



# Cedar Valley Gems



Cedar Valley Rocks & Minerals Society

Cedar Rapids, Iowa

[cedarvalleyrockclub.org](http://cedarvalleyrockclub.org)

CEDAR VALLEY GEMS

MARCH 2020

VOL. 46, ISSUE 3

Ray Anderson, Editor: [rockdoc.anderson@gmail.com](mailto:rockdoc.anderson@gmail.com)

## Next CVRMS Meeting Tues. March 17

Hiawatha Community Center  
101 Emmons St., Hiawatha - 7:15 pm

*featured speakers*

*Cornell College Geology Students*

**Chloe Martin and Paige Klug**



## **Cornell College Field Class in New Zealand**

These Cornell College geology students will regale us with stories and photos of experiences during their field course "**Frontiers Abroad: Geology & Earth Systems in New Zealand**", partially funded by CVRMS scholarships. During the 5-week field course, they traveled and examined the geology of the 2 main islands, living in a variety of field stations, lodges, and marae (traditional Maori meeting houses). The remainder of the semester included studies at the University of Canterbury or Auckland.

## World's Largest Turtle had 10-Foot Shell



Scientists have unearthed new fossils of one of the largest turtles that ever lived: a car-sized reptile which prowled the lakes and rivers of what is now northern South America between 13 and 7 million years ago. The tropical region of South America was one of the world's hot spots when it comes to animal diversity. The region's extinct fauna is unique, including fossils of giant rodents and crocodylians (including crocodiles, alligators, caimans and gavials) that inhabited a now desert area in Venezuela. Five to ten million years ago, this was a humid swampy region teeming with life. One of its inhabitants was *Stupendemys geographicus*, a turtle species first described in the mid-1970s. Researchers recently reported exceptional specimens of the extinct turtle from Venezuela and Colombia. The carapace of some *Stupendemys* individuals reached almost 10 feet, making it one of the largest, if not the largest turtle that ever existed. The turtle had an estimated body mass of 2500 lbs (almost one hundred times that of its closest living relative, the big-headed Amazon river turtle). Despite its tremendous size, the turtle had natural enemies including *Purussaurus*, the largest caimans. This was most likely a predator of the giant turtle, given not only its size and dietary preferences, but also as inferred by bite marks and punctured bones in fossil carapaces of *Stupendemys*. <http://www.geologyin.com/2020/02/biggest-turtle-that-ever-lived-had-10.html>

## CVRMS Feb. 18 Meeting

7:16p.m. Meeting called to order by Marv Hoag.

**Guests and new/old members:** none this evening.

**Minutes of last meeting** reviewed. Motion to accept as published by Tom, second by Bill. Minutes accepted as published.

**Treasurer's Report:** Presented by Dale. Tom moved to accept, Julie seconded, Treasurer's Report approved.

**Program:** Video "Paleosluths" Nebraska Public TV

**Door Prize:** won by Shari

### Old Business:

**Show Preparation:** More door prizes needed. TJ's sluice sold but will be at show. "Yooperlite" dealer contracted for show. Still need set-up volunteers.

**MSHA Quarry Training:** Thursday March 26 at Our Savior's Lutheran Church (C.R.); 2:00 pm & 5:45 pm sessions; must sign up in advance; cost \$10.

**Staff T-Shirts:** Free for Members who work at Rock Show or Auction; let Ray know size if interested; final order will go in next week.

**Auction:** All required lots are committed

**Fall Bus Trip:** Saturday October 3 trip to U. of Wisc. Geology Museum (Madison) then Burpee Museum (Rockford, Illinois) with lunch stop at Janesville Cracker Barrel. Also possible option to visit Rockford Discovery Center Museum (hands-on children's museum). Bus trip no charge to members (other \$25) but all will have to pay museum fees.

**New Business:** No new business

**Correspondence:** No new correspondence.

**Adjournment:** A.J. moved we adjourn, Jay seconded. Meeting adjourned at **9:30 pm**.

Respectfully Submitted:  
**Ray Anderson**, acting Secretary

## CVRMS Board Minutes Feb. 24

**MEETING CALLED TO ORDER:** by Marv Houg at his home, 7:05p.m.

**MEMBERS PRESENT:** Marv Houg, Dale Stout, Ray Anderson, Bill Desmarais, Sharon Sonnleitner, Kim Kleckner, and Toby Jordan.

