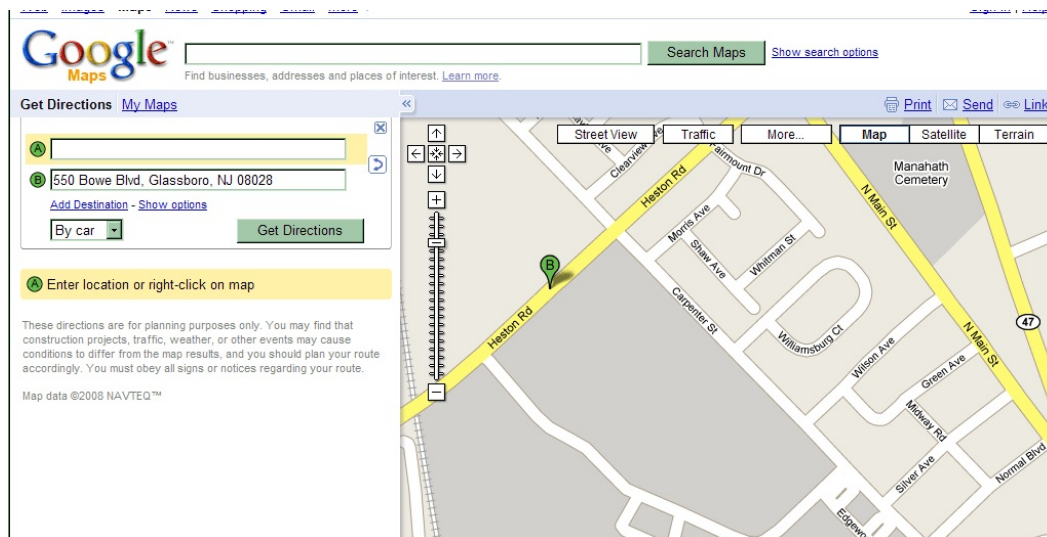
Our new location: Robinson Hall, Room 211 situated between Wilson Hall and the Esbjornson gym; use GoogleMaps or MapQuest to get from your location to Glassboro High School, 550 Bowe Blvd., Glassboro 08028.

As you pass the high school (headed West), the entrance to the college will be the next Left turn (BEFORE you cross the railroad tracks); see the map below.

<http://maps.google.com/maps?hl=en&ie=UTF-8&dq=glassboro+high+school+nj&daddr=550+Bowe+Blvd,+Glassboro,+NJ+08028&geocode=2130213661213430061,39.714860,-75.122127&ll=39.714860,-75.122127&iwstate1=dir:to&iwloc=A&f=d>

This link will take you to a map of Glassboro which looks like this:

Pass the Engineering Bldg. and Wilson Hall (where we met last semester) and turn right into the loop in front of Robinson. There is handicap parking all around the loop.



Robinson is a rectangular building with a concrete front, brick to the left and right of center. There is a yellow pole with the number 35 and a green light in front of the building near the entrance, and past that is a Rowan sign reading "Robinson Hall"; our meeting room is actually above the lobby entrance.

Upon entering the building, turn left and walk past the stairs to the end of the corridor; turn right and the elevator will be on your right. Go up to the 2<sup>nd</sup> floor. Turn left out of the elevator and left again at the end of the corridor. Go past the doors that lead to the stairs and Rm. 211 will be the 2<sup>nd</sup> room on the right.

Program: "What you-all did this summer" presented by YOU our members

**President's Message - by AnnLynne Benson, DVESS President and EFMLS Director**  
**CLUB PARTNERING**

For many years DVESS members have enjoyed friendly relationships with members of the Lower Bucks club (Rock and Mineral Club of Lower Bucks County) and indeed many of us have belonged, or do belong, to both clubs.

Under the guidance and blessing of Eastern Federation Regional Vice President Michael Kessler, DVESS and Lower Bucks are partnering for the mutual benefit of both clubs. This began with DVESS member Mel LeCompte joining Lower Bucks as lead teacher of their Kids Corner Junior Rockhounds, which employs the American Federation Merit Badge Program.

Their meetings are easily accessible from I-95 or the Burlington-Bristol Bridge. Look for announcements of Speakers and Field Trips sponsored by Lower Bucks and expect to see some of their members participating in our functions, as well.

**Annual picnic NOT rained out**

Despite what you may have heard, the annual picnic was a success. Hordes of members, their families and some neighbors joined the festivities, held for the first time, in Gerald's garage. There we sat and chatted, cooked and ate, enjoyed a lively mineral, fossil, shell and book auction, ate, joked and laughed, ate and watched a wonderful

lighting storm and large drop, torrential rain cascade over the roof above.

Though member turnout was a little light this year, we again thank the Feigan's for allowing us the use of their facilities. We thank also, Mel for his cooking prowess, etc. Oh, and it cleared up nicely at the end of the day so Ann's grandsons did go for a dip in the pool.

