

DVESScapades

escapades: interesting, stimulating, exciting activities and adventures



Delaware Valley Earth Science Society Newsletter



Delaware Valley Earth Science Society, Inc. (DVESS)
P.O. Box 372 Maple Shade, N.J. 08052
DVESS Website : <http://www.dvess.org>

Meeting: August 10, 2011 Program: hands on Micro-mounting

President's Message - The July field trip to Indian Echo Caverns was lightly attended, but those of us who went had a great time. It's a nice cave with lots of formations, and even a pool. It was cool underground, which was a welcome diversion from the 100 degree heat of the day. Afterwards we went to Hershey, which is just a few miles up the road.

Be sure to come to August's meeting, which will be a hands-on workshop about micromounting. See you there! Photos attached PG. --Terry Wilson

Don't forget to bring interesting finds to the club, so we can all ooh and ahh over them. Each month feel free to show and tell anything you have acquired so we can all learn.

DVESS General Meeting Minutes By Grant Elliott,
Recording Secretary

Meeting was held at Centenary UM Church in Berlin,
NJ.

Programs:

Sept Our annual fantastic, members 'Show and Tell'.

Oct /Nov Lou Detofsky or Don Miller (Fossil elephants) will make presentations, depending on their health. Lou previously volunteered to give a presentation on "Geology of the

Caribbean".

Dec Xmas party.

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Summer – A Photo-Op Season This summer, your club will, no doubt, be having lots of field trips, a picnic, maybe a show, possibly youth activities and workshops all of which are perfect photo opportunities. Why not a Photographer at these



events? Could you save those priceless digital shots to be shared with your club newsletter or a poster of photos for our wall? PLEASE. . . . Questions? Contact me at decuzzic@comcast.net or 856-428-0621, THANKS!

For your travel pleasure, consider the following fun places to go...

August:

- 6-7: 41st Annual Mid-State Gem & Mineral Show sponsored by the Water-Oak Gem & Mineral Society. Mt. Merici School, 152 Western Ave; Waterville, ME.
- 19-21 Gem Miners Juilee, Mid Atlantic Gem and Mineral Association, Lebanon Expo Center, Route 72 and Rocherty Road. Friday 10:00 AM to 6:00 PM, Saturday 10:00 AM to 6:00 PM, Sunday 10:00 AM to 4:00 PM. For information call 301-565-0487.
- 27-28: 45th Annual Rock & Mineral Show sponsored by the St. Lawrence County Rock & Mineral Club. Madrid Community Park, Madrid, NY
- 27-28: 48th Annual Gem & Mineral Festival sponsored by the Capital Mineral Club. Everett Arena, Concord, NH

September:

- 10 – 12: 48th Annual Gem, Mineral & Fossil Show sponsored by the Northern Berkshire Mineral Club. American Legion Post #90, Rte 7; Pownal, VT.
- 17 – 18: 42th Annual Mid-Hudson Show – The Fossils of New York sponsored by the Mid Hudson Valley Gem & Mineral Society. Dutchess Co. Fairgrounds, Rt. 9, Rhinebeck, NY
- 17-18: 44th Annual Gem & Mineral Show sponsored by the Central Pennsylvania Rock & Mineral Club. Zembo Shrine, 2801 N 3rd St; Harrisburg, PA.
- 24-25: 47th Annual Atlantic Coast Gem, Mineral & Jewelry Show hosted by the Gem Cutters Guild of Baltimore, Howard County Fairgrounds, I-70 at MD Rt 32; West Friendship, MD
- Sept 30 – Oct 2: Desautels Micromount Symposium hosted by the Baltimore Mineral Society. MHA Conference Center, Elkridge MD.

October:

- 15-16: 38th Annual Gem, Mineral, Fossil & Jewelry Show & Sale sponsored by the Kanawha Rock & Gem Club. So. Charleston Community Center, So. Charleston, WV.
- 22 – 23: 42th Annual Rochester Gem, Mineral, Jewelry & Fossil Show sponsored by the Rochester Academy of Science Mineral Section and Rochester Lapidary Society. Monroe Co. Fair & Expo Center, Henrietta, NY.
- 29: Annual “Ultraviolation” Fluorescent Mineral Show sponsored by the Rock & Mineral Club of Lower Bucks County. First United Methodist Church, 840 Trenton Road, Fairless Hills, PA.

