



Friends of Mineralogy - Colorado Chapter
Newsletter No. 16, February 28, 1995

March Meeting: 7:30 p.m. Thursday, March 8, 1995
Denver Museum of Natural History
CLASSROOM 1 THIRD FLOOR
(enter through employee entrance on the north)

Board Meeting at 6:30 before March Meeting in the cafeteria
near the VIP room.

PROGRAM FOR THE MARCH 9 MEETING

"The Use of Fluid Inclusions in the Search for Hydrothermal Ore and Mineral Deposits"

by

Jim Reynolds

The environments of mineral deposition (with respect to both the composition and temperature of the mineralizing solutions) can be obtained from fluid inclusions. Few people understand or appreciate the potential power of fluid inclusion studies in helping to develop a complete picture of a hydrothermal mineral deposits. The methods of fluid inclusion work, however, have inherent limitations, which must be taken into account in any such study.

Jim Reynolds (who is an exploration geologist providing consulting services in the search for mineral deposits, petroleum, and geothermal resources) will explain fluid inclusions and their use in the study of mineral deposits. He will illustrate his talk with examples from both the **Sweet Home Mine, Alma District, Colorado**, and the Phillipine and Andean gold-rich porphyry systems.

SURVEY OF THE MEMBERSHIP FOR MEETING PROGRAM TOPICS

You will notice that your incredibly hard-working Program Chairman has included a list of possible program topics. This list is off the top of the head of the incredibly hard-working Program Chairman, and is meant to be a survey to show what type of topics might be of interest to the membership. Please fill out the categories indicating your degree of interest, and add any topics that you would like to see presented as programs. It is quite possible that we could create a program just for you! I'm not kidding--that really could be done. So, bring the filled out list to the next meeting, or mail it to your incredibly hard-working Program Chairman if you can't come to the next meeting. Your incredibly hard-working Program Chairman's mailing address is:

Ed Raines
721 Francis St.
Longmont, CO 80501

The **Membership Chair** raised the question of two application forms. Do members who are applying for membership in the Colorado Chapter also have to fill out an application for the national chapter? There has been a reluctance by some applicants to filling out two forms to join the local chapter. The board decided that one form containing all required information would solve the question. The membership chairman will prepare such a form for approval by National and Colorado chapters.

The "**Minerals of Colorado**" was discussed by all board members and Pete Modreski who attended the board meeting. The main topics covered were: How to keep the cost of the book down. Who or how does it get published? If the chapter is going to do it, who are the volunteers that will agree to spend 3-4 years managing the storage, accounting, shipping and order taking. 1000 books will weigh 2.5 tons and occupy 135 cubic feet assuming a book 11" x 9" x 2". What will the cost be if this is contracted for? Recent reports on the rapid increase of book paper state that love novels and other paperback books will increase \$2.00 on the retail shelves. This is a substantial increase. The DMNH has told us that the cost of printing the book has risen because of this steep paper price increase. The board discussed this for an hour and at the end most felt that it did not seem that the chapter could do any more than work with the DMNH to publish the book and negotiate hard to keep the price down. The chapter could ask about the option of acting as a distributor on a portion of the books as well as doing the prepublication sales of 250 copies.

The board decided to hold a June 1 meeting of the membership and have the membership vote on the chapter's course of action at that time. The text should be finished by then. If action is decided on at the June 1st meeting, the book could be available at the September 1996 Denver show.

The Board also discussed the May 11 auction meeting. This will be the last chance to raise money to publish the update. The president and the vice president are both unavailable for that meeting. The board decided to have the president appoint an **Auction Chair** and a committee to run the auction.

Oklahoma State Council is holding its annual **Judges & Exhibitors** seminar at OSU engineering building, south room 201, at 8 AM, March 25, 1995. The following day, Sunday is an auction of John Humphreys Rocks and Equipment. There is an estimated 10,000+ lbs of rocks from Texas, Mexico, Brazil, Oklahoma and many other localities of note. Contact the editor if you need more information.

