



MONTHLY PUBLICATION OF THE CENTRAL DAKOTA GEM & MINERAL SOCIETY
P.O. Box 2445, Bismarck, ND 58502-2445

SERVING BISMARCK, MANDAN, AND SURROUNDING AREAS IN
NORTH DAKOTA

Gen & Bill Buresh, Eds.
DIGGIN'S FROM DAKOTA
44 Captain Marsh Dr.
Mandan, ND 58554-4704

Volume 30, No. 10
October, 1995

FIRST CLASS

SAVE STAMPS FOR

SAVE STAMP FOR

STAMP CHAIRMAN

STAMP CHAIRMAN

RMFMS - 2nd PLACE, SMALL BULLETINS, 1992
RMFMS - 2nd PLACE, SMALL BULLETINS, 1987
AFMS -- 2nd PLACE, SMALL BULLETINS, 1985
RMFMS - 4th PLACE, SMALL BULLETINS, 1985
RMFMS - 2nd PLACE, SMALL BULLETINS, 1981



DIGGIN'S FROM DAKOTA

Published by the CENTRAL DAKOTA GEM & MINERAL SOCIETY
P.O. BOX 2445, BISMARCK, ND 58502

Member of

ROCKY MOUNTAIN FEDERATION OF MINERALOGICAL SOCIETIES and
AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES



Organized March 1966

- OBJECT: 1. To further the study of mineralogy and geology;
2. To arrange field trips to collect minerals, gems, and fossils;
3. To assist its members to improve in the art of cutting, polishing, and mounting gem material;
4. To provide opportunities for the exchange, purchase, and exhibition of specimens and materials; and
5. To share knowledge about gems, minerals, and activities of the Society with the general public. --Article II, CDGMS Constitution

MEETINGS: First Sunday of each month at Masonic Bldg., 1810 Schafer Street, Bismarck, ND:
2:00 p.m., November through March; 7:00 p.m. April-October.

EARLY CLASS: One-half hour before each meeting. VISITORS ARE WELCOME.

ANNUAL DUES: Family - \$10.00; Individual Adult - \$8.00; Individual Jr. - \$4.00

1995 OFFICERS

PRESIDENT - RAY OLIGER, 516 N. 20th St., Bismarck, ND 58501 - - - - - 223-4986
VICE PRES. - BETTY MAUTZ, Rt. 1, Box 368, Garrison, ND 58540 - - - - - 337-5775
SEC'Y. - DOUG HANSON, 407 Easy Street, Bismarck, ND 58504 - - - - - 223-3945
TREASURER - NEILL C. BURNETT, 1002 Arthur Dr., Bismarck, ND 58501 - - - - - 223-6758

COMMITTEE CHAIRMEN

PROGRAM: Betty Mautz - - - - 337-5775
Ray Oliger - - - - 223-4986
HOSP.--LUNCH: Carol Hickle - 794-3342
Emma Brady 663-3903 or - 663-3904
HOSP.--CARDS: Gen Buresh - - 663-5397
FIELD TRIP: Norman Mautz - - 337-5775
John Campbell - 223-6754
EDITORS: Gen/Bill Buresh - - 663-5397
FEDERATION REP.: Ray Oliger - 223-4986
ANNUAL SHOW 1995: Rodney Hickle 794-3342, Ray Oliger 223-4986, Harold Brady 663-3903
RMFMS-STATE DIRECTOR FOR ND: Betty Mautz, Rt. 1 Box 368, Garrison ND 58540 337-5775

EARLY CLASS: John Atwood - - - 222-0389
Harold Brady -663-3903 or - 663-3904
GREETER: Betty Mautz - - - - 337-5775
LIBRARIAN/HISTORIAN: Sue Randall-223-1625
PARLIAMENTARIAN:
PUBLICITY: Edna Mausehund - - - 782-4291
STAMP CHR.: Doris Hickle - - - 794-3173
DOOR COUNT: Betty Mautz - - - 337-5775

All members are encouraged to submit articles/news items for publication.
Material for the bulletin should reach the editor by the 10th of each month.
Advertisements from members will be accepted for the bulletin. (\$2.00 for 1/8 page)
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Central Dakota Gem & Mineral Society's
21st Annual
GEM & MINERAL SHOW
COMMUNITY CENTER -- MANDAN, ND
Sept. 28-29, 1996
Chr.: Rodney Hickle, HC2, Box 191, Center, ND 58530
Telephone--701-794-3342

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Vol. 30, No.10

October, 1995

NEXT MEETING--NOV. 5, 1995, Masonic Center,
1810 Schafer., Bismarck, ND
EARLY CLASS--1:30 p.m. [Winter schedule]
MEETING--2:00 p.m. " " "
PROGRAM-- "Soapstone," by Robb Morris
LUNCH COMMITTEE: Betty Mautz, Sandi & Robb
Morris



PRESIDENT'S MESSAGE

Our annual show is over for another year and from the looks of things we had a very successful one. Thank you to everyone.

