



## NOTES FROM THE PRESIDENT'S DESK

January 18, 2013 Volume 12 Issue 8

Happy New Year! A fresh, new, year lies ahead of us, so now is the time for resolutions and new beginnings. 2013 sounds like a "lucky" number so don't be afraid to try something new and different this year. I have heard recently that the best way to keep your brain healthy, young and active (I know I need help here!), is to learn a new skill or take up a new hobby.

With the NMGMS membership renewals coming in, it looks like we are all at least keeping up with our hobby involving rocks, fossils and minerals. We have added some new members to the 2013 roster too, so hopefully, we'll have some folks that are learning a new hobby. For those of you who are not new to NMGMS, how about looking into a different aspect of the club or a new area of interest, like micromounting, specimen photography, cataloging a collection, etc. Or start collecting something different and expand your interests. Pick up a geology book once in a while too!

Taking advantage of the club's field trips is one way to improve your knowledge of what's available in our area for collecting. This also provides members with the opportunity to share what they know about the specimens being collected and to glean a little more knowledge of said from those with more experience. (I just love being around George Phillips when he rattles off those Latin names!) Seriously, before you know it, you'll be calling things by their proper names. Instead of saying "that pretty, shiny crystal that looks like sugar", you'll have Drussy quartz on the tip of your tongue or instead of that "teeny, tiny crab", you'll come out with *Tetracarcinus subquadratus* (Well, at least the first part I can usually get right!) You'll be amazed at what you can learn from your fellow club members.

Our meeting programs and workshops also provide members with learning opportunities not only for information but for lapidary skills too. If you discover that you like something that we did at a "hands on" program or in a workshop, consider taking a class which would cover that skill in depth. NMGMS has awarded members with scholarships to take classes at the William Holland Lapidary School and the 2013 listing of classes is now out. Be sure and check into it. ([www.lapidaryschool.org](http://www.lapidaryschool.org)) I see where the Southeast Federation has Kim St. Jean down as one of the instructors for their Oct. session at William Holland and her cold connection classes are awesome! The listings and registration forms are in the Dec. issue of The Lodestar. ([http://www.amfed.org/sfms/pdf/Lodestar\\_dec2012.pdf](http://www.amfed.org/sfms/pdf/Lodestar_dec2012.pdf))

With the museum display that we'll be setting up this month, the Geology Day in February, the drussy quartz field trip in March and all of the other activities and programs that we have on the club schedule for 2013, there will be plenty of opportunities for learning new things and developing those skills which make NMGMS and its members so very well rounded, like a perfectly polished stone. I guarantee that, if you stick with NMGMS for this next year, you'll have those brain cells humming and your neurons will be firing on all 8 cylinders! Here's a toast to NMGMS!

### NANCY ROBERTS



Nancy with Remy  
Photo Jim Roberts

### What's Inside

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It's membership  
renewal time.  
Application form is  
attached to the end of  
*The Nugget*

**Above:** Selections from The Fauna of the Ripley Formation on Coon Creek Tennessee by Bruce Wade. This book also covers the deposit at Blue Springs Mississippi. It's an USGS publication, out of print but can be found online at <http://pubs.er.usgs.gov/publication/pp137>.

# NMGMS Meeting Minutes

December 15, 2012



Twining examples.

The Pledge of Allegiance to the Flag was given by Nancy Roberts and Victoria Langford. Introduction of Guest: Bedford Forrest Burkeen (Bernice's father). The minutes of the November meeting was approved as printed in the Nugget.

**Treasurer's Report:** Closing Balance as of today \$1828.20.

## Review of Committee's:

**Field Trips:** The first outdoor field trip for 2013 will be to Cedar Creek Lake in AL for Mississippian fossils either the end of January or first weekend in February (*watch your emails for announcement and directions*). A field trip to the Park Hills area of Missouri is being planned for March 8-10<sup>th</sup> 2013. We will be collecting drussy quartz specimens and also touring the lead mining area and museum. Nancy provided a sample for everyone to see.

**Publicity:** (Bob Reinhaus) Belinda Loyd has composed a new brochure for us and has offered to get them printed.

**Membership:** (Ann Byzet). It's time to renew your NMGMS member ship for 2013. Dues are going up to \$12 per person and \$20 per family. We have the new club patches available for members to purchase for \$2 each. A Christmas card for Floy and Bill Hawkins was signed by all members present and will be sent to them in California.

