

Friends of Mineralogy

affiliated with the mineralogical record

First Class Mail

Betty Tlusch
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FRIENDS OF MINERALOGY NEWSLETTER - MARCH/APRIL 1987 NO.1

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MARCH - APRIL

DIRECTOR'S MEETING

The Friends of Mineralogy Annual Director's Meeting was held at 7:30 a.m., February 12, 1987 in the Aztec Room of the Santa Rita Hotel. Fourteen directors were present: Don Zowader, Al Kidwell, Russell Boggs, Walter Lombardo, Henry Truebe, Peter J. Modreski, Arlene A. Handley, Kay Robertson, Anthony R. Kampf, Jessie Hardman, Robert W. Jones, Marie Huizing, Marcelle Weber and Ray Lasmanis. Attending guests were Dick Thomssen of The Mineralogical Record, Inc., Charles Weber, Don Lasmanis, and representing the new Indiana Chapter, Terry Huizing.

Ray Lasmanis, F.M. President, opened the meeting. Don Zowader, Secretary, reported the ballot results for F.M. directors. Out of 608 ballots sent out, only 40 were returned with the following six candidates elected for a three year term: Peter Megaw, Walter Lombardo, Arlene Handley, Kay Robertson, Ray Lasmanis and Philip Scalisi; they received, respectively, 38, 40, 35, 37, 40, and 40 votes. Write-in votes were also cast for Jessie Hardman (1), W. L. Roberts (1) and Allen Heyl (1).

The financial report for the period February 1, 1986 to February 1, 1987 was given by the Treasurer, Al Kidwell, and approved by the board. The statement shows an initial balance of \$4,909.70 and a final balance, after deduction of operating expenses, of \$7,105.81. Our increase in assets was the result of M.R. Index sales --210 copies with our share of the proceeds at \$12.50 each.

Ray Lasmanis presented the membership report. As of November 1st, 1986, we had 608 members, an all time high. In preparing the membership directory, all those who were in arrears for more than two years were dropped from F.M. Due to the cost of printing and the significant mailing costs, it was decided that a membership directory would only be produced every three years. Pete Modreski compiled the membership interest analysis for the directory. Pete reported that he had 307 filled out interest forms collected over a number of years. These were used to generate the report starting on page 15 of the directory. Any new member should fill out an interest form and a copy should be sent to Pete Modreski.

Marcelle Weber announced the Award Committee's choice for the best article in the Mineralogical Record for 1986. a panel of five selected the winner as "Phosphate Minerals from the Tip Top Mine, Black Hills, South Dakota" by Campbell and Roberts. A total of 36 articles were considered. A certificate of merit was mailed to the authors and \$100.00 was donated to the Mineralogical Record in their name.

Pete Modreski reviewed progress on F.M.'s locality indexing project. A publication is envisioned that would list significant locality data for the U.S., Canada and Mexico. Also, important classic localities from 43 other countries (344 entries) could be included. Proposed formats were distributed for comment

both at the Directors' Meeting and at the F.M.-T.G.M.S. symposium on February 15th. Pete Modreski would like to hear from members that could gather and edit information for the following states: Alabama, Alaska, Delaware, Hawaii, Iowa, Kansas, Kentucky Massachusetts, Minnesota, Mississippi, Montana, Nebraska, New York, North Carolina, North Dakota, Rhode Island, South Carolina, Tennessee, West Virginia and Wyoming. Cost will be a prime limitation on the number of entries that can be included.

Dick Thomssen presented to the Directors results of the Mineralogical Record Board Meeting as it relates to "The Mineralogical Record Index -- Volumes 1-14". Volunteers from F.M. continue to prepare annual updates which are forwarded to M. R. Our agreement called for M.R. to publish an update after three years. Dick pointed out that they have about 750 volumes of the Index. It was the feeling of the F.M. Board that updates at this time would undercut the sales of the index and that it would be more appropriate to produce a 20-year index which will include all data from the original volume as well as the annual updates. Cost was also a factor to consider. Dick did point out that their Board appreciates the valuable contribution we are making and encouraged us to continue this effort. M.R. will take each annual update and put the data on floppy disks at this time at a cost of \$1,000 each. so the project is moving ahead. To facilitate sales of remaining indexes, Dick proposed that we amend our revenue sharing agreement to allow for a 20% discount to dealers. Both F.M. and M.R. would share pro rata in the

price reduction. After a discussion period and a motion by Robert Jones, the F.M. Board voted to amend our agreement with M.R. to allow for a 20-year index and to give dealers a 20% discount starting with the 1987 Tucson Gem and Mineral Show.

