

FM friends of mineralogy

affiliated with the mineralogical record

MEMBERSHIP NEWSLETTER

1981 - No. 1 - June

This, the first FM newsletter for 1981, reports on the 1981 FM officers and directors; the formation of a new, fifth regional chapter, Southern California; and on the activities of national FM and of the chapters.

Our new president is Tony Kampf, of the Los Angeles County Museum. Vice-president is Carl Francis, of the Harvard University Museum. The treasurer is Russell P. MacFall, of the San Diego Natural History Museum. The secretary remains Peter J. Modreski, of the U.S. Geological Survey, Denver. A new, appointed office this year is that of membership chairman, and Ron Bentley, of Tucson, Arizona, is performing this job of assisting the other officers in keeping track of our membership.

FM is run by a board of 18 Directors, who serve for 3-year terms. The 6 Directors elected in 1981 are Richard Bideaux, Russ MacFall, Jack Murphy, Morris Ratcliff, Don Schmerling, and Robert J. Smith. The officers are elected each year by the Directors at the annual meeting in Tucson.

Have you paid your 1981 dues to FM? The box below indicates whether or not you have, according to our records. If you belong to a regional chapter, please pay your dues to the chapter treasurer. If you are not a chapter member, submit your dues directly to the FM treasurer, Russell P. MacFall, P.O. Box 309, Coronado, CA 92118. FM dues are \$5; for regional chapter members the chapter keeps \$3 and \$2 goes to the national organization. Some chapters charge additional dues on top of the standard \$5. If you change your mailing address please inform the membership chairman, Ron Bentley, 1822 S. Garthage Pl., Tucson, AZ 85710.

Your dues are paid for 1981

You have not yet paid 1981 dues

Pete Modreski, FM Secretary
8075 W. Fremont Dr.
Littleton, CO 80123
June 17, 1981

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EDITORIAL

Minerals, Localities, and What Do You Do When You Belong to FM?

by Peter J. Modreski

What do you do when you belong to FM? By my present count we now have 474 members, about half of whom belong to the five regional chapters. For those of us who belong to a chapter the answer is easy. We attend regular (bimonthly to semi-annual meetings, meet other mineral collectors or mineralogists, participate in symposia and shows, and perhaps help local museums, work on preparing publications, or take part in a field trip. Quite probably, many of us who belong to a chapter don't take part in as many FM activities as we would like to, and those who don't belong to a chapter don't take part in any--after all, there is just an annual meeting in Tucson, and perhaps a symposium there every other year. What can you, as a member, do for FM? Let's look at a statement of our goals; I'll quote from a column by Joel Arem in the March/April, 1971 Mineralogical Record:

1. To protect and preserve mineral specimens, especially those used for teaching, study and display, and to promote conservation of designated specimen localities and mining deposits by publicizing their historic, scientific and educational usefulness.

(cont. on page 7)

REPORT ON THE ANNUAL MEETING AND BOARD MEETING, TUCSON, AZ, Feb. 13-14, 1981

The Friends of Mineralogy annual directors meeting was held at 10 am Friday, Feb. 13 in the Tucson Community Center. 12 of the 18 FM directors were present: Ron Bentley, Carl Francis, Tony Kampf, Russel MacFall, Peter Modreski, Jack Murphy, Del Oswald, Earl Pemberton, Morris Ratcliff, Don Schmerling, Robert J. Smith, and Hal Steacy. Also present were former directors and FM members Bryon Brookmyer, Dick Erd, Eugene Foord, Dan Caudle, Arthur Roe, Hilde Seel, and Paul Seel.

Delbert Oswald, outgoing FM president, opened the meeting. The minutes of the 1980 meetings were accepted as previously printed and distributed to the directors by the secretary. The financial statement and analysis of operating expenses for Feb. 1, 1980 - Jan. 31, 1981 prepared by outgoing treasurer Arthur Johnstone (reprinted elsewhere in this newsletter) was read and approved. The statement shows an intial balance of \$5,397.50 and a final balance of \$6,268.02. It was noted that at the request of his family, a memorial fund has been established in honor of Ross W. Glenn of Durango, Colorado, with all donations to be used by Friends of Mineralogy for some mineralogical purpose.

The matter of payments to The Mineralogical Record for expenses of printing columns submitted by FM was discussed. \$600 has been given to M.R. as compensation for past material printed. Del Oswald reported that the present understanding between FM and M.R. is that there will be no set "page charge" for material printed, but that FM will make donations as appropriate to help defray the costs of printing material contributed by FM.

The secretary reported the results of the balloting for election of FM directors to serve 3-year terms, Feb. 1981 - Feb. 1984. 148 ballots were returned out of 416 mailed to all active FM members. The 6 candidates were elected: Richard Bideaux, Russell MacFall, Jack Murphy, Morris Ratcliff, Donald Schmerling, and Robert J. Smith; they received, respectively, 148, 140, 145, 142, 144, and 147 votes. Write-in votes were also cast for Dee Belsher (2) (already a director), Bryon Brookmyer (2), Eugene Foord (2), Louis Moyd (1), Walter Risch (3), Robert Trimmingham (1), and C.E. Withers (1).