**Programs;**

**September's program**, as always, will be "What you-all did this summer" by the ever captivating YOU. Members will show their finds, maybe get them identified and boast and brag about where they went and How many rocks their wives **let** them bring home.

**Oct.** is still in the planning stages

**November** will feature past President Dr. Phillip Betancourt who will present his new Tsumeb lecture.

**Banquet Time** by Gary W.

Mark your calendars for Sunday October 19<sup>th</sup>, 2 pm to 6 pm, for our annual banquet. We will be holding it, as we did last year, at Vitarelli's Restaurant, 1250 Kings Hwy N, Cherry Hill, NJ (at Tampa Ave., set back from

the road); near the library Yes, we will again be talking rocks and eating. We should stick to what we are good at. Just don't talk eating and eat rocks. I am attempting to get a live speaker confirmed but as an alternative I have a video tape, narrated by Bob Jones,

on Russian Gem Treasures. If you go over there frequently then you can miss this. Otherwise come out and see a free program, get free door prizes, bid on some auction items, talk rocks and EAT. Cost for members and guests, will be \$15.00, children under 10 are \$7.50. The buffet menu includes Caesar salad, Baked cheese

lasagna, Steamed broccoli, roasted red parsley potatoes, Chicken cacciatore and Hot roast beef au jus, Rolls, coffee, tea, soda. We will be bringing desserts. Special dietary needs can be arranged, please advise.

(NOTE: the **cost** of the banquet is underwritten by DVESS). Sign up online at [www.whoscoming.com/dvess](http://www.whoscoming.com/dvess) or by calling AnnLynne Benson 856-783-0969.

The following 2 articles are reprinted from the AFMS Newsletter - September, 2008 to pique interest

### Rocks in a Box Challenge by Joe Barreca

The Panorama Gem and Mineral Club of Kettle Falls, Washington is ready. We have our rocks together!! Well alright, not all of our rocks, but a pretty good sample. Our collection includes crystals, metals, fossils, opal, real gold and more. Many of our samples are fluorescent under UV light. All of them are good examples of what you can expect to find in our area, Northeast Washington.

Our collection comes with it's own guide book, a collection of stories with maps and GPS positions for the rocks in this box. The box itself is a fairly standard storage box for tied flies that we bought at Walmart\*. It is 11"x7"x1.75" and has 18 compartments.

So, the challenge is: "we want to trade these boxes for similar collections of sample rocks that other clubs find on their field trips." It would be ideal if other clubs could provide a guide such as ours. But, we will settle for a key to what is in the collection that includes the name of the mineral, a

location where it can be found, ( GPS coordinates if possible) chemical formulas where important, notes about its properties, value, abundance, and kudos to those who contributed samples. We can supply boxes if helpful thru this exchange we hope to build a collection of collections. It will be exciting to see what other clubs are finding, and especially nice in this era of high fuel costs not to be burning too much gas in the process. Of course, this kind of thing inevitably leads to field trips, visits, contests, displays at rock shows, etc. so, we can't promise that this idea will *stop global warming*. But, we can promise that it will be fun.

If your club is up to the challenge, contact

Joe Barreca  
Panorama Gem and Mineral Club  
2109 Hwy 25 South  
Kettle Falls, WA 99141  
(509) 738-6155  
<[Joe.Barreca@gmail.com](mailto:Joe.Barreca@gmail.com)>

## WORDS OF CAUTION

By

**John M. Wright, RPG**

**AFMS Conservation & Legislation Chairman  
HR 554 Resurrected Again!**

The Paleontological Resources Preservation Act, HR554, has once again this year been resurrected, reviewed, and approved by the Agriculture Committee. It is now currently under review by the House Judiciary Committee and expected to clear that committee by July 18, 2008. This bill is on a "fast track" for passage and will most likely be voted on by the House of Representatives shortly after their return from summer recess

which means September or October unless there is some unforeseen delay. I fully expect it to be quickly passed by voice vote, or quietly tacked onto some other major piece of legislation. It appears that a compromise has also been reached for Senate approval. While you may not agree with my assessment of this bill, it is important that we let all our members know that it is back on the table so to speak and hopefully they will take appropriate action.

I want to emphatically remind you again, this is a dangerous piece of legislation that is going to hurt a lot of innocent people. The bill is so vague and open to interpretation that you can be arrested, have your vehicle impounded, and

be tried for driving on a federal highway with a small rock wedged in the tread of your tires. As I said before, there is no requirement for the arresting officer to be knowledgeable regarding fossils or rocks, the burden of proof is your problem. I wonder what happened to innocent until proven guilty. Does the gravel in your driveway contain fossils? Your neighbor can turn you in for a nice reward. Secret “**Area 51**” type sites for paleontologist; sounds ridiculous, but unfortunately this bill authorizes it.

