

# THE ROCKFINDER

Highlights of this issue ---	Page Number
CEPHALOPODS by Paul Godollei, club member.	4
Getting Started in Faceting by Gordon Dobecki	7
THE CLEMENT STUDEBAKER COLLECTION by Paul Godollei	8
Rock Euthanasia by Janet Whitaker	9
1994 Show Update	10

*Larry Hess, Editor  
Michiana Gem & Mineral Society  
15358 Kerlin Drive  
Granger, IN 46530*

**\* \* \* NOTICE \* \* \***

***Your annual MGM***

***DUES***

***are due.***

***Please return the  
form on the back  
side back of this  
cover sheet.***

# MICHIANA GEM and MINERAL SOCIETY

## 1994 BOARD OF DIRECTORS

President ---- Margaret Heinek 7091 E East Park Ln, New Carlisle IN 46552  
Vice Pres ---- Ed Miller 3431 East 18th B Rd, Tippecanoe IN 46570  
Secretary ---- Pam Rubenstein 1316 Catherwood Dr, South Bend 46614  
Treasurer ---- Marge Collins 1910 Ribourde Dr, South Bend IN 46628  
Liaison ---- Paul Godollei 27911 North St, North Liberty IN 46554  
Past Pres ---- James Russell

## COMMITTEE CHAIRPERSONS

Programs --- Ed Miller 3431 East 18th B Rd, Tippecanoe IN 46570  
Hospitality --- Irene Ungurait 1267 Kinyon Dr, South Bend IN 46616  
Educational --- Gordon Dobecki 11900 Laughlin St, Mishawaka IN 46544  
Librarian --- Paul Godollei 1910 Ribourde Dr, South Bend IN 46628  
Historian --- Ed Miller 3431 East 18th B Rd, Tippecanoe IN 46570  
Sunshine --- Molly Elwell 105 N Ironwood Dr, South Bend IN 46615  
Display --- Mary Miller 451 S Illinois St, South Bend IN 46619  
Publicity --- Dawn Cytacki 1606 E Madison St, South Bend IN 46617  
Membership --- All Members

The Michiana Gem & Mineral Society, a non-profit organization, is affiliated with the Midwest Federation of Mineralogical and Geological Societies and with the American Federation of Mineralogical Societies.

## Regular Meetings

Time: 2:00 PM EST Place: Wesminster Presbyterian Church  
4th Sunday of each month 1501 W Cleveland Road  
June - Field Trip Meeting South Bend IN  
July - No meeting just west of the St Joseph River  
August - Annual Club Picnic  
December - Christmas Party

## ROCKFINDER STAFF

Editor Larry Hess 15358 Kerlin Dr, Granger IN 46530  
Co-Editor Margaret Heinek 7091 E East Park Ln, New Carlisle IN 46552  
Staff Bob Heinek / Club Members

All contributions for publication should be in the hands of the Editor by the 10th of each month. (219 272-5431) Permission is hereby granted to reprint, at any time, items published in the ROCKFINDER provided due recognition is given.

cut

### Membership Dues are:

\_\_\_\_ Individual \$ 6.50 per year  
\_\_\_\_ Family \$ 10.00 per year  
\_\_\_\_ Junior \$ 2.00 per year

Please send your dues and this form to  
Michiana Gem & Mineral Club, Treasurer  
Marge Collins  
3017 Niles-Buchanan Rd  
Buchanan MI 49107

Please make address corrections to the mailing label on the reverse side and fill in the optional information below. Your Birth Mo/Yr \_\_\_\_\_

### Check your SPECIAL INTERESTS:

General Geology \_\_\_\_\_ Gems & Minerals \_\_\_\_\_ Fossils \_\_\_\_\_ Artifacts \_\_\_\_\_  
Cabochons \_\_\_\_\_ Faceting \_\_\_\_\_ Silversmithing \_\_\_\_\_ Carving \_\_\_\_\_ Crystals \_\_\_\_\_  
Micromounts \_\_\_\_\_ Beads \_\_\_\_\_ Other \_\_\_\_\_

Family Members include information on spouse and children:

