

DIGGIN'S FROM DAKOTA



MONTHLY PUBLICATION OF THE CENTRAL DAKOTA GEM & MINERAL SOCIETY

P.O. Box 2445, Bismarck, ND 58502

SERVING BISMARCK, MANDAN, AND SURROUNDING AREAS IN

NORTH DAKOTA

Gen Buresh, Editor
DIGGIN'S FROM DAKOTA
44 Captain Marsh Drive
Mandan, ND 58554

FIRST CLASS

DIGGIN' S FROM DAKOTA



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

Member,

Rocky Mountain Federation of Mineralogical Societies
and

American Federation of Mineralogical Societies



- 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 in the Hospitality Room, Capital Electric Building on Highway 83, north of Bismarck; 7:30 p.m. from April through October and 2:30 p.m., November - March. VISITORS ARE ALWAYS WELCOME.

ANNUAL DUES: Family - \$8.00; Individual Adult - \$6.00; Individual Junior - \$3.00

OFFICERS AND COMMITTEE CHAIRMEN, 1981:

President	Mary Beth Osborn	310 - 12th Ave. NW	Mandan	663-1056
Vice President	William A. Buresh	44 Capt. Marsh Dr.	Mandan	663-5397
Secretary	Jane Lanz	600 - 13th St. NW	Mandan	663-8621
Treasurer	Ronald P. Wandler	336 Shady Lane	Bismarck	255-4947
	Program Chr. Earle Campbell	1134 N. 28th St.	Bismarck	255-3658
	Hospitality (Lunch) Chr. Leota Jensen	1400 - 5th Ave. NW	Mandan	663-8217
Clip stamp on reverse side)	Field Trip Chr. Merle Lanz	600 - 13th St. NW	Mandan	663-8621
	Annual Show Chr. Don Campbell	1119 Memorial, #17	Bismarck	258-1194
	OTHER APPOINTMENTS, 1981:			
	Bulletin Editor Gen Buresh	44 Capt. Marsh Dr.	Mandan	663-5397
	Early Class Harold Brady	1401 Sunny Road	Mandan	663-3904
	Federation Rep. Bill Buresh	44 Capt. Marsh Dr.	Mandan	663-5397
	Greeter Mel Anderson	1521 LaForest Ave.	Bismarck	223-3558
	Librarian-Hist. Glenn Michaels	1700 N. 4th St.	Bismarck	258-8417
	Parliamentarian Al Hartl	1111 North 1st St.	Bismarck	258-0761
	Publicity Leota Jensen	1400 - 5th Ave. NW	Mandan	663-8217

All members are encouraged to submit articles/news for publication during the year. Advertisements from members will also be accepted for the bulletin. Material for the bulletin should reach the editor by the 10th of each month. Permission is given to reprint any article if proper credit is given.



North Dakota's Annual GEM AND MINERAL SHOW Mandan Community Center

SEPT. 25 - 26, 1981

NEXT MEETING: March 1, 1981, 2:30 p.m. (Discussion Class, 1:30 p.m.)

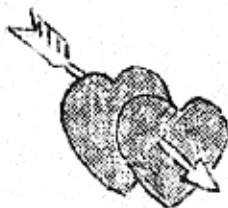
PROGRAM: Silent Auction -- All Members

(Bring rough rocks, slabs, or finished pieces. Help your club, your fellow members, and yourself by bringing some surplus pieces for the silent auction. TRY IT--YOU'LL LIKE IT.)

LUNCH COMMITTEE: Gen Buresh, Mariann Wanner, Larry Strand

* * * * *

ANY ONE WILL DO



Rubies are red,

Sapphires are blue,

Emeralds are acceptable,

Diamonds, too.