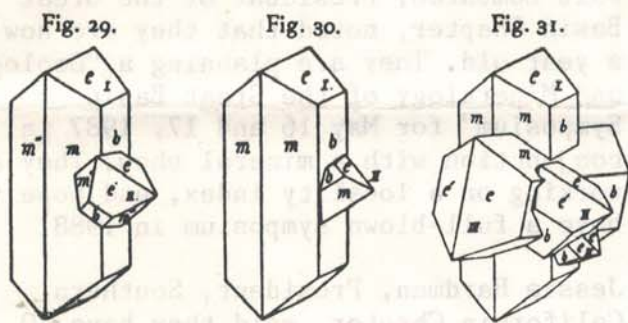
On another subject, Marcelle Weber was asked to look into how chapters report membership and dues information to the national F.M. She observed that there are major inconsistencies. Since we do not have a membership chairman, the most efficient way for regional chapters to report data is to send it directly to the Treasurer, Al Kidwell, and not to the Secretary, Betty Tlush or Cheryl Stewart. The Treasurer will then receipt the money, send out any badges, and relay the address information to Cheryl Stewart so that address labels can be generated. Perhaps a report to Al once every six months would be sufficient. Members who have not paid for more than two years would be dropped. since the system has not been operating that smoothly in terms of new members receiving badges, Al Kidwell was instructed to send a number of them (badges) to each of the chapters for distribution at the local level.

Since our treasury is in good shape, Ray Lasmanis suggested that we return to the regional chapters funds that were donated towards the cost of the M.R. Index project. A motion was put on the floor to reimburse each of the five chapters \$50.00 It was pointed out that the chapters had contributed \$100.00 each. The motion was amended to read that we would reimburse each chapter

whatever they had contributed in cash. The amended motion was passed. A second motion was presented that required the Treasurer to advise each of the newly formed chapters that, if requested, they are eligible to receive a \$50 gift to help them get established. This motion was also passed.

The nominating committee presented the nominees for 1987 F.M. Board officers: Ray Lasmanis, president: Marcelle Weber, Vice-President: Al Kidwell, Treasurer: and Betty Tlush, Secretary. The nominees were elected unanimously by vote of the directors.

And last, congratulations go to the newly formed Friends of Mineralogy Indiana Chapter.



FRIENDS OF MINERALOGY TREASURERS REPORT

Feb. 1, 1986 to Feb. 1, 1987

| | |
|--------------------------|-----------|
| Checking account balance | |
| Feb. 1, 1986--- | \$ 909.70 |
| Savings Certificate | 4000.00 |
| Total assets | 4909.70 |

INCOME

| | |
|------------------------|-----------|
| Dues | \$1970.00 |
| MR Index Sales | 2625.00 |
| (210 copies @ \$12.50) | |
| Interest on Ckg. Acct. | 149.09 |
| Misc. | 106.73 |

EXPENSES

| | |
|---------------------|---------|
| MR Best Paper Award | 100.00 |
| President. Expenses | 1033.28 |
| (Directory) | |
| Sec'y. & Membership | |
| expenses | 1424.04 |
| Treasurers Exp. | 22.00 |
| Membership | |
| maintenance | 50.00 |
| Past-Pres. Exp. | 71.40 |
| Nominating Comm. | 26.95 |
| Calif. Registration | 2.50 |
| Symposium Exp. | 250.00 |
| | 2987.82 |

| | |
|----------------------|---------|
| Calculated Balance | |
| Feb. 1., 1987 | 2772.70 |
| Svg. Certificate and | |
| interest--1986 | 4333.11 |

| | |
|--------------|-----------|
| Total assets | \$7105.81 |
|--------------|-----------|

New Mexico Mineral Symposium

A call for papers has been issued for the next Symposium in Socorro, Nov. 14-15, 1987. Information may be gotten from R. M. North, N.M. Bureau of Mines, Socorro, N.M. 87801

ANNUAL MEMBERSHIP MEETING

The annual Meeting of the Friends of Mineralogy, Inc., was held in the Greenlee Room of the Community Center, Tucson, Arizona, on Thursday morning, February 12, 1987. The meeting was called to order at 10:35 A.M., Raymond Lasmanis, President, presiding.

