

Maplewood Rock and Gem Club

September 22

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Member meeting

Monday, September 19th at 7 pm

This month Paige K. Wilson-Deibel, PhD will give a presentation on how plants survive a mass extinction. Dr. Wilson-Deibel is the Paleobotany Collections and Lab Manager at the Burke Museum of Natural History & Culture with the University of Washington.

We invite you to bring a plant fossil for show and tell this month. Of course, if you have a different rock you want to share, that's welcome too.

Don't forget to bring cash for raffle tickets and for bidding in our silent auction.

We ask that you please wear a mask in the building, because we value our friends and want to help every one of us stay Covid-free.



Lapidary Shop

Our lapidary shop is reserved for our members to use. Inside are five slab saws, three CabKing™ machines for cutting cabochons, and two trim saws.

On their first visit, new shop users will be trained on shop procedures and safety before being able to use any equipment.

Sign up for shop time

All shop users must sign up for a time slot at least a day before the session. Masks are required inside the building, including the shop.

You can [sign up for shop time online](#).

Each Thursday we have shop time available:

- Session 1: 3:00 to 5:30 pm
- Session 2: 5:30 to 8:00 pm (except on the first Thursday of each month)

What to bring

Shop users will need to bring their own

- Face mask for Covid and to ensure they don't breathe rock dust
- Apron to protect your clothes from oil lubricant in the saws, rock dust, water, and possibly more messy elements
- Hearing protectors
- \$7 cash or check to pay for each session

Shop Stewards

Paul Strawn
Rich Osborne
Bruce Samuels

Email:
Shop@maplewoodrockclub.com

Grit for sale

The Shop Stewards sell grit when the shop is open. Please let them know a day ahead that you will stop by to purchase grit.

To contact the Shop Stewards, email shop@maplewoodrockclub.com

Each grit package is \$3.50, and this is what they sell:

- 1 lb of 60/90
- 1 lb of 120/220
- ¾ lb of pre-polish
- ½ lb of polish

Before you leave the shop

The shop stewards are volunteers who generously give 6 hours a week to enable us to use the tools in the shop.

Before you leave a tool station, please wipe it down and leave it in the same condition as you found it. If you discover a problem with a saw or tool, please let the Shop Steward know.



Nearby rock shows

Rocktoberfest
Gem and Mineral Show
October 1st & 2nd
10 am - 5 pm

Evergreen Fairgrounds
Building 500
14405 179th Ave SE
Monroe, WA

Door prizes
Exhibits
Raffle

Dealers
Food
Demonstrators

For more information contact
Bill Moser 425-346-9313 bmuril@aol.com
<http://www.marysvilleroackclub.com>

To everyone born in September,

Happy
Birthday!

We hope your birthday
sparkles like a sapphire!

In the Middle Ages, clerics wore
your birthstone, sapphire, to
remind themselves of heaven.

Ancient Persians thought the world
rested on top of a sapphire, and
that is what made the sky blue.

Juniors — Plant Fossils

Plant fossils reveal patterns of climate change throughout the earth's 4.5 billion year history. During times when the climate is changing, plants and animals become extinct as the last ones of a species die.

When a massive asteroid hit earth near Mexico's Yucatán Peninsula 65 million years ago dirt and minerals spewed into the air causing an *impact*

winter. This period lasted decades. Sunlight was blocked to a large extent, making the climate suddenly cold and dark. The plants and habitats that provided food for the dinosaurs were ruined, and almost no dinosaurs could survive. Bird ancestors managed to live, as well as some animals, but 75% of earth's plants and animals died. There's more to this story that you might like to read in Forbes magazine: [Climate Change Killed the Dinosaurs](#) and [What Killed The Dinosaurs? New Discovery in Africa Hints at Multiple Asteroid Strikes](#).



Chicxulub Impact Site by Donald E. Davis

This painting shows an asteroid slamming into tropical, shallow seas of the Yucatan Peninsula. You can see Pterodactyls, reptiles with wingspans of up to 50 feet, alidina above low tropical clouds.



*Leaf fossils from extinct tree species collected at Republic. WA
The leaf at the right is from a ginkgo tree. By [Kevmin](#) [CC BY-SA 3.0](#)*

The *Fossils Uncovered* gallery in the Burke Museum has plant fossils that have gone extinct, often due to climate or environmental changes. You can collect plant fossils in Washington state; one collection site is near Republic.

Field trips

Contact the host a week before the trip to get details. Be sure you obtain the required parking pass, such as a Discover Pass. Arrive at the meeting site 30 minutes before the scheduled time and be sure to have everything you might need including a full tank of gas, tools, food, water, appropriate clothes, rain gear, and first aid supplies. The trips hosted by All Rockhounds Pow Wow have a small fee, but you get breakfast, so it's a great deal.

Below are the remaining field trips planned for 2022.

Date	Rock	Details
Oct. 15	Picture Jasper	Skykomish Meet: Money Creek Campground, Hwy 2 at 9 am Tools: Rock and crack hammer Host: Ed Lehman; wsmced2@outlook.com; 425-760- 2786 or 425-334-6282
Nov. 12	Dalmation Stone (stilpnomelane)	Alger I-5 exit 240 at 9 am Hard rock Host: Ed Lehman; wsmced2@outlook.com; 425-760- 2786 or 425-334-6282

Stilpnomelane from Blanchard Hill

Blanchard Hill, south of Bellingham is a place to find Stilpnomelane that looks like Dalmation stone. Specimens from this area often have blackish spots of the mineral stilpnomelane in a matrix of light colored minerals, such as quartz. The term, *dalmation stone*, is usually used to mean, *dalmation jasper*, which is a misnomer; it's not a jasper. Stilpnomelane is a somewhat rare mineral, and we are fortunate that it is found so close to us.

