

Che-Hanna Rock & Mineral Club, Inc.

P.O. Box 142, Sayre PA 18840-0142



PURPOSE: The club was organized in 1962 in Sayre, PA to assemble for the purpose of studying and collecting rock, mineral, fossil, and shell specimens, and to develop skills in the lapidary arts. We are members of the Eastern Federation of Mineralogical & Lapidary Societies (EFMLS) and the American Federation of Mineralogical Societies (AFMS).

DUES are payable to the treasurer BY January 1st of each year. After that date membership will be terminated. Make checks payable to Che-Hanna Rock & Mineral Club, Inc. as follows: \$12.00 for Family; \$8.00 for Subscribing Patron; \$8.00 for Individual and Junior members (under age 17) not covered by a family membership.

MEETINGS are held at the Sayre High School (on Lockhart Street) at 7:00 PM in the cafeteria, the 2nd Wednesday each month, except JUNE, JULY, AUGUST, and DECEMBER. Those meetings and events (and any changes) will be announced in this newsletter, with location and schedule, as well as on our website chehannarocks.com. Visitors are always welcome.

FIELD TRIPS are scheduled regularly from May through September; dates and details will be announced in this newsletter and on the club website.

ARTICLES submitted for publishing should be emailed to the editor using any text (ASCII) format; attempt will be made to use whatever is sent. Please make paragraphs obvious.

Deadline for submissions to the next Shin-Skinner issue is **24-January-2018**. Whatever you send me is likely to get published, so please **clearly mark** any part you don't want to see in print. Articles without by-line are written by the editor.

Permission is hereby granted Eastern Federation or American Federation member clubs to reprint material contained in the Shin-Skinner News providing proper credit is given to the author or photographer, if known, and Shin-Skinner News. If you use anything, an email note to the editor would be appreciated.

OFFICERS

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 Treasurer & member chair: Trish Benish
patriciabenish@gmail.com
 Immed. Past Pres. Inga Wells
Ingawells@yahoo.com

BOARD meetings are held at 6PM on odd-numbered months unless special meetings are called by the president.

BOARD MEMBERS:

Bruce Benish, Jeff Benish, Mary Walter

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uvbob@epix.net
 Librarian: Bruce Benish
 Sunshine Chair: JoAnn McGuire 570-928-9238
uvbob@epix.net

Notable this month...

Wednesday, January 10, Che-Hanna regular and planning meetings *and workshops* — 7pm and 6pm — Sayre High School cafeteria

Visit us at our website: <http://www.chehannarocks.com>

We Talk To Each Other - We Help Each Other - We Teach Each Other - We Smile A Lot!

President's Note

Hi Rockhounds,

it is 2018 and we are off to a new year of fun and excitement playing with rocks. We collect and admire them, we study them, we slab cut and shape and polish them to form jewelry and much more.

Between our up coming show and field trips, we can do more of the same. Speaking of our show, all dealers are set and ready.

As usual, we will need help on all fronts such as set up, door, hospitality, security, tear down etc.

Looking for another GREAT SHOW this year.

Wishing you all a VERY HAPPY AND HEALTHY NEW YEAR.

—Bob

Sunshine Report

Our Christmas party was very well attended and everyone had a good time. Was so good to see Peggy Huffman, who just had recent knee surgery; Hilda Gardiner, who is dealing with cancer, but is very up-beat and looks good; Helen Tracy, who had recent hip surgery; and Bill Dimmick who is in remission right now. Hope they have continued recoveries. Was nice to see Evelyn Keir there to visit with everyone. We missed Flossie Lines, but thought of her and wish her well. Hope everyone will have a good New Year.

Get well wishes to Faith Toth who had recent knee surgery. Hope she's recovering well.

Thanks to those who gave me well wishes. I'm just getting over a case of Lyme disease and am feeling much better. Was diagnosed over a month ago and finished my antibiotic. Hope it doesn't come back. No fun with that.

