

NOVEMBER-DECEMBER, 2024

NEWSLETTER OF THE
SOUTH CENTRAL FEDERATION
Of Mineral Societies



Member of: American Federation of Mineral Societies

ON THE COVER

Chihuahuan Desert: Big Bend National Park-Texas

Sagebrush blooms in the Chisos Mountains, in Big Bend National Park, in southwestern Texas. The park lies within the Chihuahuan Desert. © *jamespharaon—iStock/Getty Images*

Remote and frontierlike, Big Bend National Park in southwestern Texas lies 250 miles (400 kilometers) southeast of El Paso, along the Rio Grande. The Mexican states of Chihuahua and Coahuila lie across the river. The park occupies 1,252 square miles (3,243 square kilometers). It was established in 1944. Named for a wide bend in the Rio Grande, the park has magnificent mountain and desert scenery, deep canyons carved by the river, and spectacular geologic formations.

The park is located in the northern third of the Chihuahuan Desert, which extends across the Rio Grande into the United States from northern Mexico. Precipitation in the southern portion of the park is less than 4 inches (100 millimeters) a year, and summer temperatures there can exceed 115 °F (46 °C). Typical vegetation includes such desert plants as ocotillo, yucca, and creosote bush. Many kinds of cacti, including prickly pear and strawberry, thrive in the park. Mule deer, coyotes, jackrabbits, roadrunners, kangaroo rats, and rattlesnakes are typical wildlife. A wide variety of birds, as well as bats, are common.

The Rio Grande has carved a deep, often narrow canyon into the landscape. Cottonwood, acacia, willow, and mesquite trees are found along the river. Canoe, kayak, and inflatable raft trips are popular in the park.

Rising toward the center of the park are the Chisos Mountains, which reach an elevation of 7,825 feet (2,385 meters) at Emory Peak. Annual precipitation in the high Chisos is about 25 inches (635 millimeters), and temperatures are usually 10 to 20 °F (6 to 11 °C) cooler than those in the desert below. Above 4,500 feet (1,400 meters), forests of juniper, oak, and piñon pine appear in the mountains. White-tailed deer and pumas are found at these higher elevations.

More information can be found here:

<https://kids.britannica.com/kids/article/Big-Bend-National-Park/633084>

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SOUTH CENTRAL FEDERATION OF MINERAL SOCIETIES, INC.

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Secretary: Vacant

Treasurer: Henry Rojas

Web Master: Don Shurtz

**Exec. Secretary:
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**AFMS Endowment Fund Raffle
for SCFMS: Walt Benezé**

**SCFMS Endowment Fund
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**Nominating Committee –
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Past President: Roger Burford

For more information or to send information to the SCFMS or an officer, please email:

scfmsinformation@gmail.com



PURPOSE

*To promote popular interest and education in the various earth sciences, in particular those hobbies dealing with the art of lapidaries and the science of minerals, fossils, as well as their associated fields.

*To cooperate with educational and scientific institutions or other groups engaged in increasing knowledge in the earth sciences.

*To cooperate with or become members of similar Federations in the United States and elsewhere.

*To assist in the formation of earth sciences societies in localities where public interest justifies their formation.

**E-MAIL ADDRESS
CORRECTION AND CHANGES**
It is each members responsibility to send your email address corrections to the SCFMS Editor:

Susan Burch,
scfmseditor@yahoo.com

**NEWSLETTER PUBLISHED
BIMONTHLY**

DUPLICATION

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A NOTE FROM —THE EDITOR—

THE FINAL DEADLINE, ETC.



For each newsletter the deadline is the 20th of the month prior to scheduled publication. February-April-June-August-October-December all provide the deadline for the following bi-monthly issue. Although, the Editor may chose to adjust the deadline due to circumstances.

As a reminder! Shop hints and tips that are used in this newsletter have not been evaluated for safety or reliability by myself. Please use caution and safety when trying out any new idea. Please, if you have something urgent give me a call, but send newsletter content via email.

ANNUAL SHOW 2024

November 23-24, 2024

ANNUAL MEETING

November 23, 2024

**SCFMS WEB-SITE:
WWW.SCFMS.NET**

The SCFMS is a member of the American Federation of Mineral Societies. amfed.org

NEWSLETTER EDITOR/BEAC:

Susan Burch
scfmseditor@yahoo.com





For this newsletter, I would like to cover some of the items from my Annual Convention Report. The Report has been distributed by email to the clubs/societies and the SCFMS Officers and Committee Chairs, but may not have reached more than just the addressees in the email.

