



Northwest

Micro Mineral
Study Group



MICRO PROBE

FALL 1976

VOLUME III, Number 2

NOTICE OF FALL MEETING

DATE: 6 and 7 NOVEMBER 1976

PLACE: FOREST GROVE POWER and LIGHT BUILDING
1818 B Street
FOREST GROVE, OREGON

TIME: 0900 to 2200 hours (Saturday)
0800 to 1200 hours (Sunday)

PROGRAM: Informal visiting, viewing microminerals, trading

"Up-to-date on ZEOLITES" by Rudy Tschernich

Business meeting and election of officers

Catered meal followed by viewing colored slides of
Wildlife by John Cowles

Stereo Colored Slides of Microminerals by Norman
Steele

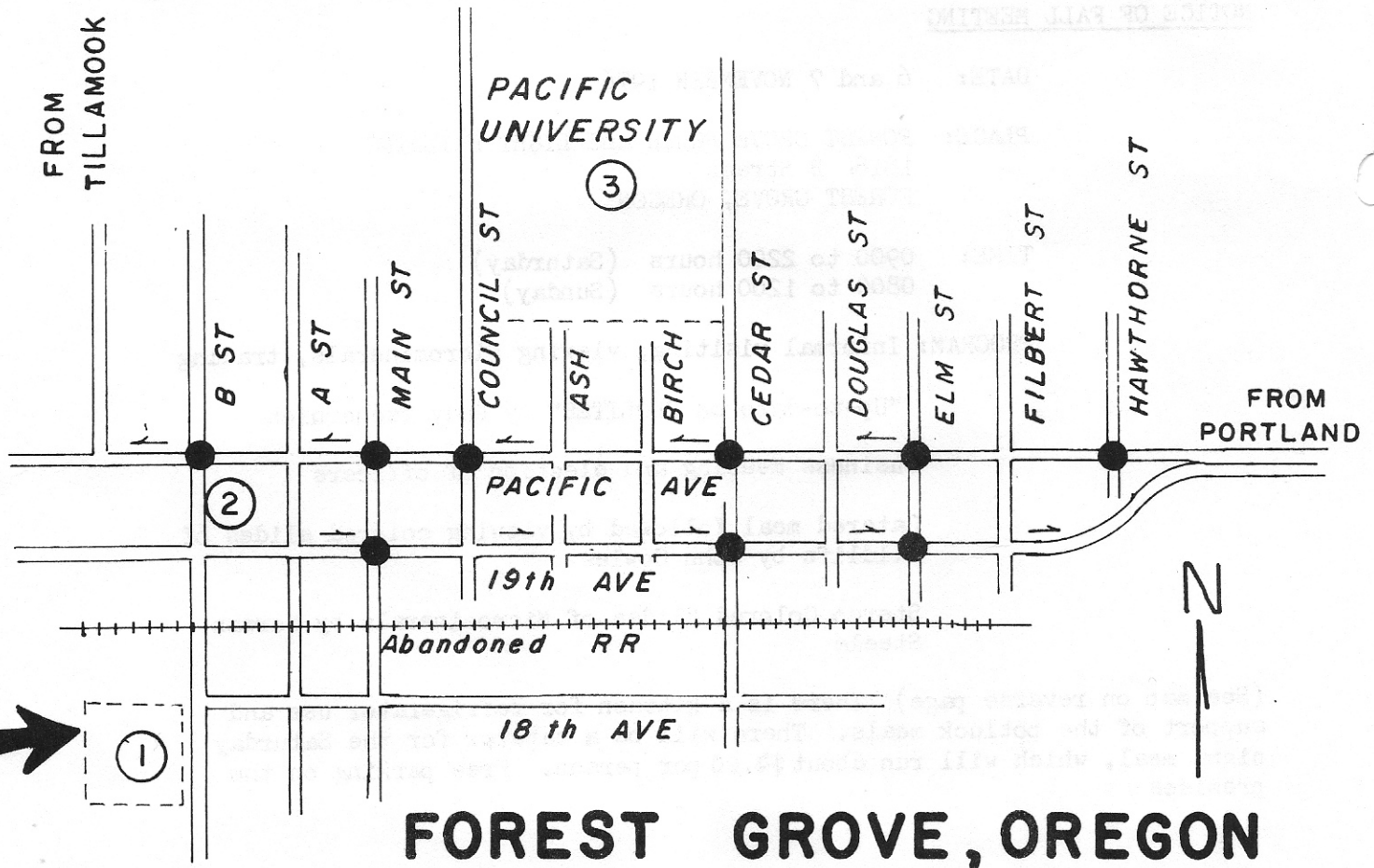
(See map on reverse page) There is a kitchen for refrigerator use and support of the potluck meals. There will be a caterer for the Saturday night meal, which will run about \$4.00 per person. Free parking on the premises