Happy Birthday wishes in January to Liam Sites; Phyllis Robison; Tony Karpovich; Suzanne Niver; Dominic Ferrante; Barb Dugan; Scott Chaffee; Peggy Huffman; and Halia Kocsis. Have a great day.

Happy Anniversary to Duane and Inga Wells.

NOTE: the message below about the Derstines was obviously provided before news of Abe's demise.

Happy Anniversary to Abe and Betty Derstine. Got a nice card from Derstine's and they are doing quite well. They don't get around like they used to, but take each day as it comes. Was nice to hear from them.

Hope to see you in January at the Sayre High School cafeteria. Our 2018 show is coming up so plans are in the works for that. Give help, if you can. The more, the merrier.

If you know of someone who needs some cheer, please let me know and I'll send some or give them a call.

—JoAnn

January Meeting

Planning meeting at 6 pm

3 hands-on programs at 7 pm or after the club meeting.

1. Bob McGuire will lead a discussion on **micro-mounting**. He is bringing his microscope and examples and explain the fine art of micro-mounting.

He would like to ascertain if enough interest exists in the club and the community to re-activate the club's micro-mount meetings.

2. Hilda Gardiner will lead the group interested in **wire wrapping**. In years past, some of us tried our hands at different craft projects before the regular meeting. We are trying to find out if there is enough interest do start that again. We could make arrangements to arrive at 6pm every month and do a quick project or help each other with lapidary related topics. We are there for planning meeting on the odd-numbered months anyway.
3. Inga Wells and other club members will be practicing their **mineral identification** skills. You can use the mineral ID kits Inga [made] for Science Olympiad or bring a rock/mineral to be identified and learn the steps to figure out what it might be. Bob will follow this up with further mineral testing, using old fashioned methods, when the weather is warm enough to schedule a special meeting at Satterlee Creek Environmental Center. Some steps, like testing with HCl and cracking minerals to determine cleavage and fracture, can't be done at the school cafeteria.

Bring a friend! As always, the public is invited to join us. We are hoping for a few good new members to join the club.

The 2018 Chehanna Christmas Party (photos by Bob McGuire)



Some of the group that went out for a group photo

Junior Rockhounds Notes

Junior Rockhound meeting is on Sunday, January 14, from 2 to 4 pm at the Athens United Methodist Church, 118 S. Main St. We are having our Annual **Winter Fun Party** with pizza and treats.

I have invited my 8 Science Olympiad students to join us. They will be doing a practice test for the upcoming invite.

You are welcome to have a look at the minerals and rocks and the questions. It will be educational to find out what the minerals and rocks at each station are and relearn the steps of quick identification.

I will be bringing some items for a craft session. It has been awhile since we have made "Fantasy Critters" out of wire, beads and doodads. I bought some giraffe pattern beads for this. I will have a few wire bundles for the little ones or they can just sting beads. I made a couple critters very quickly and still had examples of spiders and scorpions. I will have some patterns that you can copy, but usually, you prefer to do your creative thing — which always turn out super.

Please RSVP to let me know if you are attending, so I have the right amount of pizza, cookies, candies and drinks. 607-425-7426 for calls or text, Rockhound Facebook site or e-mail: ingawells@yahoo.com

—Inga

In Memoriam - Abe Derstine

Abraham S. Derstine, 81, of Rightmire Road in Gillett, Pa., went to be with his Lord on Monday, Jan. 1, 2018 from the Robert Packer Hospital in Sayre, Pa.



Abe was born on May 23, 1936 to Willis and Mildred (Shelly) Derstine in Perkasio, Pa. He grew up on a dairy farm with his five brothers and five sisters. On Jan. 1, 1957 he married Elizabeth "Betty" Young. He operated a portable hammer mill for Agway until 1966 when he purchased a dairy farm near Athens, Pa. He sold

the farm in 1987 and moved to Gillett. He worked for Century 21 and later America's Choice until his retirement. Abe was a Christian by faith, was a member of the Bentley Creek Wesleyan Church, and loved the Lord with his whole heart.