Name \_\_\_\_\_ Birthday \_\_\_\_\_ Will attend meetings \_\_\_\_\_  
Name \_\_\_\_\_ Birthday \_\_\_\_\_ Will attend meetings \_\_\_\_\_  
Name \_\_\_\_\_ Birthday \_\_\_\_\_ Will attend meetings \_\_\_\_\_

# THE ROCKFINDER

Volume 34  
Number 1

January 1994

Published by:  
Michiana Gem & Mineral Society

**Meeting:** Meeting: January 23, 1994  
Doors Open 1:30 PM  
Meeting at 2:00 PM

**Place:** Westminster Presbyterian Church  
1301 E Cleveland Road

January Program:  
*The 1993 Midwest Federation Field Trip to Houghton Michigan, by Ed Miller. Beautiful slides of Michigan & Minerals*

**Hosts:**

Jane & Stan Kile  
Leo Gilligan  
Tom Noe

**January Birthstone - Garnet:**  
Garnet varies in size and color on where it is found. You may find ruby red, or brown to orange, or cinnamon colored glossularities. Garnet is widely used in industrial applications such as gears, instruments, and abrasives. Some ancients used garnets as bullets for sling bows.

## Happy Birthday & Anniversaries



- 9 Cindy & Larry Hess (Ann)
- 13 Lorraine Jordan
- 14 Gordon Dobecki
- 14 Clarence Orrell
- 14 Marion Klodzinski
- 26 Marilyn Meir
- 29 Carolyn Nelson



## Calendar of Events:



- |  |  |
|--|--|
| <p>Mar 26-27 Gem &amp; Mineral Show<br/>Des Plaines Valley Geol Soc<br/>Rand Park Field House<br/>Des Plaines, IL</p> <p>Apr 9-10 Central Ohio Show<br/>Columbus Rock &amp; Mineral Soc<br/>Columbus Ohio<br/>Calrton Davis (614) 451-3252</p> <p>June 17-19 29th Ann. Gem &amp; Mineral Show<br/>Lawrence County Rock Club<br/>Monroe County Fairgrounds<br/>Bloomington IN<br/>Margaret Kahrs (812) 522-6093</p> | <p>June 25-26, MGAG -<br/>Rockhound Seminar<br/>Southwestern Michigan College<br/>Niles Michigan (313)664-8985</p> <p>April 8-10 California Federation, DelMar CA</p> <p>June 3-5 Northwest Federation, Ogden UT</p> <p>June 23-26 South Central / AFMS, Houston TX</p> <p>July 8-10 Rocky Mountain, Rapid City SD</p> <p>Sept 2-4 Midwest Federation, South Bend IN</p> |
|--|--|



**Margaret's  
Column**

The Michiana Gem and Mineral Society will be celebrating it's 33rd birthday this year. We pride ourselves In being a good club, and as we go into our 34th year, let us continue to be the best! Several of our members have been in the club since the beginning.

Catherine McHugh is still in the hospital, and looking forward to returning to her home soon. Bob and I went to see her last week, and found her in a happy mood. All of children, as well as her grandchildren, g-grandchildren and nieces and nephews, were with her at Christmas. What a nice family she has. She sends her regards to the members of the Michiana Society. Looking forward to having her back with us.

At the August picnic, someone picked up the wrong lid for a large Pyrex dish. The lid they left does not fit Molly Elwell's dish. If you had a Pyrex dish there, check to see if you have Molly's, lid and please let her know. She needs it very much.

Just found out that Ed and Marsha Miller have gone into the catering business. Good luck, Marsha. She has always baked such beautiful cakes, so I imagine she is a terrific cook.

As you are aware we will host the Midwest Federation Convention in September. And we are working on the show information packets, and will need your help In getting them ready for mailing. I plan on having them ready for the February meeting, so mark your calendar to make sure you attend. We need your help. Our work session will be Feb. 27th. Looking forward to your help!

South Bend is now requiring a "license" to hold our show and convention so we must apply for one for the first time. All ways something new. But It is expense that we had not planned on.

It looks like we are having an old fashioned winter this year. It has been many years since we had cold weather like this, 10 degrees below zero. Oh well we have lucked out for a few years. So keep warm, feed the birds and take care of your animals, they need care In this cold. Let us look forward to the spring and plan on a field trip and a bus trip too.

