

DVESScapades

escapades: interesting, stimulating, exciting activities and adventures



Delaware Valley Earth Science Society Newsletter Welcome Back October 8, 2008



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

ALERT * STOP THE PRESSES *** ALERT** **DVESS has a new home**

No longer will we be moving around every semester into different rooms and buildings at Rowan University.

Though we thank Professor Detofsky and Chuck O'Loughlin for getting us the use of the rooms, at no charge, these past few years, we have finally found a new and hopefully permanent home at the Centenary United Methodist Church on route 30 in Berlin. This is the same place we have had our pot luck banquets in the past. This larger facility will enable our group to grow in many ways, including; Better Junior Programs, our Storage Cabinet on site, Snacks and Beverages at meetings, NO Summer breaks, Closer to many members and a whole new potential membership base in a developed area.

We hope you can come out and join us for **our premier meeting, October 8th**. We are sure to have a great time, speaker, door prizes, snacks, mineral specimens, plans for the future including our upcoming banquet (sign up at www.whoscomming.com/dvess) and the start of election nominations for next years officers.

Please help to make our club a viable organization. Come out and support your club.

President's Message - by AnnLynne Benson, DVESS President and EFMLS Director
Going, Going.....

GONE!!!! We no longer meet at Rowan Univ. in Glassboro. Rowan has shuffled us to a different room each semester for the couple of years we've been meeting there. The September, 2008 offering was **Room 211** in Robinson Hall: "*Occupancy Limited to 20 people.*" While we deeply appreciate Rowan's making these various rooms available to us, the lack of a permanent address made it impossible for us give members or visitors advance notice of where to find us, or to print fliers indicating our location, to have a place to put our cabinet (making it necessary to carry heavy boxes of rocks, minerals and equipment across parking lots and up stairs every month), or even to get comfortable in our surroundings. This impermanence in general, and the untenability of Room 211 in particular, necessitated our move to a more spacious and permanent location. We need to have room for our **Junior Rockhounds** class, speaker display, specimen sale,

literature, and the 40-member meetings we envision having once again. All this (and facilities for refreshments) will be possible at our new location in Berlin, NJ (see “*Welcome to Berlin*” article elsewhere in this newsletter). Come to the October meeting and check it out for yourself. **We’ll have coffee and snacks waiting for you!**

Oh no! We’ve been 211’d from Rowan Univ.!!!

211 *verb*

Origin: the noun “211” (a reason for termination)

1: to cancel or force discontinuation < “*Hang up that phone right now or I’ll 211 the contract*”>

2: to suppress or restrain from a usual course of action < “*Sorry, guys – I can’t come out to play. My mom 211’d me because I got an F on my report card*”>

3: to shut down or cause cessation of an activity < “*Mr. Grimley, I’m going to be late for work; I got 211’d on I-95 because an accident has the road closed for two hours*”>

4. to bring to an end or terminate < “*Rowan’s provision of rooms too small to meet our needs, and changing our location every semester, 211’d our hopes of continuing to hold meetings at the University*”>

GONE!!!! Your right to collect fossils is about to expire! Bill HR554 will make it a crime to collect fossils on public lands (**OUR** lands, since **WE** are the public). We believe this bill will go directly to the floor for the vote. Congressman John Culberson, **R**, 7th District West Houston, Texas **who is a rockhound himself** said he needed each rockhound **throughout the U.S.** to contact their congressman and let them know their feelings on the issue. See <http://www.amfed.org/efmls/efoct08.pdf> for a letter written by a professional geologist to his Representative. Take a moment to preserve the future of our hobby by contacting your Representative; you can find her/his contact information at <https://forms.house.gov/wyr/welcome.shtml>. (note all hyperlinks in color are instant links, click on them and voila !! You are at the recommended sight) See an article later on in this newsletter.

