

**ARTIFACT FOUND**



*IMAGE BY ED KRZEMINSKI*

THE SPEAKER AT OUR SEPTEMBER MEETING, MARY JANE DOCKERY (SHOWN AT RIGHT) WAS ALMOST AS EXCITED AS OUR GUESTS UPON LEARNING THEY HAD FOUND AN ARTIFACT. THE HAMMERSTONE THEY BROUGHT IN WAS FOUND LOCALLY, SOMEWHERE ALONG WEST RIVER DRIVE.

VOLUME 46 #6

**October 2009**

*The Indian Mounds Rock and Mineral Club  
 is a nonprofit organization, incorporated under the laws of the State of Michigan.*

*This club's objective is to develop and encourage interest in, and to further the study of minerals, gems, fossils, rocks, lapidary arts, and earth science.*



AFFILIATED WITH THE MIDWEST AND AMERICAN FEDERATIONS OF MINERALOGICAL SOCIETIES

*Articles originating with the Arrowhead News may be used by affiliates of the AFMS, MWF, or other non-profit organizations only, as long as proper credit is given (unless stated otherwise.)*



Welcome to the *ARROWHEAD NEWS*, official publication of the Indian Mounds Rock & Mineral Club of Wyoming, Michigan.



**Visitors are welcome at all Meetings!**

## WHEN & WHERE

**Club Meetings** are held at 7:00 PM on the 3<sup>rd</sup> Tuesday, September through May, in the fellowship hall located in the basement of the Wesley Park United Methodist Church. The church is on the corner of Michael and 32<sup>nd</sup> Street, south of 28<sup>th</sup> Street, in Wyoming.

At 6:30 PM, on the 3<sup>rd</sup> Tuesday, June through August, our club has a **picnic** at Pinery Park in Wyoming, which is on DeHoop just north of 28<sup>th</sup> Street. Our usual spot is behind the north parking lot on the west side of DeHoop. Bring a dish to share, your own drinks, and table service.

**Board Meetings** are held right after the club meeting, or by special announcement on the 4<sup>th</sup> Tuesday of the month.

**Club Membership** dues are \$15 per family, \$10 per individual and \$5 per junior. Payment is due by the 3<sup>rd</sup> Tuesday of September and is for the following January – December. **New** members that join at or after the annual show, pay only one-half of the yearly dues. Membership includes 9 issues of the Arrowhead News.

## WHO'S WHO

**President**  
**Jim Elliott**

7475 Parsonage  
Saranac MI 48881  
616-642-0442  
[jimboell@iserv.net](mailto:jimboell@iserv.net)

**Vice President/Program**  
**Nancy Spalenka**

2119 Waldron St SW  
Wyoming MI 49519  
616-249-0513  
[gnsपालenka@sbcglobal.net](mailto:gnsपालenka@sbcglobal.net)

**Secretary/Membership**  
**Rhonda Leep**

11199 Gun Lake Rd  
Middleville MI 49333  
269-795-7629  
[rsleep@chartermi.net](mailto:rsleep@chartermi.net)

**Treasurer**  
**Dave Lehker**

1716 Lotus SE  
Grand Rapids MI 49506  
616-243-1257  
[lehkerd@gvsu.edu](mailto:lehkerd@gvsu.edu)

**Board Member/Sales**  
**Ed Krzeminski**

616-530-9571  
[edkrzeminski@juno.com](mailto:edkrzeminski@juno.com)

**Board Member/Publisher**  
**Donna Griseto**

810-444-5611  
[dbgriseto@aol.com](mailto:dbgriseto@aol.com)

**Board Member/Publicity**  
**Nick Van Dyke**

616-735-1235  
[IMRMClub@gmail.com](mailto:IMRMClub@gmail.com)

**Librarian/Historian**  
**Arlene King**

616-878-5163  
[gemmtking@yahoo.com](mailto:gemmtking@yahoo.com)

**Field Trip**  
**Roger King**

616-878-5163  
[gemmtking@yahoo.com](mailto:gemmtking@yahoo.com)  
**Nancy Wolff**, assist.  
269-983-4900  
[nancyswolff@hotmail.com](mailto:nancyswolff@hotmail.com)

**Dealer Chairs**  
**Kris Quint**

269-926-7610  
[rkquint@cpuinc.net](mailto:rkquint@cpuinc.net)  
**Nancy Wolff**  
269-983-4900  
[nancyswolff@hotmail.com](mailto:nancyswolff@hotmail.com)