November:

- 5 - 6: 7th Annual Rock & Gem Show sponsored by the Penobscot Mineral & Lapidary Club. Brewer Auditorium, Brewer, ME.
- 19-20: 45th Annual Gem, Mineral, Jewelry, Bead & Fossil Show sponsored by the Gem & Mineral Society of the Palm Beaches. So. Florida Fairgrounds Expo Center East; West Palm Beach, FL.
- 25-27: 32nd Annual Roanoke Valley Mineral & Gem Show sponsored by the Roanoke Valley Mineral & Gem Society. Salem Civic Center, 1001 Roanoke Blvd; Salem, VA.



Fall 2011 Field Trips

FOSSIL HUNTING!

Saturday, October 1st, 2011 - Big Brook Preserve, Colts Neck, NJ

Sunday, October 16th, 2011 - Fossil Fern Locality, Saint Clair, PA

Find your own fossils on these guided trips to Saint Clair, PA and the Big Brook Preserve in Colts Neck, NJ with Rutgers University geologists. These sites are famous for their prolific marine (Big Brook) and terrestrial plant (Saint Clair) fossils.



RINGING ROCK PARK

Saturday, October 8th, 2011

Visit one of the mysteries of the geologic world with a trip to Ringing Rocks Park. We will explore the 7-acre site with Rutgers Geologists and enjoy the sounds of a real 'rock' concert!

*Registration for all field trips begins on 8/1/2011
Limited to 30 people / Please no unaccompanied minors
Visit the website for more information*

Late Nights at the Museum

Our popular series continues with new activities! Held the first Wednesday of each month, we have activity stations for children and adults alike from 4 pm – 8 pm.

- | | | |
|--|--------------------------|-----------|
| Wednesday, October 5 th , 2011 | <input type="checkbox"/> | Dinosaurs |
| Wednesday, November 2 nd , 2011 | <input type="checkbox"/> | Minerals |
| Wednesday, December 7 th , 2011 | <input type="checkbox"/> | Volcanoes |



Birthday Parties at the Museum



Celebrate your child's birthday with a party at the Rutgers Geology Museum! Party packages are available for groups up to 20 children. Reservations must be made at least one month in advance and are subject to availability. Check out our website for pricing and registration.

Also, check our website for the Fall 2011 Friends of the Museum meeting date and speaker announcement.
COMING SOON!

Interesting tid-bits

Like humans, animals need to protect themselves from the heat and sun too, while some use the sun to their advantage. Check out these COOL FACTS about our animals at Adventure Aquarium!

HIPPO SWEAT...INSTANT SUNSCREEN!

Did you know that hippos can stay in the hot sun all day without getting sunburn? The reason they can do this is because they produce a red-colored secretion from their glands called "hippo sweat". Hippo sweat contains tiny structures that scatter light, protecting the animals from sun burn.

PANT IT OUT...

Birds, like dogs and cats, pant to get rid of excess body heat. No I'm not talking about the article of clothing... panting is when you breath very quickly, letting the cooler air passing through the lungs and air sacs carry heat away from the body.

DIVE, DIVE, DIVE

Most people think that since fish are already in water, they don't need to work to stay cool. False. Fish and other marine life will often dive down to darker waters or seek out shady areas along the banks of lakes/ponds or in overhanging cliffs/rocky coastline to stay cooler.

NOW YOU SEE IT...NOW YOU DON'T!

Stingrays, as well as sharks and other marine life, are what is called counter shaded. Counter shading is when the upper side of an animal is dark, and the bottom side is lighter in color. This color variation helps camouflage the animal whether is it viewed from above or below.

For more health & wellness information or to learn how Horizon Blue Cross Blue Shield of New Jersey is *Making Healthcare Work* by offering affordable employer, individual, and family health care plans, visit www.HorizonBlue.com

Rhodochrosite (Greek "rhodo" for *rose* and "khros" for *color*), whose compound name is manganese carbonate, is found in ore veins and extremely large manganese deposits. It has a grainy texture, somewhat like brown sugar, and ranges in color from a dark rose color to light pink, gray, or brown. This variation in color, which many wire artists find intriguing, is due to the varying amounts of trace compounds in the rhodochrosite. These include iron, calcium, magnesium, zinc, and cobalt. Its luster ranges from a glass-like appearance to a somewhat pearly veneer. Rhodochrosite is an excellent addition to a jewelry collection because it is so visually stimulating, although it is quite soft, so handle it carefully. Its brilliant red color and iridescence stand out when wrapped or set in a white metal, such as sterling or Argentium®, or with white gemstones or clear Swarovski® crystals.