The President announced that something different would be done about scheduling this meeting, next year. He introduced the officers and asked those present to introduce themselves.

Pete Modreski, reporting for the Nominating Committee, said that 38 ballots were received and all six candidates were elected. The new Directors, for three years, are Peter K.M. Megaw, Walter S. Lombardo, Arlene A. Handley, Raymond S. Lasmanis, Kay Robertson and Philip Scalisi. The officers for 1987 are Ray Lasmanis, President; Marcelle Weber, Vice-President; Al Kidwell, Treasurer; and Betty Tlush, Secretary. Betty could not be present because she was busy on the show floor.

The financial report was presented by Al Kidwell. There has been an increase in assets of \$2,196.00.

Pete Modreski discussed the Locality Index project and passed out data sample sheets. There was a general discussion of the project.

Kay Robertson reported she had been speaking to dealers who are happy to hear there would be a 20% discount to dealers on the Mineralogical Record Index. M.R. and F.M. will share "the cut" on a pro rata basis.

Ray Lasmanis called attention to the new Directory which he had mailed. Those not receiving a copy should let him know. Those who had not paid dues in 1983 and 1984 were dropped from the list. The membership as of November 1, 1986 was 608.

Marcelle Weber reported that a panel of three men and two women from various sections of the United States and Canada had selected the best article in the Mineralogical Record for 1986. The winner was "Phosphate Minerals from the Tip Top Mine, Black Hills, South Dakota" by Thomas J. Campbell and Willard L Roberts.

Second and third were "Famous Mineral Localities: The Kongsberg Silver Mines, Norway: by Johnsen and "Famous Mineral Localities: Knappenwand, Untersulzbachtal, Austria" by Seeman.

Atacamite crystal drawings from
"Atlas der Krystallformen"
Victor Goldschmidt

The President reported that a new chapter is just about ready, based in Indiana but including members in Ohio. An Arizona chapter is in process of forming.

Mrs. Weber reported the Pennsylvania Chapter had held a symposium in November, with emphasis on radon. She further reported that the S.E. Michigan Chapter is small but had just elected a new president. Ray Lasmanis reported that the Pacific Northwest Chapter had held a successful symposium in Tacoma, Wash. with more than 200 in attendance. Mention was made of their leadership problem.

Pete Modreski reported for the Colorado Chapter, Commenting on their very successful Pegmatite Symposium, attended by 225. They are planning another symposium for 1988 with two field trips. The minerals of Colorado is being worked on.

Walt Lombardo, President of the Great Basin Chapter, noted that they are now a year old. They are planning a "Geology and Mineralogy of the Great Basin Symposium" for May 16 and 17, 1987 in conjunction with a mineral show. They are working on a locality index, and hope to have a full-blown symposium in 1988.

Jessie Hardman, President, Southern California Chapter, said they have 70 members. They held a symposium in November on "The Transverse Ranges" in California. They are trying to incorporate more programs into their general meetings. Arlene Handley suggested trading or sales at meetings.

Betty Tlush would like to have a note or letter describing activities of other chapters to include in the national newsletter.

Ray Lasmanis announced that Henry Truebe had put together a Symposium on Quartz to be held on Sunday, February 15, at 10:30 A.M. to 3:00 P.M. A book of abstracts is available. Ray congratulated Henry on a job well-done! Henry will do a symposium

THE 1987 TUCSON GEM & MINERAL DISPLAYS

by

RAY
LASMANIS

again, next year, using the show theme-Beryl. It was suggested that, perhaps, a better time to hold the membership meeting would be at 10:00 A.M., before the symposium.

Al Kidwell announced that he would accept dues.

Twenty-one attended the meeting.

The meeting was adjourned at 11:50 A.M.

Marcelle H. Weber
(Secretary Pro Tem)

Fig. 12.



Colorado Chapter

The Denver Chapter is planning a second symposium to be held in the summer of 1988. The topic will be "Mineralogy of Gold and Silver Deposits" with special emphasis on Colorado. For further information contact Pete Modreski, 8075 W. Fremont Dr., Littleton, Colo. 80123.