**Show Chair**  
**Harry Brummel**

616-453-1658  
**John Kuipers**, assist.  
616-534-9298

**Sunshine/Kitchen**  
**Eleanor Brummel**

616-453-1658

**Editor/Web Master**  
**Brenda Van Dyke**

1531 Whitmore Ave NW  
Grand Rapids MI 49504  
616-735-1235  
[brenick@gmail.com](mailto:brenick@gmail.com)

The **subscription rate** for the **Arrowhead News** is \$8.00 per year. *Emailing is encouraged - just ask!* Article submission is due to the Editor **before** the 25<sup>st</sup> of the month.

The Arrowhead News is also available on our website. Send **exchange newsletters** to the Editor.

*All articles without a byline have been written by the Editor.*

**Liaison**

**Don Van Dyke**  
4296 Oakview  
Hudsonville MI 49426  
616-669-6932  
[donvandyke@tm.net](mailto:donvandyke@tm.net)

## PRESIDENT'S MESSAGE OCTOBER 09

*By Jim Elliott, President*

Here it is, the colorful month of October. Fall is here and so are the regular club meetings. Club activities are ramping up at a fast pace. October is the meeting you don't want to miss because it's our Silent Auction meeting! I know that the Silent part has to do with the auction process, because the noise level during this event is anything but silent! You certainly can tell people are having fun and getting good deals by the amount of noise in the room. If you are selling items, please fill out your bid slips **prior** to the meeting. We will be starting right on time so you do not want to miss a single minute of great deals and opportunities. Oh, by the way, – please bring something in the way of food/snacks since we do not have anyone assigned to the kitchen on Silent Auction night.

Our first Mineral Study Group at Kreigh's house will have taken place by the time you are reading this. Thank you Kreigh for stepping forward and setting up what I think will be a great study group and a most interesting way to further our education and learning about minerals. We will update you on this event at the next meeting and in the newsletter. Gypsum was selected as the mineral for the first gathering of our study group, and this couldn't happen at a better time. Our field trip into the Alabaster Mine is at the end of the month where we will be looking for...what other than gypsum! I have been busy getting ready for this study group by digging up some nice gypsum specimens from my basement to bring to the first meeting.

Also on the horizon is our November meeting (called our annual meeting) and this is when we hold elections for the officers and board member of our club. Think about what you can do for your club.

This might be the right time to give something back to the club. If you would like to be a board member or fill other positions, go ahead and submit your name. We can always use your help.

Maybe you're thinking it's too difficult or you don't have the polished skills you think are necessary. Well, we'll help you. We have a great group of people in this club and on the Board that will show you the ropes and provide the guidance if needed.

I look forward to seeing you all at the next meeting.

Stay safe and have fun,

Jim

## PROGRAM REVIEW AND PREVIEW

*By Nancy Spalenka, V.P./Program Chair*

Fifty people signed the attendance book at our September 15<sup>th</sup> meeting where we enjoyed Mary Jane Dockery's slide program, "Grand Rapids Underworld". She brought us interesting little known facts about the underground resources in the Grand Rapids area that were mined and developed over the years, including water, clay, limestone, gypsum, salt, gas, and oil. The clay was made into bricks, but they weren't very good because there was too much salt in them. Douglas Houghton thought that Grand Rapids would become the salt Capital of Michigan, but that title went to Detroit. The limestone made beautiful building material. The gypsum was used first for fertilizer and to harden the roads before it was discovered that it could be made into plaster of Paris. People used to entertain themselves by watching the oil gush up out of the wells. Our thanks to Mary Jane for a fascinating program.

The program for our October meeting will be the annual Silent Auction which you will read about elsewhere in this Arrowhead News. Be sure to tell your friends. We'll be looking for you.'