ANNOUNCEMENT OF COURSE ON GEOLOGY OF THE FRONT RANGE

Beginning on Tuesday, April 11, Ed Raines will be teaching a 7 week class on the Geology of the Front Range through the Boulder Valley Schools. This is the 5th year for the class, and it seems to have been well received, if we can believe the comments of past attendees-- which include such famous names as Robin Wright, FM Secretary. The official course description, which is admittedly a lot of hype, reads as follows:

"Learn some basic geologic principles and history which will enable you to more fully appreciate the incredible scenery of our Front Range mountain country. We'll examine the violent origins of the Rockies and see how the area has been reshaped by oceans, glaciers, volcanoes, and the collision of continents. Additionally, we'll investigate the world famous mineral deposits of the Front Range, and discuss gold and silver mining in frontier Colorado. Three weekend field trips will be scheduled in class to examine the geologic 'lay of the land,' the footprints of long extinct organisms, and the gold and silver mining districts."

The class costs \$62 plus \$10 in materials fees for seven 2 hour classroom sessions (from 7pm to 9pm) plus 3 field trips. For further information on this class, call Ed Raines @ 477-2559 (office), or 1-303-682-2828 (home).

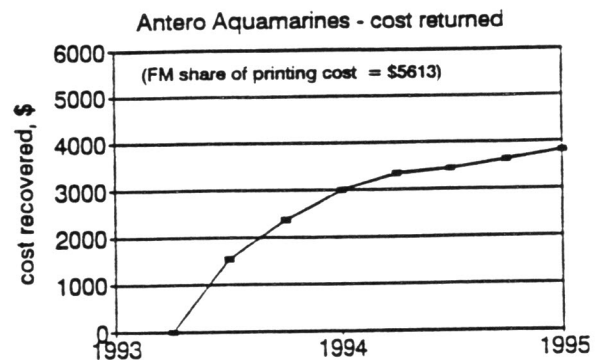
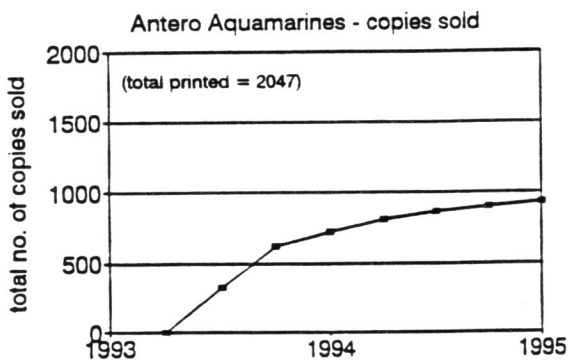
ANNOUNCEMENT FIELD TRIP TO LEADVILLE AND SLIDE LECTURE PROGRAM

And, for the third year, Ed is also planning a evening lecture / slide presentation on Leadville to be followed by an all day field trip to this famous old mining district. The trip will be by bus, as Ed has taken an interest in testing the back road driving abilities of bus drivers. This program and field trip will be scheduled sometime in July. Call Ed if you are interested in attending.

SUMMARY OF 'ANTERO AQUAMARINES' BOOK SALES, AS OF 12/31/94 Based on quarterly reports received from Lanny Ream

	<i>copies sold softcover</i>	<i>copies sold hardcover</i>	<i>total</i>	<i>FM share of receipts</i>	<i>outstanding expense</i>	<i>total copies remaining</i>
books printed	1838	209	2047	-	\$ 5612.90	2047
June 30, 1993	208	119	327	\$ 1548.92	4063.98	1720
Sep. 30, 1993	269	21	290	817.96	3246.02	1430
Dec. 31, 1993	93	11	104	628.55	2617.47	1326
Mar. 31, 1994	86	3	89	350.23	2267.24	1237
Jun. 30, 1994	49	3	52	89.75	2177.49	1185
Sep. 30, 1994	36	3	39	199.38	1978.11	1146
Dec. 31, 1994	30	3	33	195.99	1782.12	1113
total sold	771	163	934	\$ 3830.78	\$ 1782.12	1113
copies remaining	1067	46	1113			

After 7 quarters, 45.6% of the books have been sold, and FM and CSM have each recovered 68.2% of the cash they advanced to publish the book. As shown in the accompanying graphs, the rate of sales has slowed considerably. ---P.J.Modreski 2/25/95