See you at the meeting. Ed is Planning a good program, so come and enjoy.

*Margaret*

\*\*\*\*\*

**STUFFED DINOSAUR for DINNER**  
By Judy Washburn

I've often read about them  
In books and magazines,  
I've seen their bones and teeth displayed  
On wide-scale movie screens.

The dinosaurs I came to know  
Were lizards huge and mean;  
With pea-sized brains and loping gait,  
They weren't very keen.

These notions seem no more to be  
The latest things to know;  
Bob Bakker told it like it is,  
On the late night Leno show.

I popped out of my bed to hear,  
It's very rare at best,  
To see a noted scientist  
As a TV talk show guest.

Old pictures melted in my mind  
With every word he'd utter;  
I didn't know just what to think,  
My brain was all a-flutter.

"Think of the dinosaurs" he said,  
"More like the birds" - do tell  
"Like two ton lively roadrunners,  
Directly out of hell.

This on the night I'd polished off  
Thanksgiving treats galore;  
Never knowing the turkey on my plate  
Was cousin to the dinosaur!



SECRETARY'S REPORT



Editor's Notes

This month we only have a short input from Pam, since there is not a December meeting. But, in a phone call to Pam I learned that she is in need of a mineral for the juniors project. The Delaware mineral she had planned has not come through and any specimen you could help her with would be appreciated. Once again that's -- DELAWARE -- we need small specimens of a mineral for the juniors project.

\*\*\*\*\*

Gloss on Tiger Eye: To get a gloss finish on your Tiger Eye, polish once, then dry, then put a drop of vinegar on it. Leave a couple minutes and give it a second polish. Results should be the deep finish you want.

- From Strata Data, via GEMS

\*\*\*\*\*



Here we are starting a new year. I hope you all enjoy the *Rockfinder* this month. To start the year off we have the beginning of some new installment articles. I am very grateful for all your inputs and suggestions. Late in December I sent in some articles and *Rockfinder* issues to the Midwest bulletin contest. Many of last year's articles have been reprinted in other bulletins and perhaps will be prize winners.

On a sad note, I received a note from the Grand Rapids (Michigan) Mineral Society that December was their club's last meeting. After thirty five years they have voted to dissolve their society. It was reported that meeting attendance and membership have declined to very low numbers.

We certainly should keep this in mind - longevity does not guarantee a future. Although the Michiana Gem & Mineral Society may have 33 wonderful years behind it the future still need you. Lets all make 1994 a great year of helping and participating to improve the club. We need the experienced members to pass on more to us beginners and ideas from the new members too. Because the more we get along, the longer we'll get along.

You know, Molly's been ill over the holidays so let's surprise her and search for her Corningwear dish cover we lost at the Picnic.

My apology to the Junior members, I have a good contest puzzle but was unable to get it completely ready for January. You have my promise for next month.

## CEPHALOPODS

by Paul Godollei, club member.

The earliest Cephalopods belonged to the subclass Nautiloidea and ranged from the Cambrian to the Present. Some reached a length of 12 feet, and were fierce carnivores with long tentacles. They probably ate trilobites in the ages before fishes. Some were straight, some were partially coiled, and some tightly coiled. Some lived on the bottom of the sea, some crawled and some swam or drifted.

The shell is composed of argonite, and has a surface layer resembling china, a middle pearly layer and a clear inner layer. As it grew it formed thirty or more chambers separated by pearly partitions called septa. A siphon connected the chambers and the connecting tube is called a the siphuncle.

The living animal had an internal mantle, two large slit like eyes, ten or tentacles, a radula or rasp like tongue, beaks and a funnel or hyponome could inject or squirt out water in a forward or backward direction. An ink sac could be utilized to throw out a blinding ink cloud for defense. A hood could be closed to protect the mantle.

The chambered Nautilus of today is the only living relative of this ancient genera. The shapes of nautiloids varied greatly, and ornamentation varied from plain to shells with frills, grooves, spines and ridges.