## INDIAN MOUNDS ROCK & MINERAL CLUB EVENTS

- October 20 **IMRMC SILENT AUCTION** (see page 4)  
Wesley Park United Methodist Church  
Tuesday - 7 PM - 9 PM
- November 17 **IMRMC MEETING**  
Wesley Park United Methodist Church  
Tuesday - 7 PM - 9 PM  
Program: "The Beauty of Fossils" presented by Bobby and Terry House
- December 15 **IMRMC MEETING**  
Wesley Park United Methodist Church  
Tuesday - 6:15 PM - 9 PM  
Christmas Party
- January 19 **IMRMC MEETING**  
Wesley Park United Methodist Church  
Tuesday - 7 PM - 9 PM  
Program: "Beadwork, Wirework and Gems" presented by Doris Koehn

## OTHER THINGS TO DO

- October 6 MWF Mineral Study Group  
(the 1<sup>st</sup> Tuesday) The home of Kreigh Tomaszewski  
53 Burton St. S.E., Grand Rapids, MI 49507  
Tuesday - 7 PM - 9 PM

## COURTESY CORNER

Kitchen Hosts for October

*Everyone!*

Bring something for the Silent Auction

Kitchen Hosts for November

*Judy Barber and Maureen Gregory*

Kitchen Hosts for December's Christmas Party

*Everyone!*

Bring a hot and cold dish to pass and your table service.  
Punchbowl starts at 6:15. Meat and beverages provided by the club.

## OUR OCTOBER 2009 SILENT AUCTION PART 2: HOW THE AUCTION WORKS, AND HOW TO BUY STUFF

*By Ed Krzeminski, Auction Chairman*

This is the second of a two-part series on our Indian Mounds October Silent Auction Sale. In this month's article we look at how our Silent Auction works (for you first-timers,) review some buying tips, and again ask for your volunteer help.

So you want to improve your personal collection, but gas prices and time constraints limit your field trips, and most gravel pits and quarries are no longer open to collecting anyway. You choke at the specimen prices online or at mineral shows, and many rock shops have simply disappeared. You still wish and hope for some amazing bargains on beginner specimens, exotic crystals, fossils, slabs, lapidary rough, loose gems, finished jewelry, findings, beadwork, lapidary equipment & supplies, cabs, tumbler rough, collecting tools, books, magazines, and anything else hobby-related. Well, here comes your opportunity!

On Tuesday, October 20th, the Indian Mounds regular monthly meeting will be replaced by our annual huge Silent Auction Sale, with the opportunity to buy and sell a wide variety of rockhound items throughout the evening. **Please note that the Auction runs continuously from 7:00 pm to 9:00 pm.** The Auction will be held in our usual meeting room in the Wesley Park United Methodist church basement. Sixteen sales tables filled with hundreds of bargain-priced hobby items will be open simultaneously for written bids on individual items. As each sales table is periodically sold (closed) and emptied every few minutes, it will be then be re-stocked with even more new rockhound goodies, all evening long. Generally five or six hundred rock and mineral hobby items are offered for sale that evening. And at bargain prices you just won't believe! There is definitely SOMETHING there with YOUR name on it!

Here's how easy it is to buy items at the Silent Auction:

- Anyone may bid on any unsold item on any open Sales Table. You don't have to pre-register or be a club member in order to bid on items. (Note: These are written bids, not "shout out" bids.) This Sale is open to the public, and will be advertised locally.
- Every item for sale has a Bid Slip with it. Each Bid Slip lists the item description, seller name, and the Minimum Bid amount. The Minimum Bid is the lowest amount that you may start your bidding at.
- To place a bid, simply print your name and your bid amount legibly on the next open bid line on the Bid Slip, while a table is still open for bids. Like any auction, this is a binding bid. If you bid, then you are agreeing to purchase that item for that price.
- If someone's name is already on the Bid Slip, and the table is still open, then you may overbid them by printing your name and a higher bid amount, on the next line. **Your bid raise must be at least 25 cents higher than the previous bid, unless otherwise noted by the Seller. On the Special Items Table, the bid raise is at least \$1.00.**
- Bidding rules are clearly posted at each Sales Table. When a table is "Sold" (closed), then you may no longer bid on an item. The highest written amount wins the item. If the table closes while you are writing your bid, then your bid counts. Any bidding disputes are settled immediately by the Auction Chairman.

*OUR OCTOBER 2009 SILENT AUCTION continued on page 5*

## OUR OCTOBER 2009 SILENT AUCTION

*Continued from page 4*

- When a table is Sold (closed), and if yours is the winning bid, you then pick up your item(s) and their Bid Slip(s) and take them directly and immediately to the Cashier Table for immediate payment.
- Pay for your items right away at the Cashier Table. Payment is generally "Cash Only", unless approved by the Club Treasurer. All sales are final. You are then responsible for safe-keeping your own paid-for items.
- Any item which is left unclaimed after a table re-opens is then again available for anyone to bid on and buy.
- The Indian Mounds Club is not responsible for any lost, stolen, or damaged items. There will be some club members there assigned to surveillance and general security, but please mind your valuables.