**MINUTES OF LAST MEETING:** move to approve-Bill; second-Dale; approved unanimously

### 2020 SHOW:

**Programs:** Seven speakers scheduled; meteorite topics

**Raffle Prizes: and Posters:** Nothing New

**New Dealers:** Jeff Vogel purchased and will run TJ's sluice at the Show.

**Staff T-Shirts:** Ray will order 23 additional t-shirts tomorrow and they will be available next meeting.

**Displays:** Ray agreed to set up additional displays on impact shatter cones and on the Sudbury (Canada) impact.

**Archaeology Booth:** State Archaeologist to let us know in 3 days if they can set up artifact display and I.D. booth.

**MSHA TRAINING:** Thursday March 26 at Our Savior's Lutheran Church (C.R.); 2:00 pm & 5:45 pm sessions.

**2020 AUCTION:** All required lots are committed.

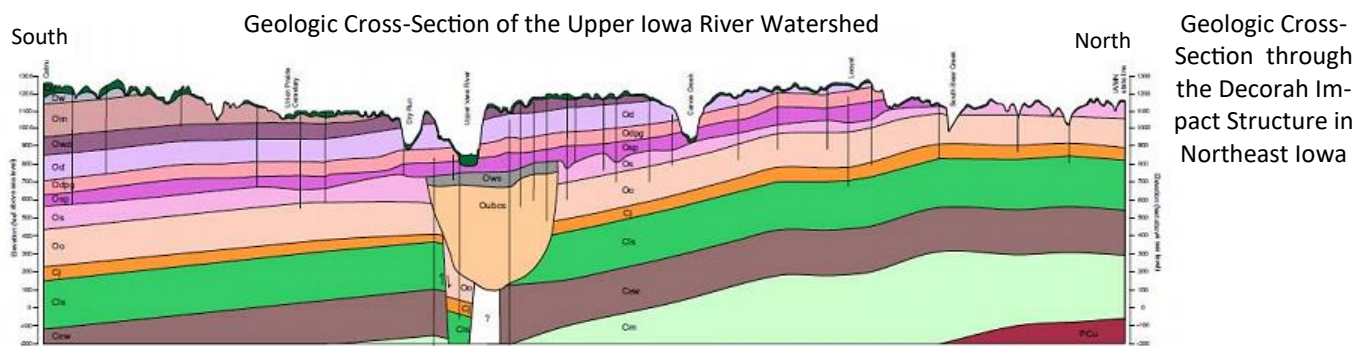
**2020 BILL'S BUS TRIP:** U. of Wisc. Geol. Museum then Burpee Museum schedule set, to be published next month. Will open in September for non-members (\$25).

**CRINOID AS STATE FOSSIL:** House JHR-4 (Mascher mgr.); Senate SJR-12 (Bolkcom mgr.) Marv and Bill discussed at state meeting of County Conservation Boards, enthusiastic response from Linn Co.

**OTHER ITEMS:** Dale & Sharon will begin forwarding CVRMS newsletters to other clubs.

**ADJOURNMENT:** Bill moved to adjourn, Kim seconded, Meeting Adjourned 9:15 pm

Respectfully Submitted:  
**Ray Anderson**, acting Secretary



## Huge Dinosaur Footprint Discovered in South America

There's a good chance that if flesh-eating dinosaurs were still around today, we wouldn't just have to worry about their sharp teeth. Scientists recently uncovered a record-setting footprint in Bolivia. It is the world's biggest print from a carnivorous dinosaur ever discovered. Until now, the largest track from a meat-eating dinosaur measured at 43 inches and was discovered in New Mexico, according to paleontologist Sebastian Apesteguia. Grover Marquina, a tour guide, was trekking through the Maragua Crater about 40 miles from the capital Sucre when he stumbled upon the fossilized footprint in July. The indentation exceeds 45 inches according to Apesteguia. He explained that the likely owner of the footprint belonged to a large dinosaur species, possibly a creature that was a part of the *Abelisaurus* genus. Predatory creatures in the *Abelisaurus* family were two-legged beasts that lived about 70 million years ago. With a powerful jaw, 40-foot stature and stunted arms,



the features of these animals rival the better-known and infamous Tyrannosaurus rex, or maybe even an oversized raptor called a Megaraptor -- a fierce creature that has been identified in the Patagonia region before. Not only does the print set a new record for its size, it also challenges a former belief about the prehistoric creatures that existed in South America during the Cretaceous period, which is known as the last portion of the "Age of Dinosaurs." The discovery of this footprint means that gigantic dinosaurs did live through the latter part of the period, something that has been ignored up until now, Apesteguia said. Larger dinosaurs were believed to have existed on the continent 100 million years ago, not 70 million years ago, Apesteguia said. For context, scientists believe the apocalyptic asteroid that set in motion the death of the dinosaurs struck Earth about 66 million years ago. <https://www.geologyin.com/2016/07/huge-dinosaur-footprint-discovered-in.html>