Earl Pemberton, chairman of the nominating committee, presented the nominees for 1981 FM

officers: Anthony Kampf, president; Carl Francis, vice-president; Russell MacFall, reasurer; and Peter Modreski, secretary. The nominees were elected unanimously by vote of the directors

Del Oswald suggested some possible changes to the FM By-laws: that a new position, that of membership chairman, be added to the four present FM officers, and that the term of office of all FM officers be increased from one to two years, with one re-election permitted. It was agreed that it would be very useful to have a membership chairman to aid the treasurer and secretary in keeping track of membership information, but that it was not necessary to change the FM By-laws to do this. The By-laws permit the Board of Directors to "choose such other officers, who must be members of the corporation, as the business of the corporation may require." (Art. IV, sec. 1). It was agreed that the president and treasurer would find and appoint a volunteer to serve as membership chairman. The proposal to extend terms to 2 years was defeated. It was agreed that officers would normally be encouraged to serve two consecutive terms to increase continuity, but that it was not necessary to formalize this.

Carl Francis, Anthony Kampf, and John White comprised the committee to select a recipient for the Friends of Mineralogy Annual Award for the article published each year in the Mineralogical Record which represents the best mineralogical and scientific contribution. Carl announced that the first recipient, selected for 1980, would be Richard Bideaux for his article, "Famous mineral localities: Tiger, Arizona", which appeared on p. 155-181 of the May-June, 1980 issue (vol. 11, no. 3; the "Arizona-I" issue). The award will be a lifetime subscription to the Mineralogical Record. There was a discussion as to whether an FM medal (bronze?) might be created, to accompany the FM best article award each year. It was proposed that a donor could probably be found to donate at least the cost of the artist's fee for designing a medal, which could be in the range of one to several thousand dollars. Additional expenses of making dies and striking about 10 medals would run about \$500-\$900. It was suggested that such a medal might be designed to honor David Lapham, one of the founders of Friends of Mineralogy. There was no general consensus as to the appropriateness of instituting such a medal.

(continued next page)

REPORT ON THE ANNUAL MEETINGS (cont.)

The directors agreed to discuss the matter of a medal at the next meeting, after communicating the proposal to the membership. Carl Francis was appointed to study the idea of a medal. One alternative would be to prepare a certificate or scroll to accompany the FM award.

Bryon Brookmyer described the activities of the Pennsylvania FM chapter. A successful fall symposium was held in Westchester, Pa. A new book, Special Publication No. 2, has been published (1980) by the Pennsylvania Chapter; it is Historical Sketches of Copper and Lead Mining in Montgomery County, Pennsylvania by F. Harold Evans, with a foreword and appendix by Allen V. Heyl. This is a 36-page, soft-cover booklet describing the history of mining in the several districts within the county; the Schwenksville, Audubon, Pottstown-Sumneytown, and Twentieth Century districts. The region may be better known to some through the names of the Perkiomen and Ecton mines. The bulk of the book itself deals only with mining history; Allen Heyl has contributed a 5-page section on the mineralogy of the mines. Another publication available from the Pennsylvania Chapter is special Reprint No. 2, Mineralogy of Chester County with the Localities Annexed by William W. Jefferis (1854). This is a 57-page reprint (7 7/8" x 11 7/8") of the original handwritten script of the author, describing the minerals of the county. Both of these publications are available from the Pennsylvania Chapter at a cost of a few dollars apiece; check with the chapter for exact prices and mailing costs. A new publication, a 1975-1980 update to Robert C. Smith's The Mineralogy of Pennsylvania, 1966-1975, is being planned.

Morris Ratcliff discussed possible interest in FM in Florida, where there are many active collectors, and the ways in which an FM chapter might serve their interests. How FM might aid local groups in sponsoring a symposium in Florida was discussed. It was agreed that FM would be available to provide some "seed" money to organize a symposium, but that the best advice would be to "start small" in planning a first symposium.

Eugene Foord discussed the activities of the Colorado FM chapter. The chapter's project, a 1958-1980 update to Minerals of Colorado: a 100-year Record by E.B. Eckel, is well along, and plans have been made to have it published by the Colorado State Geological Survey.

Tony Kampf reported on the formation of the Southern California chapter, the newest regional chapter of Friends of Mineralogy

Del Oswald briefly reported on the Locality Index project. There has been basically no activity on this project in the past year, and Ed Carper has stepped down as chairman of the project.

The Friends of Mineralogy annual membership meeting was held on Saturday, Feb. 14. Frederick Pough presented the first FM Best Article award to Richard Bideaux, a presentation that was repeated at the Tucson Gem and Mineral Show awards ceremony that evening. Regional chapter activities were reported on by Bryon Brookmyer (Pennsylvania); Jack Murphy (Colorado); Robert J. Smith (Pacific Northwest; their next annual (1981) fall symposium will be on "Silicates"); and Wes Greenmyer (Southern California; the main aim of the chapter is to aid local museums).