Pennsylvania Chapter

The new mineralogy of Pennsylvania project is off and rolling with Jay Lininger and a team of assistants to help in organizing the project. The chapter by-laws have been revised and up-dated, and now must be officially approved by the board and the general membership.

A new mineral from the Wheatley Mine-Wheatleyite has been announced by R. C. Rouse, D. R. Peacor, P.J. Dunn, W.B. Simmons and D. Newbury. A Natural sodium copper salt of oxalic acid. (American Mineralogist, vol 71, pp1240-1242, 1986.

Indiana Chapter

Incorporated and the constitution accepted by the membership on January 11, 1987. CONGRATULATIONS!

The theme of this year's show was quartz. Besides featuring quartz with its incredible variety of colors and crystal habits, as usual, the exhibits displayed world class mineral specimens from private collections and institutions. Collectors seem to be fascinated by inclusions in quartz. This was reflected by the numerous specimens on display. In fact, the show easily could have easily have had as the theme-"inclusions in quartz". Besides minerals, display cases contained rare books, gem art carvings, fossils and related subjects. I thought the show was well balanced between the theme--quartz--and world classics of other mineral species.

Before one even entered the display hall, you had to pass what is probably the largest quartz crystal on display in North America. The gigantic, complex, doubly terminated crystal stands ten feet tall and weighs 17,500 pounds. The crystal is from a pegmatite in Namibia and was exhibited by W. L. Cotton (Zee Gallery) and mine owner Hans Kleynhaus.

The most valuable case had to be by the American Museum of Natural History. They had on display the flawless "Brazilian Princess"--a pale blue faceted topaz, cut out of a 75 pound crystal from Minas Gerais, Brazil. The gem is cut in a square cushion form with 221

facets, and measures 14.5 by 14.5 by 12 cm (5.7 by 5.7 by 4.7 inches) and weighs 21,005 carats (9.25 pounds). The crystal was mined in the 1970's, but it took twenty years for the technology to develop so that it could be faceted. It took one year to be completed.

Quartz is one of my favorite minerals, so I really enjoyed this year's show. Viewing minerals is like walking through an art gallery: personal biases come into play. Anyway, I could not select the best quartz specimen. Instead I will note the ones that appealed to me in a special way. Of American specimens, there was a rare classic, displayed by the Cleveland Museum of Natural History--a group of three, six inch, absolutely deep purple amethyst crystals from Iron station, N.C.. From Colorado, Ed Raines displayed a matrix specimen of very deep green microcline (amazonite) crystals (2 in. by 3 in.) on which were perched 1 1/2 inch smoky quartz crystals. This specimen from the Clarence Coil Claim, Lake George area, Park County. Also from Lake George area, Al Ordway had on display an outstanding dark smoky 10 in. quartz crystal on a 14 in. green microcline base.

From other localities, my favorites were scattered throughout the show. The most spectacular case contained a 52 pound and a 57 pound transparent smoky quartz crystal with inclusions of golden rutile in "V" shaped radiating sprays. The rutile sprays in side the quartz are up to 2 1/2 inches long. Also inside the case was a 2" by 2 1/2" smoky quartz Gwindel

(twisted) crystal with inclusions of hairy rutile. These specimens were collected from an undisclosed locality on April 1, 1985 in the state of Bahia, Brazil by Dave Kent and Brian Cook (Bird Eye Mineral).

There were two specimens in the Houston Museum of Natural Science case that really appealed to me--a six inch golden rutilated quartz crystal from Curvello, Minas Gerais, Brazil and a 12 " plate of 1 to 2" long rutilated quartz crystals (very unusual) from Sonora, Mexico. What could have been the best smoky quartz crystal group of the show was exhibited by the Sorbonne Collection--an unbelievable 12 inch gemmy, smoky quartz crystal from Val Giuf, Grisons, Switzerland. My favorite specimen with inclusions was also in the Sorbonne case--2 inch long quartz crystals with deep green diopside phantoms from Reneville, Congo.