Abe is survived by his wife Betty; his sons, Lynn Derstine of Wilawana, Pa., Ralph (Wendy) Derstine of Scott City, Kan., and Leslie (Amy) Derstine Watonga, Okla.

Family and friends are welcome to call from 9:30-11:30 a.m. on Friday, Jan. 5, 2018 at the Bentley Creek Wesleyan Church, 13255 Berwick Turnpike in Bentley Creek, Pa. The funeral service to honor Abe's life will be held at the church at 11:30 a.m. on Friday, Jan. 5 with the Rev. Robert J. Wuethrich officiating.

Burial will be at a later date in South Litchfield Cemetery.

The Roberts Funeral Home, Inc., 279 Main St., Wellsburg, N.Y., has been entrusted with the arrangements.

Memorial contributions may be made in Abe's memory to the Bentley Creek Wesleyan Church, 13255 Berwick Turnpike, Gillett, Pa.

Send condolences at RobertsFHInc.com.

—Trish Benish

Tucson — Rockhound Central



Every year this time brings dreams of the [Tucson](#) and [Quartzsite](#) shows: the largest annual assembly of dealers and collectors in the world. A real rockhound's paradise (at least, for those who favor the "silver pick"). Arizona in mid-winter doesn't seem like such a bad idea, either.

Upcoming Shows



January

1-31...

9 (outdoor) gem, mineral, and fossil shows around Quartzsite, AZ

8-11...

main Tucson Gem and Mineral Show at the Convention Center

19-31...

many gem, mineral, and fossil indoor and outdoor shows in and around Tucson, AZ; world-famous annual events

20...

Mineral and Fossil Swap & Sell sponsored by the Philadelphia Mineral Society. LOCATION CHANGE: LuLu Temple, 5140 Butler Pike, Plymouth Meeting, PA 19462; Hours 9:00 - Noon. Info and Reservations: John Rateike 215-576-0741 / jdrat@comcast.net

February

1-28...

many (outdoor) gem, mineral, and fossil shows around Quartzsite, AZ

March

24-25...

49th Annual Gem and Mineral Show sponsored by the **Che-Hanna** Rock & Mineral Club. Wysox Vol. Fire Co Social Hall, 111 Lake Rd; Wysox, PA. Info: www.chehannarocks.com

Editor's Notes

As we start a new year, we all think about change for the better.

My hope is to continue to work on getting the Shin-Skinner out sooner, and making it a better "town crier" for our hobbies.

I also hope we all think about making our club and hobbies better. It starts with **letting the club officers know what you're interested in**.

A tip of the hat to Trish Benish for her timely email notifications when something important needs to get out.

You may notice I added mention of the magnificent Arizona shows (Tucson and Quartzsite). If any of you are lucky enough to go this year, I would really appreciate a **note on your experiences**.

I was able to make the trip, myself, for a few years, and really enjoyed the mineral "immersion", the warm weather, and the wealth of tourist attractions. A big favorite of mine is the [Arizona-Sonora Desert Museum](#).

