

Steve Henegar
3415 Northboro Court
Murfreesboro, TN 37129-1209

Forwarding and Address Correction Requested

First Class
Postage

**22nd Annual Gem, Jewelry,
Mineral and Fossil Show**

To:

**December 14-15, 2002
Tennessee State Fairgrounds
Creative Arts Building**

**9 a.m. - 6 p.m. Saturday
10 a.m. - 5 p.m. Sunday**



MID-TENN GEMERS

Newsletter of The

Middle Tennessee
Gem and Mineral
Society, Inc

P.O.Box 1256
Murfreesboro, Tennessee 37133-1256

Affiliated with:
SOUTHEAST FEDERATION OF MINERALOGICAL
SOCIETIES, INC.
AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES , INC.

VOLUME 24 NUMBER 11
November 2002

MIDDLE TENNESSEE GEM AND MINERAL SOCIETY, INC.

SOCIETY DIRECTORY 2002

OFFICERS

President	Lewis Elrod	615 893-8270
1st Vice President	Bob King	615 754-0095
2nd Vice President/Editor	Steve Henegar	615 896-1472
Secretary	Paula Vance	931 393-2491
Treasurer	Will Smith	615 366-1022

DIRECTORS

Past President	Marty Hart	615 331-2690
One Year	Anna Elrod	615 893-8270
Two Year	Max Grimes	931 393-2491
Three Year		

COMMITTEE CHAIRPERSONS

Show	Will Smith	615 366-1022
Dealer	Steve Henegar	615 896-1472
	Alf Futtrell	615 333-6205
Club Booth	French Gothard	615 872-0476
Show Publicity	Will Smith	615 366-1022
	LaVelle Smith	615 597-4571
Educational Displays	Paula Vance	931 393-2491
Facilities	Max Grimes	615 393-2491
Silent Auction	Joe Powell	615 883-4260
Ticket Booth	Barbara Ellis	615 893-2061
Library	Steve Henegar	615 896-1472
Education	Tina King	615 754-0095
Hospitality	Ann Buckner	931 358-3970
	Ruth Gothard	615 872-0476

MEETINGS

Third Thursday of each month at 7:30 PM in the Farm Bureau Building at 818 S. Church St. in Murfreesboro, Tennessee, except for the June picnic. Meeting dates are on the inside back cover.

E-Mail Address: steve.henegar@nashville.com

Internet Web Page: <http://www.mtgms.org>

MIDDLE TENNESSEE GEM AND MINERAL SOCIETY, INC.

REGULAR MEETING DATES 2001

January 17, 2002	July 18, 2002
February 21, 2002	August 15, 2002
March 21, 2002	September 19, 2002
April 18, 2002	October 17, 2002
May 16, 2002	November 21, 2002
June 20, 2002	December 19, 2002

SPECIAL EVENTS 2002

Annual Picnic	June 20, 2002
Annual Earth Treasures Show	December 14-15, 2002
Christmas Party	December 19, 2002

FIELD TRIPS

Field trips will be scheduled and announced in the bulletin and at meetings. See or call a member for further information.

MEMBERSHIP

The MTG&MS, Inc. is a non-profit educational society dedicated to the study and enjoyment of the earth sciences. We are open to the public for the education of all who wish to attend. Society membership is open to persons interested in the earth sciences. Applications are available on request from members.

DUES

Dues are \$12.00 for the first person of each household and \$2.00 for each additional family member. Dues are payable January 1st and are prorated in April, July and October.

Send dues to : **Will H. Smith**
5304 Bellecrest Drive
Antioch, TN 37013

SOCIETY MAILING ADDRESS

Middle Tennessee Gem and Mineral Society, Inc.
P. O. Box 1256
Murfreesboro, Tennessee 37133-1256

A SOUTHEAST FEDERATION OF MINERALOGICAL SOCIETY
INC. & AMERICAN FEDERATION OF MINERALOGICAL
SOCIETIES Affiliate



Swap and Shop

For Sale: Rough Rock \$1.00/lb - 100 lbs. for \$85.00. Your pick, Jasper, Agates, Tampa Bay Coral etc. June Miller (931) 598-9740.

For Sale: 6" Saws \$175-\$225, 8" Saw \$250.00 (like new w/vise), 18 lb Tumbler \$75, Cab makers. Cab Mate, Folsom & Dremel tools, sanding belts & disk, tumbling grit & polish, sphere machines, grinding wheels, welding torches, buffers, flat lap machines, 10" & 15" vibrating lap and a whole lot more at low prices. Call for info. George Jones (615) 333-3781) 5025 Franklin Rd, email georgejones@comcast.net

For Sale: New glass display case. 20.5" X 28.5" X 2.5". Never been used. \$25. Rock for sale—Outside rock except petrified wood and quartz \$.50/lb. Petrified wood and quartz—\$1/lb. Call Frances Mangrum to set up a time to visit. (615) 228-8577.