**Hospitality:** January refreshments: Nancy Roberts and Shirley Randal February: John Byzet & Rebecca Vallarian REMINDER: February's meeting is on the 9th, 11AM – 1PM

**Website:** (John Byzet) Website has been updated... Check us out at [www.nmgms.org](http://www.nmgms.org)

**Newsletter:** (Dana Jones) The group thanked Dana for all of her hard work and a year's worth of great newsletters. Robert Langford was also thanked for getting the newsletter printed and mailed out. A big "Thank You" went to those writing articles for the newsletter!

Motion was made to renew Dana's subscription to S.C.R.I.B.E. for another year.

APPROVED & SECONDED. Reminder to the group to email content for the Nugget to: [nuggeteditor@gmail.com](mailto:nuggeteditor@gmail.com)

**Youth Members:** (Dana Jones and Jim Roberts) Volunteers: David Loyd  
The Rockheads are considering an indoor field trip to an area museum for next year. Vests and patches were passed out to those who didn't get one in September.

**Historian:** (Susan Curry) If you take photos at any NMGMS event, please print out a few to submit to Susan for the yearbooks.

**Show/Kids Day:** (Roger Loyd, Bob Reinhaus, John Byzet and Robert Langford)  
NMGMS will be hosting a Geology Day, along with scout merit badge classes at the Oren Dunn Museum in Tupelo on Feb. 16, 2013 from 10 until 3p.m.

## Old Business:

The November nominated 2013 club officers for Pres., Nancy Roberts, Vice Pres., Roger Lambert, Treasurer, John Byzet and Secretary, Belinda Loyd was presented to the members for vote. Motion to accept the voting slate as written – APPROVED & SECONDED; Motion to elect the slate of officers – APPROVED & SECONDED  
The Oren Dunn Museum has given us permission to sell our grab bags, set up a spin and win game for a nominal fee of 25 cents and weather permitting, set up a fossil/rock "dig" outside or in the train station building on Feb. 16th. The museum also has sand we can use. We are going to need lots of little rocks, crystals and shark teeth etc. for the dig, plus some shifters/colanders and little Ziploc bags filled with interesting prizes (fossil, polished stone, crystal, jewelry item, etc.) for the spin and win. The museum will help out with costs by printing up all of the display labels and signs plus provide as many specimen risers as they have on hand.

The subscription to Rock and Gem magazine for the library has been ordered.

## New Business:

President Nancy Roberts awarded the three NMGMS junior members the "Junior Rockhound of the Year" award, Andrew Diaz, Remy Collins and Matthew Lambert. Certificates of Merit were handed out to our other junior members who have been working towards this achievement.

## Reminder:

The Jan. 19<sup>th</sup> meeting will be at the Tupelo library from 1 to 3p.m. and the program will be "Mineral Twinning", presented by Dr. Terry Panhorst of the Geology Dept. at the University of Mississippi.

**Motion to Adjourn..... Merry Christmas!!**

## 2012 Officers

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# Mark Your Calendar

## January 19

Tupelo Library 1-3pm  
"Mineral Twining"  
Dr. Terry Panhorst  
Geology Department  
University of Mississippi

For a list of rock and gem shows: <http://www.amfed.org/shows.htm>  
Rock and Gem magazine: [www.rockngem.com/showdates](http://www.rockngem.com/showdates)

**February 9, 2013**  
Tupelo Library 10a.m. to 12 noon.  
\*\*\*Note the change in date and time \*\*\*  
"Easy Wire Wrapping a Quartz Crystal"  
Nancy Roberts.