CALENDAR OF EVENTS

- Feb. 21-22 Harlingen, TX--17th Annual Show, Southmost Gem and Mineral Society
- March 1 Bismarck, ND--2:30 p.m., Regular Meeting, Central Dakota Gem & Mineral Society, Capital Electric Bldg., Highway 83 North of Bismarck
- Mar. 12-15 St. Cloud, MN--4th Annual Show, Crossroads Center Mall
- Apr. 11-12 Mankato, MN--23rd Annual Show, Minnesota Valley Gem & Mineral Club
- Apr. 18-19 Hibbing, MN--18th Annual Show, Mesabi Rock & Mineral Club
- May 16-17 Hot Springs, SD--South Dakota State Gem & Mineral Show
- *Apr. 24-26 Lubbock, TX--Annual Show, South Central Federation of Mineral Societies, Inc.
- *June 4-7 Salt Lake City, UT--"Gem-Boree of the Rockies" Show, American Federation and Rocky Mountain Federation of Mineralogical Societies
- *June 26-28 Lexington, KY--"Blue Grass State Gem-boree" Show, Eastern Federation of Mineralogical and Lapidary Societies
- July 2-5 Winnipeg, Manitoba, Canada--12th International Gem and Mineral Show, Winnipeg Rock and Mineral Club
- *July 23-26 South Bend, IN--Show, Midwest Federation of Mineralogical and Geological Societies
- Aug. 8-9 Mitchell, SD--Gem and Mineral Show, Holiday Inn, Corn Palace Rock Club
- *Aug. 21-23 Midway, Wash.--"Nature's Rainbow of Jewels" Show--Northwest Federation of Mineralogical Societies, Inc.
- Sept. 18-20 Williston, ND--Annual Show, Williston Rock and Mineral Club
- SEPT. 25-26 MANDAN, ND--NORTH DAKOTA'S SEVENTH ANNUAL SHOW, Mandan Community Center sponsored by CENTRAL DAKOTA GEM & MINERAL SOCIETY. Show Chairman: Don Campbell, 1119 Memorial Highway, Bismarck, ND 58501

AT THE LAST MEETING--Feb. 1

Cen Buresh, Reporter

Minutes for the previous meeting were read and approved. Minutes of the Jan. Executive Board meeting were also read.

At the request of Don Campbell, Show Chairman, members voted on a theme for the 1981 show. The results of the vote are reported elsewhere.

Earle Campbell, Program Chairman, stated that several suggestions were received for future programs on the form sent with the last "Diggin's", but that others are still welcome. All will be considered.

Audit Committee Chairman Glenn Michaels announced that the treasurers' books for both the annual show and the Society were found "correct and in good order" for 1981. Letters to that effect were read and provided for the files.

President Osborn announced these additional appointments for 1981--
Hospitality Committee: Leota Jensen, Chr.; Betty Nautz; and Nettie Nelson;
Federation Representative: Bill Buresh.

A note from Ken Ness was read stating that his health is improving and extending good wishes to members.

President Osborn announced that literature had been received describing a show on March 12-15 in St. Cloud, Minn. It will be their Fourth Annual Show and will be held at the Crossroads Center Mall.

After approval of a motion to appoint a plaque committee, President Osborn appointed a committee for this purpose: Don Campbell, chr., Blossomae Campbell, and Earle Campbell.

President Osborn announced that a calendar review revealed that two meetings for the year--July and September--would fall on holiday weekends. A motion was passed to change meetings those months to July 12 and Sept. 13. MARK YOUR CALENDARS NOW!!! The meeting room has been reserved for these new dates.

The Program Chairman announced that a silent auction will be held during program time in March.

The door prize, an amethyst specimen donated by Julius Thies, was won by Betty Nautz. (It really does pay to come to meetings, doesn't it, Betty?)

For the program, Duane Robey, local science teacher and club member, developed the topic, "How to Recognize the Important Rock-Forming Minerals." After listing the qualities of eight of these minerals, he showed samples of each and then what happens if various groups of the minerals combine to form one rock. It was interesting to note that the colors of each basic component influenced the color of each rock produced.

Lunch was served by Jane Lanz, Leota Jensen, and Mary Beth Osborn.

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NEWS OF FORMER MEMBERS, JIM GARRETT

by Blossomae Campbell

The Earle Campbells have received recent news of former members, the Jim Garrett family. Jim and Elsie, with sons Rick and Ron, recently moved into a new home in Sioux City, Iowa. They had not used their rock equipment since leaving Bismarck, but plan to "get with it" again.

They also mentioned that if the club plans a field trip to the Black Hills this spring they would like to know about it. Perhaps they could join us.

For newer members who never had the pleasure of meeting the Garretts, they enjoyed the field trips immensely. They were also the lucky ones who always found the biggest the best, or the most of whatever we were looking for. They are former members of Central Dakota Gem & Mineral Society.

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ZIP CODE 58502

Please note that since the Zip Code number 58502 has been assigned for use with all Bismarck post office box numbers, that number should be used with the club box number:

P.O. Box 2445, Bismarck, ND 58502.

Zip Code number 58501 is still used for all street addresses, and number 58505 for all state government offices.

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1981 SHOW THEME SELECTED

"Artistry in Nature" is the theme chosen for the Society's Seventh Annual Show, which will be held on Sept. 25th and 26th.

The theme was selected by a vote of the members at the February meeting from a list of four that were suggested to Don Campbell, the chairman for the show.

The other three suggestions were "Nature's Bounty," "Nature's Harvests," and "Gemstones of the Bible."