Sending information to the clubs/societies brings up one of the fundamental problems we are having. Societies/Clubs are not letting us know when they change officers or other pertinent information about the society/club (e.g. meeting days or times). We have a Club Information and Officer Form on the web that should be submitted whenever new officers or club information are changed. The form should also be submitted once yearly. The form is the basis of the Directory. For this year, I asked each club/society to submit an Officer Form with their Dues and Insurance Form, the response has been about as expected – 50% (give or take) have submitted a recent form. The form provides the information for the SCFMS to communicate with the societies/clubs. For about 50% of the societies/clubs, we are using information from the 2023 directory – and some of the 2023 information was actually from 2022. I will be working on the 2024 Directory in December. If you have not sent a form recently, expect an email or call in December requesting the form be submitted.

Speaking of 50% - about that percentage of the Committee Chair positions remain open. Most of the Committee positions will take less than 15 hours of effort over the year to fill the position. Please review the Committee list on the SCFMS Website (www.scfms.net) and see if anything catches your interest. You do not have to be a SCFMS or Society/Club officer to be a committee chair or member.

At the convention, I would like to discuss several items on how to make the SCFMS more efficient and effective. I would like to discuss that we move to Zoom for our Annual Delegate meeting. This would save us the travel expense of most of the officers and a few key committee chairs. That savings could be folded back into reducing the annual dues. We would still need to have some representation at one of the club/society shows for the annual Competitive Dis-

play Case judging. This would significantly reduce the footprint if compared to the current Convention activities (Editor/Webmaster Breakfast, Delegate Meeting, Awards Banquet, etc.). I would also like to review how we elect the District Vice Presidents. They are elected at the convention by all the officers and delegates. However, the districts represent just a small fraction of the SCFMS areas of responsibility. I think we could have the District VPs voted on by the Member Societies/Clubs of each District, or possibly be a position that rolls from one Club/Society President to another Club /Society President in a predefined manner. This would require a change to our Constitution, By-Laws, and Operating Procedure so could not be voted on and implemented until next year. I would like to discuss or establish a committee to review all of the current committees to see if they can be eliminated or combined to reduce the number of Committee Chairs and Members required. Finally, I was recently asked how one entered the SCFMS Lapidary contest. We do not have a lapidary contest, but perhaps we should. We have Competitive Case Displays, Editor and Author contests, and Website contests, but I believe many of our members are interested in cutting, polishing, and working stones and minerals. A yearly contest may spark interest from a lot of SCFMS Members. The details of such a competition would have to be worked out. (OH NO – IS THAT YET ANOTHER COMMITTEE?)

I hoped to see a representative of every society/club at our convention in Dallas. However, based on the number of Delegate forms received, that is not going to happen. I am holding out hope that at least 50% of the clubs/societies will be represented.



*Don Shurtz,
SCFMS President*





SCFMS EDITORS AND AUTHORS CONTEST

By Don Shurtz

Entry Deadline: January 6, 2025

Entry Forms: Use the Entry forms on the AFMS Website at <https://www.amfed.org/contests/bulletin-and-special-publications>

Entry Guidelines: Guidelines are currently available on the AFMS website at the link shown above. However, the Guidelines have some information that is specific to the AFMS contest only and that information should be disregarded - let common sense prevail.

Entry Submission: Whether your newsletter is published in print or online only--One item per club (bulletins and Special Publications) or per author for each category. The exception is that you may enter two items in the Features Category - one Written Feature and one Drawn Feature. Only one Newsletter/Bulletin published in 2024 may be submitted - pick your best or favorite. Make sure you review the Bulletin Size limitation in the Guidelines. Similarly, only one Special Publication from 2024 per club may be submitted. For the Articles and Poetry Categories, only one article or poem per author may be submitted. See the exception above for the Features category. Each item entered must include 3 printed copies and each copy requires an attached score sheet. For your digital entry to accompany your printed copies, you may enter by flash drive (preferred), email, or as a last resort, by CD/DVD.