Who is going to benefit from this bill? A few inconsiderate paranoid college professors and museum curators that seriously lack the competence to compete in a free market society. Actually, this group is really all about money in the form of job security, grants, books, articles, TV specials, and speaking fees. The fact that more than 90% of the major fossil discoveries are made by amateurs causes symptoms suffered by these “professionals” very similar to a severe case of hemorrhoids.

“We the people” according to the Constitution own the federal lands and support them with our tax dollars, so why should a small special interest group be given exclusive rights to our lands? The justification used by paleontologist is to preserve rare fossils for future generations, but aren’t these the same scholars that warn us that the catastrophic circumstances that led to the demise of the dinosaurs and many other species in the past is going to happen again. They say “it’s not a matter of if, but when,” so according to their own philosophy the prospects for any future generations are not very good.

They say that rockhounds (informed amateurs in their vernacular) destroy sites and remove critical evidence needed by the scientific community. Well, I recently spent several weeks reviewing paleontological articles and publications plus numerous other well known scientific publications covering a span of about 50 years and while I’m sure there must be many references to cleaning up excavation sites, I did not find any. However, I easily found “hundreds” of articles and references about

leaving a site “**as good as or better than found**” in the American Federation of Mineralogical Societies’ monthly Newsletters, the seven area Federations of Mineralogical Societies’ monthly newsletters, and the numerous local Gem & Mineral Societies’ monthly bulletins. It sure seems to me like rockhounds (whoops – informed amateurs) are a little more concerned about conservation and protecting the environment than the scientific community.

Once the scholars and curators acquire “our” fossils from “our” lands, they will be tucked away in storage areas at universities supported by “our” tax dollars, to be studied by students who we as parents “pay” tuitions for, and taught by professors whose salaries are paid by “our” dollars and tuition fees. The museums built with “our” tax dollars and “our” donations will have experts whose salaries are paid by “our” taxes and donations prepare the fossils “owned by us” for display so “we the public” can see them for a “fee.” Talk about a stacked deck!

A lot of politicians have benefitted by riding on the environmental bandwagon, but with the price of gasoline skyrocketing, travel, food, utilities, building materials, and almost everything else going up astronomically, being “Green” is becoming more of a political liability than an asset. Someday, they may even come to the realization that people who spend their lives studying petrified bones and dinosaur poop don’t add a lot to the economy.

Another important product of this legislation will be to further enhance the black-market trade. It’s already a lucrative business and this bill will just increase the price of American fossils overseas. With people, merchandise, and tons of narcotics being smuggled freely across our porous borders, moving fossils out of the country shouldn’t pose much of a problem.

It is ironic, but we spend billions of dollars helping other nations gain independence, become democracies, and their people enjoy the benefits of freedom. Unfortunately, the same politicians that appropriate our tax dollars



for this noble purpose turn right around and help implement policies to accommodate special interest groups that place far more restrictions on our freedoms here at home.

Time is short to stop or change HR 554. About the only alternative we have left at this stage is to call our representatives and tell them how we feel about this bill. I know that many of you are leery when it comes to talking directly with dignitaries and that it may be difficult for you to contact your Representatives or Senators to talk with them in person. Most of the members of congress maintain offices in their districts and the staff members working for them at these offices are local people. If you call and talk with a member their staff, you will normally find them to be very friendly, courteous and easy to talk with because they want your vote and support. Most importantly, they pass information received from constituents on to their boss. If they get several calls, a red flag, so to speak, goes up indicating areas of importance. Often this is a better way to get the attention of your Representative as he or she wants and needs every vote to stay in office. Constituents usually are more influential than anyone else when dealing with legislators.

I might add a note of interest at this point: our club sends a courtesy copy of our monthly bulletin (which includes my AFMS & SFMS articles) to both our U.S. Senators and our Representative. We have been told that it is well received and appreciated by them.

I am also including a list of the Agriculture Committee members provided by Carolyn

Weinberger, Editor of the AFMS Newsletter. It would really help if you called or faxed them, particularly if you live in their congressional district.

(all the following names are hyperlinks, click on the name and you will go directly to that person's respective web site. Please help our hobby !!! )

### **Agriculture Committee Members:**

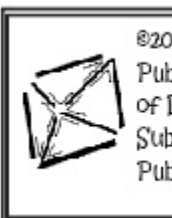
#### **Democrat Majority**

[Collin C. Peterson](#), MN, Chairman  
[Tim Holden](#), PA, Vice Chairman  
[Mike McIntyre](#), NC [Bob Etheridge](#), NC  
[Leonard L. Boswell](#), IA [Joe Baca](#), CA  
[Dennis A. Cardoza](#), CA, [David Scott](#), GA  
[Jim Marshall](#), GA  
[Stephanie Herseth Sandlin](#), SD  
[Henry Cuellar](#), TX [Jim Costa](#), CA  
[John T. Salazar](#), CO [Brad Ellsworth](#), IN  
[Nancy E. Boyda](#), KS [Zachary T. Space](#), OH  
[Timothy J. Walz](#), MN  
[Kirsten E. Gillibrand](#), NY [Steve Kagen](#), WI  
[Earl Pomeroy](#), ND [Lincoln Davis](#), TN  
[John Barrow](#), GA [Nick Lampson](#), TX  
[Joe Donnelly](#), IN [Tim Mahoney](#), FL