Rhodochrosite and Similar Stones

Rhodochrosite is a 3.5 to a 4 on Mohs scale, which makes it ideal for filing and reshaping, and has a specific gravity of 3.4 to 3.6. Because pure specimens of rhodochrosite that have that spectacular rose color are very rare, impure specimens with a lighter hue of pink are commonly used and are often confused with rhodonite. The stones are very similar because rhodonite and rhodochrosite are both manganese minerals, but rhodonite much more stable compound. One way to tell these gemstones apart is by their hardness: rhodonite is a 5.5 to a 6.5 on the Mohs scale, so it is much harder than rhodochrosite. Also, Rhodonite is an opaque "gem-rock", deep pink in color, pretty consistent in color, that usually has black manganese inclusions, either in streaks or Rhodonite rarely, if ever, has any white unless it is a specimen where rhodonite crystals have formed in quartz,

which is a great shelf piece, but contains many internal fractures that will most often splinter and crumble if the piece is cut on a saw. Most of the rhodochrosite on the market today has white or cream banding (the carbonate material) and resembles lace. Sometimes rhodochrosite can also have a few minuscule black, manganese inclusions, but they are not desirable to "professional" jewelry designers. As a carbonate manganese, rhodochrosite is a rather soft stone and should also be considered a "gem-rock." Rhodochrosite also has a unique cleavage; it peaks in three different directions, and there is distinct crystal twinning in most pure specimens (meaning that lines and grooves where the minerals have switched directions are quite clear). This makes the stone very hard to cut into a uniform shape, so rhodochrosite is rarely found in faceted jewelry unless cut by an experienced artisan.



Rhodochrosite was first discovered in the ore deposits of silver mines in Romania in 1813. Since then, it has been mined in Argentina, Japan, Peru, Russia, and South Africa. However, the most pure specimens (and the largest) of the mineral are found in the Sweet Home Mine near Alma, Colorado. Colorado named rhodochrosite its state mineral in 2002. The Denver Museum of Nature and Science now displays the world's largest single crystal of rhodochrosite, named the "Alma King" as a tribute to the mine it came from. Before it began to be mined for collectors and jewelry-makers, rhodochrosite was often thrown away, because its chemical composition makes it extremely destructive to the blending process in the mining of silver; the presence of rhodochrosite in silver is considered to be a great impurity. Most of the good quality rhodochrosite comes from South America: Rhodochrosite was found hiding in stalactites and stalagmites of ancient caves of Argentina. Stalactites and stalagmites are large rock structures that come up from the floor and hang down from the ceiling of caves, and are made up of calcium carbonate and lime deposits. No one knew the rhodochrosite was there until one of these broke apart, revealing an amazingly red core!

Rhodochrosite in Culture

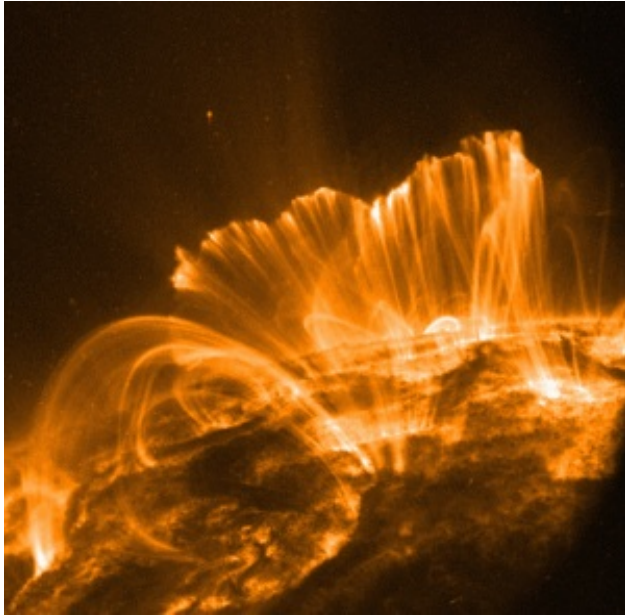
Like most gems, rhodochrosite is rich in cultural history. The Incas believed that rhodochrosite was the blood of their ancestors in solid form, so this rock is sometimes called "la Rosa Del Inca" or "the Inca Rose." The Incas wore these stones when facing enemies, believing that it would give them strength and peace of mind in times of conflict.