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TREASURER'S REPORT FOR 1980

Submitted by Art Johnstone, Treasurer, for the year Feb. 1 1980 - Jan. 31 1981.

| | |
|-----------------------------------|------------|
| cash balance as of 1/31/80 | \$ 5397.50 |
| receipts - dues | 1592.00 |
| - donations* | 25.00 |
| - repayment of loan | 600.00 |
| total receipts | \$ 2217.00 |
| subtotal | \$ 7614.50 |
| expenditures - operating expenses | \$ 746.48 |
| - payment to M.R. | 600.00 |
| total expenditures | \$ 1346.48 |
| cash balance as of 1/31/81 | \$ 6268.02 |

*includes \$20.00 for the Ross W. Glenn Memorial Fund

Analysis of operating expenses: by source:

| | |
|----------------------|-----------|
| Secretary | \$ 353.43 |
| Treasurer | 366.41 |
| Nominating Committee | 25.22 |
| Bank charges | 1.42 |
| | \$ 746.48 |

breakdown by type:

| | |
|-----------|-----------|
| Telephone | \$ 53.31 |
| Postage | 333.96 |
| Printing | 292.91 |
| Supplies | 68.31 |
| Misc. | (2.01) |
| | \$ 746.48 |

FOURTH ANNUAL M.S.A.-F.M. SYMPOSIUM

"The Mineralogy of Pegmatites", the fourth annual Mineralogical Society of America - Friends of Mineralogy symposium (also co-sponsored by the Tucson Gem and Mineral Society) was held February 15-16, 1981 at the Tucson Community Center, Tucson, Arizona. The symposium was a scientific and a financial success, with 23 speakers plus the lecture at the Saturday evening banquet and over 100 registrants. The registration fee was \$20 for the two-day symposium, and General Chairman Richard Bideaux reports that expenses of the symposium were met with sufficient funds left over to provide the advance funding for the next, future symposium. Gordon E. Brown, Jr., of Stanford University, arranged an outstanding technical program for the symposium; the authors of the papers were:

- Petr Cerny, "The Tanco pegmatite, southeastern Manitoba".
- Bryan C. Chakoumakos, Marcia E. Register, Douglas G. Brookins, Rodney C. Ewing, and Gary P. Landis, "The Harding pegmatite: a summary of recent research".
- John S. White, "Foote mine mineralogy".
- Eugene E. Foord, "Bismuthian stibiocolumbite-tantalite and other minerals from the Little Three mine, Ramona, California".
- Vandall T. King, "Crystallization history of a Newry, Maine pegmatite".
- John Sinkankas, "Alpine-type beryl-emerald deposits near Hiddenite, North Carolina".
- Richard V. Gaines, "The Brazilian pegmatite province".
- Boris M. Shmakin, "Some famous pegmatite localities in the U.S.S.R.".
- Al Falster, "Pegmatites of the Wausau pluton, Wisconsin".
- Elbert A. King, "Mineralogy of the Badu pegmatite, Llano County, Texas".
- E. William Heinrich, "Kindreds and districts of rare earth mineral pegmatites in Colorado".

- William B. Simmons, "The Black Cloud pegmatite, Teller County, Colorado".
- George R. Rossman, "Origin of color in pegmatitic minerals".
- Paul B. Moore, "The primary pegmatite phosphate minerals".
- Anthony R. Kampf, "The phosphate mineralogy of the Palermo pegmatite".
- James E. Shigley, Gordon E. Brown, Jr., and Richard H. Jahns, "The occurrence of phosphate minerals in granitic pegmatites: an example of lithiophilite from the Stewart mine near Pala".

David London and Donald M. Burt, "The geology of lithium pegmatites in the White Picacho district, Maricopa and Yavapai Counties, Arizona".

Willard L. Roberts, "Secondary phosphate minerals from pegmatites of the Black Hills, South Dakota".

Richard A. Bideaux, "Gem-bearing pegmatites at Klein Spitzkop, Namibia (Southwest Africa)".

Bruce E. Taylor, "Light stable isotope geochemistry of granitic gem- and non-gem-bearing pegmatites".

Philip M. Fenn, "Recent progress in experimental studies of pegmatite genesis".

Richard H. Jahns, "Roles of aqueous vapor in pegmatite genesis".

Gordon E. Brown, Jr., "On the nature of pegmatitic fluids"

The speaker at the symposium banquet was Clifford Frondel, talking on "Mineralogy and mining of early American pegmatites". It is planned to publish abstracts of all the papers in a future issue of the American Mineralogist.

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COLORADO CHAPTER

The Colorado Chapter reports that Mineralogy of Colorado 1858-1980, the book in progress to update Edwin Eckel's 1958 volume, has been officially approved for publication by the Colorado State Geological Survey. The final stages of compilation of information and abstracting of the literature are being performed now, and the writing of the text has begun. Publication of the finished book is planned for the summer of 1982. The book will include a description of all mineral species known to occur in Colorado, arranged alphabetically, a list of Colorado "type" species, a list of species new to Colorado since the publication of Eckel's book, 50 or more black-and-white photographs, and at least 10 color photographs. The next chapter meeting, July 30, will feature Rik Collins speaking about the diamond-bearing kimberlite diatremes of northern Colorado. Recent programs at meetings have included (February) Allen V. Heyl speaking on "Geology and mineralogy of the Franklin-Sterling Hill zinc ore deposits, New Jersey", and (April) Dan Kile speaking about "Thunder Bay Minerals".

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A reminder: this newsletter is available to you as a forum for any questions, proposals, or comments you may have about FM. Write c/o the secretary; I'd be glad to hear from you.