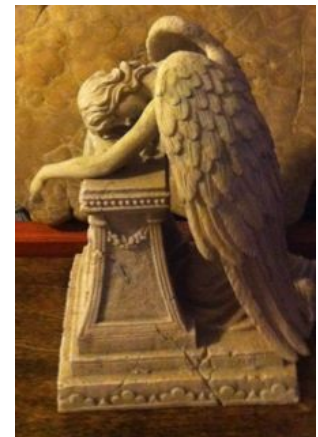
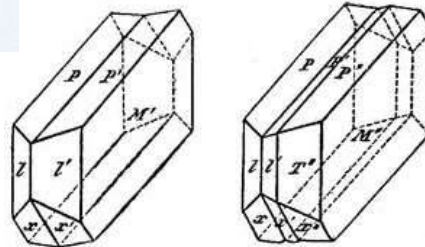
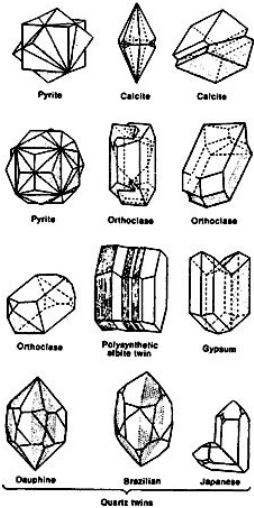
**February 16, 2013**  
Oren Dunn Museum Tupelo 10 to 3p.m.  
"Geology Day"

**March 16, 2013**  
Tupelo Library 1-3p.m.  
NMGMS 12th Birthday!!  
Displays by membership.

**April 20, 2013**  
Tupelo Library 1-3 p.m.  
"Amazing Family of Quartz"  
Myra Soroczak

**May 18, 2013**  
Tupelo Library 1-3p.m.  
"Lampwork Basics"  
Dana Jones  
Remy Collins

THE JANUARY 19TH MEETING WILL BE AT THE TUPELO LIBRARY FROM 1 TO 3P.M. AND THE PROGRAM WILL BE "MINERAL TWINNING", PRESENTED BY DR. TERRY PANHORST OF THE GEOLOGY DEPT. AT THE UNIVERSITY OF MISSISSIPPI. DR. PANHORST'S PRESENTATIONS ARE ALWAYS EXCELLENT, SO DON'T MISS OUT ON LEARNING ABOUT THIS INTERESTING CRYSTAL PHENOMENON.



# HEAR YE, HEAR YE!

(aka Announcements)

**It's Freezing  
Soon It Won't Be**

So start planning for a summer newsletter! We would like to try again to have issues in July and August. This time, we have themes for each issue. For July- The Jackson Dome Volcano Since the volcano was active during the Cretaceous: For August- Cretaceous Mississippi Of course any idea is welcome.

Contact [nuggeteditor@gmail.com](mailto:nuggeteditor@gmail.com)

## Mea Culpa

Sheer incompetence. Not only was the volume number wrong again, I managed to not correct the contents. My pay is going to be docked for this I'm sure.



Roger on the left. Bill instructing him. Photo Jim Roberts.

## Bill Hawkins

NMGMS member Bill Hawkins passed away on January 8, 2013. Bill was a founding member on March 17, 2001 when the North Mississippi Gem and Mineral Society was founded. Over the years, he participated in our organization in many capacities; always there willing to lend a hand where ever needed. Bill was a friend to all and was always interested and enthusiastic in what other club members were doing, whether it was a fossil collection, an interesting rock or a lapidary project. Bill and Floy shared their love of rocks and minerals with the area scouts and schools and were known in the community as the "rock talk people". Bill also served along with Floy, as the Mississippi State Director to the Southeast Federation of Mineralogical Societies for several years. They both attended meetings and shows of other Mississippi clubs, as well as those of both the regional and national federations. Bill took several classes at the William Holland Lapidary School and took up faceting. He was a retired biology professor and an avid bird watcher. Bill left a legacy of enthusiasm, willingness, curiosity and love. Please send remembrances of Bill Hawkins to [nuggeteditor@gmail.com](mailto:nuggeteditor@gmail.com).



# Old Bones

To share knowledge of fossil, gem, and mineral collecting and preparation.

## Woodworking Enhances Rock Collecting

by John Byzet



What do you do when you have too many sizeable rocks to store comfortably? I guess you could toss them in a cardboard box or a cloth sack. Well, I decided to build some partitioned boxes in which to store them. There's no point in having your rocks banging together and, if you can't show them off without digging around, you're not likely to show them off much.

I decided I'd concentrate on my geodes first. I only have a very few really great geodes and have them in individual display stands. My interesting but not great geodes are worth keeping mostly because I cut them myself to see what is inside. The type of wood for the box is really not important. I've used red cedar for some and black walnut for others because I had it handy.