1365 of the Approximately 3800 Approved Minerals

Abelsonite Abenakiite-(Ce) Abernathyite Abhurite Abramovite Abswurbachite Acanthite Acanthite var. Argentite Achavalite Actinolite Actinolite var. Nephrite Acuminite Adamite Adamsite-(Y) Adelite Admonite Aegirine Aenigmatite Aerinite Aerugite Aeschyntite-(Ce) Aeschyntite-(Nd) Aeschyntite-(Y) Afghanite Afwillite Agardite Agrellite Agrinerite Aguilrite Aheylite Ahlfeldite Aikinite Ajoite Akaganéite Akatorite Akdalite Akhtenskite Akimotoite Akrochordite Aksaite Akshite Alabandite Alacrandite Alamosite Alarsite Albite Albite var. Periclinal Albrechtschraufite Aldermanite Aleksite Alforsite Algodonite Aliettite Allabogdanite Allactite Allanite Allanpringite Allargentum Alleghanyite Alloclasite Allophane Alluaivite Alluaudite Almandine Almarudite Alskharovite-Zn Alstonite Altaite Althausite Althupite Altitite Alum Alum-(K) Aluminite Aluminium Alunite Alunogun Amakinite Amaranite Amblygonite Ameghinite Amesite Amethyst Amicite Amphibole (group) Analcime (analcite) Anandite Anapatite Anatase Anclite (group) Andalusite Andalusite var. Chiasolite Andersonite Andesine Andorite (IV/VI) Andradite Andradite var. Melanite Andryobersite Anglesite Anhydrite Ankerite Annabergite Annite Anorthite Anorthite var. Bytownite Anorthoclase Antarcticite Anthonyite Anthophyllite Antigorite Antigorite var. Bowenite Antimony Antitaneite Antlerite Apachite Apatite (group) Aphthalite Apophyllite Aragonite Aragonite var. Pelagosite Arcanite Archerite Arcite Arcubisite Ardaite Arfvedsonite Argenteite Argutite Argurodite Armalcolite Arsenic Arsenosiderite Arsenoclasite Arsenolite Arsenopyrite Arthrite Artinite Arthroite Ashburtonite Ashoverite Asisite Astrophyllite Atacamite Athabascaite Athenite Aubertite Augite Augite var. Jeffersonite Aurichalcite Auricupride Austrobitite Austinite Autunite Avicennite Avogradite Awaruite Axinite (group) Azurite Babefphite Babingtonite Baddeleyite Bakerite Balangeroite Banalsite Baotite Bararite Barrerite Barstowite Baryte (barite) Barytocalcite Bassanite Bastnäsite (group) Baumhauerite Baydonite Bayleyite Bazite Becquerelite Benitoite Benstonite Bentorite Beraunite Berborite Bergenite Berlinite Beryllite Berthierite Bertrandite Beryl Beryl var. Heliodor Beryl var. Aquamarine Beryl var. Bixbite Beryl var. aquamarine Beryllonite Beudantite Bichuhite Biehliite Billietite Billiseite Biotite Birnessite Bischofite Bismite Bismuth Bismuthinite Bismutite Biyite Bixbite Blossite Blöditte Bobfergusonite Boehmite Boleite Boltwoodite Bonaccordite Boracite Borax Bornite Botallackite Botryogen Boulangerite Bournonite Boussingaultite Bowieite Braggite Brassite Braunitzite Brazilianite Breithauptite Brewsterite (series) Brezinaite Brianite Brianyoungite Briartite Bridgmanite Brochantite Brockite Bromargyrite Bromellite Bronzite Brookite Brownleeite Brownmillite Bruceite Brushite Buddingtonite Bukovite Bukovskytite Bultfonteinite Busenite Bustamite Bystrite Bilitite Cabalzarite Cabrite Cacoxenite Cadmium Cadmoindite Cadmoselite Cadwaladerite Cafarsite Cafetite Cahnite Calaverite Calciborite Calcite Calcite var. Lublinite Calderite Caledonite Calumetite Campigliaite Canavesite Cancrinite Canfieldite Carletonite Carlosruizite Carlsbergite Carminite Carnallite Carnotite