There were three educational cases pertaining to quartz. I enjoyed viewing them. The Smithsonian Institution had a case titled "Quartz and Associated Species" containing 63 specimens from noted localities around the world. If I had to choose three specimens from the case, they would be: a 3 1/2 inch pale, smoky quartz crystal on the side of which (perpendicular to the "C" axis) is a perfect little clear topaz crystal from Swakopmund, Namibia: red, 1 1/2 inch rhodochrosite crystals perched on quartz crystals from Pasto Bueno, Peru: and a 3/4 inch by 1 1/2 inch purple apatite crystal on the side of a 5 inch long, clear quartz crystal from Panasquiera, Portugal. The Dept. of Geological Sciences, University of Calif. at Santa

Barbara had a well done educational display on crystallography of quartz. The specimens were assembled from the collections of Jean and Harry Hamel, William Moller and the University of California.

A case by Jeff Scovil (Mineralogical Society of Arizona) won First Place and Best Master award in the educational division on amethyst scepters from the Flat Jack Mine, Crown King, Yavapai County, Arizona. Contributors to the case were Ariz. Dept. of Mines and Mineral Resources, J. Scovil, H. Michel, and David Shannon. A lecture was given on the Flat Jack Mine by Jeff Scovil on Sunday as part of the well attended eighth annual F.M.-T.G.M.S. Symposium.

Of course there were other cases that contained notable quartz specimens. A return crystal from last year's show was the large, clear quartz crystal with included 1/2 to 3/4 inch pyrite crystals from Buenopolis, Brazil. This specimen was exhibited by the Cleveland Museum of Natural History, along with a lovely Denny Mountain (Washington) sceptered amethyst and deep pink quartz crystals on a citrine crystal (4 by 5 inches) from Sapucaia, Brazil.

Ed Huskinson, Jr., winner of First Place and Best Advanced award winner had a tabular, 1 1/2" lustrous galena crystal standing on edge amongst quartz crystals from Naica, Mexico. The specimen caught my eye because previously I had only seen tabular galena crystals from Pine Point, N.W.T., Canada. Herkimer diamonds (quartz crystals) from New York were part of a case that gave Wolfgang Mueller First Place in the novice

category. In terms of unusual localities, Bryan and Kathryn Lees displayed a 4" wide by 10" long black quartz crystal on top of which were perched two 5" scepters of black quartz. (Emerald Lake, Yukon Ter.)

The Flandrau Planetarium had a huge (10: wide by 2 1/2 ft. long) amethyst scepter on display from Hallelujah Jct., inside California. The Lyman Museum and Mission House of Hilo, Hawaii had on display a personal favorite--2" by 6" clear quartz crystals with siderite on a 12" chalcopryite matrix from Panasquiera, Portugal. Les Presmyk featured Arizona quartz crystals, including very attractive clear crystals from Quartz Hill, Quartzite. Al Ordway displayed a 11" tall, red tourmaline from the Tourmaline Queen Mine, Pala, Calif. Bob Jackson was there with a case of 1986 finds of clear quartz crystals and pyrite from the Spruce Claim, King County, Washington. In the case was a 2" clear, sceptered quartz crystal projecting out of two intergrown pyrite cubes. Last, but not least, in the terms of quartz, Wayne, Janie and Carolyn Manchester had a lovely collection of deeply colored amethyst from Veracruz, Mexico and the Artigas Mine, Uruguay.

Two cases contained cover photo minerals from the Mineralogical Record. The Smithsonian had the specimen from Vol. 1, No. 2--a 5" smoky quartz crystal on a 8" microcline (amazonite) matrix, Crystal Peak, Colorado. Maudine and Bob Sullivan had in their case a 2 1/2" galena crystal on matrix from the Sweetwater Mine Reynolds County, Missouri,

which was one the cover of Vol. 16, No. 6.

I had mixed feelings about the very large display of inclusions in quartz crystals by Edward R. Swoboda. Crystals with phantoms, inclusions of yellows, reds and greens were beautiful to look at, but almost all had to be lapped polished and in some cases cut. There seems to be a grey area developing between crystal collectors and lapidarists.