SOUTHERN CALIFORNIA CHAPTER

by Wes Greenamyner,
president, SCFM

For all too many years, Friends of Mineralogy members living in southern California have had to content themselves with no more involvement in the organization than mailing their annual dues and voting their annual ballot. This unlikely situation persisted in spite of the fact that many of the country's most respected collectors and finest collections resided in southern California and that very many of the world's finest specimens at least pass through the area.

Such was the state of deprivation and stagnation that would likely still exist had Dr. Anthony Kampf, Curator of Mineralogy at the Los Angeles County Museum of Natural History, not called together a group of FM members and other dedicated collectors to meet during the 1980 show of the Mineralogical Society of Southern California in Pasadena. The heartening response at that meeting, verifying that a regional chapter was needed and wanted, resulted in the first scheduled meeting at the Los Angeles County Museum of Natural History. At that's January 16th organizational meeting Wes Greenamyner was elected president; John Koivula, vice-president; Kay Robertson, treasurer; Mike Gray, corresponding secretary; and Jessie Hardman, recording secretary. Jean Hall, Anthony Kampf, Russell MacFall and Willard Perkin were selected to fill out the Board of Directors.

The following month, the chapter's newly elected Board met at the site of the Tucson Show. Tucson '81 was an especially auspicious event for the Southern California Chapter. It was here that its advocate and director, Tony Kampf, assumed the duties of FM national president; its director, Russ McFall, assumed the office of FM national treasurer; and the national board made the chapter official by issuing its charter. Tony Kampf brought the charter to Los Angeles, presenting it to Wes Greenamyner who, in turn, presented it to the chapter at a March 15th meeting at the L.A. County Museum.

The most recent meeting was held on April 12th. After the screening of the new, award winning, L.A. County Museum of Natural History Gemological Institute of America film "Gems of the Americas", decisions were made regarding the chapter's educational exhibit for the California Federation of Mineralogical Societies show being held in Anaheim in August.

Suggestions for functional projects at the L.A. County Museum have already resulted in three full-day work parties of FM members turning out to sort, classify, and move stored mineral department materials from a corner of a cavernous hall where a new dinosaur exhibit will be installed. Much more of this practical effort is projected.

The next regular meeting of the Southern California Chapter is scheduled for June 14th at the San Diego Museum of Natural History, where Russ McFall is curator of minerals. Along with its intention to document and study historical and new mineral occurrences throughout California and to establish a comprehensive reference collection of related materials at the L.A. County Museum, the Southern California Chapter is pledged to work with other natural history museums in southern California, such as the San Diego Museum of Natural History, the San Bernadino County Museum of Natural History in Redlands, and the Riverside County Museum in Riverside, to foster closer co-operation between amateurs and professionals in the mineral field and a vital exchange of materials, information, and ideas between these museums.

Add to this projected symposiums to be held during the annual shows of the Mineralogical Society of Southern California in Pasadena, and all should know that Friends of Mineralogy can finally look forward to a meaningful presence in this corner of the country.

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PACIFIC NORTHWEST CHAPTER

The 1981 (7th annual) Northwest Mineral Symposium will be held Sep. 26-27; the topic will be "Silicates, I". The speakers will (tentatively) include Richard Bideaux, Al Falster, and Paul Moore. For information about the symposium, contact Mike Groben, 1590 Olive Barber Road, Coos Bay, OR 97420, (503) 269-9032. The next meeting of the chapter will be Saturday, July 6, 1981, 9:00 am to 5:00 pm, at the Clark County PUD Building, Vancouver, Washington. The meeting will include planning for the symposium and other activities, examination and discussion of minerals, trading, and a slide program, "Northwest plate tectonics and minerals, or, do we really belong to the same continent as New Jersey?". The spring issue of the chapter's newsletter contains a 2 1/2 page article by John Bodisch, "Flux Mine Bonanza", in which he quotes at length from a letter by David Shannon, describing the recent find of abundant "jackstraw" cerussite

BOOKS

We often lament that the latest edition (the 7th; v. 1, elements to oxides, 1944; v. 2, other non-silicates, 1951; v. 3, silica minerals, 1962) of Dana's System of Mineralogy has not recently been updated or extended to include the silicates. However, a number of good, recent books on systematic mineralogy exist, though some are not in English. I'd like to describe some of them, with some examples of their content.

Chemical and Determinative Tables of Mineralogy (Without the Silicates) by R.M. Pierrot (Masson Publishing USA, N.Y., 591 p., 1979) was mentioned in our July, 1980 newsletter. It contains a listing of minerals according to the chemical elements they contain, which is very useful and is the only such index presently available. Following the chemical index portion of the book is a listing of data on each mineral. For example, under sec. 30, tellurium minerals, is:

"POUGHITE (1968) - $\text{Fe}_2(\text{TeO}_3)_2(\text{SO}_4) \cdot 3\text{H}_2\text{O}$

Orthorhombic - Pmnb

$a=9.66$ $b=14.20$ $c=7.86$ $Z=4$

$7.10(100)$ $5.74(100)$ $3.546(60)$ $3.336(60)$

$3.239(70)$

Th.: $\text{Fe}_2\text{O}_3=26.05$ $\text{TeO}_2=52.08$ $\text{SO}_3=13.06$ $\text{H}_2\text{O}=8.81$

