



LAPHOUND NEWS

VICTORIA LAPIDARY & MINERAL SOCIETY

P.O. Box 5114, Station B

Victoria, B.C. V8R 6N3



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The Newsroom


Announcements

VLMS and BCLS Membership

Membership in the Victoria Lapidary and Mineral Society (VLMS) runs from January 1st to December 31st of the year, independent of the date one originally joins the club. As a result, everyone's membership is now due for renewal. Becci would like to send all the membership information to the BCLS in the 1st week of January, so please take the opportunity of renewing as soon as possible. Membership can be renewed by **one** of the following methods:

1. fill out the Google form using the link supplied below

[2022 Victoria Lapidary and Mineral Society Memb...](#) ,

2. fill out a paper form available at the Christmas Dinner (see Club Events section below), or
3. print this pdf file,  [2022-VLMS-membership-Application-form.pdf](#), fill it out and mail it (and a cheque) to:

VLMS Membership Secretary
4711 Kasani Place
Victoria, V9C 4C7 .

Please note, due to Covid and the restrictions it has placed on our activities, if you were a member in 2020, your membership for 2021 was free of charge. However, memberships due for renewal in 2022 will be charged the usual fees as outlined on the form. If you joined the club this year as a new member and paid fees for this year, those fees will be applied to next year's membership and you do not need to pay again, however you **do need to fill in the form for 2022** to indicate you wish to continue with the membership. This is a one-time special circumstance due to the Covid situation.

Payment can be made using one of the following methods:

1. e-transfer to treasurer@vlms.ca - use a security question where the answer is "**membership**" such as "what is this for?",
2. by cheque sent by mail or delivered in person at the Christmas dinner, or
3. by cash in person at the Christmas dinner

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Finally, your membership fee to the Victoria Lapidary and Mineral Society (VLMS) includes a membership in the [British Columbia Lapidary Society](#) (BCLS), which in turn, is a member of the [Gem and Mineral Federation of Canada](#) i.e., the "GMFC" and the Outdoor Recreation Council (the "ORC"). As a member you are welcome to join their events, shows and field trips which you can find through the links provided above. Your fees also go to insurance coverage for participation in club meetings, field trips and events.

Club Events

December's Christmas Special

We will be hosting a club Christmas dinner on Monday, 6th December. The club will supply the turkey, and everyone is encouraged to bring a dish. If you would like to join us, please click on the link provided below to see what other people are planning to bring so we can avoid duplication.

[Christmas dinner \(pot luck\) planning form \(Res...](#)

Please fill in the form (contained in the above link) to say what you plan to bring; your form answers will be automatically added to the organizer's spreadsheet. The dinner organizers are:

Barb McKenzie barb.mckenzie@vlms.ca and Susannah Andersen susannah.andersen@vlms.ca.

Dinner Location: Burnside Lawn Bowling Club, 274 Hampton Rd, Victoria, BC V8Z 1H1 (the usual meeting place).

Date and Time: 6:00pm to 9:00pm, December 6th.

Please note, in addition to your pot luck dish, please bring your own cup, plate and utensils. We will have a gift exchange - no more than \$20 value and homemade gifts are encouraged. We will also be taking a collection of foodstuff (non-perishables) for the Mustard Seed food bank.

Field Trip

Sean is offering to run a field trip on Sunday, November 28th along Island View beach. Participants should meet at the Island View Park parking lot at the end of Island View road.

Where: Island View Beach

When: 9 am to 12 noon (ish)

Difficulty: Easy

Island view is a good beach for general beach combing and to look for fossils. On a previous trip a club member found a huge piece of Dallasite - our club stone. On the 28th high tide is at 11:30 in the morning, so we will be rock hunting with a rising tide, but this should present no problems. This beach is an easy walk, suitable for all ages and fitness levels.

Numbers are not limited, but please use the link below to sign up if you plan to join the field trip so we will know when everyone has arrived. If your plans change and you no longer plan to join, please contact fieldtrips@vlms.ca to let Sean know.

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[Island View Field Trip sign up form for November...](#)

As the field trip is outdoors masks will not be required and vaccine passports won't be checked. Please note field trips are limited to members only as our insurance doesn't cover guests.