Both the McDole and Lidstrom trophies were won by two cases submitted by Tom McKee. The Lidstrom entry was a group of huge, dark green vivianite crystals on a pyritic matrix from Morococala, Santa Fe Mining District, Oruro, Bolivia. He also had deep green (up to 3" long) pencil like, prismatic vivianite crystals from the Blackbird Mine Lemhi, County, Idaho. The 3" by 5" tall, deep green aquamarine crystal from Minas Gerais, Brazil was nothing to sneeze at. But in my opinion, the best specimen in the case was the intense red, 1" to 1 1/2", absolutely lustrous, radiating rhodochrosite crystals in a 4" group from N'Chwaning Mine, Black Rock District, Kurman, South Africa.

The American classics with special value were a flawless, canary yellow, rough diamond crystal from Murfreesboro, Arkansas, by the Smithsonian (W. A. Roebling collection) and a gorgeous--1" wide by 2" tall) deep green emerald crystal on matrix from Hiddenite, No. Car. (Cat. No. 19547). It was shown by the Cleveland Museum of Natural History. The best European classic was in a case by Keith and Mauna Proctor--silver wires

on a 3 1/2" by 4 1/2" matrix from Freiberg, E. Germany with a documented date of 1452 for the specimen.

In circulating past the exhibits, I made notes on those specimens that in my opinion were special. Institutions with their resources and benefactors were well represented. The Natural History Museum of Los Angeles had a recent acquisitions case in which there were the most spectacular 4" by 12" ruby red elbaite tourmaline crystal from Alto Ligonha, Mozambique. (A gift from Ed Harrison). In a case with no name was a specimen, 3" wide, 5 1/2" high, shiny gold leaf from Tuolumne County, California, the finest Brazilian aquamarine, and a 4" dark brown axinite crystal from Toroku mine, Iwato, Nishiwouki-gora, Miyazaki, Japan. The American Museum of Natural History had a Mexican case, the centerpiece of which was a spray of yellow legrandite (found during 1977) from the Ojuela Mine, Mapimi, Mexico. The Lyman Museum and Mission House had a classic from Franklin, New Jersey--a 5" by 10" slab of white calcite in which are four, bright red 2" to 3" rhodonite crystals. Also the Lyman had a 2 1/2" by 4" crystal of manganotantalite from Anjone, Madagascar and a thin, but perfect, brown, beveled, 2" square wulfenite floater from Tsumeb, Namibia.

The Harvard University Mineralogical Museum put on a "killer" case of Arizona minerals. In the opinion of one dealer, the best American specimen in the show was the connellite from the Czar Mine, Lowell, Cochise County. The connellite is lining a 2 1/2" vug with bright blue

acicular crystals (the matrix is 4"). Also in the case were huge, 1 3/4" bright, lustrous azurite crystals on 6" matrix from the Copper Queen Mine, Bisbee and a very interesting specimen of divergent azurite crystal spray (4" long) totally replaced by green chrysocolla from Bagdad, Yavapai County. The Pinch Mineralogical Museum case featured early classic minerals of the British Isles, and contained everything from rare blue licronite, Wheal Gorland, St. Day, Cornwall, to linarkite, Susana Mine, Lead Hills, Lanarkshire, Scotland, to perfect clear 3" to 4" nailhead type calcite crystals from the Bigrigg Mine, Egremont, Cumberland, England.