### **Here are some buying (and courtesy) tips to improve your Silent Auction experience:**

Get there at the beginning of the Auction (7:00 pm) to get in on the early bidding. If you see something interesting, put a reasonable bid on it right away; otherwise, if you wait, that table may be sold before you return to it. If you see a youngster bidding on an item, consider giving them a chance to win it. Please don't "hover" over an item; you might just miss out on some other nice stuff. Bring along an empty box (with your name on it) and some tissue to wrap and protect your winnings. Stick around until the very end of the Auction (9:00 pm) for some great discounts, deals, and "close-out" prices. And have some fun!

The Silent Auction is open to everyone, not just members, so invite your friends and neighbors. The Auction will be advertised in the newspaper. Also, please bring some items to sell (see the September bulletin article). Don't forget to bring some extra cash and maybe your checkbook, in case you spot that special deal.

NOTE TO SELLERS: The Sales Staging Area will be run differently this year. Sellers will not be allowed to linger there. If your Bid Slips are not completed ahead of time, you will have to fill them out in the Kitchen Area across the hall. Also, there will be a Special Items Sale Table available for items with a Minimum Bid of at least \$25. A copy of a blank Bid Slip is available at [www.indianmoundsrockclub.com](http://www.indianmoundsrockclub.com).

THE CLUB STILL NEEDS YOUR HELP! Auction volunteers are still needed, especially for the Set-Up Team (see the list below). Extra workers are always welcome. Whether for the entire evening or just a half-hour, your help is greatly appreciated. If you can help, just give me a call (530-9571 evenings), and I'll find a volunteer spot for you. Also, don't forget to bring some plastic bags (grocery size and smaller) for our Cashiers to use for bagging, plus some snacks and goodies for our Refreshment Sales Table to sell.

**SEE PAGE 6 FOR SILENT AUCTION HELPERS SCHEDULE**



## SILENT AUCTION HELPERS SCHEDULE:

### SET-UP TEAM (6:15 pm)

Leader: Ed Krzeminski  
Jim Elliott  
Bryan Brewer  
Rance Westover  
**Helper Needed**  
**Helper Needed**  
**Helper Needed**

### CASHIER TEAM

Leader: Rhonda Leep  
7-8 pm: Arlene King  
7-8 pm: Rhonda Leep  
7-8 pm: Gordon Spalenka  
8-9 pm: Sandy Carper  
8-9 pm: Rhonda Leep  
8-9 pm: **Helper Needed**

### SECURITY TEAM

(You know who you are!)  
Security's job is to discreetly keep a sharp eye on the Sales tables as they close, and on people's valuables.

### TABLE FILLER TEAM

Leader: Deb Krzeminski  
6:30 - 8 pm: Roger King  
6:30 - 8 pm: Nancy Spalenka  
6:30 - 8 pm: Don VanDyke  
Randy Bursley  
8 - 9 pm: John Kuipers  
8 - 9 pm: Graham Krauss

### REFRESHMENTS TEAM

Leader: Eleanor Brummel  
7-8 pm: Lois VanDyke  
7-8 pm: Eleanor Brummel  
8-9 pm: Arlene King  
8-9 pm: Elsie Kuipers

### CLEAN-UP TEAM

Leader: Nancy Spalenka  
Gordon Spalenka  
Mimi Gregory  
Judy Barber 8 - 9 pm:  
ryan Brewer  
Randy Bursley  
Doug Bosin  
John & Elsie Kuipers