## Spotlight Gemstone: Aquamarine

### March's Birth Stone



**Aquamarine**, the blue variety of the mineral Beryl and birthstone of March, is a rich, medium to dark blue colored stone produced in Brazil, Madagascar, Russia, and the USA, and it has long been a symbol of youth, health and hope. Recently, aquamarine from China and Columbia has come on the market, but they are generally a little bit more yellow. Aquamarine is a highly sought-after semi precious gem, which for centuries has been used in the creation and encrustation of jewelry and everyday items. Sailors of legend believed that mermaids' tails were made of Aquamarine. The lucky stone was thought to protect the sailors from drowning and ensure their safe return. The gem was believed to aid in digestion, and Roman physicians would employ Aquamarine to treat overeating and reduction of body fluid retention. Aquamarine was thought to possess the ability to reawaken the love in married couples. Roman legend also tells that it absorbs the atmosphere of young love; *"When blessed and worn, it joins in love, and does great things."* It is also considered an appropriate gift for a Groom to give to his bride following the consummation of their marriage. To the Sumerians, Egyptians, and Hebrews, Aquamarine was the symbol of happiness and everlasting youth. Legend says that you should place your Aquamarine under a full moon, to help restore its look and renew its energy. Aquamarine colors range from very light blue all the way through to a deeply saturated Ocean blue. The best color is often called Santa Maria Blue and recently there has been a new find in Madagascar called Double Blue. The name Aquamarine comes from the Latin words 'aqua' (Water) and 'marina' (Sea). The largest stone ever found is from Minas Gerais, Brazil; It weighed 242 pounds and measured 19 inches x 17 inches. The largest cut Aquamarine is the **Dom Pedro** which now sits in the Smithsonian Institute. It finished weighing in at 10,363 cts and measured 14 x 4 inches.

<https://www.gemrockauctions.com/learn/a-z-of-gemstones/aquamarine-information-the-blue-beryl>



**What in the World** is this big, holey rock and what were these guys doing with it back in 1910?



## February's Photo



February's **What in the World?** photo showed dramatic glacial grooves on Kelley's Island in Lake Erie north of Sandusky, Ohio. Now a National Natural Landmark, the glacial grooves are 400

feet long, 35 feet wide, and up to 15 feet deep. They were created by the slow movement of the massive continental ice sheet that created the Great Lakes. When glaciers move across the earth, they pick up rocks, soil, and other debris, and drag them along. As the ice crept over the soft limestone bedrock of Kelley's Island, these harder bits of rock gouged the grooves that we see today. Originally, the grooves were filled with soil, debris, and quarry waste. In 1972, excavation to uncover the full extent of the grooves began, and they have been a popular tourist attraction ever since. Accessible by ferry from Marblehead Peninsula, these deep striations are considered the largest and best accessible example of this geological phenomenon anywhere in the world

## Rock Calendar CVRMS EVENTS OF INTEREST

2020

**Mar. 17 —CVRMS Monthly Meeting**  
Hiawatha Community Center 7:15 pm  
Feature Presentation  
**Cornell College Field Activities**  
by Cornell College Geology Students

**Mar. 26 —MSHA Quarry Safety Training**  
Training by John McCarville  
Our Savior's Lutheran Church  
3634 1st Ave NE, Cedar Rapids—\$10  
**must register in advance**

**Mar. 28-29 - CVRMS Gem, Mineral,  
and Fossil Show**  
**"Meteorites: Earth's Oldest Rocks"**  
Hawkeye Downs  
Cedar Rapids

**Apr. 17-19 —MAPS Expo. XLII**  
**"World's Largest Fossil-Only Show"**  
Sharpless Auctions  
Iowa City  
*(see Flyer on page 8)*

**Sept. 19-20—CVRMS Rock Auction**  
Amana RV Park and Event Center  
Amana, Iowa  
<https://www.cedarvalleyrockclub.org/auction.html>