Annual General Meeting

A reminder that our Annual General Meeting is to be held on January 3, 2020 at the Lawn Bowling hall that we usually have our meetings in. This meeting is an important one since it involves the election of the club's Board of Directors and the placement of the Appointed Positions. Several Board

and Appointed positions are up for renewal; some positions currently have members willing to renew their position and some do not (a list is provided below). Please contact vlms@vlms.ca if you are interested in supporting our club by volunteering for one of the following Board of Director roles:

- a) Member-at-large,
- b) Laphound News Editor, and
- c) Workshop Coordinator,

2022 VLMS Rock and Gem Show – Leonardo Da Vinci Centre – March, 2022

Planning has started for the annual March Rock and Gem show for 2022. Get involved as a volunteer or a participant (vendor) ... please contact showchair@vlms.ca.

Meetings

The next “meeting” is wholly devoted to the Christmas club social. See Announcement above for details.

Courses (Silversmithing)

Course work is suspended until the Workshop comes available. There may be hope for independent silversmiths as per Vanessa’s report below.

Reports

President (John)

Hello fellow Rockers! As the season outside tells us, the summer is a distant memory. The rain is coming down as I write this, but I can easily drift back to place and the treasures we discovered this year, it is with awe and wonder that we live in such a beautiful place.

Thank you all for coming out to the Barbecue in September. It was a lot of fun. Likewise, the October show, Rough to Ready, was a great success and I hear lots of treasures were bought and sold. Thanks goes out to the Show Chair and all the volunteers who made all the sacrifices to bring it all together..... way to go!

In an attempt to keep momentum going, we pushed ahead to get an annual meeting on the first Monday of November – all the thanks goes to Yvan for all his persistence in not giving up ... yay Yvan. Now, looking ahead at the Christmas season, somehow things look brighter even though the days are getting shorter. We hope you sign up for the Christmas Party on December 6.

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Finally, Susannah and I would like wish you all a Merry Christmas and a Happy New Year and may **All Your Rock and Mineral Dreams Come True.**

Workshop (John)

There is no change at the workshop and activities there will likely continue to be suspended until we hit stage 4 in the Province’s Covid Recovery Plan. Silver Threads does not want to engage in any agreement until the covid issues have been dealt with.

March Show Committee (Sarah)

Planning is underway for our 2022 Rock & Gem Show. The first Show Meeting will be held via Zoom on November 22nd at 6:30 pm. Please email showchair@vlms.ca if you would like to attend. If you are unable to attend (or cannot access Zoom) but would like to be a part of the Show Committee, please send email or call/text me directly (250)974-7272. Questions, suggestions and ideas are always welcome.

A new document called Invitation to Apply is available on our website outlining how new vendors are

chosen as spaces become available, with detailed information about what the Show Committee is looking for in applications from new vendors. I am excited to be serving the club as Show Chair, and I look forward to working with you all.

Rough-to-Ready Members Event (Vanessa)

Our 4th annual Rough to Ready Rock Fair which ran on the weekend of October 16th and 17th, concluded as a "big success" as noted by vendors able to participate, by the many show visitors, and by the profits contributed to the club from door sales (after expenses).

A huge thank-you goes out to all our wonderful volunteers that came out to help. Karen R., Arlene and Steve Modderman, Kathy W, Sienna, Earl, Nick Spit, Jeanny V, Cathy Whyte, Rita Tsm (Amy), Allana, Sean Meyers, Leonard and Alta Combrinck, Cari, Yvan, Laura, Gary B, Brian, Dave R. Margaret B. and more that came by to help out, as without volunteers, our shows would not be possible.

Metalsmith Workshop (Vanessa)

Planning is in progress but I regret that we have still not been able to finalize a location and a time for this monthly workshop as yet. Once a location, dates and times have been confirmed, an email will be sent out to past participants of the workshop and to all club members to advise. To participate in the workshop you must have your own tools and silver supplies, as well as previous silversmithing experience.

2022 Rendezvous

Rendezvous is the British Columbia Lapidary Society's annual gathering and features field trips, displays, auctions, and our annual general meeting. This year it will be held on Vancouver Island, June 2-6, at

**Coombs Fair Grounds
1014 Ford Rd.
Coombs, BC**

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For more information visit the BCLS website.

Membership (Becci)

As of November 1, 2021 the total membership count stood at 111.

Field Trips (Sean)

Monthly field trips are planned for the New Year.