## TREASURER'S REPORT

*By Dave Lehker, Treasurer*

Beginning Balance June 1, 2009: \$7599.62

### Expenses:

Bank of America (safe deposit box): \$64.00

### Income:

May meeting proceeds: \$110.04

Lunch money: \$18.04

Raffle: \$26.00

Sales: \$11.00

Memberships: \$55.00

Balance June 1, 2009: \$7645.66

August - No activity

July - No Activity



## MEETING MINUTES FOR IMRMC CLUB MEETING

September 15, 2009	President Jim Elliot welcomed club members and visitors to meeting. Later Jim introduced Nancy Spalenka for Program of the month.
Secretary	Minutes were approved as read.
Treasurer	Report from Dave L. Balance of \$7645.66 without proceeds of summer sale.
Program	Grand Rapids Underworld presented by Mary Jane Dockeray.
Editor	No report.
Webmaster	No report.
Publisher	Make sure you get articles to Brenda on time [25 <sup>th</sup> of month] so Donna can publish on the 1 <sup>st</sup> of the month.
Field Trips	Report from Roger King
Show Committee	No report.
Publicity	Should submit Arrowhead News to MWF
Sunshine	Eleanor gave report and reminded everyone that October everyone should donate to the refreshments for the Silent Auction.
Library	No report
Historian	No report
Membership	More new members and remind members that dues for 2010 are due if you have not paid.
Sales	Ed K. Reviewed Silent Auction procedures and passed signup sheet around. Please have your bid slips filled out and with items when you get to the meeting. There will be an area to complete bid slips away from staging area.
Correspondence	Don shared correspondence from other clubs and events and copies were posted if interested.
Old Business	Elections in November – reviewed elected offices and appointed offices- anyone interested in running for office should contact Dave Lehker.
New Business	Study Group with Kreigh – check email IMRMC google group
Adjourned Rhonda Leep	Secretary 2009

## TIBITS FROM LAWRENCE RUSH

[<larryrush@worldnet.att.net>](mailto:larryrush@worldnet.att.net)

- What do you call a fish fossil with no eyes? A fsh fossl.
- A Chlorine ion bumps into an Iron ion on the street and the Chlorine says "Are you all Right?"... "No, I lost an electron."..."Are you sure?"..."Yes, I'm positive!"
- I would like to go mineral collecting in Holland some day, wouldn't shoe?



**MEETING MINUTES FOR IMRMC BOARD MEETING**

September 15, 2009	President Jim Elliot welcomed club members and officers to board meeting.
Secretary	Read minutes and they were approved as read.
Treasurer	Reported at club meeting. Old business – safety deposit box – fees paid to date have not reviewed contents yet. IRS nonprofit status to be filed this month.
Program	Report in club meeting.
Editor	No report
Webmaster	No report
Publisher	Please ensure she gets newsletter by 1 <sup>st</sup> of month
Field Trips	Reported in club meeting
Show Committee	Tentative date of April 8,9,10 of 2010
Publicity	No report
Sunshine	Report in club meeting.
Library	Report in club meeting.
Historian	Report in club meeting.
Membership	Report in club meeting.
Sales	Silent auction discussion regarding setup, security and which procedures to change this year and which to communicate for next year.
Correspondence	Report in club meeting.
Old Business	
New Business	Elections Committee – Dave L. Proof reading Arrowhead News – Jim E. Everyone should get articles to Brenda 25 <sup>th</sup> of the month [?] at latest.
Adjourned	
Rhonda Leep	Secretary 2009

**Board Members Present**

President	X Jim Elliot	Publicity	X Eleanor Brummel -Sunshine
Vice President	X Nancy Spalenka		X Ed Krzeminski
Secretary	X Rhonda Leep		Nick Van Dyke
	X [membership]		
Treasurer	Dave Lehker	Librarian/Historian	X Arlene King
Sales	X Ed Krzeminski	Field Trip	X Roger King
Publisher	X Donna Griseto		Nancy Wolff
Sunshine	Eleanor Brummel	Show Chair	X Harry Brummel
Dealer Chair	Kris Quint		John Kuipers
	Nancy Wolff	Editor/Webmaster	Brenda VanDyke

## JUST LIKE THE 'OLD TIMES'

*By Don Van Dyke*

Some of the 'old timers' in the IMRMC will remember the mid to late 70's when the Van Dyke family (Dad, mom & 4 sons) made annual rock collecting trips every summer.

Fast forward to August 2009, for the 1st time in more than 30 years a family rock-hunting vacation was planned. We would all meet in the UP and (except one son & family from New Jersey who stayed at a nearby motel) camp at the Hancock City Campground. All told, Mom & dad, 4 sons, 3 daughters in law and 7 of 12 grandchildren.

As a group the 1<sup>st</sup> target was agates, the 'hunting location' the Township park at the mouth of the Gratiot River. The weather was perfect on Friday, the lake almost flat. Agates were few, though we found that the further we went toward 7 mile point, the better the picking. On Monday the sons and grandchildren went about two miles up the beach, almost to the point. The waves were high but the picking much better, prehnites, thompsonites, and small agates, even a few decent sized ones were found. Just like old times the competition was fierce, and outside of some serious sunburns and sore feet a great time was had by everyone.