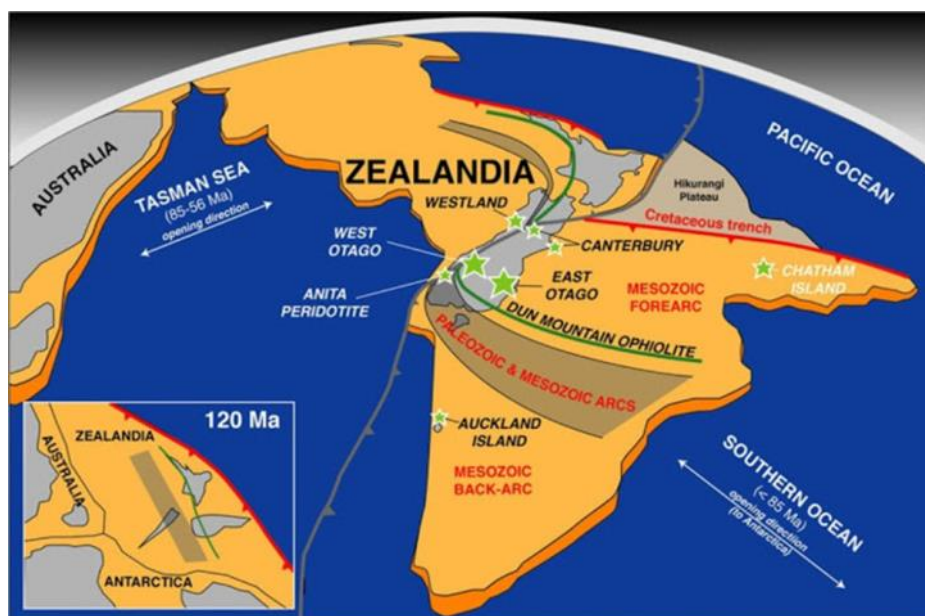
**Sept. 27-29 - Geode Fest and Rock Show**  
Chaney Creek Boat Access  
Illinois Highway 96 N  
Hamilton, Illinois  
<http://www.keokukiowatourism.org/>

## Ask a Geologist by Ray Anderson aka "Rock Doc", CVRMS Vice President

Ask a Geologist is a monthly column that gives CVRMS members an opportunity to learn more about a geologic topic. If you have a question that you would like addressed, please send it to [rockdoc.anderson@gmail.com](mailto:rockdoc.anderson@gmail.com), and every month I will answer one in this column. Please let me know if you would like me to identify you with the question. I will also try to respond to all email requests with answers to your questions.

Over the last few months I have included a couple of articles on the submerged "continent" of **Zealandia**, that includes the islands of New Zealand and attached submarine continental crust. Since we will be enjoying a discussion of their field work in New Zealand by Cornell College students at our March meeting, I thought it might be interesting to learn more about the early history of Zealandia. Recent seafloor drilling revealed that the "hidden continent" of Zealandia (a region of continental crust twice the size of India submerged beneath the southwest Pacific Ocean) experienced dramatic elevation changes between about 50 million and 35 million years ago. New findings from this expedition, published in *Geology*, proposed that this topographic upheaval may have been due to a widespread reactivation of ancient faults linked to formation of the western Pacific's infamous **Ring of Fire**. Since the 1970s the prevailing scientific wisdom has been that Zealandia's unusually low profile was due to the thinning of its crust as it separated from Gondwana (the ancient supercontinent that included Antarctica and Australia) around 85 million years ago. After these tectonic fireworks, the existing model concluded that Zealandia was "doing nothing but gently cooling and subsiding." But fossils in the drill cores collected in 2017 by International Ocean Discovery Program Expedition 371 indicated

that during the early Cenozoic (65 to ~50 million years ago), portions of northern Zealandia rose 3,000-6,000 feet while other sections subsided about the same amount before the entire continent sank another 3000 feet below the water. The timing of these topographic transformations coincided with a global reorganization of tectonic plates, evidenced by the change in the movement of the Pacific Plate. The Pacific Plate (Farallon Plate) that had been subducting below North America stopped subducting and began to move north along the continent, the path of the Emperor-Hawaii seamount chain changed directions as did numerous mid-ocean ridges, and subduction (and the related volcanism and seismicity) was reactivated along the belt that still encircles much of the western Pacific. Although subduction drives Earth's plate tectonic cycle, scientists don't yet understand how it starts. The drilling expedition



The "continent" of Zealandia originally separated from the supercontinent *Gowgonda* about 85 million years ago

to Zealandia may have provided new insights into this fundamental process. One of the amazing things about the observations reported by the authors was that they reveal the early signs of the Ring of Fire formation were almost simultaneous throughout the western Pacific. Because this timing predates the global tectonic plate reorganization scientists needed to find an explanation for how subduction began across such a broad area in such a short time. The authors proposed a new mechanism: a "**subduction rupture event**," which they argue was similar to a massive, super-slow earthquake. The researchers believe the event resurrected ancient subduction faults that had lain dormant for many millions of years. They couldn't say where or why, but something happened that locally induced movement, and when the fault started to slip, like in an earthquake the motion rapidly spread sideways onto adjacent parts of the fault system and then around the western Pacific. But unlike an earthquake, the subduction rupture event may have taken more than a million years to unfold. Ultimately, Zealandia's sedimentary record should help geologists determine how and why this event happened and what the consequences were for animals, plants, and global climate. The process has no modern analogue, but because the subduction rupture event is linked to a time of rapid, global plate tectonic change, may imply that comparable events have occurred in the past. Geologists generally assume that **understanding the present is the key to understanding the past**, but at least in this instance, this may not hold.