Social Committee (Susannah)

Social Committee Report for Laphound News

November 2021

The Full Membership Meeting and BBQ September 13th, 2021

- On September 13th, a Full Membership Meeting and BBQ, was held at the Da Vinci Center.
- We secured Lori, from Lori's Little Kitchen to do the catering, and had burgers, sandwiches, hotdogs, salads, fruit and a large assortment of baking. It was a delicious and generous meal, and we thank Lori and her husband, and everyone who helped to make this a success.
- Under the new Covid guidelines, 46 people attended, with a seating of 5 people per table. We had extra platters for people to take home, and some of us stopped at Pandora Street to deliver extra meals to the street young people.
- It was a wonderful time to see old and new friends, to welcome the new VLMS Executive, introduce the October Rough to Ready Rock Fair, Saturday and Sunday October 16th and 17th, 2021,

and Vanessa Steffens as the Show Chair.

Christmas Party December 6th, 2021

- A Christmas Party will be held on Monday, December 6th, at the Lawn Bowling Club. Saanich will allow no more than 50 people to attend, and they must be fully vaccinated.

- The Christmas Party will be a potluck, and Becci will arrange a sign-up sheet sooner to the event. You will be required to indicate: 1) the number of people you are bringing and 2) what food you are bringing for the potluck.

- An optional gift exchange, \$15.00 or less, labeled male, female, or unisex will be made available.

- Optional donations for the Mustard Seed will be accepted.

- Participants are encouraged to bring their own cup, plate and utensils.

Sunshine Corner

- Gilles LeBrun is doing "awesome", and meets friends for tea occasionally. He attended the Rough and Ready Rock Fair, and saw a few of you there.

Social Committee

Susannah Andersen and Barb MacKenzie

Library (Kathryn)

Greetings to all, we had our first in person club meeting, and all going well that will hopefully continue. We have some members who took out books or magazines from the library before the Covid-19 shutdown and when we start meeting in the New Year I hope to have these items returned. It has been a while, so I will be phoning those who have items on loan just as a reminder. Please do not return these items to our December meeting as I will not be able to attend the dinner.

In preparation for our March Rock and Gem show we will be again looking for donations of books and magazines to sell at the show. Topics of interest include rocks, minerals, fossils, meteorites, rockhounding, beachcombing and anything related. The sale of these donated items allows us to make more purchases for the Library. Also, please let me know if there are any specific books or topics for books you would like to see carried in our VLMS Library.

Editor (Gary)

The time has come for me to take a step back – well, that time came and went. One year later and I still find myself in this position. This time I really mean it – somebody needs to step up.

EXTRA – QUIZ (suggested by Vanessa)

Questions:

1. Minerals of the same kind always have the same _____

A. Color, B. Size, C. Structure, D. Age.

2. _____ is magma that reaches Earth's surface.

A. Fool's gold, B. Clay, C. Cement, D. Lava.

3. Sandstone, limestone, shale, and chalk are examples of _____.

A. Marble, B. Sedimentary rocks, C. Ore minerals, D. Gemstones.

A. Minerals are usually mixtures of rocks, B. Rocks are usually mixtures of minerals, C. Rocks are inorganic, and minerals are organic, D. Minerals are rocks that have been petrified.

5. Igneous, sedimentary, and metamorphic are types of _____

A. Volcanoes, B. Fossils, C. Rocks, D. Metals.

6. The hardest mineral on Earth is _____

A. Calcite, B. Mica, C. Quartz, D. Diamond.

7. To find the true color of a mineral, you would do _____

A. An acid test, B. A streak test, C. A mohs test, D. A laser test.

8. Which is NOT a property that is used to identify a mineral?

A. Luster, B. Deposition, C. Cleavage , D. Streak.

9. The constant forming, breaking down, and reforming of rocks is known as _____

A. The rock cycle, B. Erosion, C. Mining, D. Compaction.

10. The Mohs scale is a way to rant the _____ of a mineral.

A. Color, B. Quality, C. Hardness, D. Texture.

11. Cubic, hexagonal, and monoclinic are kinds of _____.

A. Acid tests, B. Rock origins, C. Mineral fractures, D. Crystal shapes.

12. Which is a kind of fossil fuel?

A. Coal, B. Talc, C. Amber, D. Petrified wood.

13. Fossils are usually found in _____.

A. The inner core, B. Cubic crystals, C. Sedimentary rock, D. Volcanic glass.

14. Which does not cause weathering?

A. Cementation, B. Wind, C. Water, D. Temperature changes.

15. Scientists who study rocks and minerals are called _____.

A. Engineers, B. Geologists, C. Geographers, D. Biologists.

Answers: (from: https://www.proprofs.com/quiz-school/playquiz/?title=rocks-minerals_27)

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Fun Facts

Lappy the Lapphound

" All that glitters isn't gold
....but it might be opal!!!!



