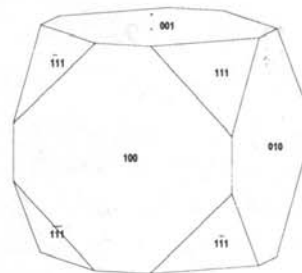


# Friends of Mineralogy

Volume 27 Number 2 June 30, 1997



## PRESIDENT'S LETTER:

I would like to thank the Rochester Mineralogical Symposium for hosting the Friends of Mineralogy breakfast Saturday morning (April 12th). The breakfast was well attended with fifty four members signing the register. We hope that this will become an annual part of the Rochester Mineralogical Symposium, as it will offer an opportunity for members not attending the Tucson event to learn what is going on with FM.

The Colorado Chapter will once again host a Coffee, Tea, and Donut breakfast at the Greater Denver Area Gem & Mineral Show on Saturday September 13th. Details will follow at a later date.

The new project of presenting certificates of appreciation to exhibitors of minerals at shows is well underway. Certificates have been given out at the following shows: Tampa, FL; Tucson, AZ; Columbus, OH; Rochester, NY; Westfield, NJ; and Cincinnati, OH. If you are the exhibits Chairman of your show and would like to know more about these certificates, please contact me.

If you are "on line", please take a look at the Midwest Chapter FM Home page created by Nelson Schaffer and Henry Barwood located at: [www.indiana.edu/~minerals/index.html](http://www.indiana.edu/~minerals/index.html)

If you are "on line", and happen to be a member of the Geoliterary Society, or just like old books, check out: [www.interloc.com](http://www.interloc.com)

Please look for the new Friends of Mineralogy page in the next issue (Vol 27, #4) of *The Mineralogical Record*.

Beau Gordon

## The Treasurer's Message

So many Tucson reports for the First Quarter resulted in the editor "loosing" the Treasurer's remarks. Here they are with my apologies to Roland Bounds.

I would like to thank all the National Chapter members who responded to their dues notices in the recent past. I would also like to remind members from other Chapters that their dues should be paid to their membership person and not to National. A point which has caused some confusion in the past is the treatment of honorary members. Honorary members, elected by the regional chapters, are members of the regional chapter only, unless the chapter pays the member's National portion of their dues. One final point for membership people in the Chapters, receipts should only be sent through if there is money accompanying them or an unused credit is being claimed; and no money should be sent unless it is accompanied by an appropriate receipt. Have a good collecting year.

Regards, Roland

### Home address and phone:

315 Stamford Drive, Newark, DE 19711  
1-302-731-8407

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Newark, DE 19716  
1-302-831-8261;  
1-302-831-3579 fax  
e-mail:  
[25628@udel.edu](mailto:25628@udel.edu)





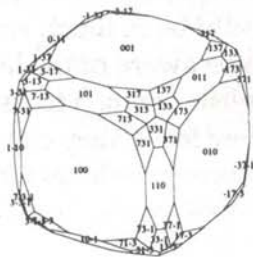
## CALL FOR PAPERS, 19TH FM - TGMS - MSA MINERALOGICAL SYMPOSIUM

The 19th Mineralogical Symposium sponsored jointly by the Friends of Mineralogy, the Tucson Gem and Mineral Society, and the Mineralogical Society of America will be held in conjunction with the 44th Tucson Gem & Mineral Show, Saturday February 14, 1998. The topic of the symposium will be **fluorite; and other Alpine minerals** — the theme minerals for the show.

Papers on descriptive mineralogy, paragenesis, classic and new locations, etc. are invited. An audience of knowledgeable amateurs as well as professional mineralogists and geologists is expected.

If you wish to present a paper, please write or call Robert B. Cook, Symposium Co-chair (Department of Geology, 210 Petrie Hall, Auburn University, Auburn, Alabama 36849: (334) 844-4282; e-mail: cookrob@mail.Auburn.edu) or Beau Gordon, Symposium Co-chair (Jendon Minerals, P. O. Box 6214, Rome, Georgia 30162-6214 : (706) 235-9121; e-mail: jendon6214@aol.com), with your topic, a few sentences describing the paper, and your address, phone number and e-mail. Presentations will be 15 or 20 minutes in length followed by a period for questions. Upon acceptance of topics, all authors will be required to submit a 200-300 word abstract by September 15, 1997 (firm date). Those abstracts will be published in the January-February issue of *The Mineralogical Record* (subject to the approval of the editor), which will be available for sale at the 44th Tucson Gem and Mineral Show