Information modified from <http://www.geologyin.com/2020/02/new-research-reveals-violent-birth-of.html?>

## Incredible NASA Simulation Reveals How Earth Would Look if The Oceans Drained Away

Oceans cover most of the Earth, including its longest mountain range and the ancient bridges that humans crossed to reach other continents. In a recent remake of a 2008 NASA video, planetary scientist James O'Donoghue shows what it would look like if all that water drained away, revealing the hidden three-fifths of Earth's surface. As the oceans slowly lose water, the first bits of hidden land that emerge are the continental



Map of the Earth showing what it would look like if sea level was lowered by 2000 feet. [Click on map to view video.](#)

shelves – the undersea edges of each continent. The start is slowed since, rather surprisingly, there's a lot of undersea landscape instantly revealed in the first tens of yards. The continental shelves include some of the land bridges that early humans crossed as they migrated from continent to continent. Tens of thousands of years ago, our ancestors could walk from continental Europe to the UK, from Siberia to Alaska, and from Australia to the islands surrounding it. When the last ice age occurred, a lot of ocean water was locked up as ice at the poles of the planet. That's why land bridges used to exist. Each of these links enabled humans to migrate, and when the ice age ended, the water sort of sealed them in. By removing that water, the animation offers a glimpse at the world of our ancient ancestors. It also shows Earth's longest chain of mountains, which appears once the sea levels have dropped 6,500 to 9,800 feet. That's the mid-ocean ridge, which stretches over 37,000 miles across the globe. Over 90 percent of it is underwater. The volcanic mountains spring up at the seams where Earth's tectonic plates inch away from each other, creating new ocean floor as molten rock rises from beneath the planet's crust. Once the animated oceans drain by 20,000 feet, most of the water is gone. But it takes nearly another 16,000 feet to empty the deepest reaches of the Marianas Trench. This animation reveals that the ocean floor is just as variable and interesting in its geology as the continents. Emptying the seas unearths not only the ocean bottom, but also the ancient story of humanity. <https://www.sciencealert.com/nasa-video-reveals-the-hidden-three-fifths-of-earth-s-surface?utm>

## What Is Druzy, and How Does It Form

The word druse (also known as drusy or druzy), refers to an aggregate mass of small crystals ("crystal druse"). These crystal intergrowths or clusters can be formed by many different minerals. The mineral species and shapes of crystals formed are dependent on fluid composition. Crystal size is a function of fluid temperature and pressure. A druzy is sets of tiny crystals of minerals that form on the surface of another stone. There are many types of druzy, because there are many types of min-



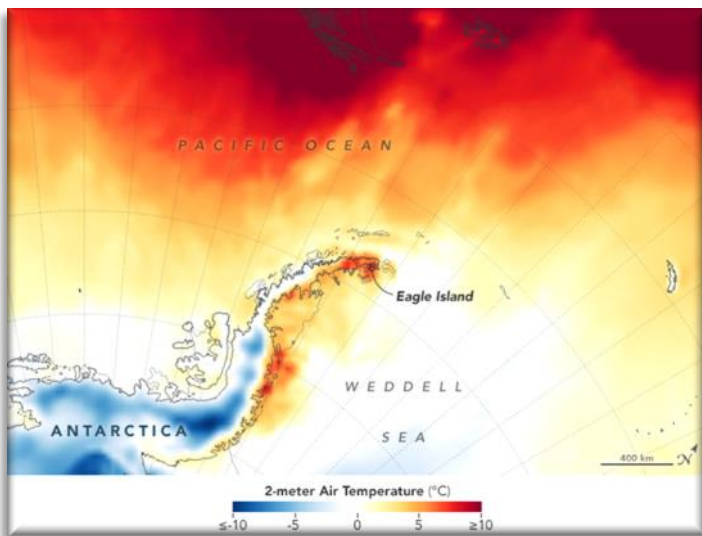
erals. Each type of druzy has particular characteristics, such as crystal size, luster and color. Quartz is one of the most common druzy types because of the prevalence of silica throughout the world. No matter what mineral forms the druzy, the overall appearance usually resembles that of sugar. The tiny crystals are considered beautiful because, like large gemstones, they glitter and catch rays of light. The geological process that forms a druzy, occurs when water brings minerals onto a rock's surface. When the water evaporates, cooling occurs and the minerals are left behind to form crystals on top of the rock. Depending on the minerals, druzy gemstones can be almost any color of the rainbow, including white, pink, blue, purple, green or black. Most druse forms as cavity lining in geodes. The botryoidal agate mass of the geodes is irregular, lumpy like a cluster of grapes. As a result, typically the surface area for cutting a cab is small. Large stones are less common. Many cutters keep a border of plain agate around the druse covered area of the cab to produce larger cabs. In most druse, the terminations of crystals appear random and stones glitter like a fistful of tiny diamonds as the viewing angle changes with movement. Some rare formations of druse occur in which the alignment of the crystal faces are uniform across the surface and the glitter turns to a flash. <http://www.geologyin.com/2018/04/what-is-druzy-and-how-does-it-form.html>