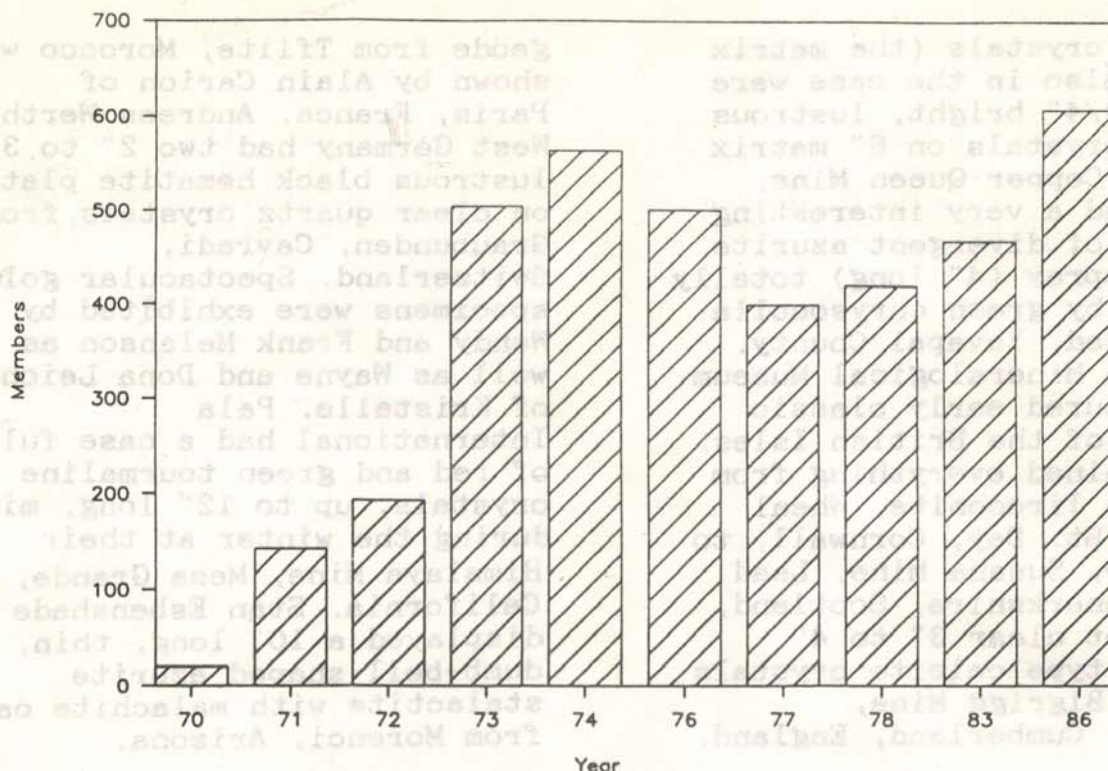
Of institution quality are the gem crystals in a case by Keith and Mauna Proctor. Fabulous crystals of elbaite tourmaline, aquamarine, brazilianite, zoisite and the famous 4" morganite (beryl) crystal perched on the side of a pink tourmaline crystal from the Tourmaline Queen Mine, Pala, California (see Mineralogical Record, Vol. 7, No. 5, pg 218). There was excitement at the show when gem crystals, stolen from Keith Proctor on May 13, 1983 at the Astro Hall in Houston were spotted at a dealer booth on the floor of the arena. Most of the stolen crystals were recovered.

There were outstanding displays by individuals. The display by Harris Precht, Jr. of midwest fluorite was exceptional. The most unusual specimen was a clear 1" cube, containing a 1/2" purple cubic phantom in the center, and a beautiful blue 2 1/2" cube--both from Cave-In-Rock, Illinois. Unusual, pencil thin, 6" drusy quartz stalactites in a 14"

geode from Tflite, Morocco were shown by Alain Carion of Paris, France. Andreas Werth of West Germany had two 2" to 3" lustrous black hematite plates on clear quartz crystals from Graubunden, Cavradi, Switzerland. Spectacular gold specimens were exhibited by Wendy and Frank Melanson as well as Wayne and Dona Leicht of Kristalle. Pala International had a case full of red and green tourmaline crystals, up to 12" long, mined during the winter at their Himalaya Mine, Mesa Grande, California. Stan Esbenshade displayed a 10" long, thin, dumb-bell shaped azurite stalactite with malachite caps from Morenci, Arizona.

I left the best for last, to close my observations of the 33rd Annual Tucson Gem and Mineral Show. It was the opinion of many, that the best single new specimen in the show was a unbelievable cuprite crystal on a 2" cuprite/atacamite matrix. It was in a case by Richard W. Graeme. The lustrous, ruby red, clear crystal measures 3/4" by 1" by 1" and is believed to be the best single cuprite crystal in the world. It was found in October, 1986 by R. W. Graeme's twin sons, Douglas and Richard W. Graeme, 3rd. The locality is a short, near surface adit, Southwest mine, Bisbee, Arizona. In the case was the vug from which the crystal was recovered. It consists of a 10" by 14" mass of limonite, cuprite and atacamite with a 3 1/2" vug in the center. Flashes of red light reflect back from the ruby red cuprite crystals from inside the vug. There was a constant crowd around the Graeme's case during the show.