*Fluorite Forms Drawings in this issue generated with SHAPE™ and FACES™ by Credo Schwab.*



## Department of Parks and Recreation Clark County Nevada

Glenn Trowbridge, Director

Heritage Museum

1830 S Boulder Highway

Henderson NV 89015

(702) 455-7955; FAX: (702) 455-7948

PUBLIC SERVICE ANNOUNCEMENT; CONTACT: CHRISTIE LEAVITT, CURATOR OF EDUCATION

AUGUST 16 - NOVEMBER 9, 1997.

"SPLENDOR IN STONE" EXHIBIT at the Clark County Heritage Museum (between Las Vegas and Hoover Dam). Thirty two large photomicrographs on tour from the State University of New York take visitors into the beautiful colors, textures, and shapes of the microscopic world of rocks. Specimens, video, and a chance to experiment with five thin sections in polarized light help visitors learn how Geologists use thin sections to identify minerals and geologic processes at work in rocks, and to interpret the rock's history. Admission \$1.50 adult, \$1.00 senior/child. For information, call the Museum at (702) 455-7955.

OCTOBER 18 & 19, 1997. Sixth Annual Great Basin Mineral Symposium, "Copper and Other Base Metal Deposits of the Southwest", sponsored by the Great Basin Chapter of Friends of Mineralogy and the Clark County Heritage Museum. Speakers include George Robinson of the A. E. Seaman Mineral Museum, "The Mineralogy of Copper"; Richard W. Graeme of the Golden Queen Mining, Company, "The Copper Mines of Bisbee"; and Anna M. Domitrovic of the Arizona Sonora Desert Museum, "Copper Minerals of the Sonoran Desert Region". In conjunction with the Sixth Clark County Gem and Mineral Fair. Registration \$10.00 in advance, \$2.00 per lecture at the door. For information on advance registration, call the Museum at (702) 455-7955.

OCTOBER 18 & 19, 1997. Sixth Clark Co. Gem and Mineral Fair, sponsored by the Las Vegas Gem Club. Clark County Heritage Mu-

(Continued on page 3)



(Continued from page 2)

seum. Rock, mineral, fossil, gem, books and equipment sales — over thirty vendors. Lapidary demonstrations, gold panning, historic prospector, "Splendor In Stone" Exhibit. In conjunction with the Sixth Annual Great Basin Mineral Symposium, "Copper and Other Base Metal Deposits of the Southwest". Admission \$1.50 adult, \$1.00 senior/child. For information, call the museum at (702) 455-7955,

Submitted for the Great Basin Chapter by  
Nelson Shaffer

## **PACIFIC NORTHWEST CHAPTER MONTANA FIELD TRIP 97**

FROM THE DESK OF JOHN CORNISH:

Hi everyone! I've got a little something special planned for this summer again and I'd like to invite all of you along. Gloria and I will be heading towards the wonderful land of Montana and have some neat stops planned while there.

This will be a pre-registration trip and I would appreciate having those members who are coming along fill in and mail the pre-registration sign-up form back to me as soon as possible.

Our trip activities will begin on July 8th when we'll be visiting with Joan and Bryant Harris in Missoula. Here we'll view their wonderful collection and have the opportunity to purchase some specially selected specimens which they will offer for sale.

July 9 and 10 will see us going to collect at the Sally Ann claim in Elliston. On Friday the 11th, we'll head towards Butte for the annual Butte Gem and Mineral Show which will run through the 13th. The Butte group will also be inviting the Montana Crystal Collectors and has planned on having a mini-symposium whose theme will be on Northwest Localities and Minerals. They have asked our group to bring minerals to display at the show (they will provide cases and security). They have also asked me to ask you to volunteer to speak at the symposium on your own favorite Northwest locality. I can provide more details for anyone interested in this. The Butte group will also have a field trip on Sunday, which if it's anything like last year's trip, will be quite fun!

From the Butte show we'll head towards Crystal Park with the possibility of a day trip to Calvert Hill or to another spot I affectionately refer to as mile marker 68.

This trip was very popular and enjoyable when we **did** it as a group back in July of 1994, so come along and share in the good times!

Give me a call at 360-457-7630 if you have any questions or concerns.