Printed copies should be sent to:

Susan Burch
SCFMS Editor/BEAC
10911 Holly Springs Drive
Houston, TX 77042

Digital entry email option please, send to:

scfmseditor@yahoo.com

TIPS FROM THE PAST A GUIDE TO PICKING GOOD JASPER

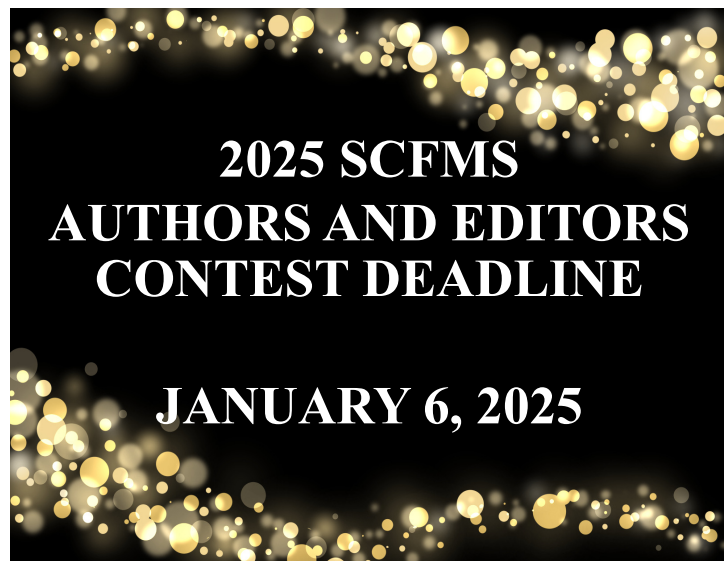
Submitted by LuAnn H Benton, SDMG Historian*

JASPER IS MUCH MORE troublesome to polish than agate because many varieties are "earthy" and porous, and others contain hematite, which itself is difficult to polish. If you are on a field trip, a good way to test jasper is to wet it. If it adsorbs the water and dries rapidly, throw it away. It will not polish. If it stays wet and does not dry right away, it contains a high amount of chalcedony and will take a good polish. Most jaspers polish well on leather with Linde-A, but good results can be obtained with tin oxide on either leather or felt. Always remember that a fine sanding job is the secret of good polishing.

*Originally from T-Town Rockhound (n.d.) via Gem Carvers Guild of America (2001 Dec); and The Pegmatite. (2004 Jun-Aug). Via Breccia, October 2024



Photo above: Red and yellow jasper of variable quality found at Lavic Siding. Some of the material shown here is porous or contains eye-visible organic or clayey components, which makes them poor candidates for carving. Photo: L. Thoresen.



SMILES

Not all jewelry projects are equally enjoyable. For example, enlarging a drilled hole is boring, but fastening two pieces of metal together is riveting.

I can cut a piece of silver just by looking at it. I saw it with my own eyes.

*By Two Incurable Punsters; Monica Borucki and Jo Borucki

A Rockhound is Somone...

Who would rather go to the Tucson Gem and Mineral Show than visit Hawaii or even Paris!

Who coordinates her clothes to match the rocks in her gemstone pendant.

From Breccia, October 2024




67th Annual Dallas Gem & Mineral Show

This year we are hosting the
South-Central Federation of Mineral Society's Annual Meeting

November 23, 2024
10am - 6pm

November 24, 2024
10am - 5pm

**Mesquite Convention Center, 1700 Rodeo Drive, Mesquite,
Texas. I - 635 & Military Parkway (Exit 4)**

Adults - \$8, Kids up to 12-\$4, Family of up to 4 - \$20
Veterans, Teachers & Humans over 65 w/ID - \$5,
Free Admission to Scouts in uniform, Parking is FREE

**Grand Prizes - Silent Auction - Raffles - Kids Area and Activities - Wheel of Fortune -
Fossils - Jewelry - Slabs - Rough - Beads - Fluorescent Display - Demonstrations
include - Wire-Wrapping - Knapping - Stone Polishing (Cabochons) - Faceting**

Facebook/DallasGemandMineralSociety

www.dallasgemandmineral.org

SEEING RED

WORD SEARCH PUZZLE

By Susan Burch

How many minerals and gemstones which manifest the color red can you name? The list below is actually only about half of the ones I found and I'm sure there are many more. Please, use the list at the bottom and find as many as you can in the puzzle.