PHOTO CREDITS

All photomicrographs in this issue are are copies of the Scanning Electron Microscope (SEM) pictures from William S Wise (Department of Geological Sciences, University of California, Santa Barbara, California). Magnification obtainable with the SEM is much greater than our binocular light microscopes and the sharp focus is also remarkable, however color is not possible. In the SPRING 1977 issue of MICRO-PROBE we will have more of these black and white pictures as well as some of our own color photographs.

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- ① Meeting location FOREST GROVE POWER & LIGHT COMPANY 1818 B Street
- ② Landmark a large REDWOOD TREE
- ③ Campus of PACIFIC UNIVERSITY



FOREST GROVE, OREGON

UP-DATE "1975 GLOSSARY OF MINERAL SPECIES by Michael Fleischer"

If you have a copy of this GLOSSARY, be certain to beg, borrow, or steal for a short while a copy of the March-April 1976 (vol. 7, No. 2) MINERALOGICAL RECORD so that you can up-date your copy. On pages 91, 92, 93, 94, and 95 of this issue of MINERALOGICAL RECORD is a list of additions and corrections to the 1975 GLOSSARY.

However, there is one "correction" that is in error. This appears as

"page 45 Gonyerite, delete Chlorite Group"

Just how this error crept into the list is not known; but the author, Michael Fleischer, has written a letter requesting that this listing be disregarded. The reason to do so will be readily appreciated by noting the "addition" to be made on page 137

"Chlorite Group. Add Gonyerite"

.....contributed by George Shokal

IDENTIFYING NON-ZEOLITES

Despite our recent experience of needing to relabel many of our zeolites, we have felt comfortable in collecting and trying to identify them. Some we know quite well. Questionable ones become all the more interesting as we follow the reports from Rudy T and others of research on zeolites. Having collected zeolites for about twelve years, what we have learned about them has come slowly and by short steps.

However, when visiting collecting locations in Arizona and Utah, we found we were once again as mystified by our new crystals as we were during our first days of collecting at Goble (Oregon). This spring Minnie and I spent sometime at Gold Hill, Utah....where arsenic minerals are abundant. Our attempts to identify crystals from this location have been quite frustrating, but also rewarding. A micromounter from California who collected there with us helped us to get started. He told us that the light to dark green botryoidal masses which we began to find were CONICHALCITE a copper arsenate. Later when we found "balls" of green material resembling conichalcite, but with tiny crystal terminations over them we felt sure they were something else. That evening our friend Les, Minnie, and I went through our Encyclopedia of Minerals and found a picture of crystals exactly like that we were finding labelled CUPRIAN AUSTINITE from Gold Hill, Utah. Other pictures of austinite on and with conichalcite led us to search for sutinite among our specimens, and before we left, our search was successful. In the meantime we began to find beautiful olive green prismatic crystals. Les again came to our aid and told us we had found OLIVENITE. He warned us not to call it olivine which is quite different. Our Fleischer Glossary now told us that olivenite forms a series with adamite. We found a picture of adamite in our encyclopedia

and all agreed that a group of crystals collected by Les that afternoon were certainly adamite.