Because rhodochrosite is made up of manganese, it is very useful in many areas besides jewelry-making. In its base form, it can be used to supplement crops that are deficient of nutrients, can be added to ceramics to form a colorful glaze, and it is even used industrially to make concrete stains (think of those tall, rose-colored concrete walls you've seen surrounding residential areas). As a

healing stone, it is thought to heal the heart chakra, allowing a person to become more balanced, to forgive themselves and others, to trust, and to give and receive love.

Print Resources:

Eyewitness Handbooks' **Rocks and Minerals** by Chris Pellant, ISBN 1-56458-033-4
Peterson Field Guide to Rocks and Minerals by Frederick H. Pough, ISBN-0-395-91096-X
Smithsonian **Rock and Gem** by Ronald Louis Bonowitz, ISBN 0-7566-0962-3



Jul 25th, 2011 | By [Andrew](#) | Category: [Energy](#), [Solar](#) | [Print This Article](#)

Solar activity is difficult to predict. The sun itself has cyclic periods where activity ramps up or declines, and close monitoring of its activity lets astronomers warn public agencies if solar flare activity threatens technology on Earth. Unfortunately, research teams are providing differing long-term forecasts on solar activity.

Scientists at the U.S. National Solar Observatory have determined that the sunspot cycle is heading into a period of rest. Their reports are based on fading sunspots, a missing jet stream, and slower-than-usual activity near the sun's poles. These findings were discovered late in the current sunspot cycle, and indicate that the next sunspot cycle (due to begin

around 2019) would be a period of hibernation.

BUT!!!! we have no control of anything!!!! Sooooo, it is fun to see and think. **THAT'S ALL FOLKS!!!!**

From my oldest son— caution the next few lines may not be suitable for all viewers.----

This comes from 2 math teachers with a combined total of 70 yrs. experience.

Here is a little something someone sent me that is indisputable mathematical logic. It also made me Laugh Out Loud. This is a strictly mathematical viewpoint...it goes like this:

What Makes 100%? What does it mean to give MORE than 100%? Ever wonder about those people who say they are giving more than 100%? We have all been to those meetings where someone wants you to give over 100%. How about achieving 103%? What makes up 100% in life?

Here's a little mathematical formula that might help you answer these questions:

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

is represented as: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26.

Sooo Then: H-A-R-D-W-O-R-K $8+1+18+4+23+15+18+11 = 98\%$

and K-N-O-W-L-E-D-G-E $11+14+15+23+12+5+4+7+5 = 96\%$

But, A-T-T-I-T-U-D-E $1+20+20+9+20+21+4+5 = 100\%$

And, B-U-L-L-S-H-I-T $2+21+12+12+19+8+9+20 = 103\%$

AND, look how far ass kissing will take you. A-S-S-K-I-S-S-I-N-G

$1+19+19+11+9+19+19+9+14+7 = 118\%$

So, one can conclude with mathematical certainty, that While **Hard work** and **Knowledge will get you close, and Attitude will get you there, it's the Bullshit and Ass kissing** that will put you over the top

DVESS MEETING LOCATION : DIRECTIONS:

From Atco (west-bound), after the traffic light at Taunton Ave. (Rite Aid drugstore on the left), the church is about the 3rd building on the right; turn into the first driveway. If you miss it, pass by the church and turn Right onto Broad St. (at the Berlin Diner) then turn Right into the parking lot of the Baptist Church and go straight all the way - the parking lots of both churches connect.

From Rt. 73 in Marlton: head East (South) on Rt. 73. As you enter Berlin, you will pass Wal-Mart (on the left) and a shopping center (on the right) with Shop Rite and Staples. **Get into the Right "Exit Only" lane and follow the signs for Cross Keys Rd. At the intersection of Cross Keys Rd. and the White Horse Pike (Rt. 30) turn LEFT. At the next intersection (Broad St.) continue straight past the Berlin Diner and SPEEDY MART on your left; pass by 2 or 3 white storefronts on the left then see the big white church with red front doors on your left. Pass in front of the church and turn into the driveway on the far side. Education Building is behind the church.**

From Lindenwold or Clementon on the White Horse Pike (east-bound):

As you enter Berlin business district, you will pass through the traffic light at Cross Keys Rd. (CVS Pharmacy on right corner). Follow highlighted directions above.