Swap and Shop is for Club members and friends of the Club to advertise goods and services for sale or swap. Want ads are also accepted.

Upcoming Events

**December 14-15 Middle Tennessee Gem & Mineral Society
Tennessee State Fairgrounds, Nashville, TN**

Have you caught on that our show will be in just a few short weeks?

MIDDLE TENNESSEE GEM AND MINERAL SOCIETY, INC.

Volume 24 Number 11

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MTG&MS

NEXT MEETING:

NOVEMBER 21, 2002

PLACE:

**FARM BUREAU
818 SOUTH CHURCH STREET
MURFREESBORO, TN**

TIME:

7:30 P.M.

PROGRAM:

BOB'S SPECIAL

BOARD MEETING:

6:30 P.M.

Presidents Message

There are several things to report on this month. I went to Tullahoma with a work party, headed by Will Smith, to work on our new shop at the Tullahoma Senior Citizens facility.

We had a good group attending and much work was accomplished. By the time you read this, the shop will probably be well along towards completion. Will had worked out plans and put us to work immediately moving all the "stuff" belonging to the Center to other parts of the building. Then we cut the existing shelves with a reciprocating saw and moved, and remounted, them in their new home. A young man who was working at the center came in and sorted and rearranged their possessions.

By the end of the day we had a dividing wall erected and one sheet of sheet rock mounted and another cut and ready to put up. The doorway was built and ready for mounting a door. Next trip will see much additional work and the Center is working on running power to the location of the shop.

The trailer will be at Steve Henegar's home by the time you read this and he will be working on the cases. Will Smith has talked to the Fairgrounds staff and they are interested in storing the cases in return for being able to use them at the annual State Fair. We hope not to have to move these cases again after this year.

I believe many of you will remember MTSU Professor Albert Ogden who spoke to us about groundwater and provided an extremely interesting program. He called me recently with wonderful news. MTSU is seriously considering adding a mineral museum to their school. He wanted to ask me to assist him with some information and this I, of course, agreed to do. He is interested in learning if local collectors would be interested in placing some of their collections on display in the museum for a period of three to six months. I told him that I was positive that some of us

What's New In Tullahoma?

Well a number of our members added a wall in the Tullahoma building where our Club will start it's second Lapidary Classes. The Coffee County Senior Citizens are providing us with space in a building next to their main building to do what we've done for so many years at Donelson.

We had a meeting with those interested in what we have to offer and it looks like we will start with 8 to 10 students in our first classes. Ken, Paula, and Max will be our instructors for a Tuesday and Thursday morning class beginning the first of January. Over time we want to add other classes based on interest. Get the word out to your friends in the Tullahoma area. We're going to need some help painting and setting up the shop, so let us know if your available.

Over the years we have a number of friends who have cleaned out their shop and given us cutting material for students and the silent auction to support the Lapidary Classes. We have not been so lucky this year, so look through your shop and find those started cabs, slabs, and rough which you know you will never complete. We will either use it in the Silent Auction or sell it to the students at Donelson or Tullahoma. What we charge students, goes to helping maintain the equipment.

Even if you have tools or equipment you do not use, consider donating them to the Tullahoma Class. It will be appreciated and allow others to learn our hobby.

Thanks,
Will Smith

It's Show Time!

By this time next month, we will be starting our 22nd Show. We need your help so volunteer for what ever you can do.

Again we will have 28 great dealers coming to our show this year. We need to make sure they are successful so take our flyers and place on store doors or bulletin board in your area. Even consider taking some to your church, school and Interstate Welcome Centers in your area. If your local paper has a calendar of events, see if they will include our Show information.

If you know of someone who you think would be interested in what we have to offer at our show, give Marty Hart their address and we will include them in our mailing just before the Show. It would be nice to have a record turnout for our dealers.

I'm going to try for a Show Meeting for 6:00 PM, Thursday, November 14 at Southern Belle Restaurant in Lavergne.

Thanks,
Will Smith, Show Chairman

MTGMS

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Tennessee State Fairgrounds
Creative Arts Building

**We need your help taking down on Sunday
afternoon!!!**

Have you gotten the impression we'd like you to help us out. All members can contribute to the success of the show just by spending an hour or so at the show working.

would be pleased to do so. I will be contacting some of you in the next few days to verify this but ask that you consider this and let me know if you would like to participate. We are, naturally, some time away from an opening as much must be done when agreement within the university is made. A building must be chosen, plans made, cases purchased and many other things. This is a wonderful opportunity for us to assist with a major "boost" to our hobby. Many persons will view the displays, school children will visit and return with their parents, etc. Think about this and be ready to "jump in and go to work" to help make this dream come through.