We found many other crystals which none of us could even guess at with any confidence. One pocket for example produced translucent red "rosettes" which stumped all of us completely. Someone volunteered that they were hematite, but we doubted that. After a number of other tentative identifications by micromounter friends, Bob Smith told us they were probably descloisite. In one ledge we found pockets of beautiful green "bushes" that I first thought were rosasite, but they do not really look like the rosasite I have seen. And one rare and beautiful blue bladed crystal we are calling LAVENDULAN, until someone can tell us it is something else.

We have one comforting thought. We suspect that once we get the correct identification on these copper / arsenic minerals it is not likely that Rudy T and Dr Wise will discover they are really something else. They are too busy studying ZEOLITES.

....contributed by Gordon Gilbertson

ZEOLITE INFORMATION UP-DATE

See page 5 and 6 of this issue. To save retyping we are reproducing Rudy Tschernich's contribution in its entirety as submitted.

FIELD TRIP REPORTS

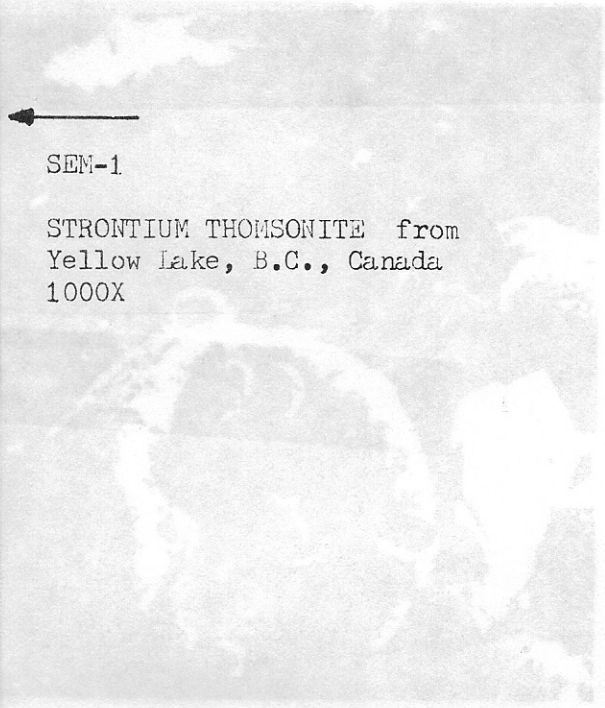
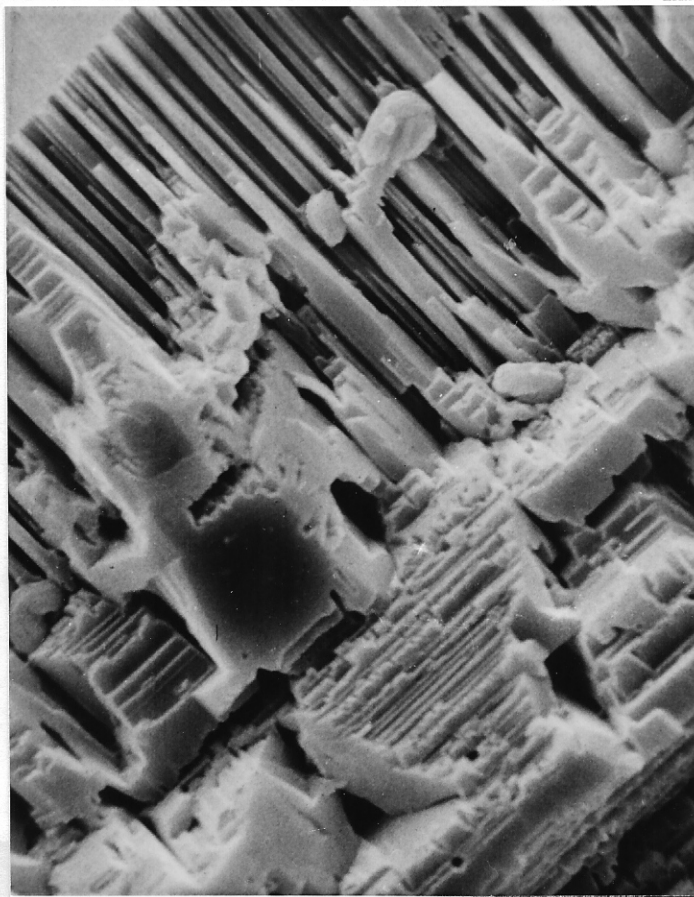
None sent in. However, the Capitol Forest trip that I was able to go on after the Spring meeting was highly successful, especially for the small levyne crystals.