First I decide how much vertical room I need in the box. Usually 2 inches is enough so I cut some 2 1/2" strips of wood. It seemed like an 8 by 10 inch size would hold six to 8 geodes and would be a convenient size to store. This requires two 9 1/2" strips and two 12" strips. It's usually 1/2" thick wood so I need room to angle the corners. Exact sizes aren't important unless you're planning on displaying several side by side.

After I get the strips cut, I take them over to my router table and cut a slot about a quarter inch down along one long side on each board. On the other long side of each board, I rabbet a 1/4" groove to handle the bottom once it's put together. I then cut a 45 degree angle on each of the small ends. I measure carefully and adjust the lengths so the box will end up square. One short end has to be cut off at the groove so the plexiglass I use for a lid can slide in and out. This is the time to measure carefully for the bottom. I use 1/4" thick plywood. I sand the wood and then using blocks or corner clamps to keep the sides right, I glue the ends of the boards together and clamp them. After they are set, I add the bottom and apply a clear stain to show the grain and protect the wood. A green felt pad fits on the inside bottom and some felt tabs on the bottom. That's about it except for making a few divider strips and dropping them in.

John, showing off his Christmas present at the December meeting.  
Photo Mysterious Jim Roberts



Left and center: parts of the display  
Right: Finished display  
Photos John Byzet



# Field Trip

NMGMS January field trip (members only) is scheduled for Saturday Jan. 26, 2013. Watch your emails or call 731-689-5336 for details.  
Nancy Roberts, NMGMS field trip chair

## Fossil Cleaning and Preparation

BY NANCY ROBERTS

### Fossil preparation begins in the field:

Loose pieces of a fossil should be immobilized, if at all possible with glue or a plaster cast, or collected in separate, mapped and labeled packages. Use foil for the smaller, more delicate pieces and newspaper for larger ones.

Any glues used out in the field should be reversible and compatible with those used in the lab.

Taking a photo or making a drawing before removal of any pieces of the fossil will be a great help in later reconstruction.

### Methods of Matrix Removal:

Mechanical and chemical processes used for matrix removal

Always practice any technique with less important fossils first!

1. Washing with soap and water: **Note:** Never rinse the dirt and clay from your fossils down the sink drain, as these can turn to cement in your drain pipes! Always wash outside or over a bucket that you can then empty outside. (I know from experience!)



2. Scrubbing with a soft bristle brush. Using a tooth brush or small scrub brush is effective in removing dirt, algae and other surface deposits. As always, be sure that this is removing only the unwanted material and not any of the fossil itself.

3. Removing excess matrix with hand tools. Hand tools that are frequently used to remove matrix are, hammers and chisels, dental picks, x-acto knives, scribes and rotary tools like a Dremel which include saws and grinders. Decrease tool size as you work closer to the fossil itself and try to avoid touching the fossil with these tools. \*\* I use a brush to remove loosened matrix as I'm working.



Sundials and button coral from Blue Springs MS.  
Photo Dana Jones

That's not all folks!  
cont p5

4. Removing matrix with percussion and air-abrasive/pneumatic tools. Pneumatic percussion tools are extremely useful for fine matrix removal. There are hand held trigger models for removing gross quantities of matrix and small pencil like ones for more delicate work. Using air-abrasive tools requires the use of a vacuum chamber and dust collection system. Make sure that the abrasive used is softer than the fossil. Sodium bicarbonate (hardness 1.5) is frequently used.

5. Chemical removal of matrix. Vinegar (acetic acid) can be used to dissolve carbonates which are a major component of sedimentary rock. The calcium phosphates making up vertebrate fossils are nearly insoluble in this acid, so an acid bath can be used to remove matrix from them. Make an acid bath of 10% glacial acetic acid and water. Adding bone meal will help complete the insolubility. Cover any matrix that you wish to keep or any exposed fossil material with PVA (polyvinyl acetate) first before soaking. This procedure may take several days and periodic brushing away of softened matrix is recommended. Wear rubber gloves and coat any exposed fossil material with PVA as it appears.

Methods for Repairing and Preserving

1. Gluing broken pieces. Water soluble glues like Elmers can be used to glue pieces of a broken fossil together. This glue dries clear and can be easily diluted with water if different consistencies are required. Placing the glued specimen on a piece of plastic like a coffee can lid insures that the fossil can be moved once the glue is dry. Also, modeling clay ( or DAP tacky stuff) works well as a rest on which to place the fossil while the glue is drying. This is especially useful if the fossil doesn't sit flat.