GONE!!!! Don’t miss this opportunity to allow your child to get involved in a healthy, wholesome and interesting hobby. The American Federation Junior Rockhounds’ Program is a flexible, inclusive program designed for as few as one single child. You can use your own activities or the Federation’s Merit Badge Program, “independent study” or the kids can just participate in the regular workshops, shows, and field trips the club undertakes in its normal course of business (see the badges at <http://www.amfed.org/fra/meritbadge.htm>). The Badge Manual was developed to give folks with minimal knowledge what they need to guide kids through the activities, and the pages can be shared with parents to work with their kids on their own at home. DVESS Juniors’ activities have always been provided “no cost” to the child; the Federation encourages us to give parents a copy of the manual so they can help their kids choose activities they’d like to do. The Merit Badge Program can also be used outside the club, with Girl or Boy Scouts or a geology club at a local school. Taking **any** first step toward having fun with the next generation of rockhounds will ensure a future for DVESS.

WELCOME TO BERLIN!!

Starting October 8, 2008 we will be meeting in our new, larger, permanent (we hope) home in the Education Building at Centenary United Methodist Church, 151 S. White Horse, Berlin, NJ

08009. Berlin is located between Lindenwold and Atco; the church is located ½ block from the new Berlin Diner (Broad St.).

If you are traveling East on the White Horse Pike (Rt. 30), in the middle of town, you'll pass the Diner and a food mart on your left, followed by a couple of white buildings, then the church is on your left (white with red front doors). There is a driveway on each side of the church - the entrance driveway is AFTER (East of) the church; turn left into the driveway, pass the church, the Education Bldg. is behind the church. There are doors facing the church (2 short flights of stairs inside the building), and another door in the back (one long flight of stairs outside the building).

Coffee and refreshments will be available before the meeting. If you have any questions, call Ann at 856-783-0969 or 609-458-7821.

NJGS - Rutgers Drilling at Medford

Contributed by Peter J. Sugarman

This article with permission from Vol. 12: January 2008 <http://geology.rutgers.edu/> Editor: Kenneth G. Miller (kgm@rci.rutgers.edu)

The Medford Township drillsite (April and May 2007) was continuously cored to a depth of 1090 feet as part of a cooperative effort between the New Jersey Geological Survey, Rutgers University, and the United States Geological Survey. Drilling targeted thick Cretaceous and limited Paleocene sediments to investigate the relationship between global sea level and sequence boundaries along the Atlantic margin, key stratigraphic intervals (e.g.

Cretaceous/Tertiary and Paleocene/Eocene boundaries), and the distribution of major aquifer sands and confining beds in New Jersey.

Preliminary highlights from Medford include a thick, fossiliferous Campanian to Maastrichtian section (Sr-isotope age estimates of 78-66 Ma). The majority of the core is dominated by a very thick Aptian to Santonian non-marine section,

which contains numerous thick confined aquifers. The Medford cores, along with cores from previously New Jersey Coastal Plain sites (ODP Leg 174AX), are housed at the Rutgers/New Jersey Geological Survey Rift-Drift Core Repository. These cores have provided valuable material for undergraduate and graduate scientific studies at Rutgers, and other scientific institutions throughout the world for more than a decade.

Footnote: Ken Miller grew up in old Medford.



The Rutgers University Geology Museum, which is open to the public, features exhibits on geology and anthropology, with an emphasis on the natural history of New Jersey. The largest exhibits include a dinosaur trackway from Towaco, NJ; a mastodon from Salem County, NJ; and a Ptolomaic era Egyptian mummy. There are mineral exhibits featuring the zeolite minerals of Paterson, NJ, and the zinc minerals of Franklin, NJ. Also on exhibit is a 30-foot-long geologic cross section of New Jersey from the Delaware Water Gap to the southern NJ coastal plain.

There is no charge for admission, and the museum has a small rock shop.

Museum Hours: Mondays, 1:00 pm to 4:00 pm

Tuesday-Friday, 9:00 am to 12:00 noon

Phone [(732) 932-7243] the museum for weekend hours

Exploration of The Giant Hudson Submarine Canyon

Contributed by Peter Rona

Out of sight and out of mind for most, the largest submarine canyon on the Atlantic continental margin of the United States lies at the doorstep of the New Jersey- New York metropolitan area. Hudson Canyon with walls that attain a relief almost as high as the walls of the Grand Canyon, was cut when the Hudson River discharged from the seaward edge of the continental shelf 100 miles from New York harbor during the last glacial maximum some 18,000 years ago, and extends another 300 miles seaward connecting the city with the deep ocean basin. So close, yet so far this canyon is a frontier for ocean exploration. Peter Rona led a cruise of the NOAA ship *Ronald H. Brown* in 2002, which made the first comprehensive bathymetric map of the Hudson Canyon region from the shelf edge to the seaward edge of the U.S. Exclusive Economic Zone 200 nautical miles offshore with partners from the U.S.G.S. and the Woods Hole Oceanographic Institution. They have published their map:

<http://pubs.usgs.gov/of/2004/1441/index.html>

This past August Peter again served as chief scientist on a cruise of the *Ron Brown* focusing on the sea floor and water where the head of the canyon indents the edge of the continental shelf to find out why the canyon head appears to be a source that contributes to the support of a regional fishery for lobsters, hake, tilefish and squid. The scientific team with participation and support from NOAA's Undersea Research

Centers at Rutgers, the University of North Carolina (Wilmington), and the University of Mississippi, worked with a new Autonomous Underwater Vehicle, AUV *Eagle Ray*, from NOAA's National Institute of Undersea Science and Technology. They programmed the AUV to robotically map the seafloor close-up and analyze physical properties of the water column. While their prior regional map only resolved features the size the ship, their new map of the canyon head resolves features the size of a ping-pong table. They mapped a dynamic interplay in the water column between relatively warm, salty slope water, which actually flowed upslope to intrude colder, fresher shelf water. As they reported at the December AGU meeting, these conditions make the canyon head conducive for life.



NOAA ship *Ronald H. Brown* photographed with AUV *Eagle Ray* during the Hudson Canyon head mapping expedition in August 2007 (photo by LT Elizabeth Crapo, NOAA).

Banquet Time by Gary W.

Mark your calendars for Sunday October 19th, 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).

PLEASE, PLEASE, PLEASE, PLEASE

Sign up online at

WORTH REPEATING

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

[DVESS Newsletter October 2008](#)

www.whoscoming.com/dvess or by calling

AnnLynne Benson 856-783-0969.

We need a count as soon as possible, AND,

WE NEED YOU !!!!!

PLEASE TAKE ACTION!!!

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

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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

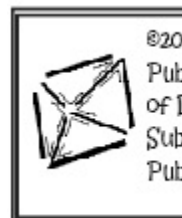
[Collin C. Peterson](#), MN, Chairman
[Tim Holden](#), PA, Vice Chairman
[Mike McIntyre](#), NC [Bob Etheridge](#), NC
[Leonard L. Boswell](#), IA [Joe Baca](#), CA
[Dennis A. Cardoza](#), CA, [David Scott](#), GA
[Jim Marshall](#), GA
[Stephanie Herseth Sandlin](#), SD
[Henry Cuellar](#), TX [Jim Costa](#), 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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Programs

Oct. The first of our new "Each One Teach One" meetings. At this time Carol De Cuzzi will present a hands on lesson in wire wrapping. I will have fossil sharks teeth, the wire and the 'leatherette' cord so you can make your very own fossil pendent to wear and show. If you want to bring an item to wire wrap for use as a pendent or pin, bring it along. The wire for the project will be 20 & 24 gauge copper.

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

UPCOMING EVENTS

Academy Of Natural Sciences, Philadelphia

Wednesday, October 22, at 6:30 p.m., Kirk Johnson and Ray Troll will recount amusing and delightful anecdotes from their latest book, "Cruisin' the Fossil Freeway: An Epoch Tale of a Scientist and an Artist on the Ultimate 5,000-Mile Paleo Road Trip."

"Cruisin' the Fossil Freeway" follows the zany travels of a paleontologist (Johnson) and an artist (Troll) as they drive across the American West in search of fossils, encountering everything from suburban T. rexes to killer Eocene pigs to ancient fossilized forests. Mostly they traveled to remote places, where they discovered small

town museums packed with paleontological treasures, rock quarries that yielded hundreds of fossilized bones, and the remains of ancient seashores tracked with dinosaur footprints.