#### **Republican Minority**

[Bob Goodlatte](#), VA, Ranking Minority Member  
[Terry Everett](#), AL [Frank D. Lucas](#), OK  
[Jerry Moran](#), KS [Robin Hayes](#), NC  
[Timothy V. Johnson](#), IL [Sam Graves](#), MO  
[Mike Rogers](#), AL [Steve King](#), IA  
[Marilyn N. Musgrave](#), CO  
[Randy Neugebauer](#), TX  
[Charles W. Boustany, Jr.](#), LA  
[John R. "Randy" Kuhl](#), NY  
[Virginia Foxx](#), NC [K. Michael Conaway](#), TX  
[Jeff Fortenberry](#), NE [Jean Schmidt](#), OH  
[Adrian Smith](#), NE [Tim Walberg](#), MI  
[Robert E. Latta](#), OH

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## The Wayne County Gem & Mineral Club “The Mini Miners”



The Wayne County Gem & Mineral Club is in Newark, New York. They decided to call themselves “The Mini Miners.” The Mini Miners have been meeting together for four years now. They meet once a month, usually at a Club meeting, but they also go on field trips when the weather gets better. In May 2008 they went to Herkimer, New York to dig for beautiful Herkimer Diamonds (quartz crystals).

The club is led by Mrs. Heather Bornemann with a lot of help (especially for digs and trips) from Mr. Bill Chapman. For a number of years, Ms. Stephanie Mason has helped teach about minerals at the meetings. She recently graduated from the University of Rochester with a degree in Geology and is now starting a Doctoral degree in Geology! So smart!! One of the best parts of the Wayne County Mini Miners is that the kids always teach each other. Our leader-in-training is Alex Bornemann. Alex knows a lot about minerals and does very well sharing his knowledge with his friends. At our last club meeting, Stephanie and Alex did a program on streak.

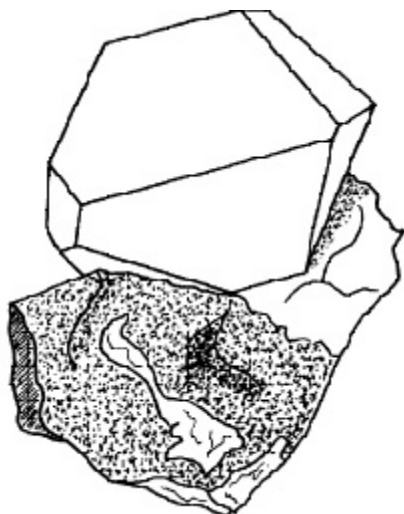


(Right: Brennan B. is working very hard on the streak test. Brennan has been with the Mini Miners from the very beginning.)



Hey, Mini Miners, This month begins a connection with the Mineral of the Month Club. Each month, the “Mineral of the Month” page or pages will highlight the mineral species offered by the Mineral of the Month Club. This month the Mineral of the Month is Zircon. You have been learning about the physical properties of minerals over the past few months.

## Zircon



Formula:  $\text{ZrSiO}_4$  (zirconium silicate)

Hardness: 7.5

Specific Gravity: 4.5

Luster: Adamantine (like a diamond)

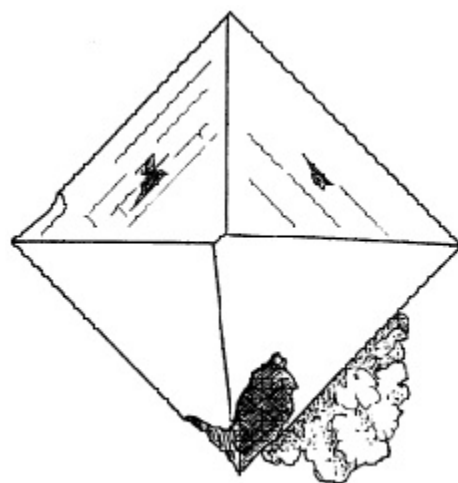
Fracture: Conchoidal (shell-like)

Cleavage: 2, but they are poor and hard to see.

Color(s): Colorless, brown, gray, green, red, blue, purple (violet).