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



- CORAL SPESSARTINE RHODOLITE SUNSTONE APATITE CARNELIAN
- JADE DIAMOND OPAL TOPAZ QUARTZ LABRADORITE RUBELLITE
- PROUSTITE CORUNDUM ONYX TIGEREYE FLUORITE TOURMALINE
- RUBY ALMANDINE SPINEL PYROPE AGATE GARNET JASPER
- BIXBITE



Solution found on Page 9



FUTURE ROCKHOUNDS OF AMERICA UPDATE!

By Lora Hall

We are excited to announce the updated 2024 Showmanship Badge!

New! Pictures of amazing juniors and their amazing displays at local shows, 4-H events, science fairs, and AFMS competitions that we hope will inspire the juniors in your club.

New! We have included several pages explaining how easy it can be to enter a competitive exhibit at your regional and national AFMS shows.

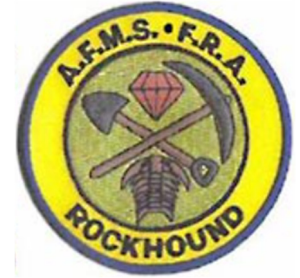
Rule Clarification! When entering a regional or national AFMS competition, the junior exhibitor **IS NOT** required to be at the show and may designate someone to set up their display case by providing photographs or diagrams of the finished layout. Not every junior has the opportunity or the ability to travel to out of state shows. This will make it possible for all juniors to showcase their amazing talents and be eligible for regional and national ribbons, trophies and scholarships.

New! The requirements to complete the badge now includes an **option to complete activity 6.4 or 6.5**, giving juniors more choices and more ways to showcase their work.

We deleted the sample judging forms found in the older version of the Showmanship badge. In feedback we received from new leaders, some were confusing the sample forms with the official judging forms used in regional and national AFMS shows. If you are more comfortable using the older version of the Showmanship badge, you are more

than welcome to continue using it but we feel confident you will like the new streamlined version.

(A heart felt thank you to the late David Wayment of the SFMS for his vision of encouraging juniors to enter AFMS competitive displays.)



Coming Soon! The New Sand Badge

This badge will expand on activities in World of Miniatures and introduces juniors to the international world of Arenophilia or Psammopilia depending on whether you prefer the Latin or the Geek word for the hobby of collecting and studying sand. The badge will be unveiled at the March 2025 AFMS/EFMLS Convention in Hickory, NC. And yes, we will be expanding Rock Pals Rock Exchange to include trading sand samples from around the world!

(A special thank you to Lori Carter of the SFMS and President of the International Sand Collectors Society for spearheading this new badge.)

As always, if you have any questions or concerns, I am here to help.

Lora Hall

AFMS Junior Programs Chair

youth@amfed.org

www.juniors.amfed.org

406-370-1863

Find the badge program here:

<https://www.juniors.amfed.org/fra-badge-program>

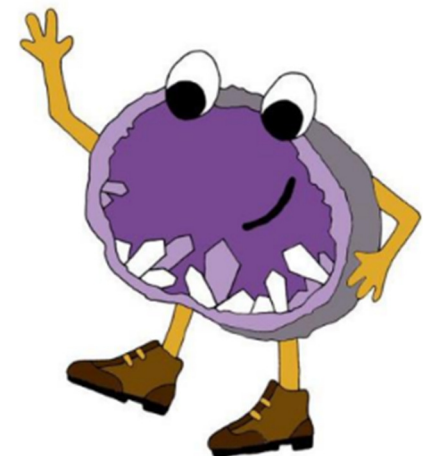
LOCAL FUTURE ROCKHOUNDS OF AMERICA ACHEIVEMENTS

Micaden Steele from the Lubbock Gem and Mineral Society has earned the AFMS Junior Volunteer Award for 20 hours of volunteer service! Micaden is 1 of only 14 Juniors from across the county to earn this award.

Averly Cerbantez and Micaden Steel earned their Future Rockhounds of America (FRA) Rockhound Patch for completing 6 badges.

Alev Cerbantez has earned the George the Geode patch for his article in the junior's newsletter "Crack the News".

In total, the Lubbock Gen and Mineral Society Junior Club has 38 members, and all together their juniors have earned over 30 badges this year.