Carobbitite Carpathite Carpholite Carrollite Caryophyllite Cassiterite Cattierite Cavansite Celadonite Celestine Celsius Cerite Cerium Cersuiste Cervandonite-(Ce) Cevantite Cesanite Cesbronite Chabazite (series) Chaidamuite Chalcanthite Chalcoite Chalcopyllite Chalcopyrite Chalcocite Chalcocyanite Chalcocyanite Chamosite var. Delessite Chamosite var. Thuringite Changbaitite Chaoite Chapmanite Charlesite Charoite Chatkalite Chesterite Chibaite Childrenite Chlorargyrite Chlorite (group) Chloritoid Chlormayenite Chlorocalcite Chloroxiphite Chondrodite Chrisstanleyite Christie Chromite Chromium Chrysoberyl Chrysoberyl var. Cymophane Chrysoberyl var. Alexandrite Chrysocola Chrysotile Chrysotile (group) Chrysotile polypyle Clinochrysoite Chrysotile polypyle Orthochrysoite Chrysotile polypyle Parachrysoite Chvalceitite Cinnabar Chlorite Claudetite Clausthalite Clearcreekite Cleusonite Clinoclast Clinohumite Clinoptilolite Clinzoisite Clintonite Cobaltite Coccinite Coconinoite Coesite Coffinite Cohenite Colemanite Colimaite Collinsite Coloradoite Columbite (group) Columbite var. Yttrocolumbite Combeite Conchalite Connellite Cooperite Copiapite Copper Corderoite Cordierite Cordierite var. Iolite Corkite Cornubite Cornwallite Corundum Corundum var. Ruby Corundum var. Sapphire Cotunnite Covellite Coyahite Creedite Cristobalite Crocoite Cronstedite Crookesite Crossite Cryolite Cryptomelane Crystals of cherry red ruby in matrix Cubanite Cummingtonite Cummingtonite var. Magnesio-cummingtonite Cupalite Cuprite Cuproskoldowskite Cuprospinel Curite Cuspidine Cyanotrichite Cylindrite Cymrite Cyrilovite Danburite Datolite Daubrécite Daubrécite Davidite Dawsonite Delafossite Delvauxite Demesmaekerite Derriksite Desclozite Devilline Diaboleite Diadochite Diamond Diaspore Dickite Digenite Dimorphite Diopside Diopside Djerfshierite Djurleite Dmitriyvanovite Dollaseite-(Ce) Dolomite Domeykite Donnayite-(Y) Drysdallite Duftite Dumortierite Dundasite Dypingite Dyscrasite Dzhalindite Edenite Fluorite var. Yttrocrite Fluorite var. Antozonite Gabrielite Gadolinite (group) Gagarinite-(Ce) Gahnite Galaxite Galena Galkhaite Gananite Garnet (group) Gaspeite Gatehouseite Gaylussite Gedrite Geerite Gehlenite Geigerite Geikielite Geocronite Georgerobinsonite Germanite Gersdorffite Getchellite Gibbsite Gilalite Gismondine Glauberite Glaucochroite Glaucoctite Glauconite Glaucofanite Gmelinite Godovikovite Goethite Gold Goldmanite Gonnardite Gordaite Gormanite Goslarite Grafonite Grandierite Graphite Gratonite Greenalite Greenockite Gregoryite Greifensteinite Greigite Grossularite Grossular var. Hessonite Grossularite var. Tsavorite Groutite Grunerite Grunerite var. Amosite Guettardite Gugiaite Guilleminite Gunningite Guyanaite Gwihabaitite Gypsum Gypsum var. Alabaster Gypsum var. Satinspar Gypsum var. Selenite Hafnon Hagendorfite Haggertyite Haideringerite Haiweeite Halite Hallosite Halotrichite Hamburgerite Hanksite Hapkeite Hardystonite Harmotome Hauerite Hausmannite Hauyne Hawleyite Haxtonite Hazenite Hazlewoodite Hectrite Hedenbergite Hellyerite Hematite Hemihedrite Hemimorphite Hemusite Herbersmithite Hercynite Herderite Hessite Heulandite (series) Hexaferon Hibernite Hidalgoite Hilgardite Hisingerite Hjärneite Hodgkinsonite Hoelite Hollandite