Our program on October 1st was a video program, "Gemstones of America." It included descriptions of five or six mines around the United States, with photos of both locations and processes. Watching it made one want to go out and dig in the dirt before the snow flies.

I hope to see you all at the Nov. 5 meeting. Don't forget--meetings will be in the afternoon now--from November through March.

Ray Olinger

CALENDAR OF EVENTS

- Oct 14-15 TOPEKA, KS--39th Annual Show--Topeka Gem & Mineral Soc. Inc.
Oct 21 BISMARCK, ND--ND Paleontological Soc. Meeting, 7:30 p.m., Capital Electric Bldg., Highway 83 N of Bismarck. Visitors welcome.
Oct 21 STILLWATER, MN --17th Annual Show. St. Croix Rockhound Club, St. Croix Mall
Oct 21-22 GRAND ISLAND, NB--21st Annual Show. Fenner Racetrack Road.
Oct 21-22 ROSEVILLE, MN--Show, Anoka County Gem & Mineral Club. Har Mar Mall
Nov 3-5 TUCSON, AZ--23rd Annual Rock, Gem & Jewelry Show. "Southwestern Roundup & Lapidary Weekend," Old Pueblo Lapidary Club
Nov 5 BISMARCK, ND--Central Dakota Gem & Mineral Soc. EARLY CLASS: 1:30 p.m., MEETING 2:00 p.m. Masonic Center, 1810 Schafer St. Visitors welcome.
Dec 8-10 NASHVILLE, TN--SOUTHEAST FEDERATION, Nashville Fairgrounds

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MANDAN, ND--22nd ANNUAL SHOW
Central Dakota Gem & Mineral Soc.
SEPTEMBER 28-29, 1996



IN MEMORIAM

Verl Mausehund, 82, Linton, died Sept. 26, 1995 in the Linton Hospital. Services were held on Sept. 30 at the United Methodist Church in Linton.

Verl was born Sept. 27, 1912 on a farm near Hartford, ND. He attended rural school and on Dec. 1, 1937 married Edna Benedict at Hazelton. They farmed with his parents on a farm northwest of Linton in Horsehead Valley.

Verl was an active member of his community and a member of a number of civic and farm organizations, including the Emmons Co. Historical Society. He also served on the board of directors of the Hazelton Credit Union as well as the Hampton School Board.

Verl joined the Central Dakota Gem and Mineral Society with his wife Edna in 1976. They were active members, seldom missing a meeting even in the winter months, and were active workers before and during the annual shows. Verl had a collection of arrowheads and cut and polished rocks and had an exhibit again this year.

Verl is survived by his wife, Edna; one son and daughter-in-law, Dale and Jeanette, Bowman; three daughters and two sons-in-law, June White, Bremerhaven, Germany, Carol and Roy Michaelis, Rollingstone, Minn., and Patricia and James Borgreen, Lewistown, Mont.; nine grandchildren; and one sister, Hazel Aikens, Redwood City, CA.

Verl will also be greatly missed by members of the Central Dakota Gem & Mineral Society, who extend their sympathy to Edna and the other survivors.

SAW BLADES

With thin saw blades (0.016 and 0.012), excessive pressure is especially disastrous. The thin blades are designed for delicate cutting with minimal loss of rough. Using the thin blades means taking it easy. LET THE SAW DETERMINE THE RATE OF CUT.

Over-pushing will result in a warped blade and undesirable marks on ruined rough. Since those who have a saw generally use it for all cutting (from opal to corundum to agate), take it easy and consider using a thicker blade for less valuable, tougher and less sensitive material.