The 1980 show theme was "Nature's Wonders Unveiled." * * * * *

PARLIAMENTARY POINTERS

By Al Hartl

The following motions are not debatable and cannot be amended:

1. To adjourn
2. To fix the time at which to adjourn
3. To call for the orders of the day
4. To lay on the table (to "postpone indefinitely")
5. To move the previous question (needs a 2/3 vote)

* * * * *

FORMER SHOW DEALER DIES

Blossomae and Earle Campbell received word recently of the death last June of Howard Feldman, following a massive coronary attack. Two hours after his funeral, his son Bob had a serious heart attack. Bob has recovered and was able to return to teaching last fall.

Howard and Bob Feldman were dealers at our annual show in 1976. They also had a booth at the Williston show for several years and were well known to many rockhounds from this area.

The Feldmans operated "Fossils and Rocks" in Billings, Montana.

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REPORTED PRESENT at the last meeting by Melvin Anderson, Greeter: 30 adults, 4 youths. At the Early Class - 19.

THIS-N-THAT

We regret to report that member CARL ELLISON is moving to South Carolina. Carl has demonstrated the art of facetting at local meetings as well as at the last two annual shows. His contributions will be missed.+++

MERLE AND JANE IANZ left for Mexico on a cold and blustery Feb. 7. They hoped to visit some of the mineral mines there and perhaps bring back some specimens. (Some warm weather, too?)+++

RAY AND LEOTA JENSEN left on Feb. 12th by air for San Juan, Puerto Rico. From there they will begin a Caribbean cruise that will take them to some of the neighboring islands and to South America. +++

IDA MAE RAMBERG reports receiving a letter from Doris Leidholm, Clinton, Washington, a member of the Whitby Island Pebble Pushers. She sent greetings to the Evert Nelsons and requested an exchange copy of the "Diggin's." +++

HAVE YOU WONDERED--how much campaigning does it take to get elected treasurer while living on Shady Lane?

* * * * *

THIS SAYS IT ALL, NICELY

Forget the gossip you have heard
The nagging, unkind word
Forget your problems & their cause
Folks' shortcomings & their flaws
Forget the climate if it's bad
The (snow-less) holiday you have had
Forget to think about the blues
BUT DON'T FORGET TO PAY YOUR DUES!

--Lake Agassiz Rock Hound

* * * * *

* MUGGLI ROCK SHOP & MUSEUM *
* Custom Cutting - 30-inch Saw *
* Findings, Belt Buckles, Chains *
* Ewald and Clara Muggli *
* 701 Oak Avenue East *
* Glen Ullin, ND 58631--Ph. 348-3897 *
* * * * *

EIGHT COMMON ROCK-FORMING MINERALS

The following is a summary of the talk made by Duane Robey at the last meeting about the most important rock-forming minerals.

Abundance of the Eight Most
Important Chemical Elements in the
Earth's Crust in Weight Percent

Oxygen	46.6	Calcium	3.63
Silicon	27.72	Sodium	2.83
Aluminum	8.13	Potassium	2.59
Iron	5.00	Magnesium	2.09

Although there are more than ninety elements found in nature, the above eight constitute nearly ninety-nine percent of the total amount found in the earth's crust.

The dominant element is oxygen, not as a gas as in the air that we breathe, but as charged atoms bound to metal atoms by powerful electrical forces. Of the metal atoms, silicon is the most important, for the rock-making minerals are silicates--that is, compounds containing oxygen-silicon groups. The common mineral quartz is composed of only these two elements.

Although the list of rock-making minerals is long, only a few make up the bulk of most rocks. There are many interesting varieties of the common minerals that could be considered; only those important to the understanding of rocks are listed below.

Quartz, perhaps the best known mineral, is found in a number of varieties and forms. We most often think of it as a colorless crystal; however, it appears as rose quartz, smoky quartz, milky quartz, amethyst, citrine, and others. In the cryptocrystalline form (sub-microscopic particles), it may be found as fibrous or granular. Chalcedony is the general name applied to the fibrous varieties, which include carnelian, sard, chrysoprase, agate, bloodstone, onyx, and others. The common granular varieties are flint, chert, jasper, and prase.

Quartz combines with five of the other major rock-forming minerals to form the very abundant rock of this area,

granite. All five are rather complex aluminum silicates. Muscovite, biotite, and hornblende by themselves are not very attractive. However, the feldspars, orthoclase and plagioclase, appear in beautiful gem quality specimens. Two familiar ones are sunstone (orthoclase) and labradorite (plagioclase).