Cyanoacrylate glues, like Paleobond, are also very versatile and important in the preservation of fossils. They provide some of the strongest bonds of any glue. Paleobond comes in a variety of viscosities from a gel to a liquid and can be used to penetrate cracks and other porous places that need gluing.

Two other very useful consolidates are Polyvinyl acetate (PVA) and Polyvinyl Butyral (PVB, Butvar-76). These come as spheres or beads and are then dissolved in acetone. They can be used thick or thinned to various consistencies similar to Paleobond for filling cracks and sealing surfaces. They are also extremely useful in preserving the very small fossils where just a drop of this glue applied with an eyedropper is all that is needed.

2. Surface sealing. Water soluble glues (Elmers) can be diluted to a 50% solution with water and applied as a surface coat to a fossil with a fine bristle brush. Several coats may be applied, but to keep the coat clear and not looking milky, be sure that you are using a dilute mixture. PVA or Butvar mixtures that have been diluted with acetone to about the consistency of water make excellent top coats for fossils. Multiple coats may be applied where necessary.

Another product that can be used as a topcoat, especially for delicate plant fossils where brushing on a topcoat isn't applicable, is an acrylic fixative by Krylon. This can be found in most craft stores where art supplies are sold or in the paint department at most hardware stores. This also works well for fossils that will be repeatedly handled. Future Floor Polish is another acrylic based product that can be used as a top coat for shell material when mixed 50/50 with water. This is reversible with ammonia. Note: any fossil showing marcasite invasions should be preserved with something not diluted with water.



Above: *Globidens Mosasaur* tooth from 20 Mile Creek.  
Above right: Larry the kitten offering her invaluable assistance with the tooth.  
Right: years worth of crinoid stems from a Whiskey Hill driveway and road.



# Bead Soup

A place to share knowledge about the lapidary arts. "Tree of Life" Wirework

BY NANCY ROBERTS

Based on the number of videos on You Tube covering this technique, "Tree of Life" pendants seems to be the latest fashion in wire work. So, On Jan. 5th, several NMGMS members gathered to meet with fellow member, Cheryle Langford, who has been making these pendants and perfecting this technique.

Cheryle shared her skills with us, so that now we can work on honing ours in order to be able to offer this as a workshop, class or meeting program in the future.



Above: Cheryle, middle, Nikki hard at work for the results on the right.

Photo Nancy Roberts

Bottom right: beaded ornament cover.

Photo Nancy Roberts

# Workshop



# Beaded Christmas Ornament Cover

BY NANCY ROBERTS

If you have ever admired those very old fashioned looking beaded Christmas ornaments with the fringe, try making one. The technique is simple circular netting and doesn't take long to make. The variations are endless too, so you can put your own flair on the piece. I found a free pattern on the Internet that I printed out and used for the one I made, but I put extra picots in the diamonds and made my own fringe pattern. I used a glass ball that was approximately 6 inches in circumference. Adding different bead shapes and sizes and other embellishments to this very basic pattern is quite easy to do and will make it truly your own! Check out the link for the pattern and printable directions. [www.rubysbeadwork.com/RedOrnament.html](http://www.rubysbeadwork.com/RedOrnament.html) Nancy



# Meeting Program

## Surprise! Another Party

by Bernice Burkeen

Hello everyone. I just wanted to say how much I enjoyed coming to the Christmas party/meeting. I have been missing the camaraderie we have at the meetings. For health reasons and family reasons, I have not been able to come to the meetings. I was glad of an excuse to come up to Tupelo (I've been staying in Long Beach with my Dad) in December. My Dad and I were both at the party/meeting. It was great seeing everyone. I just wish more people could have been there (purely for my benefit - so I could have seen more people). The youth received their certificates, so I know they are doing well with their work. We had great food, but there was too much of the good stuff. I could have stayed there and nibbled all day. Everyone seemed to be having a good time. Even my Dad enjoyed being there. I was even allowed to "guide" people away from the gift I had chosen to open. I just told a few people that they did not want that one (it was a gathering/collecting kit that Robert Langford had brought). I was also able to take some pictures (I've missed doing that, as well). I am not certain when I'll be back up there, but I'll be glad to see everyone when I do. I hope everyone has a great year and has a lot of fun on the field trips. See you guys sometime!