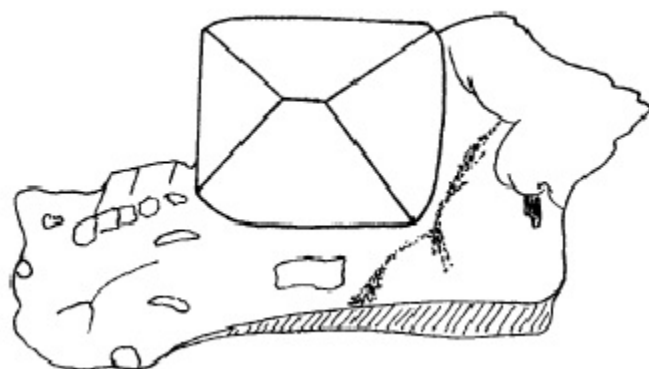
Crystal System: Tetragonal (notice the tetragonal - 4-sided - shapes of the crystal to the right and the one below.

The crystal to the left is more complicated. Zircon crystals almost always contain small amounts of



some radioactive elements. Zircon is the most important source of the element hafnium. (It is also a source of the radioactive element thorium). Hafnium is used to make metals that are known as superalloys. An "alloy" is a mixture of two or more metals. A "superalloy" is a special alloy that is designed to stand up to very high temperatures and pressures without melting, bending or otherwise falling apart.

Colorful, clear zircon crystals are cut as gemstones and set in jewelry. Zircon gems can even change color (so be careful). Brown zircon turns a pretty, deep blue when it is heated. When a heated zircon sits in the sunlight, it turns brown again! Large zircon crystals have been found in Canada, Brazil, Madagascar and Australia. (Can you find these countries on a globe or in an atlas?) In the United States it has been found near Colorado Springs, Colorado and in beach sands in Florida. Most zircon is found not as large crystals but as grains. Because zircon grains are heavy (they have a high specific gravity) they collect on beaches and in rivers



### Zircon Crystal, a Tetragonal Pyramid

The name tetragonal comes from the Greek word tetra which means four.

When long zircon crystals are broken in half, you can see a four-sided square.

You can also see the pattern of four when you look at a tetragonal pyramid, like the crystal model printed below.

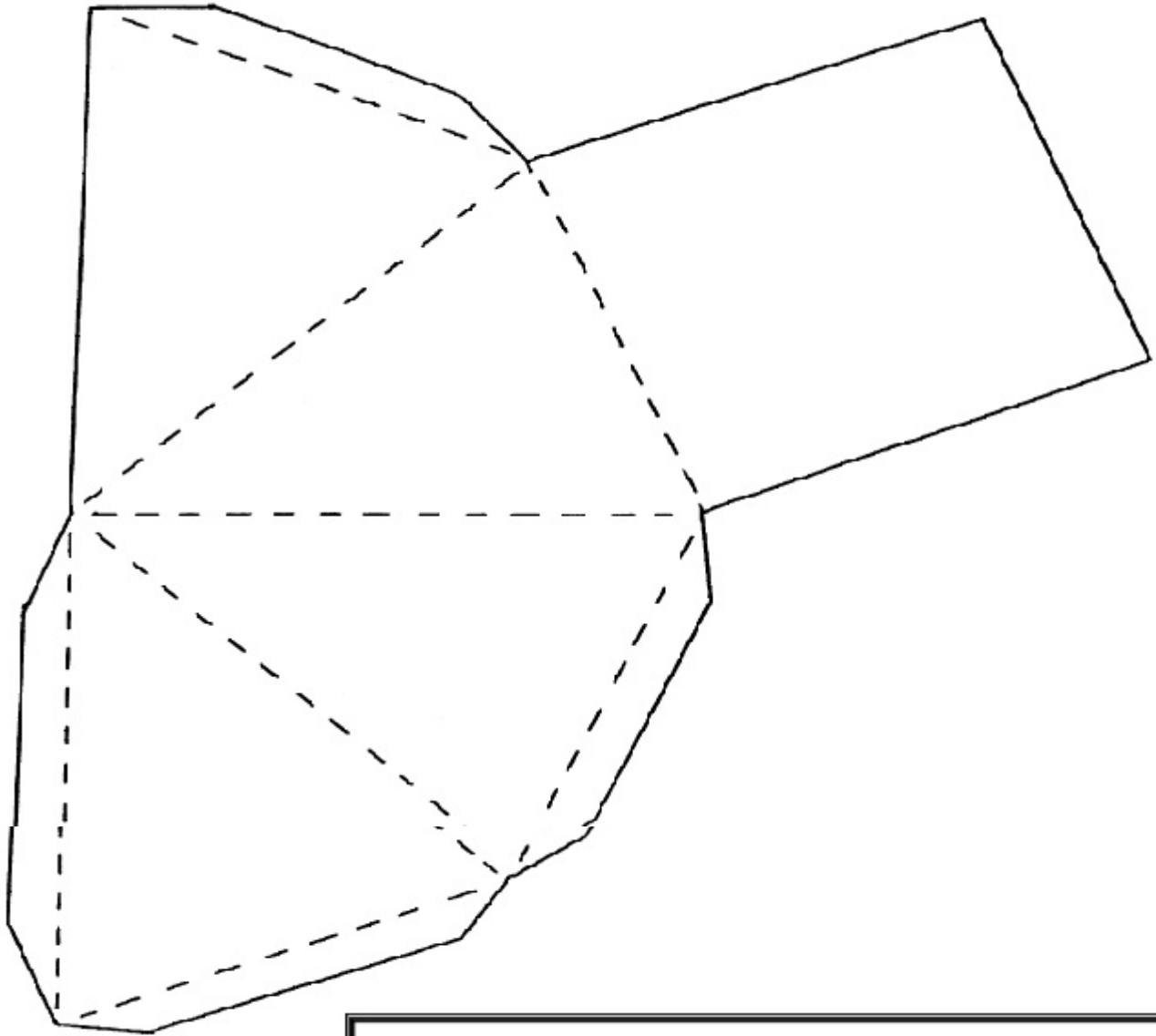
Count the four faces. Other minerals that also crystallize in the tetragonal crystal system are rutile, cassiterite, apophyllite, wulfenite and scheelite.