Ammonoids apparently developed from straight shelled Ordovician nautiloids but did not become well established until late Devonian times. The Goniatites had compactly coiled smooth shells with angular zig-zags in their sutures. They lived for 120 million years and

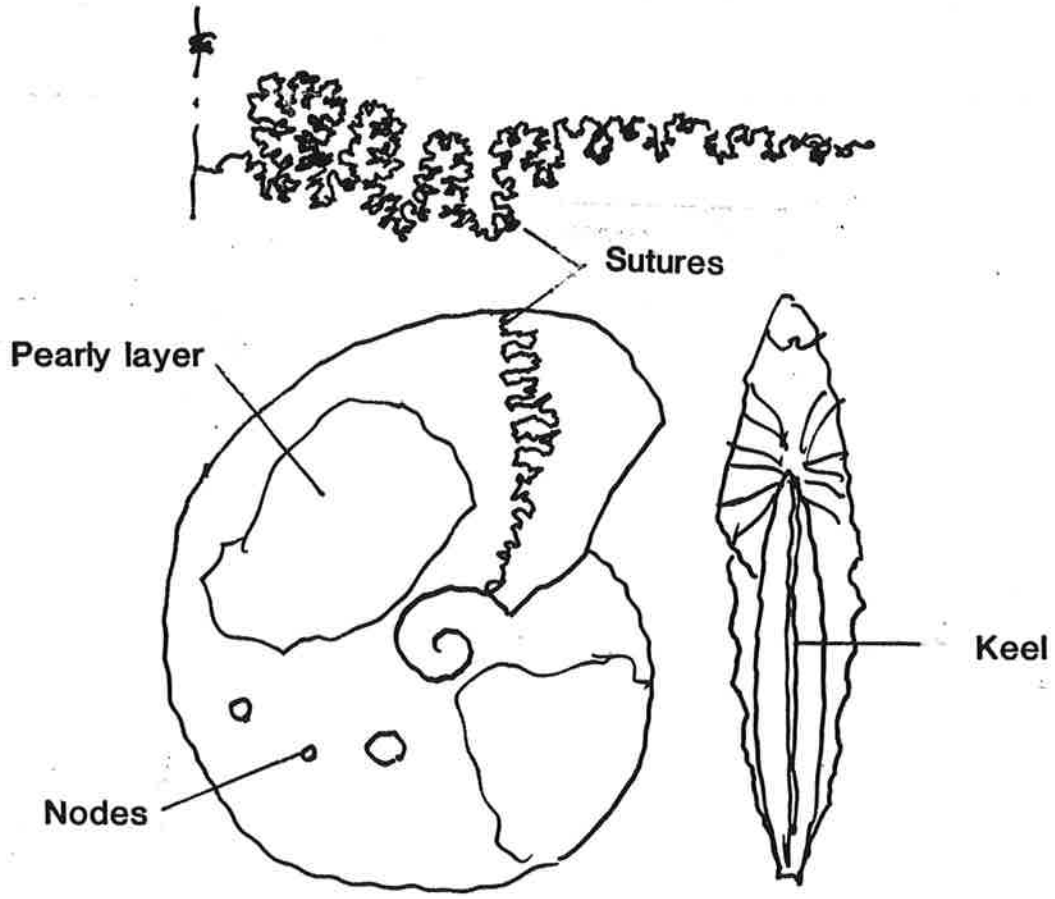
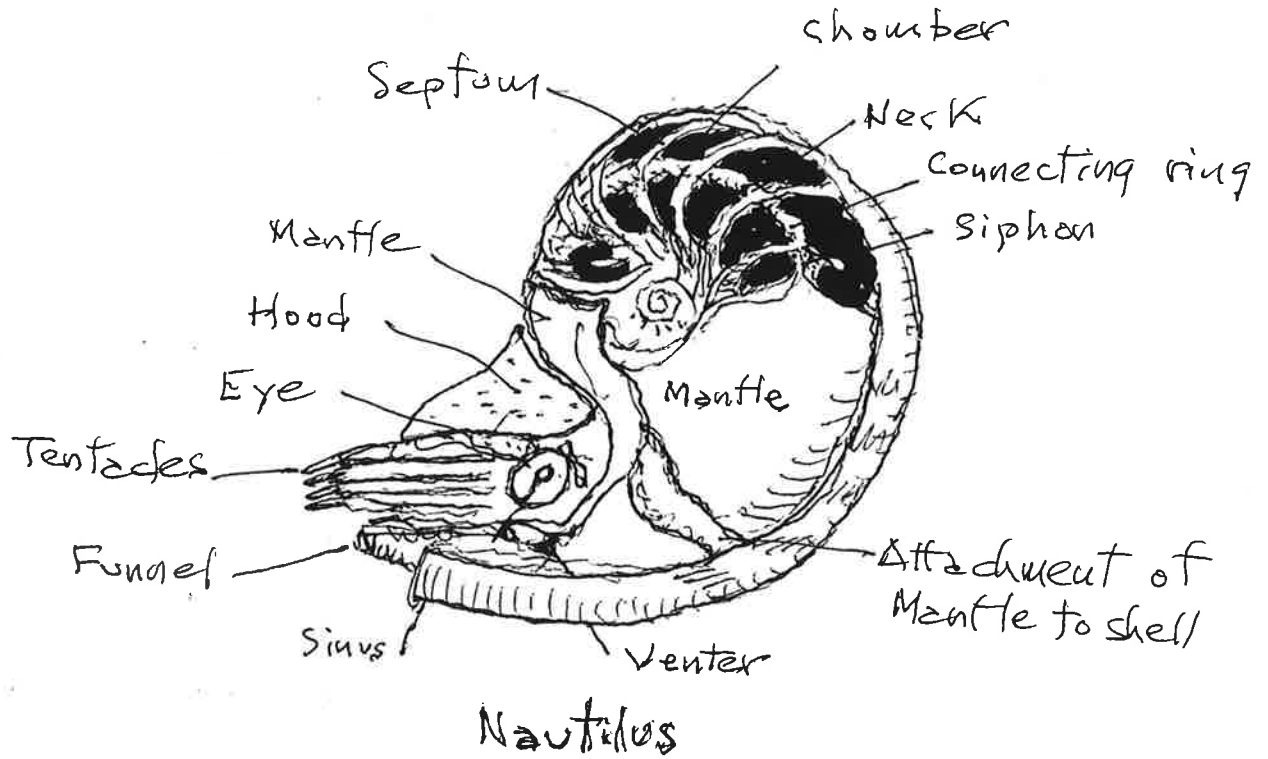
died out at the end of the Triassic.