MEMBERSHIP PERSONALS

Don Kendall is the newly elected President of Northwest Federation of Mineralogical Societies.

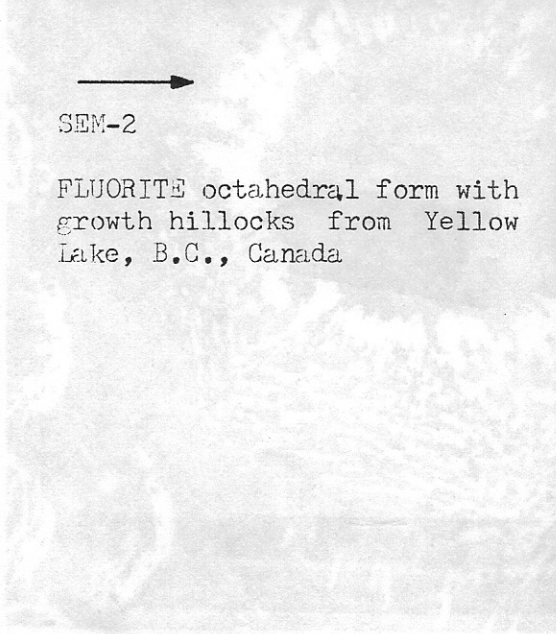
Caroline McGanty did very well with her minerals at the Coos Bay NFMS Show. She took the Sweepstakes Trophy as well as top awards in her class.

George Williams got rave notices on his case showing models of crystal forms. And other members of the Williams family packed a lot of "hardware" away from the Coos Bay NFMS show also.