CALL FOR PAPERS - 17th JOINT TUCSON MINERALOGICAL SYMPOSIUM FLUORESCENCE AND LUMINESCENCE OF MINERALS

The 17th Tucson mineralogical symposium, to be sponsored jointly by the Friends of Mineralogy, Fluorescent Mineral Society, Tucson Gem and Mineral Society, and the Mineralogical Society of America, will be held in conjunction with the 42nd annual Tucson Gem and Mineral Show, on *Saturday, February 10, 1996*. The theme of the symposium is *Fluorescence and Luminescence of Minerals*. Papers are invited on any mineralogic aspects of fluorescence and luminescence--description, occurrence, activators and crystal chemistry, applications, new means of stimulating or observing luminescence, etc. An audience of knowledgeable amateurs as well as professional mineralogists and gemologists is expected. The symposium theme commemorates the 25th anniversary of the founding of the Fluorescent Mineral Society, and the Tucson show will feature special exhibits and demonstrations of fluorescence and fluorescent minerals. The 1996 Tucson Show theme mineral will be *Calcite*, and the fluorescence of calcite and other minerals will be the co-theme of the show.

If you wish to submit a paper, please contact Dr. Peter J. Modreski, Symposium Chairman (U.S. Geological Survey, Mail Stop 905, Box 25046 Federal Center, Denver, CO 80225-0046; telephone 303 236-5639; fax 303 236-5603) with your topic and a brief description of your proposed paper, by *June 1, 1995*. Papers will be 15 or 20 minutes in length followed by a short period for questions and discussion. Upon acceptance of proposed topics, all authors will be required to submit a substantive 200-300 word abstract by *September 1, 1995*. Abstracts will be published in the January-February issue of the *Mineralogical Record*, subject to the approval of the editor. Authors who so desire may also submit a more detailed paper after the symposium, to be printed in a special issue of the *Journal of the Fluorescent Mineral Society*.

Friends of Dinosaur Ridge Needs Volunteers

--by Norb Cygan, FODR

With the growing popularity of Dinosaur Ridge as a unique Colorado attraction, the Friends of Dinosaur Ridge is currently seeking volunteers to help serve as guides in 1995.

Last year over 22,000 guided visitors toured Dinosaur Ridge, including 5,400 students who had their bus costs paid for by the Scientific and Cultural Facilities District.

Visitors learned new information about the rocks and fossils from 90 helpful guides, many of them members of the Greater Denver Area Gem and Mineral Council.

The Friends of Dinosaur Ridge expects an increase in attendance in 1995 because of national recognition of the educational programs at the Ridge. If you are interested in serving as a guide or other type of volunteer, please contact the FODR (697-DINO).

One day on the Ridge with a bunch of school kids, scouts, senior citizens, teachers, or any of the many interested and interesting groups that tour the Ridge can be a memorable experience. Ask any of your colleagues who have previously given their time to this program. They'll let you know that volunteering a day at the Ridge is an enjoyable and rewarding time.

Guide training sessions will be held at Dinosaur Ridge, located off West Alameda Parkway and C470 near Morrison. Sessions will be held Saturday, March 25th and April 8th from 9 a.m. to 1 p.m. Volunteers can attend either day.

For further information and/or directions to the new Ridge headquarters, call 697-DINO or 420-0059.

Spring Calendar

March 6,7,8 AIME convention, Denver Convention Center
March 9 FM meeting Classroom 1, 7:30 PM, Denver Museum of
Natural History
March 24,25,26 Gem & Mineral Show, Fort Collins
June 1 FM meeting VIP room 7:30 PM, Denver Museum of
Natural History
June 9,10,11 RMFMS Meeting and Show, Oklahoma City

President James F. Hurlbut
Home 757-0283 Work 279-7796
Secretary Robin Wright
449-0836

Board & Membership Chair
William Weller 238-9803
Board member
Edward Gray 980-0581

Vice president Raymond Berry
Home 719-598-7877
Treasurer Caroline Gray
733-1026

Board and Program Chair
Ed Raines 303-682-2828

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