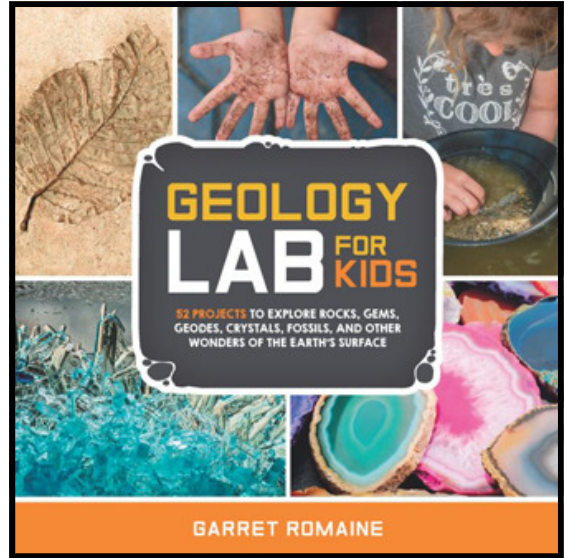
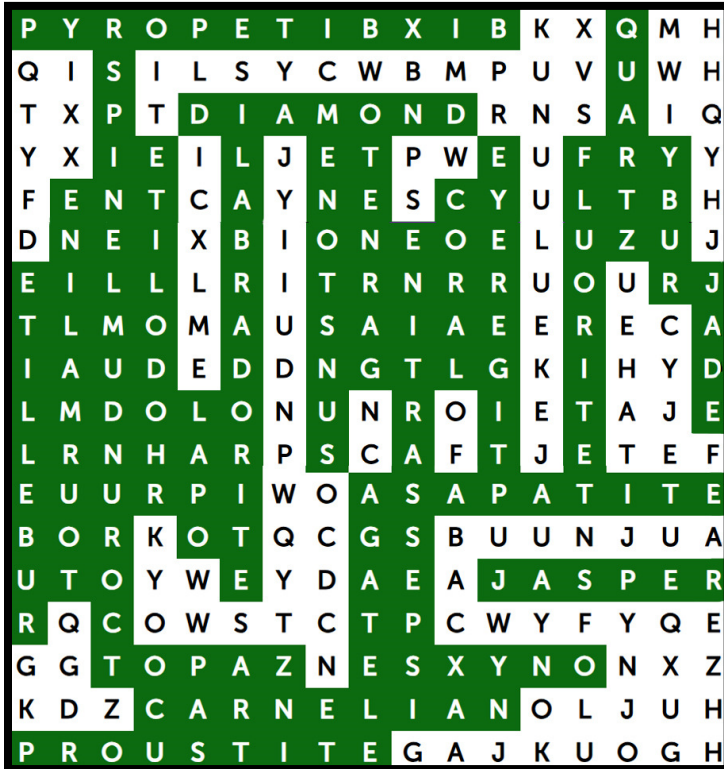


George the Geode

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SEEING RED

WORD SEARCH PUZZLE SOLUTION



Reprinted with permission from Author, Garret Romaine. Please, include the link below.

<https://www.amazon.com/Garret-Romaine/e/B0037187T8>

LAB 26 SUNNY EXPOSURE

Watch the sun's rays fade images and make things look old. What does it do if it bakes a cliff all day, every day, for millions of years?



MATERIALS

- Masking tape
- Cookie cutters, in various shapes and sizes. You can also use leaves, but you'll have to use tape on their back side to keep them from moving.
- Several different types of paper— newsprint, magazine pages, common printer paper, etc. If you can find sun-sensitive paper, that's the best to use, but it can be hard to find.
- Lab notebook and pen or pencil