Holmquistite Homilite Hopeite Hornblende (series) Howlite Hsianghualite Hubeite Huemulite Humite Huntite Hureaulite Hutchinsonite Huttonite Hydrobracrite Hydrogrossular (series) Hydrohalite Hydroknoelsmoreite Hydroagnesite Hydroalcalite Hydroxylapatite Hydrozincite Häleniusite-(La) Hübnerite Ianbruceite Ichuansite Icosahedrite Idrialite Idroite Illite Illite var. Avalite Illite var. Brammallite Illite var. Brammallite Imenite Ilvaite Imogolite Indium Inyoite Iodargyrite Iranite Iridium Iridium var. Ixiolite Jacobsite Jadeite Jadeite var. Jade Jaffeite Jalpaite Jamesonite Janggunitite Jarosewichite Jarosite Jennite Jeremejevitte Jerrygibbsite Jimthompsonite Johannite Jolliffeite Jonesite Jordanite Julgoldite Juninite Jurbanite Kaatilaite Kadyrelite Kaersutite Kainite Kainosite-(Y) Kalininite Kalinite Kalsilite Kamacite Kambaldaitite Kamiokite Kampffite Kanoite Kaolinite Karlite Kassinite Kaňkite Kegelite Keilite Kermsite Kernite Kesterite Keyite Khatyrkite Kieserite Kinoite Kleinite Knebelite Knorringite Kobellite Kochite Kogarkoite Kolbeckite Komerupine Kosmochlor Kostovite Kovdorokite Kratochvílité Kremersite Krennerite Krieselite Krotite Krutayite Krutovite Kröhnkite Kükharenkoite-(Ce) Kuratite Kumakovite Kutnohorite Kyanite Köttigite Labradorite Labradorite var. Spectrolite Lanarkite Langbeinite Langite Lansfordite Lanthanite (group) Laplandite-(Ce) Larnite Laumontite Laurionite Laurite Lautite Lavendulan Lawsonite Lazulite Lazurite Lead Leadhillite Legrandite Leifite Leightonite Letovicite Leucite Leucophanite Leucophaenite Libethenite Liebigite Linarite Lindgrenite Linnaeite Lipscombite Liroconite Lite Litharge Lithiophilite Livingstonite Lizardite Lößlingite Lonsdaleite Loparite-(Ce) Lorenzenite Lorándite Lovringite Ludlamite Ludwigite Lulzacite Lyonsite Lévyne (serie) Lópezite Macaulayite Macdonaldite Mackinawite Madocite Magadiite Maghemite Magnesioferrite Magnesiohastingsite Magnesioopascoite Magnesite Magnetite Magnetite var. Lodestone Majorite Malachite Malayaite Manganite Manganosulfite Marcasite Margaritase Margarite Marialite Maricite Marrite Marthozite Mascagnite Massicotite Masuyite Mathesiusite Matlockite Maucherite Mawsonite McKelveyite-(Y) Meionite Melanophlogite Melanterite Mellilite Mellonite Melonite Mendipite Mendozite Meneghinite Mercury Mereheadite Merenskyite Meridianite Merrillite Mesolite Messelite Metacinnabar Metatorbernite Metazeunerite Meyerhofferite Miargyrite Mica (group) Microcline Microcline var. Amazonite Microcline Millerite Millosevichite Mimetite Mimetite var. Campylite Minium Minnesotaitite Minyulite Mirabilite Mixite Moganite Mohite Mohrite Moissanite Molybdenite Molybdenite Monazitite Monohydrocalcite Monticellite Montmorillonite (clay mineral) Mooihoekite Moolooite Mordenite Moschellandsbergite Mosesite Mottramite Motukoreaitite Mullite Mundite Murdochite Muscovite Muscovite var. Phengite Musgravesite (magnesiotaaffeite-6N'S) Nabalampophyllite Nabesite Nacrite Nadorite Nagyágite Nahcolite Naldrettite Nambulite Narsarsukite Native copper Natrolite Natron Natrophilite Nekrasovite Nelenite Nenadkevichite Nepheline Nephrite var. Jade Neptunite Neptunite from California, USA Nichromite Nickel Nickelene Niedermayrite Niningerite Nissonite Niter Nitrate Nobileite Nontronite