Cut out the crystal model below on the solid lines. Fold on the dotted lines. You will find it easiest to tape the small tabs to their proper faces to hold the crystal together.

You have permission to make copies of this crystal model onto heavier paper (like card stock). Heavier paper folds and holds its shape better than the thinner paper in this issue of Mini Miners.



This crystal model is called a tetragonal pyramid.



## MINERAL OF THE MONTH CLUB

Our names are Richard and Cheryl Sittinger and if you love minerals and learning about them, we'd like to invite you to join our Mineral of the Month Club! We have three levels of membership (Junior, Deluxe, and Platinum) to suit your needs.

Each month we send our Club members a wonderful mineral specimen, properly labeled with name and locality information, and a fascinating eight to ten page write-up that explains everything you want to know about its unique properties!

We have a Junior Membership for only \$7/month delivered (in the U.S.)! The specimens are smaller than our Deluxe and Platinum Memberships, but they are still the same high quality specimens that we provide to all of our customers.

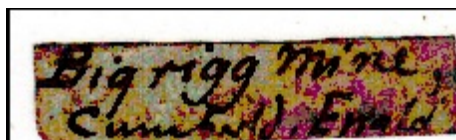
Please visit our website to see pictures of our specimens and to learn more about us and the Mineral of the Month Club

[www.mineralofthemonthclub.org](http://www.mineralofthemonthclub.org)



## Specimen Labels (DD article)

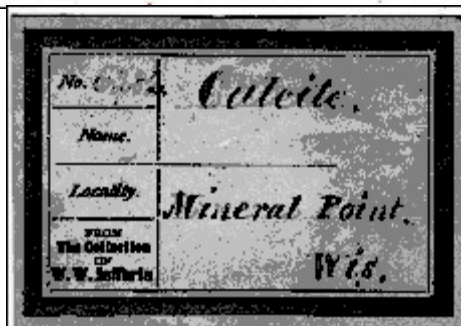
Every good collector has a label with every mineral specimen that she or he owns. The label must have the name of the mineral, the locality ("locality" is the name of the place from where the mineral was collected), and sometimes the specimen number. The locality information should be as accurate as possible. For example "Globe Mine, Bisbee, Arizona" is better than "Arizona." You get to make up the specimen number for yourself. The easiest way is to keep a list. Start and number 1 and every time you add a specimen to your collection, you record it as the next unused number on your list. Some mineral collectors like to have their name and the town in which they live on the label. Others just put their name. Here are some samples of mineral labels. Some are very fancy; others are very, very simple. Use a computer to create your own mineral labels!!



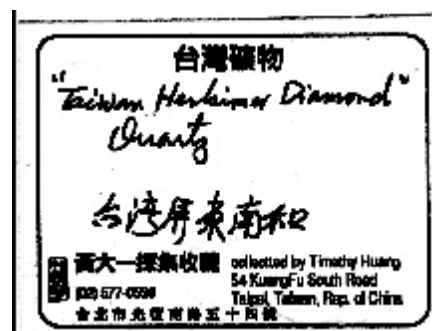
Left: Very small, handwritten label from Gustavus Hinrichs (late 1800's).



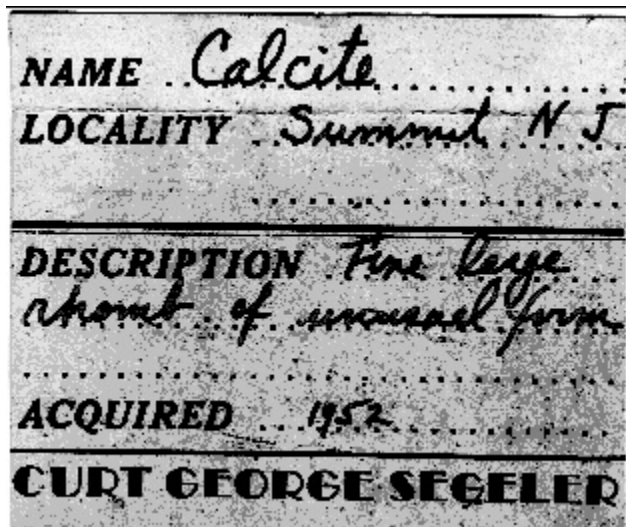
Right: Label including Name, Locality, Number and collector's name and home town. (Notice it is in Spanish)