## New NASA Photos From Antarctica Reveal Shocking Levels of Ice Melt



Eagle Island on February 4 (left) vs February 13 (right) - see location map below

Antarctica is supposed to be an extremely cold place. The annual mean temperature of the snow-laden continent's central area is -57 degrees Celsius (-70.6°F); even the coast averages around -10°C (14°F). But on February 6, the weather station at Esperanza Base on the Antarctic Peninsula - the northernmost tip of the continent - logged the hottest temperature ever recorded on the mainland, at 18.3°C (64.9°F). It beat out the former record of 17.5°C, from 24 March 2015.



temperatures on February 9. (GEOS-5/NASA)

This latest heatwave lasted for about a week, and images of Eagle Island, taken by the Operational Land Imager on Landsat 8, have now captured a pretty depressing picture of its impact. The tiny Eagle Island is located just off the coast of Graham Land in the Antarctic Peninsula. The record-high temperatures have resulted in a large amount of Eagle Island's ice cap melting into the sea, while areas towards the middle of the island saw melt ponds form astonishingly quickly. "I haven't seen melt ponds develop this quickly in Antarctica," says Mauri Pelto, a glaciologist at Nichols College. "You see these kinds of melt events in Alaska and Greenland, but not usually in Antarctica." Pelto also notes that the source of this melt event - persistent high temperatures significantly above freezing - is not typical of Antarctic weather patterns. Nevertheless, these have become more common recently. In total, snow pack on Eagle Island had over 10 centimeters (4 inches) of melt in the span of just a few days - between February 6 and February 11.

This isn't even the first heatwave this season, but represents the third major melt event of the 2019-2020 Southern Hemisphere summer, with both November and January also suffering from exceptionally warm weather. "If you think about this one event in February, it isn't that significant," said Pelto. "It's more significant that these events are coming more frequently." <https://www.sciencealert.com/new-nasa-photos-of-antarctica-reveal-astonishing-levels-of-ice-melt>

Mid-America Paleontology Society (MAPS)

WORLD'S LARGEST FOSSIL-ONLY SHOW Expo XLII: Ordovician Period

Free Admission Donations Welcome

April 17-19, 2020 8:00 - 5:00 Friday & Saturday; 8:00 - 3:00 Sunday (Sunday's show has limited dealers)

Sharpless Auctions Facility, I-80 Exit 249, Iowa City, IA



Mid-America Paleontology Society

A Love of Fossils Brings us Together

CONTACT: TOM WILLIAMS Tables cell: 815-228-5083 Paleotom234@comcast.net

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Children's Activities, Silent Auctions, Programs/Workshops

Keynote Address: Dr. Dennis Kolata Fri., April 17, at 5:45 pm The Bohemian (Formerly Clarion) Hotel

Live Auction: Sat., April 18, 5:30 pm The Bohemian (Formerly Clarion) Hotel



Venue is Sharpless Auctions 5049 Herbert Hoover Hwy NE, I-80 Exit 249, Iowa City, IA





Cedar Valley Rocks & Minerals Society  
Presents its

# 2020 GEM, MINERAL & FOSSIL SHOW

56th  
Annual  
Show

Saturday March 28 - 8:30 a.m. to 6:00 p.m.  
Sunday, March 29 - 9:30 a.m. to 4:00 p.m.

Hawkeye Downs Expo Center  
4400 6th Street SW  
Cedar Rapids, Iowa



## METEORITES Earth's Oldest Rocks

### Featuring Iowa Meteorites

**PROGRAMS**

Programs on  
Theme-Related Topics  
Call ahead or check our  
website for Speakers & Times

**DEMONSTRATIONS**

Tumbling  
Glass Bead Making  
Cabbing, Beading  
Silversmithing  
Flint Knapping  
Geode Cracking

**PEBBLE PIT FOR KIDS**

1¢, 5¢, 10¢, 25¢, & 50¢ Items  
\$1 Rock & Mineral Kits

**HOT FOOD**

Hawkeye Downs Concessions



**DISPLAYS**

Geodes  
Minerals  
Crystals  
Fossils  
Amethyst  
Crinoids, Artifacts  
Petrified Wood  
Polished Stones  
Spheres, Agates

**SILENT AUCTION**

Geodes, Minerals,  
Crystals, etc.