Johnson is vice president and chief curator of the Denver Museum of Nature and Science. His research focuses on fossil plants, the environmental effects of the dinosaur-smiting asteroid, and the birth and death of biomes. He is the author of "Prehistoric Journey: A History of Life on Earth" and "Ancient Denver's: Scenes from the Past 300 Million Years of the Colorado Front Range." Troll, who lives in Alaska, has created artwork for conservation organizations including the Sierra Club, Greenpeace, and

the Southeast Alaska Conservation Council. His unique blend of art and science culminated in his traveling exhibit, "Dancing to the Fossil Record," which was shown at the Academy several years ago. Academy visitors also saw his artwork last year in the exhibit "Amazon Voyage: Vicious Fishes and Other Riches." He has illustrated several children's books including "Sharkabet: A Sea of Sharks from A to Z" and "Shocking Fish Tales."

Following the talk, Johnson and Troll will sign copies of their book, which will be available for purchase that night in the Academy Shop. Admission is free. To register, log on to www.anasp.org/activities/adult_programs.php.

New Jersey State Museum Sunday Science Lecture Series

The New Jersey State Museum is excited to offer a second, expanded season of the Sunday Science Lecture Series, sponsored 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, climate change, archaeology, wildlife science, and exploration.

Arrive early to tour the newly expanded **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.

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|----------------------|---|
| Oct. 5 | Dr. Kenneth J. Lacovara , Drexel University
"Giants at the End of the World: New Dinosaur Discoveries from Patagonia" |
| Nov. 9 | Dr. Brian R. Just , Princeton Univ. Art Museum
"Arctic Art and Artifact at Princeton University" |
| Jan. 11, 2009 | Dr. Daniel Rubenstein , Princeton University
"Zebra Societies & Conservation: Different Types for Different Stripes" |
| Feb. 8 | Dr. Chet Sherwood , The George Washington University
"A Natural History of the Human Brain" |
| March 8 | Dr. Ian Burrow , Hunter Research
"Secrets of the Ancients: Myths & Mysteries in Archaeology" |
| April 5 | Dr. Chung Shih , Infineum USA
"Silent Stories - Fossil Treasures from Liaoning, China" |
| May 3 | Dr. Kenneth Miller , Rutgers University
"Sea-level & Climate Change: Should I Sell My Shore House?" |
| June 14 | Robert Denton , Discoverer and leading paleontologist of the famous Ellisdale Fossil Site |

Space is limited. Reserve your seats early!

WHAT YOU NEED TO KNOW Free Admission - Free Parking, Museum Auditorium

Each lecture begins at 4pm. Light refreshments will be served. For more information, or to make reservations, please call (609) 292-8594



Hello,
I am enclosing some pictures that I have made from Colorado thundereggs. I photograph them at very high resolution and I am able to print them at up to 20 times magnification. My prints can be up to 13 X 19 inches.

The one to the right is a slab from a thunderegg found in Twin Mountains, Sagwacki county Colorado. It measures 0.671 by 0.920 inches.

Thank you very much,
Joe Taubr
Littleton Rock and Gem Club
Littleton, Colorado
jtaubr@mac.com 303-283-6344
<http://thundereggscloseuppics.com>

From: Association of Collecting Clubs 18222 Flower Hill Way #299

Gaithersburg, MD 20879 301.926.8663 Info@Collectors.Org To: Delaware Valley Earth Science Society editor@dvess.org From: Assn of Collecting Clubs Subject: ACC Update, Vol 6, No 4, September 24, 2008 ACC Update is sent to the contact person(s) for Association of Collecting Clubs (ACC) member clubs, groups and societies. This is for your information - to be shared with your club's leadership and members as you deem appropriate. Please let us know whenever you have questions or comments, or concerns where we may be of some assistance. Write: Info@Collectors.Org Please feel free to forward this e-mail on to others in leadership positions in your club - this ACC Update normally goes to only one or two contact persons per club. Make sure your copy of ACC Update isn't mistakenly blocked by antispaam software! Be sure to add the following addresses to your list of allowed senders and contacts: - Info@Collectors.Org - NewsService@Collectors.Org - TechSupport@Collectors.Org Larry Krug & Rick Moses PLEASE SHARE THIS ACC UPDATE NEWSLETTER AS APPROPRIATE WITH CLUB OFFICERS, DIRECTORS AND COMMITTEE CHAIRS.