Analysis 1968 (C): $\text{Fe}_2\text{O}_3=26.34$ $\text{TeO}_2=50.56$

$\text{SO}_3=12.32$ $\text{H}_2\text{O}=9.40$ $\text{Ins.}=0.97$ $T=99.59$

R.V. Gaines, *Am.Min.*, 1968, 53, 1075"

Klockmanns Lehrbuch der Mineralogie by Paul Ramdohr and Hugo Strunz (Ferdinand Enke Verlag, Stuttgart; 16th ed., 876 p., 1978; corrected edition by H. Strunz, 1980). An initial section of this "textbook" describes basic principles of mineralogy; this is followed by descriptions of the individual minerals. For example (p.841, from a section on new minerals and new data):

"Charoit, $\text{K}(\text{Ca}, \text{Na})_2[(\text{OH}, \text{F})|\text{Si}_4\text{O}_{10}] \cdot \text{H}_2\text{O}$. Monoklin; $\underline{a}, \underline{b}, \underline{c} = 31.85, 7.13, 22.15 \text{ \AA}$, $\beta = 94^\circ 15'$, $Z=18$. - Dichte faserige Aggregate, $\#(001)$ gut. $H \sim 6$, $D=2.54$. Lila bis violett; $n_{\alpha, \beta, \gamma} = 1.550, 1.553, 1.559$, $2V=28-30^\circ$, \oplus , $\alpha=b$, $\gamma:c=5^\circ$. - Mit Tinaksit, Canasit, K-Feldspat und Agirin am Kontakt von metasomatischen Alkaligesteinen mit Marmor, Murun Massiv, Mittellauf des Charo-Flusses, Ost-Sibirien. - Wird zu Ziergegenständen verschliffen. (S. 702, nach Canasit)"

A review by Anthony Pabst of the 1980 revised edition of this book appeared in *Rocks and Minerals*, March/April 1981. Pabst notes that the 1980 edition includes a 55-page supplement, on new minerals described through Jan. 1980, that was originally published in Der Aufschluss, the

monthly journal of the Vereinigung der Freunde der Mineralogie und Geologie. Klockmann also contains a unique and useful 17-page section "Berühmte Mineralfundpunkte", giving one-paragraph descriptions of 115 world-wide "famous mineral localities".

Mineralogische Tabellen by Hugo Strunz (Akademische Verlagsgesellschaft, Leipzig, 5th ed., 621 p., 1970) is another very useful volume. Strunz does not devote space to mineral localities, but it is very good for its listing of minerals according to groups with structural similarities. For example, listed under " M_2O_3 - und verwandte Verbindungen", sec. 6, "Davidit-Crichtonit Reihe", is:

"Davidit $(\text{SE}, \text{U})_x(\text{U}, \text{Fe}^{2+})(\text{Ti}, \text{Fe}^{3+})_6\text{O}_{13-x}$

(Mawson, 1906) Trigonal C_{3i}^2 - $\text{R}\bar{3}$

$a_0=10.37$ $c_0=20.87$ $c_0/a_0=2.013$
 $Z=9$

Davidit enthält orientiert eingewachsenen Rutil, entsprechend der bekannten Epitaxie $\text{Fe}_2\text{O}_3\text{-TiO}_2$.

¹⁾A. Pabst, *Am.Min.* 46. 1961. 700. - B. Contag, *priv. Mitt.* 1968 (Formel, $x \sim 1/3$; Strukturvorschlag)."

Crystal Chemical Classification of Minerals by A.S. Povarennykh (Plenum Press, N.Y.-London, 1972; 2 vol., 766 p.; revised English edition, translated from the 1966 Russian original by J.E.S. Bradley). This work emphasizes the structures and crystal chemistry of minerals, and the relations between minerals that have structural similarities. An excerpt (p. 280-281, under III., Oxygen Compounds, Class 1. Oxides, sec. 9 Magnetoplumbite-högbomite group, Högbomite subgroup. Hex.-trig.):

"Högbomite $\text{Mg}_{2-x}\text{Al}_4\text{O}_8-x$ Hex. D_{3h}^3 - $\bar{P}62m$

$\underline{a} 5.72$, $\underline{c} 23.02$, $\underline{Z} 5$, $\rho 3.8$, $H 7$

Str. The species in this subgroup have related structures based on hexagonal close packing (Fig. 102) for the oxygen. The \underline{a} parameter is the same for all (it corresponds to the b parameter of the chain oxides in the wolframite-columbite group), while the \underline{c} parameters are multiples of 4.6 (twice the cation-oxygen octahedron) and vary as between polytypes. ..."

A Manual of New Mineral Names 1892-1978 by Peter G. Embrey and John P. Fuller (British Museum (Natural History) - Oxford University Press, 467 p., 1980). This book is a compilation of the entries from 30 Lists of New Mineral Names, as they have appeared in the journal Mineralogical Magazine over the years. It includes many varietal, synonymous, and super-

(cont.)