Continued on Page 10



THE EAST TEXAS GEM AND MINERAL SOCIETY
PRESENTS
The 28th Annual
GEM AND MINERAL SHOW

Gemstones • Jewelry • Minerals • Fossils

January 24, 25 & 26, 2025

ADMISSION: Adults: **\$8.00** Children and Students: **\$4.00**

<p>EXHIBITORS & DEMOS</p> <ul style="list-style-type: none"> • Texas Thru Time Museum • Stephen F. Austin University • Discovery Science Place • Planetarium Show "Rocks in Space" Saturday & Sunday Only • Tyler Junior College • Lapidary Demo • Wire Wrapping Demo • Fluorescent Mineral Display • Rock Aquarium 	<p>SALES & DISPLAYS</p> <ul style="list-style-type: none"> • Crystals • Minerals • Fossils • Geodes • Gemstones • Jewelry • Carvings • Towers/Spheres • Meteorites <p>SPONSORSHIPS AVAILABLE</p>	<p>PRIZES, AUCTIONS & GAMES</p> <ul style="list-style-type: none"> • Raffle Prizes • Hourly Prizes • Silent Auction Saturday & Sunday Only • Adult Grand Prize • Kids Grand Prize • Kids Games <p style="text-align: center;">HOME OF THE WORLD RENOWNED ROCK FOOD TABLE</p>
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SHOW HOURS:
Friday: 9 am - 5 pm • Saturday: 10 am - 6 pm • Sunday: 10 am - 4 pm

TYLER ROSE GARDEN CENTER
420 ROSE PARK DRIVE, TYLER, TEXAS



WWW.ETGMS.ORG

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Safety Tips

- Avoid direct exposure to the sun for prolonged periods, and always wear sun-screen—even on cloudy days!
- Watch out for hot surfaces.

PROTOCOL

STEP 1: Use masking tape to cover the cookie cutters so that the whole image acts as a stencil.

STEP 2: Place your different sheets of paper outdoors, then arrange the cookie cutter images so that you still have lots of paper exposed. If it's windy, you may also perform this experiment indoors on a windowsill, but direct sunlight is best. If you use photographic paper, keep it upside down until the last moment.

STEP 3: Note the time, and begin regular observations. Do not move the cookie cutters around, or else you will blur the lines. When you first begin, you might want to make predictions about which kinds of paper will react faster in direct sunlight.

STEP 4: After six hours, remove the cookie cutters and observe what is happening to the exposed paper and the unexposed paper. Take notes on color, how much sun is out, length of time, etc. If you used photographic paper, you won't have to wait that long.

STEP 5: Continue exposing the paper to the sun as long as you'd like—up to three or four days, or even more. How did your predictions come out?



Creative Enrichment

1. Tape different materials over the cookie cutters and determine what effect they have.
2. Try as many different kinds of paper as you can find.



THE SCIENCE BEHIND THE FUN

The sun not only beams light down on the surface of the Earth, but it also releases ultra-violet rays. Anyone who has had the misfortune of getting a sunburn knows just how relentless those rays are. Your skin has no good defenses unless you have a lot of pigmentation, and even that is not protection for most of us.

There are two ways that the sun helps break down rocks. First, there is heat. Under the rays of the sun, rocks tend to build up heat to a point where they can be hot enough to cause blisters when picked up. Heated rocks tend to expand, which can produce tiny cracks. When rocks heat up during the day and cool off at night, this results in a kind of push-pull effect

where the rocks expand and contract continually, which can break down the chemical bonds that make rock-forming minerals.

Second, the streaming UV rays start a chemical reaction on many of the materials they reach. Combined with the tendency of water in the air to help oxidize materials, sun rays break down molecules and immediately begin to "age" whatever they touch. Like the paper you used in your experiment, the sun may dry out material, turn it different colors, or even burn off chemicals. The result is that the sun tends to age whatever it touches, and, while slow, it is still effective over millions of years.

BENCH TIPS BY BRAD SMITH

PIECE OF LEATHER

Leather has a multitude of uses in the shop. I often use a scrap of it to work on to avoid scratching the back of a piece of jewelry while setting stones. It's also great for times when you need to clamp one of your tools in a vise, for instance a drawplate. Scraps of leather can be salvaged from purses or belts that are being thrown out.

DIVIDERS



A set of dividers is a tool I find very useful in laying out the geometry of a piece I'm making. It has two needle-like tips with an adjustment to set the spacing between them.

They can be used to transfer a measurement. Let's say you need a 7mm wide strip of sheet metal. Set the spacing between the divider tips to 7 mm on the ruler. Then lay the sheet on the bench, put one tip against the edge, and run the dividers down the edge scribing a line parallel to the edge.

Dividers can be used to mark equal segments of a line or arc. For instance, assume a line between A and B that might be straight or curved, and you want to divide it into 5 equal lengths. Set the dividers to an estimate of the distance. Starting at Point A, use the dividers to mark off five lengths along the line. If you end up short of Point B, lengthen the distance on the dividers. If you end up overshooting Point B, shorten the length of your dividers. After a few tries, the length on the dividers will be the exact distance you need to mark the 5 segments.