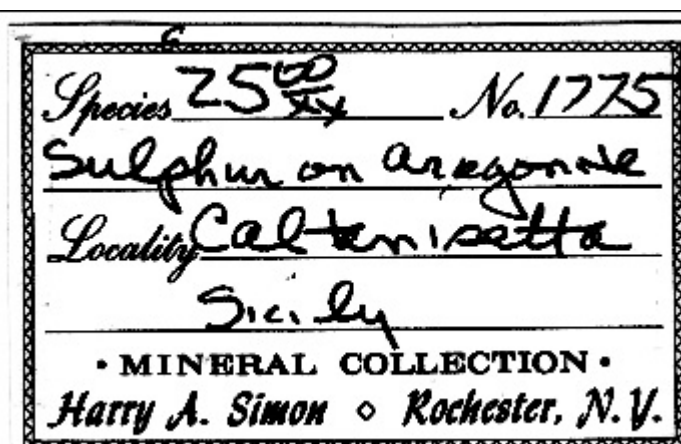
Left: Fancy label from the famous collection of W.W. Jeffers.



Right: Label from Timothy Huang, written in both English and Chinese. It includes his entire address.



Left: Larger label from the Curt Segeler collection. It also includes a description and the year the mineral was acquired.



Right: Another sample of a simple and attractive label that

includes mineral name ("species"), locality and the collector's name and home city.

Visit the OsoSoft website to download a FREE mineral label program. Here is the website address: <http://www.osomin.com/MINLABEL.HTM>.

This is a trustworthy and safe website for mineral collectors.

## June PUZZLES:

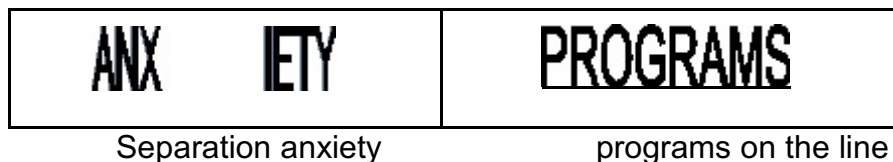
What day in June was the first video cassette recorder in 1975? 7<sup>th</sup>

What out of this world thing occurred on the 24<sup>th</sup> of this month that still has an effect on the US

The first report of a sighting of a flying saucer in 1947

When was the 1<sup>st</sup> Corvette in 1953 on the 30<sup>th</sup> \_\_\_\_ of June.

What day in June was the first Triple Crown winner in 1919? 29<sup>th</sup>



## UPCOMING SHOWS AND EVENTS

### NEW JERSEY STATE MUSEUM Sunday Science Lecture Series

The New Jersey State Museum is excited to offer the inaugural season of the Sunday Science Lecture Series, sponsored in part by the Friends of the New Jersey State Museum. Scholarly, yet family-friendly lectures will be presented in the Museum's Auditorium by some of the world's most distinguished and prominent researchers in the fields of paleontology, paleo-artistry, and archaeology.

Arrive early to tour the Fossil Mysteries exhibit in the Auditorium galleries and meet the Museum's paleontologists. Following each lecture, guests will have the opportunity to ask questions, share their own experiences and ideas, and meet the featured lecturer while enjoying light refreshments.

**Sept 13 - 14:** 43<sup>rd</sup> Annual Gem, Mineral & Jewelry Show, Central Pennsylvania Rock & Mineral Club in NEW LOCATION Eagle View Middle School, Mechanicsburg, PA

**Sept 20 - 21:** 44th Annual Atlantic Coast Gem, Mineral & Jewelry Show hosted by the Gem Cutters Guild of Baltimore. Howard Co. Fairgrounds, West Friendship, MD.

**Sept 24-28, 2008** National Gem, Jewelry, Mineral & Fossil Show & Convention Humble Civic Center, 8233 Will Clayton Parkway, Humble, TX 77338 Contacts: (281) 446-4140  
<http://www.amfed.org>

**DVESS MEETING LOCATION:** On the 2<sup>nd</sup> floor of Robinson Hall, Room 211 at Rowan University, off Rt 322. **See the info at the top of the newsletter**

## **MEMBERSHIP INFORMATION**

Regular members are entitled to participate in all DVESS activities. Sponsoring members are entitled to the same plus a specially chosen mineral specimen. Dues are renewable each year in January. Membership rates for the Society:

### **Regular Membership:**

\$15.00 for the 1<sup>st</sup> family member + \$5.00 for each additional family member

\$10.00 for the 1<sup>st</sup> Senior ( 65+ ) member + \$5.00 for each additional family member