This is going to be hard. Four people sent me photos, and it got to the point I couldn't keep up with who sent what. Dock my pay for this as well-pretty soon I'll be doing this for free!  
All Christmas Party photos were taken by John Byzet, Mysterious Jim Roberts, Bernice Burkeen, and Belinda Loyd.  
No the other hard part-from top right. Conniving Bernice with her ill gotten gains. Robert laughs in the background while Brittani plays with an iPad, and Bob behaves.  
Below right. The trees and gifts.

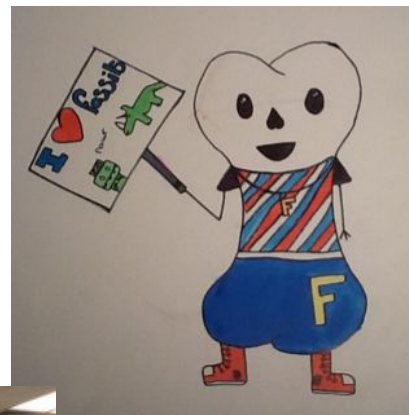
Middle Right: Belinda, Nancy, Ann, and Rebecca (from left)  
Below Right: Scoundrels having fun while Belinda works.  
Top Middle: Robert standing, Jim kneeling while Bernice supervises who knows what.  
Nikki flirting with Pete the Cokatiel.  
Top Left. Belinda and her Paterfamilias.  
Middle and Bottom Left: FOOD!!!

# Rockheads

## PRESIDENTIAL STATEMENT

Seems to be written in invisible ink.

MATTHEW LAMBERT



Top: Matthew. If only I knew.  
Middle: Remy and Victoria, preparing entertainment  
Bottom: The Rockheads, receiving awards.  
Far right: Frederick Fossilton  
All photos by Jim Roberts..except Fred, which is by Dana Jones.

[www.amfed.org/fra/fra\\_badge.htm](http://www.amfed.org/fra/fra_badge.htm)

## MIDWEST FEDERATION YOUTH POSTER CONTEST: FOSSILS OF THE WORLD

By Jim Brace-Thompson, AFMS Juniors Program Chair

For the past few years, the Summit Lapidary Club of Ohio has been sponsoring a poster contest for kids in conjunction with their annual show and the Midwest Federation of Mineralogical & Geological Societies convention. The contest is open to any kids within an AFMS-affiliated club, especially those who already may be involved in the AFMS Future Rockhounds of America program. David Rich has emailed to let me know the tradition continues, and this year, the contest is focused around a theme of "Fossils of the World." Kids wishing to enter the contest should prepare a poster illustrating one or more fossils that interest them, from anywhere in the world.

The contest is open to kids in grades 1 through 8. Each grade level will have a winner. Ribbons will be awarded for 1st through 4th place, and 1st place winners will also receive a prize. Rules are as follows:

- all entries must be presented on 12X18-inch paper;
- artwork can be pen, ink, crayons, magic marker, paint, or any other artist's medium, but no three-dimensional posters accepted;
- include name, address, age and school grade of participant on *back* of entry;
- the title maybe on front or back;
- list of names of the fossils and *why* you chose them; and
- all entries become the property of Summit Lapidary Club and the Midwest Federation.

Points will be awarded as follows: Originality & Art Work—30 points; Design—25 points; Title—25 points; Listing of Fossils *and* Reason You Chose Them—20 points. Entries must be postmarked by **March 2, 2013**, and should be mailed to: **Jennifer Fike, P.O. Box 26276, Akron, Ohio 44319**. Winners to be announced April 6, 2013, at the MWF convention. Further contest info may be found at <http://Lapidaryclubofohio.org>, and if you have questions, contact Poster Judge Jennifer Fike by email at: [SLC.youth.poster.contest@gmail.com](mailto:SLC.youth.poster.contest@gmail.com).