Our annual show is fast approaching and Show Chair Will Smith is going to need many hands to perform the jobs that will be necessary to put it on. Come to our November meeting, volunteer for a job and stay to vote for the officers of our society for next year. We will elect in November, install in December and they will take office January 1 of 2003. In particular our new Editor, Ingrid, will need our help. Why don't you write an article about some hobby experience of yours and submit it to her?

See you at the meeting!

Lewis F. Elrod, President

MTGMS

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**We need your help setting up on Friday
afternoon/evening!!!**

Now The News!!!

Board of Directors - 10/19/02

President Lewis Elrod opened the BOD meeting at 6:40 p.m. Quorum was present. First item noted was the untimely death of Jim Cole. Lewis will attend his estate sale the first weekend of November and purchase \$250 worth of rough stones for Donelson and Coffee Co. Senior Centers. Paula and Max will slab some rough for Coffee Co. Speaking of which, Will announced a work party (huh, some party) for 10/25/02 at 10:00 a.m. for Coffee Co. Center, to begin revision of existing space into a working lapidary teaching center!! Will and Ken Swann had talked, and felt it would be "politic" to name the new Coffee Co. lapidary center in honor of the Owens brothers. The motion to do so was approved unanimously. Will then slipped us a working statement for 2002 account - we spent more than we took in this year. Our not-for-profit status was discussed, and Will agreed to pursue obtaining that status.

Marty gave us the paper information for the two Tenn. Tech scholarship recipients for our archives. Bill announced an imminent move to other digs, and wants to sell some redundant inventory. Bob King then inquired about the club's insurance/liability status. We are covered. Meeting adjourned at 7:30.

Respectfully, *Paula Vance* - Secretary

GENERAL MEETING - 10/19/02

Meeting opened at 7:40 p.m. with Lewis's announcement that Marty Hart's son Chris had won First Place at SFMS and Honorable Mention at AMFED for his work as newsletter editor for the Nashville club! Congrats, Chris! Will Smith then asked for volunteers to help with building revision for the new Coffee County Senior Center Lapidary classroom. Ken, Lewis, Max and Paula were suckered in. Lewis then announced Jim Cole's demise, and

Found in *Leaverite News* via *Cedar Valley News*.

(Note, this reminds me of some items a friend from out west used to make and give away. He once mounted a tourmaline on a piece of Elmwood barite. Very nice, but not natural. LFE)

* * * * *

On the Web

This article will not be strictly something found on the World Wide Web but is something in which the web is involved.

The AFMS has something called "AFMS Education-All American Award." This is an award that is a competition that allows a club to show off their accomplishments. This requires the club to keep track of what it, and its members, do for the hobby. Some of these are:

1. Service to members and visitors at our meetings.
2. Services offered to members away from meetings.
3. Club publicity
4. Service to the federations.
5. Services to your community and the local area.
6. Services to distant communities or projects.
7. Services to or involvement in public agencies.
8. Special projects or undertakings that we are proud of.

I am very proud of our society and of the many things we do. I believe that we should start keeping better records of our accomplishments and compete for this award. Do I hear the voice of a volunteer who will keep these records and prepare our entry for the next year?

Lewis F. Elrod, President

In other cases the mineral won't form because the proper temperature, pressure or other geochemical conditions (such as acidity) were not achieved in the rock. For example, diamond won't form in a rock, unless certain conditions are met.

In yet other cases there is a true chemical incompatibility. It is because of this that quartz is never found with olivine, corundum, sodalite or lazurite. These minerals are just not chemically stable together. Does this mean if you put a piece of corundum next to a piece of quartz that they'll explode? Of course not. The point is that the two minerals will simply not form together in the same environment. If corundum forms, quartz won't form and vice versa. This reason is that corundum forms only in a low silica environment, but quartz only in a high silica one.

Let's consider a hot magma. There are not minerals in the magma—only loose atoms darting around. As the magma cools these atoms begin to bond together to form minerals. Let's suppose this is a low silica magma. There are lots of other chemicals, such as aluminum, around. The aluminum likes to link to what silica there is to form feldspars. But since this is a low silica magma, there isn't enough to go around. The extra aluminum has to go somewhere, so, when it gets concentrated enough it forms corundum. Now, let's suppose this is a high silica magma. All this aluminum finds silica and makes feldspar. Now there is silica left over, so quartz eventually forms. In the first case, you have a rock formed consisting of feldspar and corundum, in the second case you have a rock formed consisting of feldspar and quartz. You can never get a rock with quartz and corundum forming together in it. There are similar relationships between quartz and sodalite, olivine and several other minerals.