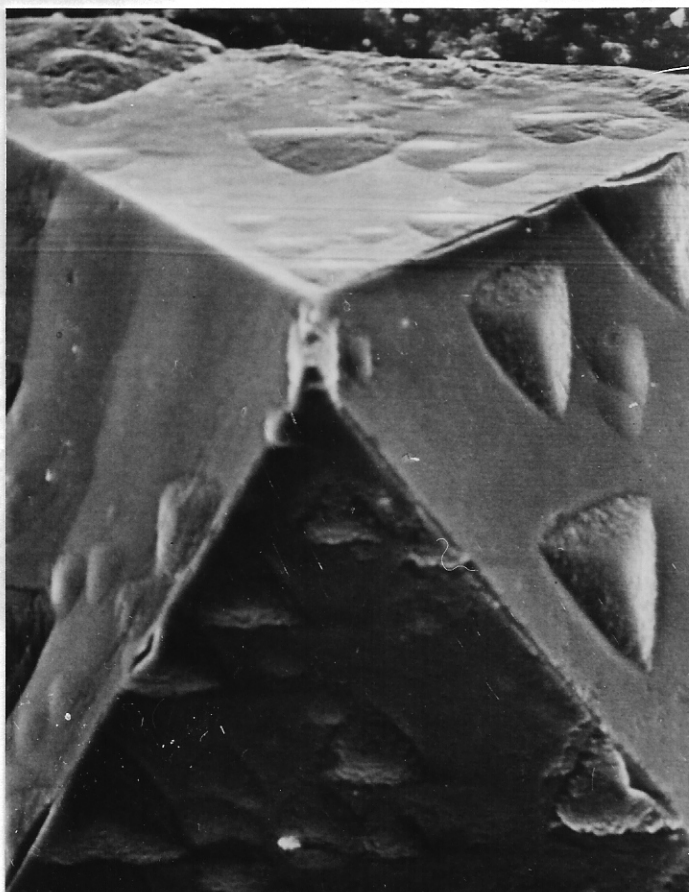
SEM-1

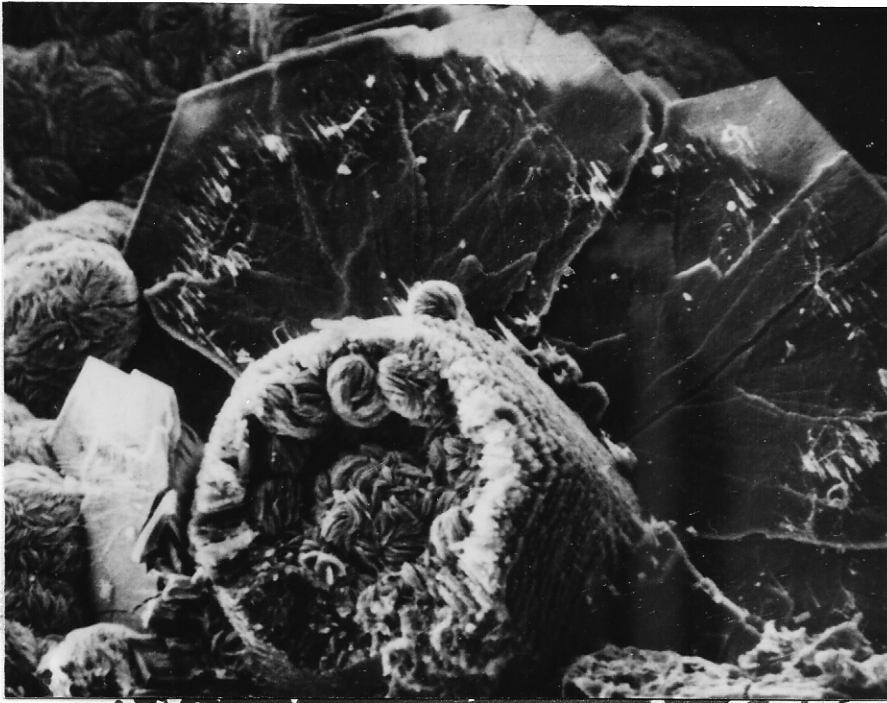
STRONTIUM THOMSONITE from
Yellow Lake, B.C., Canada
1000X