Foxy the Foxhound

" Diamonds are a girls' best friend
....cubic zirconia... not so much !!!!



The Last Supper

It was mid-November, the rains seemed never-ending and if it wasn't actually raining out, it was windy. The gang was getting a bit restless – caught between the continuing Covid saga and the dreary weather, they needed a morale booster in the worst way. So when Foxy announced that she was hosting a get together everyone was a bit relieved. Even Roddy had to admit he craved a bit of favourable attention from the group – goodness knows he had endured enough negative attention the last while. You see, Roddy (for reasons only known to himself) had taken a stance against vaccinations. At work and at home he had ranted “It is my God-given right to determine what goes into my body and besides I hate wearing a mask!” Bonnie would have to remind him “But Roddy, dear, you are already vaccinated and, second of all, you don't believe in God. Besides, I think you look sexy in your mask” to which Roddy would reply “Uhhh...really....oh yea, you're right, I did get the jab and I am pretty sure I don't believe in God.” Roddy was more confused than ever (maybe it was Donald Trump who gave people their rights), he wasn't sure. Bonnie, ever the peacemaker, finally convinced Roddy that for everyone's sake it was best to be vaccinated. So the social was a chance for Roddy turn over a new leaf and to get back in everyone's good books – it was with some surprise to all that were in attendance that the first thing that Roddy said was “I hope everyone here is vaccinated!”...even Fin had to crack a smile.

This night was a “pot-luck” with everyone contributing a dish to the meal. That sounded easy enough but Lappy and Foxy had put an extra requirement on the meal – you had to tie your dish, in some way, to minerals and gems. For example, Pippa and Charlie had chosen a winter salad and had worked very diligently in preparing the beets to look like rubies¹, rhodochrosite² crystals and almandine garnets³. They also glazed the pecan nuts with a white sugar glaze that made each nut resemble a piece of chalcedony⁴ that is commonly associated with fire agates⁵. Bonnie and Roddy had brought a desert (well, two desserts as in apple pies .. Roddy's favourite). Bonnie had thought one might be enough but Roddy protested that he could eat one apple pie all by himself. The first pie had a cream cheese topping that Bonnie had diligently placed in streaks so that pie top resembled a geode⁶ with agate⁷ interior – she even managed to replicate the shapes of quartz crystals on the bottom half. On the second pie, Roddy thought that a simple sugar coating laced with copious amounts of cinnamon arranged in streaks made the pie top look like a piece of Mexican onyx⁸. Fin and Dottie had prepared the vegetable dishes. They chose a type of scalloped potatoes in which the top layer was a layer of diced potatoes (about the size of a sugar cube) that were dipped in cheese sauce and then placed on top. Upon baking the potato cubes got sort of shiny-look to them – they were supposed to resemble iron pyrites⁹. Dottie had spent what seemed like hours peeling carrots and then shaping them into long crystal shapes as if they were quartz¹⁰ or amarantite¹¹ crystals – amazingly they retained their shapes when baked. Lappy and Foxy took control of the meat dishes. They chose two types of dumpling dishes. The first were pork dumplings (much like those found in Wonton soup) but pan-fried – they

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were shaped in the form of desert roses (selenite¹²). The second type of dumplings were Jamaican Fried dumplings stuffed with mashed potatoes, hamburger, and cheese – Lappy and Foxy were hoping to capture a druzy¹³ quartz geode look in the process. Fin also brought the wine – a medium-bodied Chianti which he thought would satisfy everyone's palette.

The meal was great and not a scrap of food was left. Of course, Roddy was true to form and did indeed consume nearly one pie all by himself – no one seemed to care. After the meal they all lounged near the fire-place where the warmth of the flames caused everyone to have a glow. It was Foxy who broke the silence.

Foxy (sighing): “I can't believe how fast the last few years have gone by! I am so lucky to have such good friends.”