Fill out the registration form and mail it to me along with a self-addressed and stamped envelope, which I **will mail** back to you with directions and further comments.

### **PRE-REGISTRATION INFORMATION REQUIRED FOR TRIP**

Your name and the number in your party.  
Would you like to display at the show?  
How many cases? Would you like to present a talk at the symposium?

Send to:

John and Gloria Cornish  
40 Cedar Glen Lane,  
Port Angeles, WA 98362

## **Correspondents Wanted**

The French correspondent for The Mineralogical Record is looking for foreign correspondents for the French mineral magazine "Le Regne Mineral". The magazine has had worldwide distribution for three years and is well rated.

If you would like to become a correspondent and receive a free copy of the magazines in which your articles are printed, you can submit a few details to Pierre-Nicolas Schwab, 36 Rue Sanglier, 45000 Orleans, France.

Here is what he requests: Where do you live? Do you visit shows? Are you a dealer or a collector? What is your background?

Here are their needs: Short stories about the latest mineralogical discoveries in your country. You should be in touch with dealers and collectors to be aware of the latest. You can write in English - French translation is not a problem. They feel if they can get a worldwide network of correspondents who send a paragraph or so on a regular basis their communi-

(Continued on page 4)



cation network would be very much improved.  
Pierre-Nicolas Schwab E-mail to Credo Schwab.  
(Not related just namesakes)

## Here & There In Minerals

*Credo Schwab*



There are some interesting mineral home page locations for you to look at these days if you are on the internet. Don't be "put off" by names like "Bob's Rock Shop". This one, for example, will point you to an entry to all sorts of mineral specimen information, crystallography and books. Here are a few listings for you:

<http://www.xs4all.nl/~mineral/>

This is an Antwerp page with lots of mineral information and will give you entry to mineral & crystallography data. For example, I downloaded a British crystallography training program by finding it through this site. You can also download the complete Fleischer list of minerals (names only).

<http://www.members.aol.com/Arrockinfo/index.html>

Mike & Darcy Howard's Rockhounding Arkansas page. Lots of details if you want an Arkansas collecting trip. Collecting stories and, if you have a good one, Darcy Howard is always looking for them.

<http://www.rockhounds.com/rockshop/table.html>

Specimen information, stamps, books, and Crystallography. All sorts of links to other pages.

<http://www.mineralgem.com/gemhome.htm>

The lead in sheet to a group of mineral dealer pages, a on-line mineral show. Our own president is in this group at [www.mineralgem.com/jendon2.htm](http://www.mineralgem.com/jendon2.htm).

### *The new Dana System Book*

It appears that John Wiley & Sons Publishers and their distinguished group of authors are getting close to publication of the Revised Dana System Book. The authors are in the page proof stage if my information is accurate.

If you are planning a purchase, here are notes to save you money that have worked for a few. Dial 1-800-John Wil. Punch the correct button to order a book. Tell the live person that answers you wish to order the new Dana System of Mineralogy. Confirm that it is to be released on August 23rd. If you order and give the person your credit card number prior to the release date, you will be billed when it is shipped. Until the release date the price is \$120 plus postage (about \$5).

FROM THE PACIFIC NORTHWEST CHAPTER comes some sad news in their Winter Newsletter; Norman W. Steele, Jr. Died on January 31<sup>st</sup>. He was an active micromounter and one of the people who helped put gemstone faceting on a sound mathematical basis. His cheerful willingness to help those of us who had gemstone cutting problems will be long remembered.

## Crystal Drawing

Several people, noting my crystal drawings in various newsletters, have asked about the software. If you want to improve your descriptive mineralogy, equip your self to better identify crystals, or just have the fun of producing drawings for publications, crystal drawing may be for you. Let me try to give you a summary of the programs I know about.

### *General Information*

To my knowledge there are two computer programs for drawing mineral crystals; The fully professional SHAPE™ and a little program by a French programmer called FACES™. I use both of these programs. If I want detailed output lists, twinning or epitaxy and full graphics export flexibility, I use SHAPE™. If I want to quickly sketch a crystal and capture it to a Windows meta file, I use FACES™. The output does not print as well but, as you will see, there is a cost differential to consider.

### *SHAPE™*

When all is said and done, the SHAPE™ program is THE professional tool for crystal drawing. With the right inputs it can calculate and display the morphology of single crystals, twins, epitaxy and other inter-growths. It is a full 32 bit program and can run on Windows 95 and NT. It can, with Win32S installed (supplied with



SHAPE™), run on Windows 3.1. There is a DOS version and a Macintosh version.