Friends & Editors: (from the) **Calgary Rock and Lapidary Club**

For your weekend reading ----- The October Journal is poste to the CRLC Web site www.crlc.ca Click on **The Journal**, Scroll down past the **Scribe Logo** and there it is.

Check it out, a newsletter from another 'Rock Club' for you to enjoy. The following was "borrowed" from their newsletter for your edification.

Calgary Rock and Lapidary Club's Pebble Pup section that is in each newsletter.

Grow a Crystal Garden ! BE SURE YOU HAVE AN ADULT SUPERVISING YOU!

First you will need to gather the following articles:

1. a shallow glass bowl
2. broken pieces of porous brick or pumice
3. household ammonia
4. liquid laundry blueing
5. food coloring
6. salt

Wash the pieces of rock and arrange them in the glass bowl while still wet. In a separate glass container mix 4 tablespoons of water with 4 tablespoons of ammonia. Pour the mixture over the wet rocks making sure to dampen them all.

Cover one rock with undiluted blueing and sprinkle the others with food coloring - red, yellow and green, with a drop of blueing added here and there. Now sprinkle 4 tablespoons of salt over all the rocks.

Within a few hours crystals will begin to form. If you watch closely, you can actually see them grow. After two days, add more water and ammonia mixture and this will start your crystals growing again. The crystals are very fragile and will break if you bump the bowl. With all the colors you have added, you will have a beautiful bowl of crystals.

Take a photo send it to me I'll publish it !!!



Dr. Lacovara, a distinguished paleontologist and elected fellow of the Explorers Club, is known for his discoveries in the world's remotest regions. His current work in southern Patagonia involves sauropod dinosaurs, the largest creatures ever known. Details about the Mesozoic Era environment in which they lived -- e.g., sea levels, temperature, and atmospheric carbon dioxide -- are particularly worth knowing in order to understand the threat of global warming today.

Spend a relaxing Sunday evening learning from accomplished researchers in the fields of paleontology, archaeology, evolution, ecology, wildlife science, climate change, and exploration. Following each lecture, the public has the opportunity to meet the presenters and ask questions while enjoying light refreshments in the auditorium lobby.

Please call 609.292.8594 for reservations.

School-Day Performance Series* Wednesday, October 8, 2008 at 11:00 am **Faustwork Mask Theatre: The Mask Messenger**

In Partnership with Young Audiences New Jersey Appropriate for All Grades
Museum Auditorium (60 minutes)

Through an engaging mix of monologue, comedy, theatrical craft, and student participation, the audience is introduced to nearly 20 different characters who come alive behind masks that range from the subtle to the powerfully expressive. Each is used as a vehicle for teaching about the role of costume, disguise and appearance in cultures throughout history. It's a totally mesmerizing performance that can evoke howling laughter one moment, shrieks of surprise the next, and moments of astonished silence in between -- the perfect marriage of education and entertainment.

Please call 609.292.8594 for reservations.

DVESS MEETING LOCATION : Centenary United Methodist Church, 151 South White Horse Pike, (route 30) in Berlin, 856-767-3881 or 856-767-7453. Located between Estaugh Ave and W Taunton Ave on your left, the church is on the right hand side.

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 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

\$10.00 for Rowan University Students with College ID

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

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.

"Too often we underestimate the power of a touch, a smile, a kind word, a listening ear, an honest compliment, or the smallest act of caring, all of which have the potential to turn a life around."

Leo Buscaglia (1924-98)

American writer and educator

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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CALOMEL	DIAMOND
CARBONATE	DUMORTIERITE
CARNELIAN	FACET
CASSITERITE	FLAME
CELESTITE	FLUORESCENT
CHLORITE	GRAVITY
CITRINE	HARDNESS
CLINOHEDRITE	INVERSAND
COAL	MOHS
COCOLITE	MUSEUM
COLOR	PLUTONIC
COPPER	QUARRY
CORUNDUM	SAND
CROCIDOLITE	TEST
CRYOLITE	ULTRAVIOLET

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