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 1st family member + \$5.00 for each additional family member

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

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

"Silver" \$50.00 for 1st family member - receive a Geode Specimen

"Gold" \$75.00 for 1st family member - receive a Native Gold Specimen

"Platinum" \$100 for 1st 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 2nd Wednesday of each month throughout the year at Centenary United Methodist Church, 151 South White Horse Pike, (route 30) in Berlin. Junior Rockhounds meet at 7:30pm with the regular meeting beginning around 8 pm.

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 below (next page).

Editor's Notes: Editor is not responsible for authenticity of information in any articles submitted for publication. Nor are the opinions expressed in the "DVESScapades" necessarily those of the officers of the Delaware Valley Earth Science Society, Inc., and/or the editor.

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.

<i>DVESS Directory 2008</i>	President terry@terryfic.com	Terry Wilson or terry@dvees.org
1 st Vice President Ann Lynne Benson 856-783-0969 SeleniteQueen@gmail.com	2 nd Vice President	open position
Jr. Rockhound Coordinator Mel LeCompte 856-783-0969 works-in-faith@comcast.net	Recording Secretary 856-728-1731	Grant Elliott gle@verizon.net
Website Coordinator Terry Wilson 609-714-1309 terry@dvees.org	Special Events Coordinator	Ann Lynne Benson 856-783-0969 SeleniteQueen@gmail.com
Treasurer and Program Chair Gary Weinstein 856-234-0708 - home 856-795-5077 - wk garyskyrock@hotmail.com	DVESS Newsletter Editor, Membership Chair Carol De Cuzzi 856-428-0621 - home decuzzic@comcast.net or DVESS@int-pro.com	

Membership Form

Start w/ first family member (designated as head of family) Juniors must have an adult head of family with the Junior as the additional family member for insurance purposes.

First Name: _____ Last Name: _____

Address: _____ City: _____

State: _____ ZIP+4 _____

Phone: _____ Email: _____

Cell Phone: _____ Profession, School or Major Work

Okay to let other members of the Club see your email and other orange-starred information (on website)?

Okay to share _____
Do NOT share _____

Newsletter Delivery **ONLY** via e-mail

additional family members to be registered w/ above member

Type of membership Regular Membership:
\$15.00 for the 1st family member + \$5.00 for each additional family member
\$10.00 for the 1st Senior (65+) member + \$5.00 for each additional family member
Dues are collected on a calendar year Jan to Dec, no pro-rata rates
additional members on another paper if needed

First Name: _____
Last Name (only if different from above) _____

First Name: _____
Last Name (only if different from above) _____

First Name: _____
Last Name (only if different from above) _____

Sponsoring Memberships (each additional family member - \$5.00):
"Silver" \$50.00 for 1st family member - receive a Geode Specimen
"Gold" \$75.00 for 1st family member - receive a Native Gold Specimen
"Platinum" \$100 for 1st family member - receive a Premium Specimen

Interests: Minerals ___ Fossils ___ Lapidary ___ Collecting ___ Museum Trips ___
Trotter ___ Sterling Hill ___ other, please list _____

How did you learn of DVESS? _____

Comments _____

What NON-DVESS interests or hobbies do you have? Would you be willing to share with our members?

What would you like the club to do or provide for you? _____

Dear DVESS members;

I forgot the photo from Terry of the cave , AND I forgot the puzzle, sorry Ed..
Guess I was in too much of a hurry to get the News out.

Enjoy it now.



W O R D D V E S S
 # P U Z Z L E
 b y E d L o v e l a n d

3/15/2011

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

ORE	QUAKE
CUBIC	MICA
DUCTILE	VEIN
IGNEOUS	VUG
MAGMA	ANALCITE
LAVA	BIXBYITE
PLACER	BORAX
SHALE	CARNOTITE
ZINCITE	CHERT
BARITE	CUPRITE
DIKE	EARTH
AGATE	HILL
ALBITE	QUARRY
AUGITE	DATOLITE
AXINITE	DIOPTASE
BARITE	EPIDOTE