Tuesday we decided to visit a few of the old mine dumps, beginning with the Ojibeway. The best find was a candle almost 3 inches long. The next stop was at the site of the Medora Mine. 30 years ago it was the best place in the Keweenaw to collect greenstones. Now the great piles are all gone, all that is left is an almost flat area of picked over mine tailings. Diligent hunting only produced a small handful of very small nodules. A family 'pow-wow' decided that the next stop would be at the Cliff, however Mom cast her veto and declared that the South Central (also known as the Central Exploration) needed a visit first.

The tailing piles at the South Central are not extensive, and are picked over every year by the groups that attend the Red Metal Retreat, so we did not expect to find a lot, though in the past we have found nice copper specimens, greenstones and a few datolites. A couple of men were in a hole, one I recognized as the owner of a rock shop in the area. They were busy hammering out some greenstones, and showed us a nice datolite, about the size of an egg. Now that raised our interest! We 'scratched' and scrambled about the piles, finding a few 'collectables.' After an hour or so the gentlemen caved in their hole and packed up to go. I asked if they minded if we took over the spot, or if they planned on returning, we were assured that they did not mind. It was getting late in the afternoon before the hole was cleaned out, and several nice datolites and greenstones were found. We decided tomorrow would be the BIG DAY!

Wednesday, it was a relief to see that no one was at the site, so the brothers grabbed the tools and left mom, dad, daughter-in-law and the grandkids to stay out of the way while they 'headed for China.' By afternoon the hole was about 15 feet long, 5 feet wide and 4 feet deep. Every now and then a datolite was found, or a large rock with greenstones was brought out so we could hammer them out. At one point the camera was called for, a datolite the size of a tennis ball was sticking out of the bank! By mid afternoon everyone was tired and hungry, it was time to call it a day. Mike our youngest son was the datolite 'champ' with 15 finds including the 'big one.'

Thursday, the weather was threatening; the two oldest sons went walleye fishing while one of our grandsons went with us to the Baltic area copper hunting. We found several nice pieces of hackly copper and an interesting piece that had come from the smelter chimney; soon the rain moved in, and by noon we had to quit. The fishermen came back wet and cold with 4 nice walleyes.

*JUST LIKE THE 'OLD TIMES' continued on page 10*

## JUST LIKE THE 'OLD TIMES'

*Continued from page 9*

Friday morning was a mess, it had rained most of the night, and the forecast was for rain off and on all day. The New Jersey 'clan' decided to start the long trip home. The 'tenters' were wet and cold so they crowded into our trailer, but the 'boys' were all for going back to the South Central location for a few more hours, correctly assuming that the heavy rain had washed the mud off the 'spoil piles'. What a mess, a steady rain, mud all over, but numerous datolites and greenstones were found. Finally about noon even the most diehard was ready to quit. Tony's Bakery in Laurium had not seen such a motley crew in a long time, but pasties and hot chocolate revived us all.

Back at the campground the decision was made to break camp early and head home. Oh what fun, old memories revived and new one made. Maybe next year again? A total of 52 datolites were found, many greenstones, some quite large will need tender loving care, lots of agates and thompsonites to be tumbled, oh the memories, just like old times!

## WONDERS OF A CRYSTAL

*Author unknown, from the Rocket City Rock and Gems, 9/08*

A crystal is one of the strangest objects of nature. It is not alive, yet it grows. A crystal attracts the same kind of materials of which it is composed, arranges them with great accuracy in geometrical forms, cements the parts together and holds them.

Place a crystal in a liquid or vapor composed of the same ingredients as the crystal and the process of accumulation immediately begins. If a crystal is broken in two parts and placed in a bath of liquefied crystal, the broken surface will be repaired and each part will grow into another crystal, providing the other conditions favorable for crystal growth are present. Even after a crystal has been worn down until it is but a rounded grain of sand, it will speedily become a crystal again if placed in a solution containing the ingredients of which it is composed.

There is no known limit to the ability of a crystal thus to repair itself and resume its growth. Under a microscope a crystalline solution can be seen forming into crystals, and it is a wonderful sight. First, innumerable dark spots form in the fluid; they stand still and then begin to move. It is soon seen that the movement arranges the spots in straight lines, like beads. The beads speedily coalesce into rods, and the rods arrange themselves into layers until a crystal is created. The process proceeds so rapidly that it is impossible to follow closely.