The early Permian period saw the appearance of the Ammonites. The saddles and lobes of the sutures were divided and subdivided into complex shapes. The shells were often elaborate and grotesque. The siphuncle was located near the outside of the shell. At the end of the Triassic the highly specialized Ammonites died out leaving simpler forms. These again developed with more elaborate sutures. Some reverted to almost simple types. The highly ornamental types had frills, nodes, ribs, furrows and ridges.

Ammonoids seemed to like waters 120 to 600 feet deep. They vanished suddenly at the end of the Cretaceous Period.

Bellemnites and squids have an internal chambered shell enclosed by soft muscular tissues. Many forms have a hard internal support structure made of calcium carbonate or protein, known as the pen or guard. The guards are sometimes the only part preserved. Bellemnites lived in the Mississippian, Jurassic and Cretaceous Periods. They had six arms with hooks instead of suckers. Some grew to 5 or 8 feet in length. Cuttlefish, squids and octopus are still living today. Some squids grew to thirty feet, or more, in size.

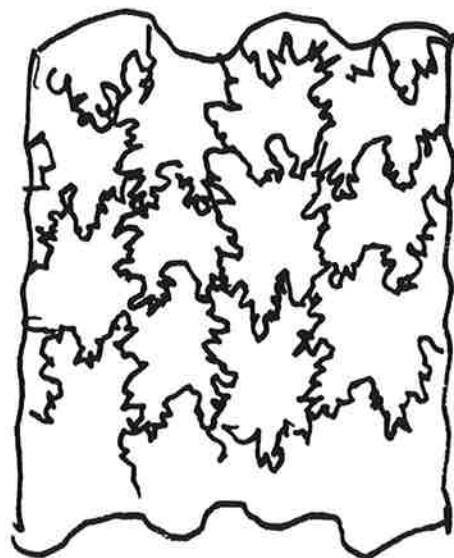
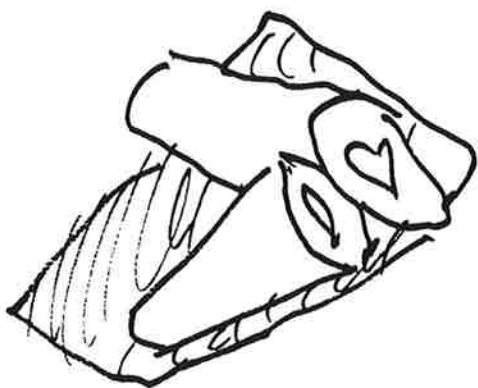
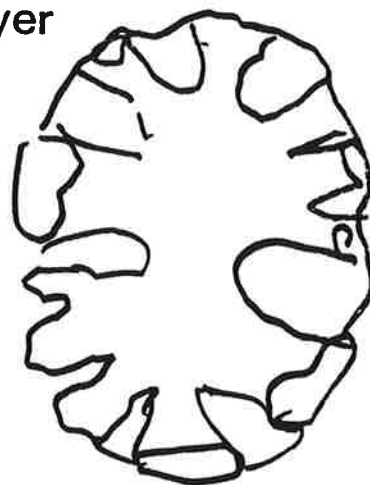
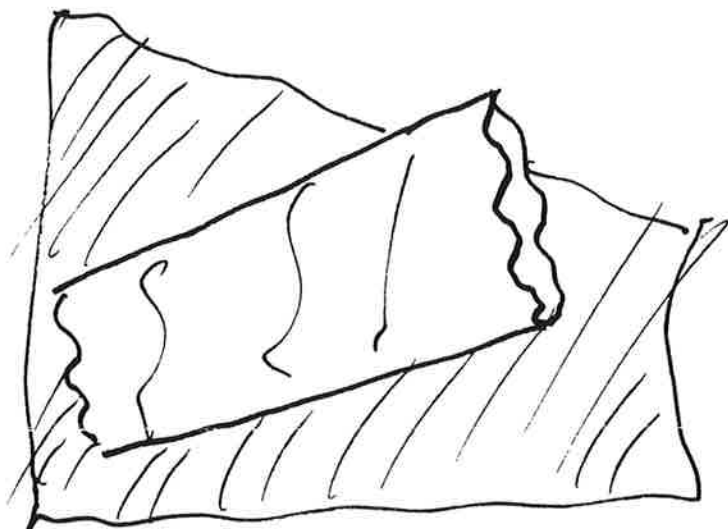
BIBLIOGRAPHY: Shimer & Shrock "Index Fossils of North America". "The Audubon Society Field Guide to North American Fossils" by Ida Thompson. "THE FOSSIL BOOK", by Carroll Lan Fenton & Mildred Adams Fenton. "Fossils" by Cyril Walker & David Ward.



Large specimen showing sutures, pearly layer and nodes

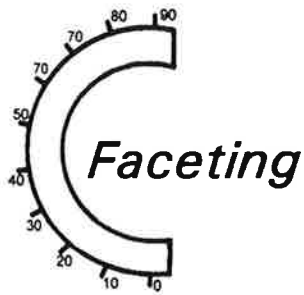
Placenticerus intercalare Meek

Portion of large specimen showing pearly layer



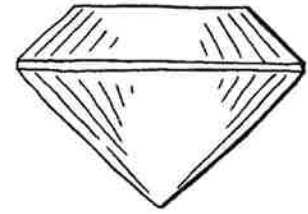
Portions of two small specimens





## "Getting Started in Faceting"

by Gordon Dobecki



Before you consider faceting as a hobby you must be willing to spend lots of time and money. If you don't have the time your investment will just gather dust. And, if you don't have the money you may have to settle for outdated used machinery which you'll probably outgrow within the first year of ownership.