Pippa (tearing up a bit): “My world used to revolve around you and Dottie – we had so much fun.”

Dottie (also poinantly): “Ditto on that Pippa – as much as I was into guys, I knew my true friends were you two.”

Charlie (not privy to all the history of the group): “So when did it change for all of you.”

Pippa (quickly): “For me, it changed when I took that Minerals course at UVic and you were my Teaching Assistant.”

Foxy (speaking for both her and Dottie): “I think for Dottie and I, our lives changed that time I lost my Topaz¹⁴ necklace at the Rough-to-Ready show.”

Dottie (continuing): “Foxy, you were a mess that day – I remember you saying it was your worst day ever. But then something magical happened.”

The men had been sitting quietly listening to the three gals reminisce. Finally, Roddy spoke up.

Roddy (still with pie crust crumbs on his whiskers): “I was so close to solving that case – if only Vanessa had been the culprit I would have been right!”

Bonnie (giggling): “Oh Roddy dear, that is certainly one way of looking at it.”

Fin (the Chief Inspector speaks): “It was actually a baffling case. Thank goodness Lappy arrived on the scene. I realized then and there that he had potential to be a valuable member of the K-9 unit – if I could recruit him, of course.”

Dottie (laughing): “From a purely selfish point of view, thank goodness you arrived, Fin”

Lappy (somewhat reflective): “We never know what is in store for us to be honest. That day changed my life in so many ways. I met Foxy (the most important change) and I met Fin - and now I have a career in police work.”

Fin (himself reminiscing): “From there we went to Arizona on secondment – that was an eye opener.”

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Lappy (agreeing): “I would say so. We went with the idea of finding turquoise¹⁵ smugglers and ended up not only breaking the case but also finding Chupe the Chupacabra¹⁶.”

Roddy (feeling a bit left out): “Yes, and what about that case up in Strathcona Park. I was instrumental in tying the guilty party to the theft of the apples...wasn't I, Chief Inspector?”

Fin (amused): “Indeed you were, Roddy. In fact, it was one of the finest examples of deductive reasoning that I have ever been a party to.”

Roddy (ever so proud): “Thank you, Chief Inspector, I have always felt that I am cut out for this type of work.”

Lappy (matter of factly): “Well it has been a bit slower this past couple of years with Covid and everything. I guess all we have really had to deal with is that cold-case with Mr Bigley.”

Foxy (piping up): “Speaking of covid, we are blessed since I don't think anyone in our immediate circle has been affected.”

Dottie (interested): “What about your old class mates – Twiggy and Dot, the hairless cats?” **Roddy (screwing up his face):** “Those cats were weird.”

Foxy (happy): “Twiggy and Dot are fine. They are wondering if we will ever be able to go visit them in Vancouver.”

Charlie (somewhat sadly): “I am not sure that will be any time soon – it just doesn’t seem like a good time to travel.”

Foxy (finally): “We don’t have to travel to enjoy our company and thank goodness for that!”

With that the group fell silent once more.....

Acknowledgements

Once again I would like to thank all those members who contributed to this Newsletter – it will continue to be useful only as long as Members contribute the underlying information.

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Appendix

1. Fun Facts - Rocks and Gems (all material obtained from the web!!)

1.



Ruby is a pink to blood-red colored gemstone, a variety of the mineral corundum (aluminum oxide). The red color is caused mainly by the presence of the element chromium (Cr). Its name comes from *ruber*, Latin for red. Rubies are predominantly found in marble deposits along the southern slopes of the Himalayas.

2.



Rhodochrosite is a manganese carbonate mineral. In its pure form, it is typically a rose-red color, but impure specimens can be shades of pink to pale brown. It forms a complete solid solution series with iron carbonate (siderite). Calcium, (as well as magnesium and zinc, to a limited extent) frequently substitutes for manganese in the structure, leading to lighter shades of red and pink,.

3.



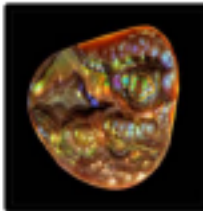
Almandine (Alamandite) are a group of silicate minerals from the garnet group that have been used since the Bronze Age as gemstones and abrasives. Almandine garnets are deep red tending to purple. It is the state gemstone for Connecticut but is found throughout the world. Years ago they were thought to be "rubies" and hence the term Australian Ruby.

4.