The Windows program is easy to learn and use. Basically, you enter a name for your crystal, the system (e.g. Orthorhombic), the cell parameters (a,b,c), and select the Point Group symmetry (Hermann-Mauguin symbols). You then enter one form for each symmetry element and its axial central distance. Then you tell the program to calculate the crystal. You can adjust faces two ways. You can click on a face and change its central distance and recalculate. If you have erred and cannot see the face, you can go back to the input forms summary, select the form and alter its central distance. You can show the Miller Indices on the faces, color the forms, show hidden faces and crystal axes. You can rotate the crystal. It can, in truth be said, you can do just about anything with the crystal and output the information to any Windows printer, to a plotter, or to any of several graphics file formats. Raster files \*.BMP, \*.PCX, \*.TIF; Windows meta files \*.WMF (standard, placeable and enhanced). You can also save from screen to bitmap file \*.BMP or put the drawing on the clipboard for transfer to another program. Stereonet can be displayed as well as stereopairs.

The cost of SHAPE™ varies with the version and platform. The standard mineral crystal program, Ver. 5.5 is \$195.00 including shipping. The professional version for sections and quasicrystals is \$295. The DOS standard version 4.2 is \$195 and the Macintosh is \$245 in both 68K and PowerMac editions. You can E-Mail Shape Software, Eric Dowty at Shape Software [shape@compuserve.com](mailto:shape@compuserve.com) or write Shape Software, 521 Hidden Valley Road, Kingsport, TN 37663.

### FACES™

I did not know of this program until about a month ago. My namesake Pierre-Nicolas Schwab, a French and European reporter for The Mineralogical Record, sent me a demo copy after a discussion on the internet regarding crystal drawing. This is a fun crystal drawing program that is very economical. If you send the author (address at end of article) \$40 in an international money order he will send you the program files over the internet.

The program works in a much different way than SHAPE™. You set the System (e.g. cubic) and the symmetry on a fly-out menu from the system selection. Then you set the cell parameters (a,b,c). These steps give you a predefined prism. To the prism you add, one by one, the forms you want and "draw" them by "cutting" the prism. The net result of this technique is you can go very fast increasing or reducing the cut percentage until you get the desired face. A right mouse click displays the forms present and the cut percentages. A click on a face enables you to adjust the cut. You can display the stereo net and display a stereo pair. No twinning or epitaxy. You can color fill forms, show a line drawing, back or hidden lines and show the indices on the faces as in SHAPE™. There is a print routine but you need to write your own print driver for it unless you have a HP Laserjet 5. I just happened to have the correct printer. You can capture a standard windows meta file (\*.wmf) and export a drawing. I have been able to open the drawing in Microsoft Word (after some instruction from the author) and edit the Miller Indices by deleting the corner faces that just looked confusing. I have then imported the file into Microsoft Publisher and produced some good drawings. They are not as good as the placeable meta files from SHAPE™ because they have sizing limitations.

But this is a fun program and it also can teach you a lot about crystallography. Also, if you install it on a laptop, it would be good as a tool to project crystal drawings on a screen for a mineral talk. Its simplicity makes it very fast.

If FACES™ interests you, here is how to get it. The easy way is over the internet. Write the author Georges Favreau at [georges.favreau@mail.titn.alcatel.fr](mailto:georges.favreau@mail.titn.alcatel.fr). He will download the shareware demo for you. Then, send him an international money order for \$40 to:

Georges Favreau,  
Résidence Châteaudouble Bât 8 E3  
Av. Jean Monnet  
13090 AIX-EN-PROVENCE, FRANCE

He, in turn, will download the full program exe file to you.

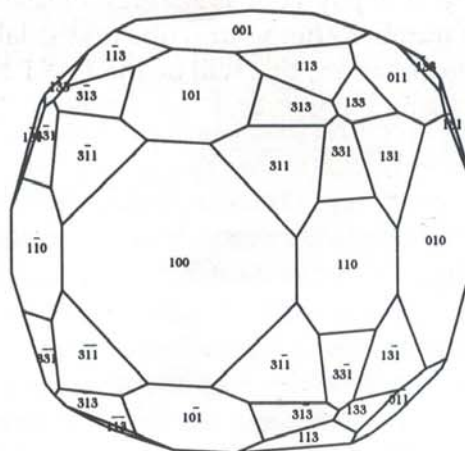
## Drawings

I have tested SHAPE™ and FACES™ in drawing isometric crystals. I get essentially the same drawings as shown on pages 6 and 7. The default crystal view is slightly different between the two programs. You can rotate the crystals to a similar axial position but the default views with no rotation are different. All drawings are based on Fluorite forms from Dana System, 7th Ed.