The thin blades work wonder and last a long time when used properly. Too much pressure will cause problems in larger blades, also, but thin blades will take very little pressure in comparison. From several bulletins via THE AMMONITE 6/95

SITE SELECTION FOR DECEMBER MEETING

President Ray Oliger has reported that some members have suggested that the annual Dec. dinner and meeting be held at a restaurant this year rather than having a potluck. So put on your thinking caps and be prepared to vote on this choice at the November meeting. (GB) □

HINT If you are doing silver work and want a soft finish, use pumice. If you have no pumice, use toothpaste. Pumice is the polishing agent in toothpaste. If it is fluoride toothpaste, it can also be used for cleaning crystals.

HINT To clean fragile crystals or hard to reach recesses in mineral specimens, try Crew, a product of Johnson's wax. Spray this foam on the rock, let it set a minute, then rinse with water. It is safe on all materials, including calcite and fluorite. --Both hints from ROAMIN' RAMS 5/94 via DEMING ROCK CHIPS 9/95 □

FROM THE MEETING ON OCTOBER 1, 1995

The regular meeting of the Central Dakota Gem and Mineral Society was held on October 1, 1995 at the meeting room at the Masonic Center in Bismarck. President Ray Oliger presided. There were 21 adults and one junior present at the meeting.

The next meeting will be held on November 5 at 1:30 p.m. for the early class and 2:00 p.m. for the meeting.

The minutes from the September meeting were approved as read. No financial report was given as Neill Burnett, Treasurer, had to attend a funeral.

The Nominating Committee reported the following nominees: President--Betty Mautz; Vice President --Russ Oliger; Secretary--Robb Morris (until he has to move). Elections will be held at the December meeting.

Librarian Sue Randall mentioned that the library is available and interested people should check out books.

Show Chairman Rodney Hickle reported that the show went well ad he thanked everyone who helped make it a success. A more detailed report will follow when all the bills have been turned in.

Communicatons: Pictures from the show and from the field trip to the Cannonball River for fossil pine cones were available for members to view.

Door prizes: Adult--A cross pendant won by Sue Randall; Junior prize won by Broadus Jeffcoat-Sacco.

The meeting adjourned and a video titled Gemstones of America with Efrem Zimbalist, Jr. as commentator was presented.

Lunch consisted of cookies left from the show cookie bar and sandwiches furnished by Ray Oliger.

From Secretary Doug Hanson, who also provided the graphic below:



EXECUTIVE BOARD SELECTS 1996 SHOW DATES

President Ray Oliger reports that at their meeting during this year's show, the Executive Board voted to have a snow next year on September 28-29, 1996.

The 1995 Show Committee was reappointed, with Rod Hickle as Chairman and Harold Brady and Ray Oliger as Co-Chairmen. Other details will be announced later.

RHYOLITE

by Peter J. Modreski

Rhyolite is a type of rock, not a mineral species. It is not normally considered to be a gemstone; the AFMS Approved List of Lapidary Material Names (3rd ed., 1970) classes rhyolite as an ornamental stone. Rhyolite is a volcanic igneous rock characterized by a chemical composition high in silicon dioxide (around 70% by weight) and also containing appreciable amounts of aluminum, potassium, and sodium. Rhyolite is the volcanic ("extrusive") equivalent of granite. Obsidian, perlite, tuff, and pumice are some of the textural varieties of rhyolite; rhyolite may also simply appear as a light-colored, fine-grained rock. Being a rock, rhyolite is composed of a mixture of minerals. A fresh, unaltered rhyolite will normally consist of volcanic glass with or without varying proportions of one or more minerals, particularly quartz, sanidine, anorthoclase, plagioclase, biotite, hornblende, pyroxene, or magnetite. A true rhyolite is unlikely to be a suitable cutting material. It is too soft (the volcanic glass has a hardness of around 5.5) and the inhomogeneous mixture of crystals in a glassy matrix would make for uneven polishing. An extreme example is rhyolite pumice, which would be impossible to polish because of its numerous gas bubbles ("vesicles"). One exception would be rhyolite obsidian, which can be polished because of its uniform glassy texture.

Rhyolite may be altered in various ways by solutions percolating through the rock. It may be converted to a mixture of soft clay-like minerals, obviously unsuitable for polishing. On the other hand, it may be silicified by the deposition of silica (quartz) from the solutions, just as most petrified wood has been silicified. Such a silicified rhyolite could have a banding that is either a remnant of original layering in the rhyolite, or that has been produced by silicifying solutions. Silicified rhyolite would be hard enough to make good cutting material.