SEM-2

FLUORITE octahedral form with
growth hillocks from Yellow
Lake, B.C., Canada





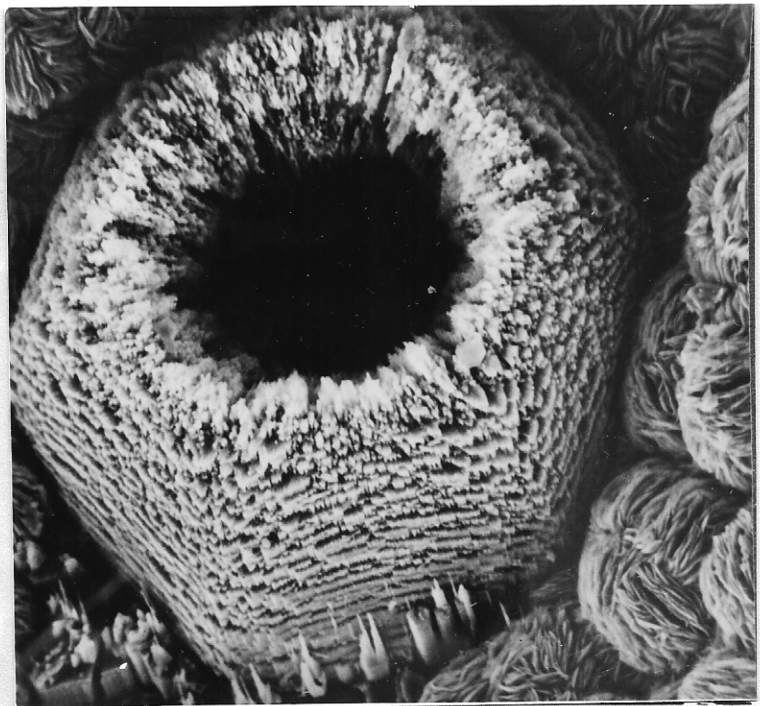
SEM-3

LEVYNE - ERIONITE - OFFRETITE
hub form from Milwaukie,
Oregon (Multnomah County)
100X



SEM-4

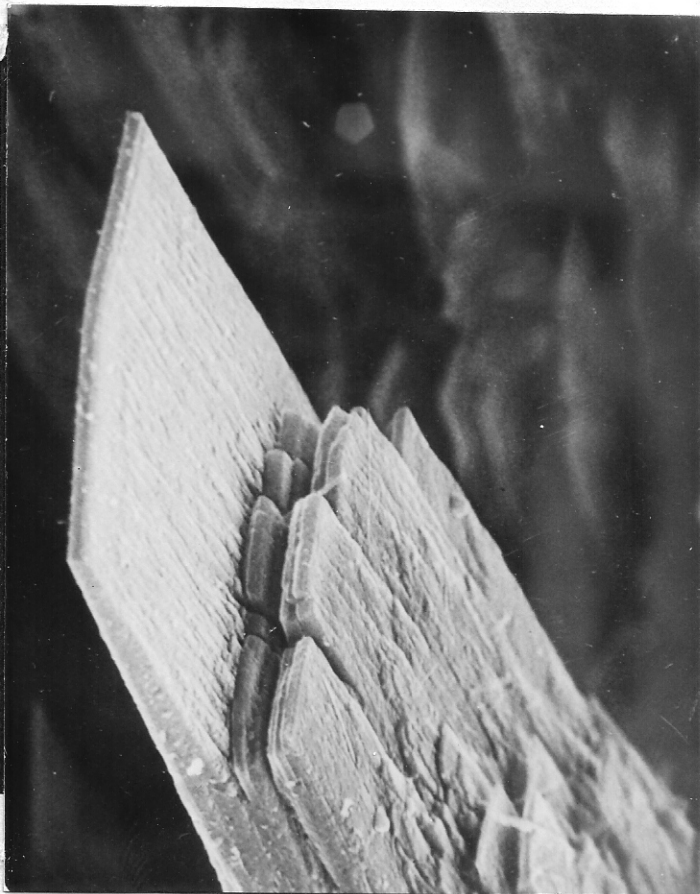
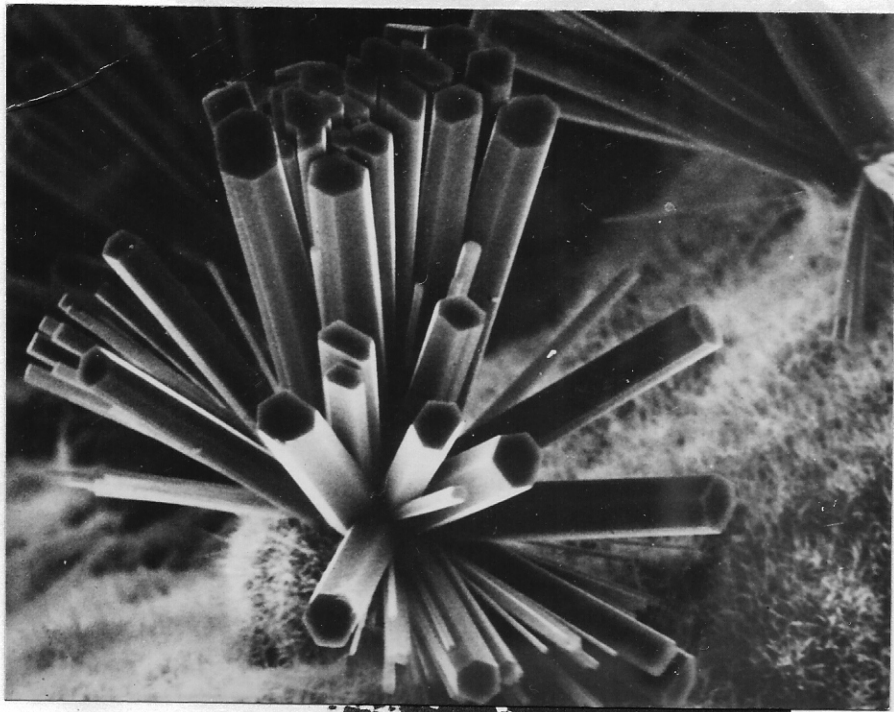
OFFRETITE - ERIONITE
showing hub form from Milwaukie,
Oregon (Multnomah County)
250X