(Books, cont.)

ceded names, and names of synthesized and incompletely described minerals. An example:

"Poughite. R.V. Gaines, 1968. Amer. Min., 53, 1075. Yellow orthorhombic crystals of $\text{Fe}_2(\text{TeO}_3)_2\text{SO}_4 \cdot 3\text{H}_2\text{O}$ from the Moctezuma mine, Sonora, Mexico. Named for Dr. Frederick H. Pough. M.A. 69-620; Bull., 92, 317; Zap., 98, 325. 26th List."

and,

"Pouzacite. - Frossard, 1890. [Bull. Soc. Ramond, Bagnères-de-Bigorre.] A. Lacroix, Mineralogie de la France, 1895, vol. i, pp. 383, 384. A variety of clinocllore, identical with leuchtenbergite, occurring in metamorphic limestones at Pouzac, Hautes-Pyrenees. 6th List."

An Index of Mineral Species and Varieties; Arranged Chemically by Max H. Hey (British Museum, London; 2nd, rev. ed., 1955, 728 p.) is a classic work on systematic mineralogy. Two appendix volumes have also been published: Appendix to the Second Edition of An Index of Mineral Species and Varieties Arranged Chemically by M.H. Hey (British Museum, 1963, 135 p.) and A Second Appendix to the Second Edition of... by M.H. Hey and Peter G. Embrey (1974, 168 p.) An excerpt from the Second Appendix, p. 14:

"4 OXYSULPHIDES AND HYDROXIDE-SULPHIDES (for sulphides with carbonate see section 12; for sulphides with silicate, see section 17.9).

4.5 Valleriite has been shown to have a layer structure, with layers of composition CuFeS_2 and $(\text{Mg,Al})(\text{OH})_2$ in a ratio near 1:1.5. M.A. 69-1061; cf. M.A. 17-499; 72-2282; 72-2300. Complete general formula, M.A. 73-4059. Type I (12.3.1) and Type II (4.8), M.A. 73-759."

The Ore Minerals and Their Intergrowths by Paul Ramdohr (English translation of the 4th edition, with additions and corrections, Pergamon Press, Oxford-N.Y., 2 vol., 1205 p., 1980) is another book worth mentioning. Although this encyclopediac work is commonly thought of as a reference book on ore petrography, it contains a wealth of information on the properties, composition, paragenesis, and intergrowths and inter-relationships of the ore minerals. It does emphasize the study of polished sections of ore minerals under the microscope, but this book is well worth consulting by anyone studying any of the sulfide, oxide, and related minerals.

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(Editorial, cont. from page 1)

2. To further a more generous spirit of cooperation and sharing of specimens and collections among mineral amateurs and professional scientists, also to encourage the collecting and acquisition of minerals for their research and educational, rather than commercial, value.

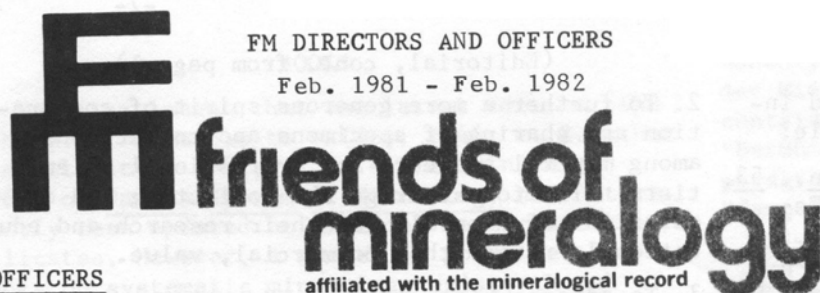
3. To advance mineralogical education, especially in academic programs of mineral study and research, educational activities of amateur mineral organizations, and wider appreciation of mineral specimens in terms of their esthetic, scientific and economic importance.

4. To support publications, such as the journal Mineralogical Record which communicates FM activities and is an educationally-oriented affiliate, and those programs initiated by individuals or groups whose activities coincide with FM goals.

Are we meeting any of these goals? FM and, in particular, the Pennsylvania and Pacific Northwest chapters have sponsored numerous symposia to bring together amateurs and professionals to discuss minerals. The Pennsylvania chapter has been very active in publishing mineralogical books and booklets. All of the chapters engage in projects of local interest. The Mineralogical Record, founded simultaneously with FM, is now a thriving and an excellent magazine, although some perhaps see a problem in the continuing conflict between its original scientific and educational goals and the commercial interests which provide so much of the money to keep it going.

"Preservation" of mineral localities has long been a prime goal of FM. Several notable localities were "saved for posterity" largely through the personal work of Art Montgomery, a founder of FM. Since then, Mike Groben has led a study of examples of locality preservation, most of which have been published in the Record. Can we do more? Localities still disappear from access by development, closure, regulations, and commercial removal of specimens. Are mining claims filed on mineral specimen localities by clubs and individuals a blessing or a curse? You can investigate and discuss localities in your area for which FM might "do something"; talk to Mike Groben about your ideas or suggestions. (An article about problems with access to lands for geology students and others appeared on pp. 28-29 of the May, 1981 Geotimes magazine; it's worth reading.)

You can organize people in your local area into a FM chapter. You can organize a mineralogical symposium locally (3 of us essentially did that in New Mexico two years ago). FM has or had a project to publish an index of mineral localities in the U.S.; can you help us complete it?