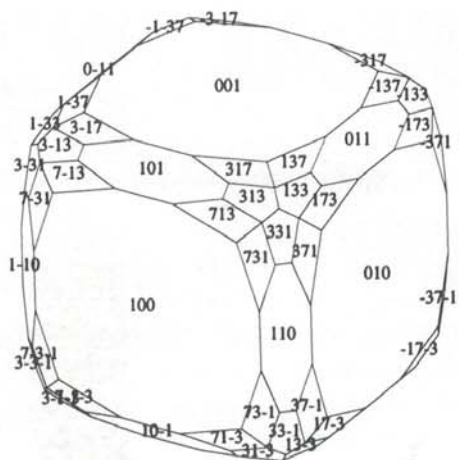
## Final Note

You can buy, from Shape Software, Libraries of crystal drawings and a book showing the crystal drawings. My mentor suggested I use SHAPE™ for a while before doing this so as to learn the concepts. This is a good idea but, if you want to go faster, I recommend the libraries providing you can afford them. The first, GK-1 has 700 mineral crystals, based on models designed by P. Groh, drawn for the SHAPE™ program and a book of drawings. The second, GK-2, a supplement, contains an additional 200 drawings. Each book and drawing group is \$100.

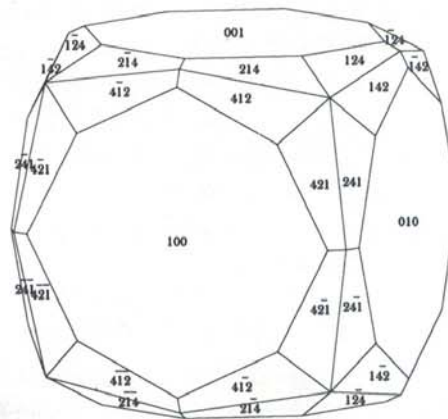
If you decide to try crystal drawing, good luck. If I can help drop me a note at [bigcredo@AOL.com](mailto:bigcredo@AOL.com)



Drawn in SHAPE



## Drawn in FACES



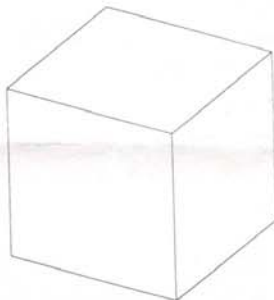
## Drawn in SHAPE



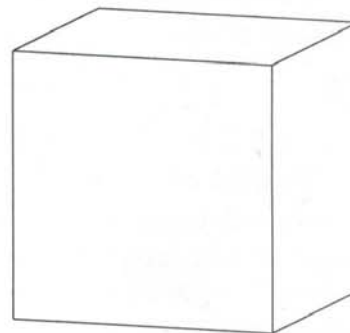
## Attention! Dues Note From the Secretary's Desk

Due to the cost of mailing, it is imperative for you to pay your 1997 dues. Please check the number after your name on the label. If it is 96 or earlier, this will be the LAST Newsletter mailed to you until your dues are brought up to date. Mail your dues to Roland Bounds, FM Treasurer, 315 Stamford Drive, Newark, DE 19711-2723

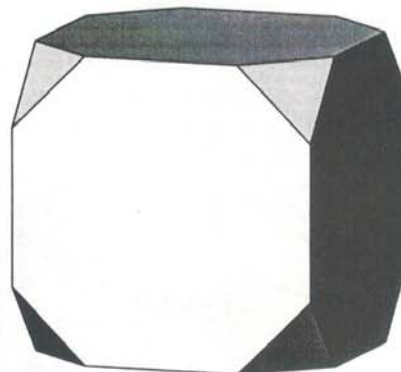
*Mike Howard, Secretary*



FACES Drawings



SHAPE Draw ings



## Masthead — FM Newsletter

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The Mineralogical Society of America and *The Mineralogical Record* Magazine



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