SEM-5

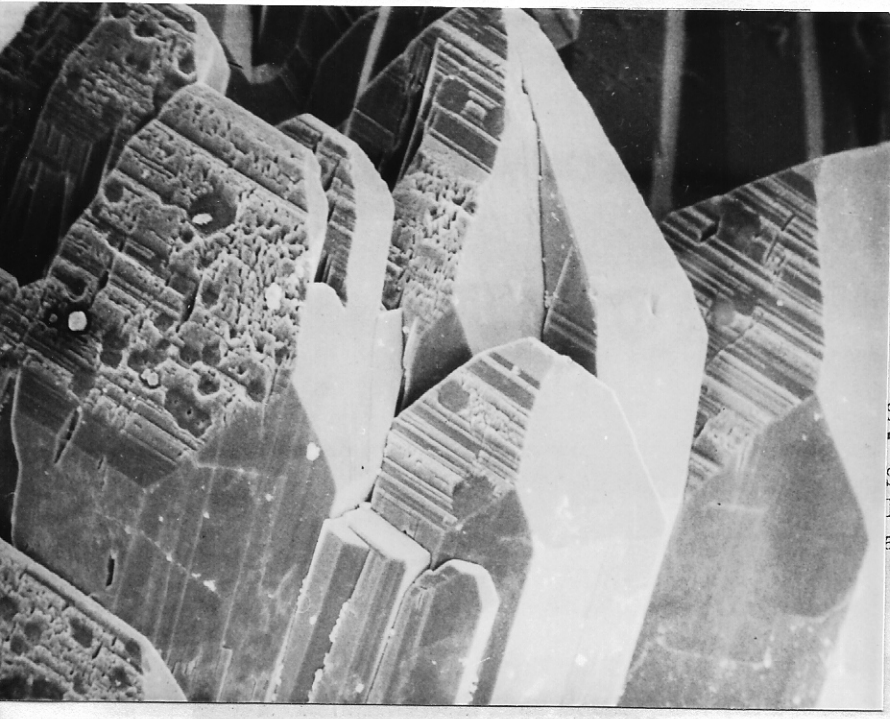
OFFRETITE - ERIONITE showing multiple zoning. From Malpais Hill, Pinal County, Arizona 275X



SEM-6

DACHIARDITE from Altoona, Washington (Wahkiakum County) 1600X

STROMTOLITE from Yellow Lake, B.C., Canada about 120X



SEM-7

STRONTIUM THOMSONITE from Yellow
Lake, B.C., Canada
about 85X

SEM-8



STRONTIUM THOMSONITE from Yellow
Lake, B.C., Canada
about 120X