[Mindat.org](https://www.mindat.org) reports that it has been found at 48.614434496533136,-122.38002777274235 on Blanchard Hill. For more about this mineral, go to the Everett Rock Club's page, <https://everettrockclub.com/Stilpnomelane> and Alex Strekeisen's page, <https://www.alexstrekeisen.it/english/meta/stilpnomelane.php>.

Rock shows near and far

Date and Time	Host and Location	Details
Sep. 24, 10 am - 5 pm Sep. 25, 10 am - 3 pm	Springfield Thunderegg Rock Club Willamalane Adult Activity Center 215 W C St Springfield, OR	
Sep. 30, 10 am - 6 pm Oct. 1, 10 am - 6 pm Oct 2, 10 am - 5 pm	Portland Regional Rock and Gem Show Wingspan Event Center 801 NE 34th Ave Hillsboro, OR	\$5 adults 12 and under are free with an adult
Oct. 1, 10 am - 5 pm Oct. 2, 10 am - 5 pm	Marysville Rock and Gem Club Evergreen State Fairgrounds Display Building #500 14405 179th Ave SE Monroe, WA	
Oct. 15, 9 am – 5 pm Oct. 16, 9 am – 4 pm	Surry Rockhound Club Sullivan Hall 6306 152 nd Street Surry, BC	Display cases, vendors, kids' corner, door prizes, snacks demonstrations
Nov. 5, 10 am – 5 pm Nov. 6, 10 am – 5 pm	South Delta Recreation Centre 1720 56 th Street Delta (Tsawwassen), BC	
Nov. 19, 10 am - 5 pm Nov. 20, 10 am - 5 pm	Kitsap Mineral and Gem Society The President's Hall 1250 NW Fairgrounds Road Bremerton, WA	
Feb. 25, 10 am - 6 pm Feb. 26, 10 am - 5 pm	Idaho Gem Club Expo Idaho 5610 Glenwood Boise, ID	

Fossils

The internet has a lot of information on fossils that you might enjoy.

Videos

- *How does a dinosaur become a fossil?* By The Dinosaur Show:
<https://www.youtube.com/watch?v=9f5HehQovx8>
- *Plant fossils in the Pacific Northwest* by Central Washington University:
<https://www.youtube.com/watch?v=qUnfd5dX9hk>
- *Amazing plant fossils from Pennsylvania* by Ozone Fine Art-Ventures:
<https://www.youtube.com/watch?v=JLSQF5qijCs>
- *Permian Plant Fossils* by BLM New Mexico:
<https://www.youtube.com/watch?v=nA21WUstBPY>

Articles

- *Fossilized pollen may reveal "fingerprints" of environmental stress* by Timothy Kenney, Burke Museum:
<https://www.burkemuseum.org/news/fossilized-pollen-may-reveal-fingerprints-environmental-stress>
- *Plant extinction more common than previously realized* by Andrea Godinez, Burke Museum: <https://www.burkemuseum.org/news/plant-extinction-more-common-previously-realized>
- *How do we know what color dinosaurs were?* By Reuben Westmaas:
<https://www.discovery.com/science/how-do-we-know-what-color-dinosaurs-were>
- *Geologic time scale* by Cdn.Britannica.com:
<https://cdn.britannica.com/67/73167-050-B9A74092/chart.jpg>

Washington State Mineral Council

Our club, along with many other rock and gem clubs in the state, is a member of the Washington State Mineral Council. This organization helps us by

- advocating for access to public lands
- advocating for beneficial land use policies
- compiling and sharing maps and other information
- publicizing shows and field trips so members learn about and can participate in events at other clubs

Read their latest [Newsletter](#).



Connect with us

Website: <http://www.maplewoodrockclub.com/>

Facebook page: Maplewood Rock & Gem Club

Facebook group for members: MRGC Sales and Trades

Email us: info@maplewoodrockclub.com

Address: 8802 196th St SW, Edmonds, Washington 98026

Our Board

Our club is run entirely by volunteers; and we are grateful for the time, energy, and expertise they give to our community.

President: open position

Vice President: Ali Rizvi

Secretary: Carla James

Treasurer: Bruce Samuels

Members at large: James Davison, Nancy Ross, Paul Anderson, Paul Strawn, Rich Osborne, Nancy Samuels



Image license attributions

We use abbreviations in the license attributions. Here are the definitions.

CC: Creative Commons license

BY: attribute the author, link to the license, and indicate if changes were made.

SA: share alike - If you publish the image, you must use the same license.

ND: no derivatives - You may not alter the image.

NC: non-commercial use - You may not use the image for commercial use.

3.0 or other number: version of the license

Sister Club in Australia

Our sister club in Australia is the Atherton-Tableland Mineral & Lapidary Club in Tolga, Queensland. Connect to them on Facebook:

www.facebook.com/groups/197340266987276

One hundred million years ago the eastern edge of the Australian continent extended much farther to the east. Tectonic forces broke off and submerged the eastern section into the ocean while a rising mantle caused the remaining land to lift.

Beginning 4 million years ago large basalt flows filled river valleys and formed a relatively flat landscape. Following that period the volcanoes became more gaseous spewing lava in violent eruptions. This landscape is now called the Atherton Tablelands. You can learn more on Wikipedia.



News to share?

Please send news ideas and images you'd like to share to the newsletter editor, Nancy Samuels at MRGC@nancysamuels.com.

This issue

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