Dividers can let you quickly find the center of a circular disk. With one tip of the dividers at the edge of the disk, set the other tip to an estimate of where the cen-

ter might be. Fix one tip of the dividers at the 3 o'clock position and scribe an arc with the other tip near the center. Do this again from the 6 o'clock, 9 o'clock, and 12 o'clock positions. The arcs at the center will form a small four-sided box. The center of the box is at the center of the disk.



Brad Smith

TOUCHING UP A BEZEL

Pumice wheels are good for touching up a bezel after you've set the stone. The hardness is about 6 on the Moh's scale, less hard than quartz, so it shouldn't scratch any of your agates or jaspers. However, I'd avoid or be really careful of using pumice near the softer stones like turquoise, amber, howelite, etc.

If you're unsure about the hardness of your wheels, test them on a piece of glass. Glass is about 5 ½ on the Mohs scale, softer than quartz. So if the wheel doesn't harm glass, it's safe for use on the quartzes and harder stones.

My preference is the one inch diameter ones such as those shown at riogrande.com/Product/AdvantEdge-Pumice-Wheels-Medium/332722?pos=2

WINDING JUMP RINGS



If you need a few jump rings the same size, it's easy to grab a round rod and wind as many as you need. But when you need a lot of them, some form of winder

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saves a lot of time. A variable speed screw gun makes quick work of winding the coils. Screw guns are quite inexpensive at discount stores and are remarkably handy for odd jobs in the shop and around the house.

To wind a coil, just bend a right angle on the end of the wire about a half inch long and insert this into the screw gun chuck. Then wind slowly, keeping a tight coil. I like to rest the end of the mandrel on the edge of the table or bench pin. Finally, one note of caution. If you are winding an entire length of wire, be careful as you get near the end of the wire. If the end passes under your thumb, it can cause a nasty scratch or cut.

Making jewelry involves a multitude of skills, intricate hand work, and a lot of problem solving. In this book series find help to:

- Broaden your metalworking skills
- Improve productivity at the bench
- Save money on tools and supplies

See Other Tips in my Smart Solutions for Jewelry Making Problems

<http://amazon.com/dp/B0BQ8YVLTJ>

Happy hammering,

- Brad Smith

BradSmithJewelry@gmail.com



CONTRIBUTIONS WELCOME!

SCFMS exists for the benefit of our member clubs and we are all volunteers. Please consider enriching our club by making a photo, drawing, or written contribution to the newsletter about a geology or earth science related topic.

Pick a topic that interests you and give it a go. Please send it me at scfm-seditor@yahoo.com by the 25th of the month prior to the expected publication date and I would be glad to work with you to finalize your item for this newsletter.

Please, be sure to send me your show flyer at least several months in advance so, I can share it in our newsletter more than once.

Susan Burch, Editor

**JANUARY-FEBRUARY,
2025, NEWSLETTER
CONTENT DUE BY
DECEMBER 25, 2024**

UPCOMING SHOWS 2024/2025

November 23-24, 2024—MESQUITE, TX, DALLAS G&MS, Mesquite Convention Center, see more details elsewhere in this issue. Website: www.dallasgemandmineral.org. COMBINED WITH THE SCFMS CONVENTION.

January 18-19, 2025—FREDERICKSBURG, TEXAS: Annual show; Fredericksburg Rockhounds; Pioneer Pavilion, Lady Bird Johnson Park, Hwy. 16 South; Sat. 9-6, Sun. 10-4
Website: fredericksburgrockhounds.org

January 24-26, 2025—TYLER, TEXAS: Annual show; East Texas Gem & Mineral Society; Rose Garden Center, 420 Rose Park Drive; Fri. 9-5, Sat. 10-6, Sun. 10-4; Website: <https://www.etgms.org/>

February 15-16, 2025—GEORGETOWN, TEXAS; Williamson County Gem & Mineral Society Show; Sat 10:00 - 6:00, Sun 10:00 - 4:00; San Gabriel Park Community Center, 445 E Morrow St, Georgetown, TX 78628; Website: <http://www.facebook.com/WilliamsonCountyGemSociety>



Thank
You

To those who helped make this issue possible...

Don Shurtz

LuAnn H Benton, SDMG Historian

Lora Hall

Garret Romaine

Brad Smith