\$10.00 for Rowan University Students with College ID

### **Sponsoring Memberships ( each additional family member - \$5.00 ):**

*"Silver"* \$50.00 for 1<sup>st</sup> family member - receive a Geode Specimen

*"Gold"* \$75.00 for 1<sup>st</sup> family member - receive a Native Gold Specimen

*"Platinum"* \$100 for 1<sup>st</sup> family member - receive a Premium Specimen

### **SOCIETY INFORMATION**

The **Delaware Valley Earth Science Society, Inc.**, ( DVESS ), a non-profit organization, was founded in 1956 and incorporated in the state of New Jersey in 1957. The Society:

- \* promotes interest , knowledge and the development of skills in the "earth sciences". These interests include mineralogy, paleontology, lapidary arts, archeology and local preservation.
- \* supports the conservation of natural resources, advocates the availability of collecting sites and maintains close contact with those in the academic field.
- \* is a member club of the Eastern Federation of Mineralogical and Lapidary Societies ( <http://www.AmFed.org/EFMLS> )

### **MEETINGS**

The Society meets the 2<sup>nd</sup> Wednesday of each month from September through June, at Rowan University, Robinson, Glassboro, New Jersey. At 7:30 PM members meet to socialize, view displays, sign the registry and receive a door-prize ticket, toward a specially chosen specimen. Meetings start promptly at 8:00 PM and include the evening's program followed by the monthly business meeting, concluding around 10:00 PM. Meetings are open to the general public.

Privilege to enter Rowan University facilities is limited to the night of the meeting between the hours of 7PM & 10PM under the direction of the University staff. Permission from the University staff is required to enter the school at any other time.

\*\*\*\*\* Editor's notes \*\*\*\*\*

I lost the September puzzle from Ed Loveland and did not have time to re-get-it before printing. We are off to a vacation/convention in Dallas Tx on 09/02/08, hope we survive Gustav.

**Anyone** with info for the newsletter please share with me. **You can be published!** Stuff you did in school, on a trip etc. see my info in the box at the end of this newsletter.

## AFMS CODE OF ETHICS

(American Federation of Mineralogical Societies)

- I will respect both private and public property and will do no collecting on privately owned land without the owner's permission.
- I will keep informed on all laws, regulations of rules governing collecting on public lands and will observe them.
- I will to the best of my ability, ascertain the boundary lines of property on which I plan to collect.
- I will use no firearms or blasting material in collecting areas.
- I will cause no willful damage to property of any kind - fences, signs, buildings.
- I will leave all gates as found.
- I will build fires in designated or safe places only and will be certain they are completely extinguished before leaving the area.
- I will discard no burning material - matches, cigarettes, etc.
- I will fill all excavation holes which may be dangerous to livestock.
- I will not contaminate wells, creeks or other water supply.
- I will cause no willful damage to collecting material and will take home only what I can reasonably use.
- I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.
- I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.
- I will cooperate with field trip leaders and those in designated authority in all collecting areas.
- I will report to my club or Federation officers, Bureau of Land management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.
- I will appreciate and protect our heritage of natural resources.
- I will observe the "Golden Rule", will use "Good Outdoor Manners" and will at all times conduct myself in a manner which will add to the stature and Public "image" of rockhounds everywhere.

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# MINERAL STUFF

Here's a word search with all sorts of words about minerals and mineral collecting. How many can you find?

S	T	R	E	A	K	P	O	P	R	E	T	S	U	L
C	P	H	A	R	D	N	E	S	S	Z	I	L	E	M
E	M	E	I	S	O	M	E	T	R	I	C	B	L	O
P	O	R	C	L	E	A	V	A	G	E	A	F	F	W
T	N	U	D	I	G	A	L	S	K	L	C	V	O	Q
E	O	T	J	N	F	C	I	N	I	L	C	I	R	T
R	C	C	L	A	D	I	O	Y	R	T	O	B	M	H
X	L	A	E	K	U	F	C	H	A	N	N	A	U	E
L	I	R	M	P	A	O	F	G	J	L	E	I	L	V
A	N	F	A	S	L	S	U	O	R	B	I	F	A	I
T	I	B	N	O	I	M	E	R	A	A	U	S	T	S
S	C	I	R	A	P	R	W	E	S	M	V	I	T	S
Y	A	L	P	S	I	D	P	Y	R	A	M	I	D	A
R	T	E	T	R	A	G	O	N	A	L	B	Y	T	M
C	F	I	L	L	I	F	O	R	M	H	O	L	L	Y

**Find These Words** (left to right, right to left, down, up or diagonally):

Specific Gravity	Fracture	Streak	Hardness	Cleavage	Luster	Color
Fibrous	Isometric	Tetragonal	Monoclinic	Triclinic	Botryoidal	Crystal
Massive	Prism	Filliform	Scepter	List Display	Dig	Label
		Formula	Pyramid			

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