

# HUI PŌHAKU 'Ō HAWAI'I

## Rock & Mineral Society of Hawai'i, Inc.



### Meeting Times

#### MEETING

Wednesday  
July 24, 2019

6:15-8:00 pm

Makiki District Park  
Admin Building

Next Months Topic  
Fossils

#### LAPIDARY

Every Thursday

6:00-8:00pm

Cleanup @ 7:45pm  
Makiki District Park  
2nd floor Arts and  
Crafts Bldg

#### MEMBERSHIP

DUE COSTS 2019

Single: \$10.00

Family: \$15.00

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Hawai'i, Inc.

P.O. Box 23020

Honolulu, HI

96823-3020

### Jasper Chemical Formula—SiO<sub>2</sub>



Jasper is the name of a dense and opaque variety of microcrystalline quartz with impurities of other minerals. The most common jasper patterns include interesting marbling and veining which will include orbital rings, streaks, spots, flaming and banding.

Jasper is often modified by intruding impurities. As original deposits of silica materials naturally form, the fissures and cracks are filled with other minerals such as iron oxide, manganese dioxide, metal oxide and sometimes organic matter.

Jasper gemstones can be found in many locations around the world. Some of the most notable deposits are sourced from Australia, Germany, Brazil, Canada, India, Madagascar, Mexico and the United States.

Jasper can be found in nearly all shades of color with collector specimens judged mainly based on color richness and saturation along with the beauty of its designs and patterns.



Ocean Jasper , Madagascar



Morgan Hill

South San Jose, CA

Largely composed of intergrown spherulites.

Locality is one private grounds and closed to the public.

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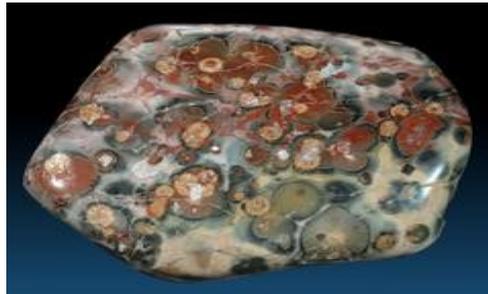
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Leopard Jasper  
Northern Cape / South Africa



Mookaite Jasper  
Carnarvon Basin  
Western Australia



What's the difference between Jasper and an Agate ?

The simple answer is that if put light behind the material and you can see through it then it is an Agate.

The more complexed answer is not always straight forward since basically both are comprised with Quartz. The banding patterns in Agates will appear darker and more translucent.

## Jasper



A geode is a rock which contains a hollow cavity lined with crystals. Geodes begin as bubbles in volcanic rock or in tree roots or mud balls in sedimentary rock. Over millions of years water containing silica precipitation forms on the inner walls of the hollow cavity.

Layers of cool silica forming crystals of different minerals at varying temperatures forms layers of minerals crystals.

Geodes can be found throughout the world but are most concentrated in deserts, volcanic ash beds, and regions containing limestone.

Vugs are cavities within a host rock.

Once a geode has been completely filled it is termed as a nodule.



Geodes are popular at rock shows as unopened geodes may be purchased then cracked, broken or cut open to reveal the interior to the buyer.

Common specimens of prized specimens will contain quartz, amethyst, calcite, gypsum and barite.

Highly prized specimens contain Celestite geodes from Madagascar and zeolite specimens for the Deccan Traps found in India.

Image copyright by Geoffrey Notkin - Aerolite Meteorites



Most popular with collectors are the geode specimens of Amethyst from Brazil and Uruguay. Iron has replaced some of the silicon atoms thus creating the rich purple hues of gem variety quartz.

The geodes from Uruguay form ultra rich violet colored Amethyst crystals.

Brandberg Amethyst is also a stunning and unique variety of Quartz only found in Namibia, South Africa. The blend of Smokey Quartz within the crystals are highly prized collector specimens.

P.O. Box 23020

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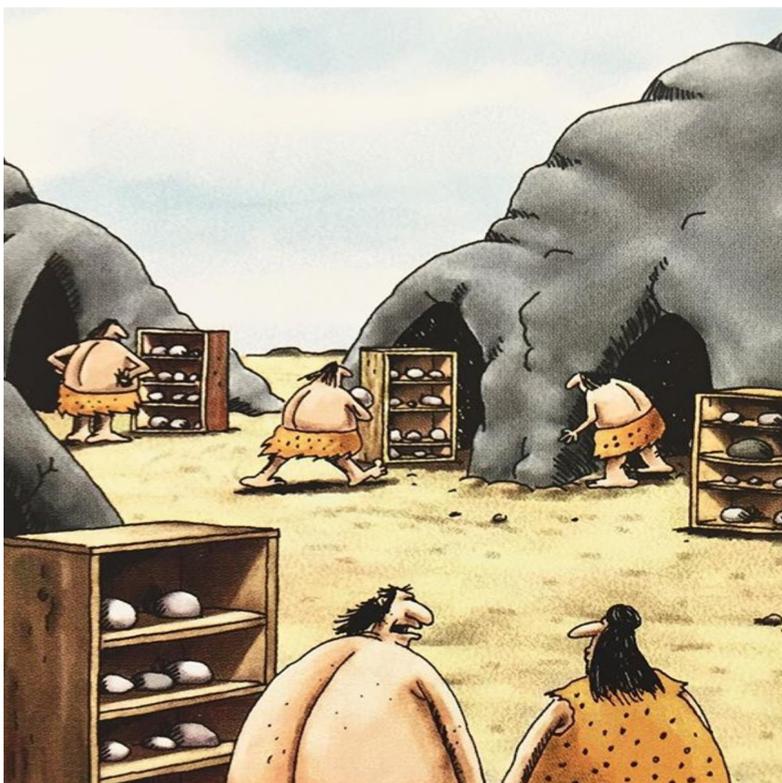
The Rock and Mineral Society meets on the 4th Wednesday of each month ( except for adjusted dates in November and December. ) at the Makiki District Park 6:15—8:00 PM.

Enter from Keeaumoku Street. Parking is free but limited.

The newsletter is published monthly, a few days prior to the meeting and is distributed by email ( Adobe Acrobat PDF file attachment ). Printed copies are also snail mailed to those who do not have email. The electronic format usually contains full color images. The print version may be limited to black and white due to reproduction costs.

#### DOOR PRIZES

Please note that we have instituted door prize drawings at our monthly meetings. Because of Hawaii's gambling laws, these drawings cannot be conducted in a common "raffle" format where tickets are sold. Rather each paid member attending the meeting will receive a drawing ticket upon request. A voluntary donation of \$1.00 is requested and encouraged. Drawings will be conducted at the end of the meeting with available door prizes awarded in random order. You must be present to win. Please remember : if you win a prize , please bring one to the next meeting. This helps keep our drawings going. Thank you.



#### NEW ANNOUNCEMENT

Annual October Rock and Mineral Show to be at the Hale Ohana Marketplace on October 19 and 20th.