Norbergite Normandite Northupite Nosean Nsutite Nuragheite Nyereite Népouite Obruchevite Okenite Oldhamite Olivine Olivine (group) Olivine var. Peridot Omphacite Oneillite Oosterboschite Opal var. Hyalite Opal var. Menilite Oppenheimerite Ordóñezite Oregonite Orpiment Orthoclasite Osarizawaite Osmium Osumilite Otavite Otrellite Otwayite Pabstite Painite Palladium Palygorskite Panethite Panguite Papagoite Paragonite Paralaunonite Parameleconite Pararaegal Pargasite Parisite-(Ce) Parsonsite Parthéite Pascoite Patrónite Paulingite (series) Paulscherrite Pearceite Pecoraite Pectolite Pectolite var. Larimar Peniksite Penroseite Pentagonite Pentlandite Perhamite Periclase Perite Perovskite Petalite Petzite Pezzottaite Pharmacosiderite Phenakite Phengite var. Mariposite Phillipsite (series) Phlogopite Phoenicochroite Phosgenite Phosphophyllite Phosphuranylite Pickeringite Picroparmacolite Piemontite Pigeonite Pinalite Pinnoite Piypite Plagioclase (series) Planchette Platinum Plattnerite Playfairite Plumbogummite Polarite Pollucite Polybasite Polycrase Polydymite Polyhalite Portlandite Povondraite Powellite Prehnite Proustite Pseudobrookite Pseudomalachite Pseudowollastonite Pumpellyite (group) Pumpellyite-(Mg) var. Chlorastrolite Purpurite Putnisite Pyrrargyrite Pyrite Pyrochlore (group) Pyrosulphite Pyromorphite Pyrope Pyrope var. Rhodolite Pyrophanite Pyrophyllite Pyroxene (group) Pyroxferroite Pyroxmangite Pyrrhotite Pääkkönenite Qingsongite Quartz Quartz var. Chalcedony Quartz var. Chalcedony var. Chrysoprase Quartz var. Citrine Quartz var. Rock crystal Quartz var. Agate Quartz var. Amethyst Quartz var. Aventurine Quartz var. Carnelian Quartz var. Chalcedony var. Heliotrope Quartz var. Chalcedony var. Onyx Quartz var. Chalcedony var. Sard Quartz var. Jasper Quartz var. Milky Quartz var. Rose Quartz var. Smoky Quenstedtite Quetzalcoallite Quintinite Qusongite Rakovanite Rambergite Rameauite Rammelsbergite Rapidcreekite Raslakite Raspite Rastsvetavite Realgar Reederite-(Y) Reidite Reinerite Renierite Rheniite Rhodium Rhodochrosite Rhodonite Rhodplumsite Rhomboclaste Richterite Rickardite Riebeckite Riebeckite var. Crocidolite Ringwoodite Roaldite Robertsite Rock crystal Rodalquilarite Romanèchite Romeite Rosasite Roscoelite Roselite Rosenbergitte Rosickyite Routhierite Rozenite Rubicline Ruizite Russellite Ruthenium Rutherfordine Rutile Rynersonite Sabatierite Sabieite Sabinaitite Sacrofanite Safflorite Sal ammoniac Saleeite Saliotite Salzburgerite Samarskite-(Y) Sampleite Samsonite Samuelsonite Sanbornite Sanerite Sanidine (orthoclase variety) Santabarbarite Santite Saponite (clay mineral) Sapphirine Sarabaite Sarkinite Sarsolite Satterlyite Saucanite Sborgite Scapolite (a group of silicate minerals) Scheelite Schmiederite Schoepite Schorl Schreibersite Schreyerite Schrockingerite Schwertmannite Schäferite Scolecite Scorodite Scorzalite Scrutinyite Seamanite Searlesite Seeligerite Segelerite Seifertite Sekaninaite Selenium Seligmannite Sellaitite Semseyite Senarmonite Sepiolite Sepiolite var. Meerschaum Serendibite Serpentine group Serpierite Sewardite Shandite Shattuckite Shigaite Shortite Siderite Siderophyllite Siderotil Siegenite Sillimanite Sillimanite Silver Simonellite Simpsonite Sincosite Sinkankasite