FM Membership



MEMBERSHIP REPORT

Preparation of the membership directory made it possible to report on the health of our organization. As of November 1, 1986, we have 608 paid up members. For comparison, see the table below:

| <u>Year (s)</u> | <u>no. members</u> |
|-----------------|--------------------|
| 1985-86 | 608 |
| 1982-83 | 468 |
| 1978 | 420 |
| 1977 | 399 |
| 1976 | 501 |
| 1974 | 564 |
| 1973 | 505 |
| 1972 | 193 |
| 1971 | 143 |
| Feb. 13, 1970 | 21 * |

* Friends of Mineralogy was founded in this date.

FRIENDS of MINERALOGY, INC. 1987 OFFICERS
(elected board meeting, Tucson, Az., February 12, 1987)

| | |
|--|---|
| President - Ray Lasmanis Dept. Geol. & Earth Res. Dept of Nat. Resources Olympia, Wa. 98504 (office) (206) 459-6372 (home) (206) 459-0984 | Vice-Pres. Marcelle Weber 1172 W. Lake Ave. Guilford, Ct. 06437 (203) 481-2658 |
| Secretary- Betty Tlush 1202 Perion Dr. Belen, N.M. 87002 (505) 864-2145 | Treasurer Al Kidwell 14403 Carolcrest Houston, Tx. 77070 (713) 497-1066 |

BOARD OF DIRECTORS

Until Feb. 1988

| | |
|----------------|--|
| Russell Boggs | 207 Lincoln, Cheney, Wa. 99004 |
| Gene Foord | 14193 W. 1st Dr., Golden Co. 80401 |
| Mike Groven | 1590 Olive Barber Rd., Coos Bay, Or. |
| Robert Jones | 3520 N. Rose Cir. Dr., Scottsdale, Az. 85251 |
| Betty Tlush | 1202 Perion Dr., Belen, N.M. 87002 |
| Marcelle Weber | 1172 W. Lake Ave. Guilford, Ct. 06437 |

Until Feb. 1989

| | |
|----------------|---|
| Dee Belsher | 9250 W. 100th Cir. Broomfield, Co. 80020 |
| Tony Kampf | 12923 Warren Ave., Los Angeles, Ca 90066 |
| Albert Kidwell | 14403 Carolcrest, Houston, Tx. 77079 |
| Peter Modreski | 8075 W. Fremont Dr., Littleton, Co. 80123 |
| Don Zowader | 97 Lamington Rd., Somerville, N.J., 08876 |
| Marie Huizing | 53441 Thrasher Dr., Cincinnati, Oh. 45247 |

Until Feb. 1990

| | |
|-------------------|---|
| Peter Megaw | |
| Walter Lombardo | 4728 Elm Ave., Las Vegas, Nv. 89110 |
| Arlene A. Handley | 800 NW 72nd St., Vancouver, Wa. 98665 |
| Ray Lasmanis | 2711 Morse Merryman Rd., Olympia, Wa. 98501 |
| Kay Robertson | 10334 Ilona Ave., Los Angeles, Ca. |
| Philip Scalisi | 23 Hazel Court, Maintree, Ma. 02184 |

Regional Chapter Presidents

| | |
|-------------------|--|
| Colorado | P. Modreski, 8075 W. Fremont Dr., Littleton, Co 80123 |
| Great Basin | W. Lombardo, 728 Elm Ave., Las Vegas, Nv. 89110 |
| Indiana | Richard Eddy, 6235 Hartford Ave, Columbus, In. 47203 |
| Pacific Northwest | Dr. Robert Smith, 8316 11th Ave NW, Seattle, Wa 98117 |
| Pennsylvania | Geo. Buchanan, 80 Belz Road, R.D., Telford, Pa. 18969 |
| SE Michigan | Kathleen Alcorn, 1691 Oak St., Birmingham, Mi. 48809 |
| So. California | Jessie Hardman, 4759 Blackthorne Ave., Long Beach, Ca. 90808 |

AFFILIATIONS

American Federation of Mineralogical Societies Liason:

Don Caudle, 1248 E. Prince Rd., Tucson, Az. 85719

The Mineralogical Record Tucson, Az.

Mineralogical Society of American Liason:

Eugene Foord, 14193 W. 1st Dr. Golden, Co. 80401

FRIENDS of MINERALOGY, INC. 1987 OFFICERS
(elected board meeting, Tucson, Az., February 12, 1987)

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|--|---|
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