**DONATIONS  
REQUESTED**

Adults .....\$3.00  
Students .....\$1.00  
(12-18)  
Children ..... Free  
(Under 12)  
Youth Groups ..... Free  
(w/adult)

**SLUICE FOR MINERALS (Kids & Adults)**

**MANY ITEMS FOR SALE, INCLUDING:**

Books	Fossils	Jewelry	Minerals	Book Ends
Opal	Agates	Carvings	Seashells	Petrified Wood
Slabs	Geodes	Crystals	Tumblers	Lapidary Equip.
Gems	Beads	Spheres	Meteorites	Jewelry Findings

**PROFITS GO TO  
SCHOLARSHIPS  
NOT RESPONSIBLE  
FOR ACCIDENTS**

**CHILDREN MUST BE  
ACCOMPANIED BY AN ADULT  
ONLY SERVICE DOGS  
ALLOWED**

**For Additional Information, Contact:**

Marvin Houg (319-364-2868, m\_houg@yahoo.com);  
Sharon Sonnleitner (319-396-4016, sonnbn@aol.com); Ray Anderson (rockdoc.anderson@gmail.com)  
For program, dealer, and show updates, check: [www.cedarvalleyrockclub.org](http://www.cedarvalleyrockclub.org)



## Words from Marv

*“Thanks to all of you who volunteered to help at the Show. Everyone who has volunteered to work will have a special Staff Shirt to wear this year. Remember that when you are wearing this shirt, you are representing our club, and we want to showcase our club in its best light, so put your best foot forward. Remember our show is family-friendly, and as such we want to make our clientele feel welcome and comfortable. When you are working, always be polite and friendly toward our customers, wear a smile, and use family-friendly language (that means leave vulgar and coarse language at home; it is unacceptable while you are working). Help make our clientele feel like all parts of the show are warm, friendly and safe for children's ears at all times.”* Marv Houg, CVRMS President

## READY, SET, SHOW TIME!

**SET-UP DAY FRIDAY** starts at 8:30 a.m. March 27 (pop, rolls, coffee & free lunch for workers). Come whenever you can!

- Cover tables when set-up has been checked and electric cords laid out appropriately: Use wide paper for skirt & narrow for top OR the opposite. **Leave 2” toe-hole at bottom** of skirt. Bring scissors or box cutter if helping cover tables. Wear gloves, if desired.
- Set chairs in the booths.
- Clean display-case glass inside and outside with Windex. Spray inside of display cases with Fabreze, if they are smelly. Straighten out cloth for case liners.
- Help carry material to Pebble Pit & Silent Auction areas.
- Help set up Dig area.
- Help Dealers move in.

**POTLUCK FRIDAY NIGHT AT 6:30.** Friday night we invite our dealers to be our guests at a pot luck at 6:30. Because we will have extra people eating, plan to bring a large dish or two to share. Drinks will be provided. Our members and dealers always rave about our great pot lucks, so we have a reputation to uphold every year.

**CATERED DINNER SATURDAY NIGHT AT 6:15, FOLLOWED BY A PROGRAM.** HyVee will cater a dinner right after the show closes Saturday. The menu will include beef, chicken, party potatoes, green bean casserole, seven-layer salad, roll and butter, plus dessert and drinks, which are furnished by the club. Cost is \$13.00. Let Marv know if you are planning to attend the dinner (364-2868; m\_houg@yahoo.com). Reservations are required. Following dinner, Ray Anderson will present a program on Iowa meteorites.

**WANTED: VOLUNTEERS TO BRING DESSERTS:** To hold down the cost of the catered dinner, we are looking for a few members who can't help in other ways during the show or who just like to cook to bring desserts. We expect 80-100 for the dinner, so 6-8 people bringing a dessert should cover it. Contact Dell James (cycladelics@msn.com; 319-446-7591) if you can help.