Many of the facetors that demonstrate at our club show cut less than ten stones a year. They just don't have the time to enjoy their hobby. One master cutter I met had sixteen perfectly cut stones to show for seven years of work. If your ambition is to win trophies, like Bill Horton of the Midwest Facetors Guild, plan on spending 80 hours on one stone (after years of practice).

If you are on a budget and purchase a used Graves or Lee machine that doesn't split angles into tenths of a degree, you may find it impossible to facet many of the modern cuts. The best bet is to save your money and buy a modern machine like Ultra-Tec, Taurus or Facetron.

For over three years I used the Facetron machine. It is, in my judgement, by far the fastest and easiest machine for the beginner. Right out of the box I was able to cut a round brilliant stone in about six hours. With experience that time is down to about three hours.

Although I recommend the Facetron, I will admit that I've had problems with mine. It has required adjustment three times which forced it to be returned to the factory. Fortunately there is a lifetime guarantee on the machine and their basic design has never changed.

The Ultra-Tec and Taurus are both modern machines. The Ultra-Tec may be slightly behind in features, but it is a rugged unit. A used Ultra-Tec may be a good bet. The Taurus is sold by club member, Clarence Orell, who will be happy to send you information or arrange a demo.

All of the above machines share the following, user friendly, features:

- Variable speed motor with reverse
- Keyed chuck for accurate alignment
- Protractors that set angles to tenths
- All offer dial indicator that show when the cut is complete.

Regardless of the sophistication of the machine, the operator must be able to handle it. Therefore, before you invest your money, arrange to see several machines in operation. Various club members and facetors in the area will be happy, I am sure, to assist you.

THE CLEMENT STUDEBAKER COLLECTION  
by Paul Godollei

The Clement Studebaker collection of fossils, minerals, and artifacts came into my possession in 1957, during the remodelling of the John Adams High School. The collection was piled in a corner behind the stage scenery and had to be moved for the renovation work. The school principal at the time told me it was donated to the school by the Studebakers, but they had no room or further use for it and said I could have it.

I took the items home and sorted them and could see that included were some very nice fossils, minerals, and Native American artifacts and an old bronze Egyptian mirror. The only item in the collection ever displayed was the large cephalopod, shown at the Michiana Gem & Mineral Society show in 1990. Since I do not a proper place to display this fine collection I have decided to donate or loan the collection to the Studebaker Museum.

After reading a biography on Clement Studebaker, I could see why he became interested and accumulated this collection. He was born in Adams County Pennsylvania on March 12, 1831 and came to South Bend at the age of twenty. For a while he was a country school teacher, but started a wagon factory with his older brother, Henry, who returned from the California Gold Rush to found the enterprise early in 1852. The company was very successful making conestoga wagons for the pioneers going west. Their military wagon business lead him to visit Indiana troops during the Civil War and he was instrumental in having them moved from a disease infested area near Tampa Florida to a healthier location.

Clement was a delegate to the Paris Exposition of 1878. He sailed from New York on June 8, 1879 and returned in September. While on the European trip he visited Liverpool. He traveled to the New Orleans Exposition in 1885, Yellowstone in 1886 and Tacoma Washington. Clement displayed the Studebaker products at the Cincinnati Ohio Fair of 1888 and was a delegate to the Pan American Congress in Washington DC during the fall of 1889. He escorted foreign visitors to Worchester Mass, Omaha Nebraska and St Louis Missouri.

He was very involved in the planning and execution of the Chicago Worlds Fair in 1892 and 93. His interest in the earth sciences was most evident as a life member of the Field Museum. He was on the Board of Trustees of DePau and Purdue Universities.

Clement and his wife visited Europe in 1901, arriving in Liverpool in May. While there he visited London, Paris, Geneva, New Castle, Edinburgh, and Scotland.

He was quite ill during the last years of his life, but continued working and travelling. He died on Wednesday, November 27, 1901.

Rock Euthanasia  
by Janet Whitaker, 1993

**R**ocks those innocent little fellows you see by the roadside, have a dark side to them, Once you stop your car, they call to you, your ears refuse to hear, but your heart hears those plaintive calls echoing in your heart and head " Take me home, Take me home." You walk on, bravely stepping over them, then you hear it again "Pick me up," You automatically follow orders, and before you know it you are home again. When you open your trunk to get out the couple of rocks you picked up, you are amazed to see that they have multiplied into a trunk full of happy giggling rocks.