Chalcedony is a cryptocrystalline form of silica, composed of very fine intergrowths of quartz and moganite. These are both silica minerals, but they differ in that quartz has a trigonal crystal structure, while moganite is monoclinic. Agate Chalcedony differs from ordinary chalcedony in that the growth of silica occurs in well-defined layers.

5.



Fire Agate is a variety of Chalcedony (Quartz family). It has a translucent deep reddish-brown base, with flashes of orange, red, green and gold. The colors are caused by light interference on thin layers of iron oxide or limonite crystals within the Chalcedony. Fire agates are found in Mexico and southwestern US states e.g., near Safford AZ.

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6.



Geodes are structures which occur in certain sedimentary and volcanic rocks.¹ Geodes commonly have a chalcedony shell lined internally by various minerals, often as crystals. When cut in half, visible bands corresponding to varied stages of precipitation may at times show patterns that reveal points of fluid entry into the cavity and/or varied colors corresponding to changes in chemistry.

7.



Agate is a rock consisting primarily of cryptocrystalline silica, chiefly chalcedony, alternating with microgranular quartz. It is characterized by its fineness of grain and variety of color. Although agates may be found in various kinds of host rock, they are classically associated with volcanic rocks and can be common in certain metamorphic rocks. They are very common in BC.

8.



Onyx is a layered variety of chalcedony that differ only in the form of the bands: agate has curved bands and onyx has parallel bands in alternating color. Onyx is a gemstone found in various regions of the world and has a long history of use for hardstone carving and jewelry, where it is usually cut as a cabochon or into beads.

9.



Pyrite (or iron pyrite) is an iron sulfide and is considered the most common of the sulfide minerals. Pyrite's metallic luster and pale brass-yellow hue give it a superficial resemblance to gold, hence the well-known nickname of *fool's gold*. Pyrite is usually found in quartz veins, sedimentary rock, and metamorphic rock. It comes as either cubes or multifaceted crystals).

10.



Quartz is rich in silicon and is the second most abundant mineral in Earth's continental crust, second only to feldspar. There are many different varieties of quartz, several of which are semi-precious gemstones. Since antiquity, varieties of quartz have been the most commonly used minerals in the making of jewelry and hardstone carvings, especially in Eurasia.

11.



Amarantite is a very rare, red to brownish mineral whose name comes from Greek meaning of amaranth, an imaginary undying red flower, in allusion to its color. Amaranthite is triclinic, which means its crystals have only one symmetry fold. It must be rotated 360 degrees to be exactly the same. It is also anisotropic, which means, the velocity of light varies with crystal axis direction, and there is more than one refractive index. It is a source of iron, but not in enough quantity to be mined.

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12.



Selenite is synonymous with gypsum with a distinguishing characteristic of softness (hardness 2 on Mohs scale, soft enough to scratch with a fingernail) and its three unequal cleavages. Desert roses are rosette-shaped gypsum with an outer druse of sand or with sand throughout – most often sand colored (in all the colors that sand can exhibit). The desert rose name can also be applied to barite desert roses (another related sulfate mineral) – barite is a harder mineral with higher density

13.



Druzy is a highly sought-after precious substance which is popular for use in jewelry because of its multitude of tiny crystals - druzy possesses a reflective surface reminiscent of sugar or snow. Quartz druzy is available in mostly muted natural colours and gets its name from the word "druse," which refers to a rock surface (usually a cavity) covered with tiny crystals, such as are found inside geodes or in larger pockets of mineral deposits.

14.



Topaz - is a silicate material of aluminum and fluorine. Pure topaz is colorless and transparent but impurities cause it to occur in a variety of colors. Topaz is commonly associated with silicic igneous rocks e.g., granite. Topaz can be found worldwide, including locations in Utah and Texas; Brazil is the world's leading producer.

15.



Turquoise is an opaque, blue-to-green mineral that is a hydrated phosphate of copper (Cu) and aluminium. It is rare and valuable in finer grades and has been prized as a gem and ornamental stone throughout history owing to its unique hue. Turquoise is generally found in dry climates: USA, Mexico, Chile, Afghanistan, China, and Tibet.

16.



The chupacabra or chupacabras is a legendary creature in the folklore of parts of the Americas, with its first purported sightings reported in Puerto Rico. The name comes from the animal's reported habit of attacking and drinking the blood of livestock, including goats.