Jasper is a variety of cryptocrystalline quartz (quartz composed of crystalline grains too small to be recognized without a microscope). Jasper is generally opaque (colored usually by iron oxides) and composed of irregularly arranged (granular) quartz crystals, as opposed to chalcedony and agate, which are also cryptocrystalline quartz but are translucent and have a fibrous arrangement of the quartz crystals. If a rhyolite were to become completely silicified, it might be indistinguishable from jasper. One criterion would be that jasper usually occurs as veins or patches in rock, where solutions have entered, while rhyolite forms entire masses of rock. --From DEMING ROCK CHIPS, 9/95, Marianne DeMott, editor □

HINTS EPOXY GLUE may be dissolved by soaking it over night in dark household vinegar.

TRUE JADE will cause the water to take on a milky appearance as you work the jade. If the water is not milky, you do not have true jade. --From GEMS OF THE ROGUE 4/94 via DEMING ROCK CHIPS 9/95

1995 SHOW--COMMENTS, AWARDS, AND PROGRAMS

by Bill Buresh

Judging from compliments of viewers and observations of club members, the 21st annual show of the Central Dakota Gem & Mineral Society has been successful. Traffic by viewers was heavy, beginning Saturday morning, and sales by dealers were reported as good.

Show Chairman Rodney Hickie reported at the last Society meeting on October 1 that the final financial report cannot be prepared until all the bills have been received and processed.

There were thirty-four exhibits at the show, including the four on the "Previous Winners' Table" that were not eligible for competition this year. Listed below are the ribbons awarded, based on the judges' decisions, as reported by Bob Randall, 1995 Exhibit Chairman. Blue ribbons were awarded for first in each category, red for second, and white for third place.

<u>Educational</u>	Blue #08	Bob Randall	Isometric Crystal System
<u>Fossils</u>	Blue #19	Bill Buresh	Ginkgo Display
	Red #14	Johnathan Campbell	Fossils Collected in ND with Photos
	White #12	Ray Oliger	Fossils Collected in ND and Wyoming
<u>Lapidary</u>	Blue #07	Michael Brady	Faceted Gems (Large)
	Red #05	Bill Buresh	Cabs, Jewelry, Figures in rocks
<u>Minerals</u>	Blue #16	Harold Brady	Museum Size Specimens
	Red #02	Earle Campbell	Fluorite
	White #06	Bill Buresh	Mylonite
<u>Open</u>	Blue #17	Walter Weisenburger	Assortment--Cabs and rough material
	Red #18	Alice Burnett	"Purty Rocks"
	White #25	Ray Oliger	Shark teeth and ray teeth

Other exhibits included those of Melvin Berg, Doug Hanson (2), Carol Hickie, Rodney Hickie, Russell Oliger, Duane Siegel, Verl Mausehund, and the ND Paleontological Society. Exhibits on the "Past Winners' Table" not eligible for judging this year were "Copper Minerals," Norman and Betty Mautz; "Thumbnail Minerals," Bob Randall; "Gems of the Prairies" and "Fluorapatite," Bill Buresh (2). Dealer cases were mounted by Big Sky Agates, Blue Gem Agates, L&R Lapidary, and Rolene Rock Shop. Pres. Ray Oliger had a total of four cases and Bill Buresh had five.

Judges this year were Lunette Sando and Kelly Carlson, both of Bismarck.

Two programs were presented both days of the show--"Rainbows in the Dark," by Bob Randall and Ray Oliger; and "Teredo-Bored Petrified Wood, ND State Fossil," by Harold Brady.

Visitors from many states attended the show. It is always nice to welcome visitors from other states, and it is especially nice to see club members from out of state, such as the Doug Rhonemus family from Elk River, Minn. Doug was busy helping wherever he could, as well as other faithful out-of-town members, including Rodney and Carol Hickie, Center; Norman and Betty Mautz, Garrison; Ted and Verna Giese, New Salem; Jim Nevland, Carrington; Verl and Edna Mausehund, Linton; Elma Rambough, Valley City; Clara Muggli, Glen Ullin; Richard Hoerner, Almont; Melvin Berg, Underwood; and Walter Bosley, Rugby. Nor do we want to overlook all the local members! □

FEDERATIONS

In order to help members, clubs, and state clubs or societies keep track of what is going on in the rest of the rock world, clubs interested in various phases of "rock-hounding" banded together years ago to improve communication with one another.