As your wife walks by, she says you are banging them together, but you know it's the rocks giggling.

Sure enough, some of them have slipped into your house, now it seems every time you look there are more rocks, outside, inside, under the sofa. in the garage, in the kitchen, in the bathroom. You know you couldn't have put them there, They must sneak around at night, while you are asleep.

Finally, they have taken over the entire house, one of you has to go. Will it be you, or the rocks? No question, you are staying, so what to do. It is time for "ROCK EUTHANASIA." Now that the decision has been made, how do you proceed? What are your options?

Sell them; Can we sell them? They aren't slaves; but we have become their slaves.

Give them away; Trying to give them to your friends is a serious problem. You will run out of friends long before you run out of rocks. Remember they don't stop multiplying, just because you want them to.

Youth groups; Youth groups always want rocks; but I worry about my rocks, will they be loved, and get the tender loving care that I have given them? Some youths, want to make Astronauts, out of them, sailing them through the air. My rocks have not had sufficient training for that, and have disastrous crash landings.

Abandon them; You could just go away and let them lay there. If you do that they could become delinquents. When that happens they tend to break windows, and generally get in trouble. Can you be arrested for creating delinquent rocks?

Make a rock garden; You can try planting them in a rock garden, but in all the times i have tried it, no matter how diligently I water and fertilize them, they just will not grow, or blossom. I don't know why they call it a rock garden. They multiply much faster in the garage.

Landscaping; You might line the borders of your driveway with them. That sounds like a good idea; but the rocks must not like it. When your cars tires get too close the rocks bite them and let out all the air. Then you have to worry about how to deal with angry tires too.

Construction; I tried incorporating my rocks into a bench. I thought that was a good idea, but the birds didn't like it, I guess. They regularly sat on the bench, and did unmentionable things on my friends.

I guess the only solution is to get a bigger house and more storage. If the trend continues, I will not need to have a cemetery lot, just bury me under my rocks.

Janet Whitaker, Canton Ohio

**EARTH TREASURES . . .****SOUTH BEND HAS MORE IN '94***Show and MWF Statu Report*

*Smithsonian Exhibit Gemstones of America Display - To date, a firm confirmation of this display is not in hand but there is no reason to think it will not be forthcoming. By our January meeting date more should be known.*

*We understand that an article about the "Gemstones of America Collection" was published in the Lapidary journal, January, 1980, page 2120. A reprint has been requested from the LJ but to date it has not arrived. (delayed no doubt because of the Holidays!) IF ANYONE HAS A COPY OF THIS ISSUE AND WILL LOAN IT TO US, IT WILL BE PROMPTLY RETURNED.*

*Chuck Collins  
January 9, 1994*

**THE DINOSAURS HAVE RETURNED  
(and we have them surrounded)**

The "Dinosaurs Alive" exhibit has returned to the Studebaker National Museum. With the hope of attracting some of those visiting this exhibit to our Show in September, arrangements were made with the Museum to exhibit a collection of rocks, minerals, fossils and Indian artifacts that belonged to Clement Studebaker (1831 - 1901) and have been in the care of Paul Godollei since 1957. Three display cases were arranged in time for the Dinosaurs Alive opening on December 17th. One case holds an 18 inch cephalopod, another has several large fossils, a pseudo-fossil and a "fossil graveyard" with mineral crystals overlaying. The third case is a large display of minerals and Indian artifacts along with a photo of Clement Studebaker and a synopsis of his life highlighting his interest in the earth sciences. (See Paul Godollei's article elsewhere in this Rockfinder.)

In addition to these displays, is another with a fossil fish purchased expressly for a special drawing at the close of our Show on September 4, 1994. Colorful bookmarks advertising our Show are placed for free distribution to anyone visiting Dinosaurs Alive. The bookmarks have a stub granting free entry to a youngster with a paid adult and can be deposited at our Show for the special drawing. A total of 18,000 bookmarks have been printed and additional will be reprinted as needed.

C.M.C.