So, if someone offers you a specimen of corundum crystals embedded in quartz, start looking for the glue!

By Dr. Bill Cordua, University of Wisconsin at Wisconsin-River Falls,

the decision of the Board to authorize purchase of \$250 worth of rough stones for the lapidary classes.

Will stated the need for a brief Show Committee meeting after the general meeting this evening. Our attention was directed to the back tables, where several beautiful plaques were displayed, showing the names of scholarship recipients. Paula had also placed, for show-and-tell, a sample of the Guatemalan jade mentioned in the previous month's Rock & Gem she had been lucky enough to obtain. Lewis showed the group stones and findings purchased for demonstrations by members. Lewis announced an executive decision, to appoint a committee of one in the person of Lisa Trail, to advise the club in general and Board in particular of things from a "new person's perspective".

Marty announced the slate of officers for 2003 elections. They are:

President - Steve Henegar
 1st Vice-President - Bob King
 2nd Vice-President/Editor - Ingrid Regen
 Secretary - Paula Vance
 Treasurer - Will Smith
 Past President - Lewis Elrod
 1-year Director - Max Grimes
 2-year Director - Bill Buckner
 3-year Director - Ken Swann

Steve Henegar then attempted to conduct a sane stamp fund drawing, but it turned into a riot. Donors Johnny Hilliard, Paula to the Max, Bill Buckner, Al & Elsie Johnson, Cameron Byler, John Stanley and Steve White must have donated some pretty wild items for all the commotion. Thank you for your generosity, folks.

Bob King took over next for our program segment. He displayed

the Box of Rocks put together for the Tennessee Earth Science Teachers seminars, for distribution to the participants of the meetings. He then waded in hip-deep with the bad joke about a document re a wishing well in the Himalayas.....get the muck boots, somebody. Bowing out not so gracefully, he allowed Dr. Wayne Leimer to proceed with introduction of several visitors/students from Tennessee Tech, as well as our friend Marion Shepherd. Students Leslie Sanders, Gill Draper, Matt Osborne, Sara Beth Smith, and Stephen Schurger came along for this meeting. Dr. Leimer then filled in the group on his latest spring field trip, this time to Louisiana and the salt domes and mines as well as oil rigs and platforms even out into the Gulf. His trick photo at the end was fascinating. Have a gneiss day, friends.

Respectfully (well, maybe not so much) - *Paula Vance*, Secretary

(are you all really sure you want to put up with me for another year? This really is fun, at least for me, anyway!)

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MTGMS

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Creative Arts Building

We need your help to man the ticket booth, the member table and the Silent Auction on Saturday and Sunday!!!

Yes, someone has to sell tickets, work with grand prize registration and collect membership dues and applications. We also need help for the silent auction. Just an hour or two since you will be at the show anyway.

Around the Rockpile

For this month's column I chose to use one taken from a newsletter published by The Topeka Gem & Mineral Society, *The Glacial Drifter*, edited by Louellen Montgomery.

The article is titled *Minerals of the Wrong Feather Don't Flock Together*. I found the article to be most informative and entertaining.

Most rockhounds know that minerals are identified by their physical and chemical properties. Many also know that an important clue in mineral identification is association—certain minerals are often found together. For example, malachite often is found with copper and gold is often found embedded in quartz. What many don't realize is that another important identification clue is that many minerals are NOT found together. For example, lazurite, sodalite, and corundum are never found associated with quartz. As another example, beryl does not occur with dolomite in our local limestones. Well, why not? Doesn't that seem a bit arbitrary? Isn't "never" sort of a strong term to be used by a scientist? It turns out that there are good chemical reasons why this is so.

In some cases, it is simply a matter of a particular rock type not having the needed chemicals to make the minerals. There is no chemical compatibility between dolomite and beryl in limestone. Why not? In order to make beryl, you need to have beryllium, a chemical present, in, at best, trace amounts in most limestones. By analogy, you can't make a chocolate cake with no chocolate—no matter how hard you try. The fact that chemicals tend to segregate in certain places in our earth leads to the commonly observed mineral associations. Certain granites have a lot of beryllium in them—it's an element that tends to accumulate in such magmas. Thus beryl is found in granites, along with the typical quartz, feldspar, mica and tourmaline.