FM DIRECTORS AND OFFICERS

Feb. 1981 - Feb. 1982

A.F.M.S. Liason - Dan Caudle, 1248
Prince Rd., Tucson, AZ 85719
M.S.A. Liason - Carl Francis

OFFICERS

Anthony R. Kampf, President; Los Angeles County Museum of Natural History, 900 Exposition Blvd., Los Angeles, CA 90007; home, (213) 390-3243; office, (213) 744-3328

Carl A. Francis, Vice-President; Harvard Museum, 24 Oxford St., Cambridge, MA 02138; (617) 495-4758

Russell P. MacFall, Treasurer; P.O. Box 309, Coronado, CA 92118

Peter J. Modreski, Secretary; 8075 W. Fremont Dr., Littleton, CO 80123; home, (303) 978-9926; office, (303) 234-6808

Ron Bentley, Membership Chairman (appointed); 1822 S. Carthage Pl., Tucson, AZ 85710

BOARD OF DIRECTORS: members until Feb., 1982:

Dee Belsher; 4472 Prado Drive, Boulder, CO 80303

Ron Bentley (address above)

Mike Groben; 1590 Olive Barber Road, Coos Bay, OR 97420 (503) 269-9032

Delbert L. Oswald; Carnegie Museum of Natural History, 4400 Forbes Ave., Pittsburgh, PA 15213

William D. Panczner; Arizona-Sonora Desert Museum, Rt. 9, Box 900, Tucson, AZ 85704; (602) 883-1380

Harold R. Steacy; Geol. Surv. of Canada, 601 Booth St., Ottawa, Ontario K1A 0E8; (613) 994-9249

members until Feb., 1983:

Carl A. Francis (address above)

Richard V. Gaines; Route 1, Hoffecker Rd., Pottstown, PA 19464 (215) 323-0326

Anthony R. Kampf (address above)

Peter J. Modreski (address above)

Donald R. Peacor; 2179 Yorktown Blvd., Ann Arbor, MI 48105 (313) 764-1452 (offc)

H. Earl Pemberton; 16520 Bristlecone St., Lake Elsinore, CA 93220 (714) 674-2265

members until Feb., 1984:

Richard A. Bideaux; 710 W. Bangalor Dr., Oro Valley, AZ 85704

Russell P. MacFall (address above)

Jack A. Murphy; Denver Museum of Natural History, City Park, Denver, CO 80205 (303) 575-3923

Morris W. Ratcliff; 114 Emerald Ave., Lake Wales, FL 33853

Donald W. Schmerling; 1780 Prescott Rd., York, PA 17403

Robert J. Smith; Box 197, Seattle University, Seattle, WA 98122

REGIONAL CHAPTER PRESIDENTS:

Colorado: Eugene E. Foord, 14193 W. 1st Drive, Golden, CO 80401

Pacific Northwest: Robert J. Smith (address above)

Pennsylvania: Bryon Brookmyer, Box 19, Blue Ball, PA 17506

Southeastern Michigan: Gordon Herron, 3155 Grayson, Ferndale, Michigan 48220

Southern California: Wesley R. Greenamyre, 633 W. Wardlow Rd., Long Beach, CA 90806