**Rockhead Officers**  
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 Matthew Lambert  
**Vice President**  
 Robin Langford  
**Secretary**  
 Remy Collins  
**Field Trip Organizer**  
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**Youth Advisors**  
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 David 'Chop Chop' Lloyd

## Staying Warm In Cold Weather

Before you step out into cold air, remember the advice that follows with the simple acronym COLD — cover, overexertion, layers, dry:

- **Cover.** Wear a hat or other protective covering to prevent body heat from escaping from your head, face and neck. Cover your hands with mittens instead of gloves. Mittens are more effective than gloves because mittens keep your fingers in closer contact with one another.
  - **Overexertion.** Avoid activities that would cause you to sweat a lot. The combination of wet clothing and cold weather can cause you to lose body heat more quickly.
  - **Layers.** Wear loose fitting, layered, lightweight clothing. Outer clothing made of tightly woven, water-repellent material is best for wind protection. Wool, silk or polypropylene inner layers hold body heat better than cotton does.
  - **Dry.** Stay as dry as possible. Get out of wet clothing as soon as possible. Be especially careful to keep your hands and feet dry, as it's easy for snow to get into mittens and boots.
- Highlights

- When exposed to cold temperatures, your body begins to lose heat faster than it can be produced.
- Low body temperature may make you unable to think clearly or move well.
- You may not know you have hypothermia.
- If your temperature is below 95°, the situation is an emergency — get medical attention immediately.

When exposed to cold temperatures, your body begins to lose heat faster than it can be produced. The result is hypothermia, or abnormally low body temperature. Body temperature that is too low affects the brain, this makes hypothermia particularly dangerous because a person may not know it is happening and won't be able to do anything about it.

Hypothermia is most likely at very cold temperatures, but it can occur even at cool temperatures (above 40°F) if a person becomes chilled from rain, sweat, or submersion in cold water.

Recognizing Hypothermia  
Warnings signs of hypothermia:

- Adults:  
shivering, exhaustion  
confusion, fumbling hands  
memory loss, slurred speech  
drowsiness
- Youths:  
bright red, cold skin  
very low energy  
What to Do

Safety article contributed by David 'Chop Chop' Loyd, seen here with his present.  
Photo by...John Byzet or Belinda Loyd or Bernice Burkeen or Jim Roberts.

If you notice any of these signs, take the person's temperature. If it is below 95°, the situation is an emergency—get medical attention immediately. If medical care is not available, begin warming the person, as follows:

- Get the person into a warm room or shelter.
- If the person has on any wet clothing, remove it.
- Warm the center of the body first—chest, neck, head, and groin—using an electric blanket, if available. Or use skin-to-skin contact under loose, dry layers of blankets, clothing, towels, or sheets.
- Warm beverages can help increase the body temperature, but do not give alcoholic beverages. Do not try to give beverages to an unconscious person.
- After the body temperature has increased, keep the person dry and wrapped in a warm blanket, including the head and neck.
- Get medical attention as soon as possible.

A person with severe hypothermia may be unconscious and may not seem to have a pulse or to be breathing. In this case, handle the person gently, and get emergency assistance immediately. Even if the person appears dead, CPR should be provided. CPR should continue while the person is being warmed, until the person responds or medical aid becomes available. In some cases, hypothermia persons who appear to be dead can be successfully resuscitated.

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Image courtesy of saturniancosmology.org



Image courtesy of scientificamerican.com

The Cretaceous-Tertiary Boundary, a highly visible section. A layer of iridium and osmium are found in this layer, which sometimes is very thin, but sometimes as in the example shown, a thick layer of clay. The K-T Boundary was formed by a meteor, the crater of which is near Chicxulub on the Yucatan Peninsula. The Smithsonian Natural History Museum in Washington DC has a specimen of clay with a layer demarcated and core samples from the crater itself.

Last month's Guesser was Nancy Roberts. She won...absolutely nothing. She does have the satisfaction of being the only person that knew.



Image courtesy of scienceclarified.com



*Shonisaurus popularis*. Image courtesy of Nobu Tamura.  
<http://paleoexhibit.blogspot.com/?m=0>

A mass of 37 adult ichthyosaurs are found at this location in mountainous desert terrain. Found by miners, there are reports that they used some vertebrae as dinner plates. It has been noted it's a peculiar site. Stated by some that the bones seem almost arranged. Modern studies show that the water was extremely deep in this area, so they weren't stranded in a shallow pool. Some think a toxic algae plume killed them. There is a third, new theory...it's several theoretical tons of fun.

Answer next month. Send your answer to [nuggeteditor@gmail.com](mailto:nuggeteditor@gmail.com)







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