Sinoite Skaergaardite Sklodowskite Skutterudite Smaltite Smeectite (group) Smithsonite Sodolite Soddyite Sonolite Sperryllite Spertiniite Spessartine Sphalerite Spherochalcite Spinell Spinell var. Ceylonite Spodumene Spodumene var. Hiddenite Spurrite Stannite Stannoidite Stauroilite Stearolite Stellierite Stephanite Stercorite Stibarsen Stibiconite Stibipalladinite Stibnite Stichtite Stichtite polypyle Barbertonite Stilbite (series) Stilleite Stillwaterite Stillwellite-(Ce) Stilpnomelane Stishovite Stolzite Strashimirite Strengeite Stromeyerite Strontianite Struvite Studenitsite Studtite Sturmanite Stützite Suanteite Suessite Sugilite Sulfur Sursassite Susannite Sussexite Svanbergite Sweetite Switzerite Sylvanite Sylvite Synchronite-(Ce) Syngenite Sérandite Taaffeite Tachyhydrite Taenite Talc Talc var. Kerolite Talmessite Talnakhite Tamarugite Tangeite Tantalite Tantite Tapolite (series) Taranakite Tarapacate Tarbutite Tausonite Teallite Tellurite Tellurium Tellurobismuthite Temagantite Tennantite Tenorite Tephroite Terlinguite Tetraargite Tetradymite Tetraehdrite Tetraenaite Thaumassite Theanidite Thermantrite Thiospinel group Thomasclarkite-(Y) Thomsenolite Thomsonite (series) Thorianite Thorite Thorite var. Auerlite Thorveitite Tiemannite Tienshanite Tin Tinkasite Tincalconite Titanite Titanite var. Keilhaute Titanium Titanowodginite Tobermorite Todorokite Tokyoite Tongbaite Topaz Torbernite Tourmaline (group) Tranquillityite Tremolite Trevorite Tridymite Triphylite Triplite Triplidotite Tripuhyite Troilite Trona Tschermakite Tschermakite Tsumcorite Tsumebite Tugtupite Tungstite Tungstite Tapersuatsiaite Turquoise Turquoise var. Rashleightite Tusonite Tyrolite Tyrrelite Tyuyamunite Uchucchacuaite Uklonskovite Ulexite Ullmannite Ulrichite Ulvöspinel Umangite Umbite Upalite Uraninite Uraninite var. Cleveite Uranocircite-II Uranophane Uranopilite Urea Uricite Urusovite Ussingite Utahite Uvarovite Uytzenogaardite Vaesite Valentinite Vallerite Vanadinite Vanadocarpopholite Vanadium Vanthasselite Vanuralite Variscite Vaterite Vauquelinite Vauxite Veatchite Vermiculite Vesuvianite Villiaumite Violarite Vishnevite Vivianite Vladimirite Vlasovite Volborthite Vlasovite Wadsleyite Wagnerite Wairakite Wakabayashilite Wakefieldite Walfordite Wardite Warikahnite Warwickite Wassonite Waterite Wavellite Weddellite Weeksieite Weillite Weissite Weloganite Whewellite Whiteite (group) Whitlockite Willemite Wiluite Witherite Wodginite Wolframite Wollastonite Woodhouseite Wulfenite Wurtzite Wyartite Wüstite Xanthosite Xanthoconite Xanthoxenite Xenophyllite Xenotime Xiangjiangite Xieite Xifengite Xilingolite Ximengite Xingzhongite Xitieshanite Xocolatlite Xocomeacatlite Xonolite Ye'elimite Yttrianite Ytropyrochlore-(Y) Yukuorite Zabuyelite Zaccagnaitite Zaccagnaitite Zacherite Zakhrovite Zanzaitite Zaraitite Zairite Zektzerite Zemannite Zeolite (group) Zenerite Zhanghengite Zharchikhite Zhemchuzhnikovite Ziesite Zimbabweite Zincite Zinclipscornite Zincomelanterite Zincoctyrogen Zincochromite Zincolivenite Zinkenite Zinnwaldite Zippelite Zircon Zirconolite Zircophyllite Zirkelite Znucalite Zoisite Zoisite var. Tanzanite Zoisite var. Thulite Zorite Zunyite Zussmanite Zykaite

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