ASHREF, QURESHI MOHAMMED - Westend Instruments, 136 N. Market St., Inglewood, CA 90301
BANCROFT, PETER - 3538 Oak Cliff Dr., Fallbrook, CA 92028
BARNER, JOHN O. - 5003 W. 12th Ave., Kennewick, WA 99336
BERGEN, JOHN H. - 1724 N. 14th, Coos Bay, OR 97420
BIGGS, CARL R. - 761 E. Huerta Verde Rd., Glendora, CA 91740
BROWN, LARRY - 1030 South Gale St., Albany, OR 97321
CROCKETT, JOHN G. - 508 Devon Rd., Havertown, PA 19083
DAVIS, ERNEST A. - 7752 Desertwood Lane, Pleasanton, CA 94566
DONLEY, ROBERT G. - Box 155, Quentin, PA 17083
DORNE, ARTHUR - 1668 S. Forge Mtn. Drive, Valley Forge, PA 19481
DUNN, HAROLD M. - 91218 Donna Rd., Springfield, OR 97477
FAVIER, VICTOR E. - 2925 Durbin St., Eugene, OR 97405
FLANAGAN, MARGARET - 2910 Spring St., Port Moody, B.C. V3H 1Z7 Canada
GRAEBER, CHARLES - P.O. Box 47, Fallbrook, CA 92028
GRAY, MICHAEL - P.O. Box Q, Midpines, CA 95345
GROSS, MARGARET - 1301 El Mirador Dr., Fullerton, CA 92635
GUGELER, HEINZ G. - 7852 NE 14th St., Bellevue, WA 98004
GUGELER, SHIRLEY A. - 7852 NE 14th St., Bellevue, WA 98004
HALL, DON - 664 Forbes Ave., Montebello, CA 90640
HALL, JEAN - 664 Forbes Ave., Montebello, CA 90640
HAMEL, JEAN - 6451 W. 84th Place, Los Angeles, CA 90045
HARGIS, CAROL G. - 18624 N.E. August Ave., Battle Ground, WA 98604
HEINLEIN, EDITH - 833 Venetian Blvd., Lindenhurst, N.Y. 11757
HERMAN, LLOYD M. - 1801 Ocean Ave., Brooklyn, N.Y. 11230
JONES, ROBERT W. - 3520 N. Rose Circle Dr., Scottsdale, AZ 85251
LEESON, SHIRLEY - 6155 Haas, La Mesa, CA 92041
LIEBERMAN, MARCUS - 940 Fairfax St., Denver, CO 80220
LONGBRAKE, WILLIAM V. - 2565 S. University Blvd. #710, Denver, CO 80210
MASSEY, G. ROBERT - 2051 Charlemagne Ave., Long Beach, CA 90815
MEDICI, JOHN C. - 7272 Macbeth Dr., Dublin, OH 43017
METERSKY, MORTON L. - 725 Cheryl Drive, Warminster, PA 18974
MITCHELL, JOHN ROGER - 19 Eric Lane, Glen Riddle, PA 19037
MOLNAR, GEORGE - 528 Poplar Ave., Chambersburg, PA 17201
MOLSEE, EDWARD L. - P.O. Box 211, Arlington, WA 98223
MYER, JOHN H. - 304 Market St., Highspire, PA 17034
NAGEL, JOE - Dept. of Geol. Sci., 2075 Westbrook Mall, Univ. of B.C., Vancouver, B.C. V6T 1W5
O'DONNELL, RICHARD D. - 2820-C Garden Court, Steilacoom, WA 98388
PERKIN, WILLARD J. - 362 W. Cedar St., Bur ank, CA 91506
QUISTORFF, RALPH E., Jr. - 3922 55th St. Court NW, Gig Harbor, WA 98335
RADZIETA, RON G. - 5500 Holland Drive, Arvada, CO 80002
REIFEL, WILLIAM - 5549 Watcher St., Bell Gardens, CA 90201
SANDRIDGE, PAUL T. - Box 128, Biology Dept., Delaware State College, Dover, Del. 19901
SCALISI, I. PHILIP - 25 High Street, Quincy, MA 02169
SCHULER, Brother PAUL - Station Avenue, Center Valley, PA 18034
SMITH, ARTHUR T. - Rm 336 Deike Bldg., Dept. of Geology, University Park, PA 16802
SMOLEY, DONALD J. - 3401 Churchview Ave., Pittsburgh, PA 15227
SOBOLIK, ANTON A., Jr. - 2120 Pioneer Rd., Dallas, OR 97338
STEELE, NORMAN W., Jr. - 607 North 62nd St., Seattle, WA 98103
TATE, FLORENCE E. - Sharpless Rd., Rt. 2, Box 428, Hockessin, Del. 19707
TATE, NELSON H. - Sharpless Rd., Rt. 2, Box 428, Hockessin, Del. 19707
THOMAS, RALPH E. - 11 Riverdale Rd., Yardley, PA 19067
TORRES, RICHARD - 13702 Sunrise Dr., Whittier, CA 90602
TOVREA, LI A H. - 1004 Lombard Ave., Everett, WA 98201
VERBEEK, EARL R. - 63 South Devinney St., Golden, CO 80222
WARSAW, GEORGE - 3242 Fowler St., Los Angeles, CA 90063
WEISS, JONATHAN M. - 431 Lincoln Blvd., Santa Monica, CA 90402

(continued next page)

New and rejoined members (cont.)


WENRICH-VERBEEK, KAREN - U.S. Geological Survey, MS 916, Federal Center, Denver, CO 80225
WINKLER, CHARLES F. - 172 Lynbrook Dr., S., York, PA 17402
WRIGHT, FRANK E. - 1831 E. Rancho Grande Dr., Covina, CA 91724
YEOMANS, DAVID E., 13088 Cornishcrest, Whittier, CA 90605

Changes of address and corrections

Richard T. Amon - 11607 Nebraska Ave., Tampa, FL 33612
Bruce Benthin - 1980 Denell Way, Boise, ID 83705
Ronald Bentley - 1822 S. Carthage Pl., Tucson, AZ 85710
Leslie Cubit - Star Rt. 2, Box 60, Socorro, NM 87801
Paula Hansley - 34226 Gap Road, Golden, CO 80401
Sharleen K. Harvey - Route 2, Box 1010, Hillsboro, OR 97123
Saul J. Krotki - 1137 LeGray Ave., Los Angeles, CA 90042
John C. Lucking - zip code is 86507
Bob Middleton - 855 E. River Rd., Apt. 167, Tucson, AZ 85718
Kathleen Nowell - 1137 LeGray Ave., Los Angeles, CA 90042
Adolf Pabst - 1519 Oxford St., Berkeley, CA 94709
William Panczner - zip code is 85704
Junerwanda J. Papaeliou - 7116 Tokay Ave., Sacramento, CA 95828
George Sayers - 2305 15th St., Douglas, AZ 85607
Charlene and James Speed - 1725 S. Dudley Ct., Lakewood, CO 80226
Al and Betty Tlush - 1202 Perion Dr., Belen, NM 87002
David J. Zobkiw (spelling correction)

Deceased

James W. Hargis
Richard M. Pearl

 Peter J. Modreski, Secretary
8075 W. Fremont Dr.
Littleton, Colorado 80123 USA

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