**Pick Up Your 2020 CVRMS Membership Directory at The Show; Be Sure Your Dues Are Paid!**

## 2020 Rock Show Committee Assignments

COMMITTEE	WORKERS
Clean Cases – Before displays are put in and Sunday before show start. If moldy smell, spray with Fabreze while empty.	Dolores S, Joy C
Clean-up after Catered Dinner—Remove table covers, take out food-area trash, take down serving tables, make sure no food left in building or on floor	Karen D
Clean-up after Potluck—As Above	Karen D, Joy C
Dealers—Prepare and Distribute pin or paper name tags to Dealers	Sat: _____ ---- _____ Sun: _____
Desserts for Catered Dinner—bring a dessert for Sat. (need about 6)	Karen D, Joy C
Display Cases—Get from Trailer & Set up at Show	Direct where cases go: _____
Door Prizes—Get & Give Out; Check to see which dealers exempt. Bring White Board/Dry Erase Pens.	White Board: <u>Sharon</u> Pens: _____ Dolores S, Kalee N
Door Tender for move-in Fri—open and close doors for dealers to drive in. Be sure center door is raised all the way no matter what – Hawkeye Downs requirement	
Electrical Wiring: Get cords & power strips from trailer; plug in for display area/ fluorescent booth/program room/silent auction; check with Chairs to determine other needs. Use Flats across aisles for Club & Dealer booths. Leave 1 tote on floor under display tables	Toby J
Fluorescent Program—Set Up & Run	Rick A
Food Orders for Dealers—Check with Dealers at lunch time to see if they need you to order and deliver their lunch	Sat: Sun:
Host/Hostess – Set up and Run front desk (includes giving out Directories); Pack up/ label at end of show	Dolores S Chris A
Lunch on Set-up Day—Get Food	Dell
Membership Forms—Print 20 & bring to front desk	
PA – Check on Friday for volume and hall coverage	
Pebble Pit—Set Up & Run Bring kneeling pads	Pads: <u>Karen D</u> ; Bill D, Laura E, Tom S, Karen D, Morgan D, Lisa B, Dale & Grandkids
Pebble Pit—Make Fossil Casts; Get plaster	Plaster: <u>Dale</u> ; Carolyn I, Kim H, Kylie B
Photographer—Include pic of each display	Kim K, Scott C
Security—Stay Fri & Sat Nights	Bill D, Jay V
Set up—Help with setup on Fri, starting at 8:30. Count Tables & Chairs on Racks & note how they are – have to be returned exactly as were. <b>Don't use black tables</b>	Count Tables/Chairs: _____ Karen & Bill D, Dolores & Tom S, Kim K, Dennis S, Matt B
Signs, Indoor—Put out & Retrieve to Front Desk at end of Show: signs & balloons for Pebble Pit, Silent Auction, Programs, Raffle, Door Prizes, Dig. Put signs on Entry Doors; Remove at Close	
Signs, Outdoor—Set Up & Take Down	
Silent Auction—Set Up & Run; Have bid sheets, pens, etc., save bid sheets	AJ & Family, Monica S, Kim K, Kim H, Laura E
Silent Auction – Set up PA	Jay V
Table Covers—Check that all tables noted on Floor Plan are covered with either paper or cloth and that those circled are covered separately	Karen D
Tear Down—Help with teardown Sun. immediately after show	Karen D, Joy C, Dennis S, Matt B
Tickets—Take at Door, give out date cards for next show	Terri S (Sat & Sun), Michelle, Kaylee & Joel N, Shari B, Laura E Kim H, Monica S, Kim K (to alternate)
Trailer – Take trailer to & from show	Tom W
Where Needed	Kim I, Joel S, Tammy K, Cody L, Mary Jane L

## 2020 Officers, Directors, and Committee Chairs

President .....	Marv Houg ( <a href="mailto:m_houg@yahoo.com">m_houg@yahoo.com</a> ).....	(319)364-2868
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Hospitality .....	Karen Desmarais ( <a href="mailto:desmarais_3@msn.com">desmarais_3@msn.com</a> ) .....	365-0612
Webmaster.....	Sharon Sonnleitner ( <a href="mailto:sonnb@aol.com">sonnb@aol.com</a> ) .....	396-4016

Club meetings are held the 3rd Tuesday of each month from September through November and from January through May at 7:15 p.m., at the Hiawatha Community Center in the Hiawatha City Hall, [101 Emmons St., Hiawatha IA](http://101EmmonsSt.com). The December meeting is a potluck dinner held on the 1st Tuesday at 6:30. June, July, and August meetings are pot-lucks held at 6:30 p.m. at area parks on the 3rd Tuesday of each month

### CEDAR VALLEY ROCKS & MINERAL SOCIETY

CVRMS was organized for the purpose of studying the sciences of mineralogy, geology, and paleontology and the arts of lapidary and gemology. We are members of the Midwest (MWF) and American (AFMS) Federations. Membership is open to anyone who professes an interest in rocks and minerals.

**Annual dues are \$15.00 per family per calendar year. Dues can be sent to:**

**Dale Stout  
2237 Meadowbrook Dr. SE  
Cedar Rapids, IA 52403**

CVRMS website:  
[cedarvalleyrockclub.org](http://cedarvalleyrockclub.org)



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