There are now clubs in almost every state, seven regional federations (including the new Southeast Federation which is in its first year), and one national Federation. Each regional federation sponsors an annual show and tries to keep its members informed about the many phases of "rockhounding" by publishing a newsletter for its member clubs. The American Federation of Mineral Societies is national in scope. It keeps members informed of legislation which might affect the hobby, has an annual convention and show in conjunction with a different regional show each year, sets up standards and judging criteria for shows and bulletins, sponsors scholarships for worthy graduate students, and publishes a bulletin for all clubs.

Membership in federations is optional, but most clubs find it advantageous to belong to a regional federation. Each club which belongs to a regional federation automatically belongs to the American Fed.

A 1995 report of the Rocky Mountain Federation of Mineralogical Societies, to which our club belongs, is printed below. The RMFMS includes North Dakota and the ten other states listed in the report. GB □

STATUS OF RMFMS CLUBS & CLUB COUNT -1995

Number of clubs, 1994	82
Number of clubs, 1995	81
Number of members, 1994	6,028
Number of members, 1995	6,367
Total 1995 Vs 1994: +339 members, - 1 club	

Membership & club numbers by states

ARIZONA: 1212 members; 14 clubs
 ARKANSAS: 35 members; 1 club (under OK St. Dir.)
 COLORADO: 1490 members; 20 clubs
 KANSAS: 521 members; 9 clubs
 NEW MEXICO: 801 members; 9 clubs
 NORTH DAKOTA: 130 members; 2 clubs
 OKLAHOMA: 923 members; 10 clubs
 SOUTH DAKOTA: 142 members; 2 clubs
 TEXAS: 162 members; 1 club (under NM St. Dir.)
 UTAH: 713 members; 7 clubs
 WYOMING: 238 members; 6 clubs

TOTAL: 6267 members; 81 clubs

--Keith Price, Treasurer

--From ROCKY MOUNTAIN FEDERATION NEWS, 9/95

NOVEMBER BIRTHSTONE: Topaz/CitrineNOVEMBER FLOWER: ChrysanthemumHAPPY BIRTHDAY TO:

Nov 8	Rodney Hickie	28	Walter Weisenburger
9	Gordon Bell	29	Tim Wanner
22	Marlene White	30	Sue [Tella] Randall
26	Neill Burnett		

HAPPY ANIVERSARY TO:

Nov. 29 Jim and Orma Swanick

NEW MEMBERS FOR 1996

Johnson, Harland/Roxanne + Kay & Leigh, Rt 1 Box 58,
 Reeder, ND 58649

Larson, Gene L., 1044 - 16th St. N, Fargo, ND 58102

Manske, Lee 660 - 4th Ave E, Dickinson, ND 58601

Robinson, Kate 118 Maryland, Bismarck, ND 58501

Tele: 258-5374

Siegel, Duane 100 - 3rd St SW, C-65, Mandan ND

58554 663-0662

Wanner, Tim G/Gloria + Deanna, Matt, Kyle & Allison,

805 - 13th Ave NW, Mandan, ND 58554 663-8835

RMFMS SUPPLIESSupplies list, available from Supplies Chairman

(all prices are plus postage)

AFMS LAPEL BUTTON		\$1.00
RMFMS LAPEL BUTTON		1.00
	<u>Revision year</u>	
Approved list of FOSSILS	1995	2.00
Approved list of LAPIDARY NAMES	1-91	2.00
Approved list of MINERAL NAMES	2-89	2.00
AFMS Guidelines for EXHIBITORS	1980	2.00
AFMS Guidelines for JUDGES	1985	2.00
AFMS Guidelines for		
BULLETIN EDITORS	1973	2.00
AFMS SAFETY MANUALS	1978	2.00
AFMS UNIFORM RULES (Complete)	1995	5.00
AFMS UNIFORM RULES (update)	1995	1.50
RMFMS DIRECTORY	1995	3.50

ON HAND: RMFMS By-Laws (amended 1992) and OPERATING PROCEDURES (amended 1994) and available FREE (Plus Postage) to RMFMS member clubs. Each RMFMS Club should own one. New revisions may be added as required and available.

Make check payable to RMFMS Treasurer, and mail to:

RMFMS Supplies Chairperson
 Pearl Burden
 3897 SW Indianola Rd.
 Benton, KS 67017-9084
 Ph. 1-316-778-1485

(Shipments made according to quantities available.)

--From ROCKY MOUNTAIN FEDERATION NEWS, 9/95