The six minerals mentioned above unite in various combinations to form other granite-related rocks, such as the granodiorites, diorites, syenites, and trachytes.

Olivine and augite, both iron- and magnesium-rich silicates, combine with the plagioclase feldspars and hornblendes to form dark rocks called gabbro and basalt. Their darkness is due in part to a lack of quartz and the presence of the dark-green-to-black augite and the olive-to-grayish-green olivine. Other accessory minerals are usually also present.

Major sources cited were Dana and Hurlbut.

--Bill Suresh, Reporter

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PROGRAM SURVEY

A tally of the survey forms returned to the program committee has been supplied by the chairman, Earle Campbell. Suggestions for programs are listed below, by category.

Educational:

Minerals - 13	Fluorescence - 5
Fossils - 13	Safety/Display Cases-2
Geology - 9	Other - 3

Collecting Sites:

Agate - 14	Minerals - 11
Fossils - 12	Other - 1

Craftwork:

Lapidary Techniques - 18	Faceting - 1
Jewelry Making - 7	Spheres - 1
Carving - 7	Other - 3

Other:

Silent Auctions - 13

Other: Demonstrations; Geology Talks by Oil and Coal Representatives; How to Recognize an Interesting Rock; Good Films; Slides, Films, and Pictures of Our Field Trips; Gems of the Bible; Resin, etc.; Antiquity Laws.

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1981 MEMBERSHIP LIST

Listed below is the current list of Society members whose dues were reported paid by the time of this publication. Additions to this list will be published as they are reported. Space has been provided at the end of the list for each of you to add names of additional members as they are published during the year.

1. Anderson, Albert/Vina	Route 2	Bismarck, ND 58501	673-3189
2. Anderson, Melvin/Viola	1521 LaForest Ave.	Bismarck, ND 58501	223-3558
3. Brady, Harold/Emma	1401 Sunny Road	Mandan, ND 58554	663-3903
4. Buck, Walter	1807 Linda Drive	Mandan, ND 58554	663-8531
5. Buresh, Wm. A./Genevieve L.	44 Capt. Marsh Dr.	Mandan, ND 58554	663-5397
6. Collins, W. E.	512 N. 300-W	Vernal, UT 84078	
7. Campbell, Donal	1119 Memorial Hwy. #17	Bismarck, ND 58501	258-1194
8. Campbell, Earle/Blossomae	1134 N. 28th St.	Bismarck, ND 58501	255-3658
9. Campbell, John* % David Ward	Star Route #2	Bismarck, ND 58501	
10. Fischer, Pius/Emma	501 S. 13th St.	Bismarck, ND 58501	223-4362
11. Giese, Ted/Verna	Rt. 1, Box 83	New Salem, ND 58653	843-7005
12. Hartl, Al/Ruth	1111 North 1st St.	Bismarck, ND 58501	258-0761
13. Harvey, Jack/Marja	1806 E. Thayer Ave.	Bismarck, ND 58501	258-0992
14. Hickie, Ralph/Doris		Center, ND 58530	794-3137
15. Hickie, Rodney/Carol		Center, ND 58530	794-3342
16. Higgins, Kent	1009 N. 6th St.	Bismarck, ND 58501	222-8580
17. Hilgemann, Ed/Wilma	Box 216	Leola, SD 57456/605	439-3341
18. Jacobson, Tilmer/Aneta		Bowbells, ND 58721	377-2666
19. Jensen, Dave/Ruby		Hazen, ND 58545	748-2061
20. Jensen, Ray/Leota	1400 - 5th Ave. NW	Mandan, ND 58554	663-8217
21. Jorgensen, Arthur/Norma	2433 Atlas Dr.	Bismarck, ND 58501	258-4833
22. Kobilansky, Mike/Alice	Rt. 2, Box 26	Glen Ullin, ND 58631	348-3484
23. Lanz, Merle/Jane	600 - 13th ST. NW	Mandan, ND 58554	663-8621
24. Larson, Harold	Box 182	Mandan, ND 58554	663-6148
25. Lindvig, Ralph	Route 1, Box 147	Williston, ND 58801	572-5023
26. Mausehund, Verl/Edna	Rt. 2, Box 30	Linton, ND 58552	782-4726
27. Mautz, Norman C./Betty	R.R. 1	Garrison, ND 58540	337-5775
28. Michaels, Glenn	1700 N. 4th St.	Bismarck, ND 58501	258-8417
29. Muggli, Ed/Katherine	Box 63	Glen Ullin, ND 58631	348-3103
30. Muggli, Ewald/Clara	Box 27	Glen Ullin, ND 58631	348-3897
31. Nelson, Adolph	806 - 15th Ave. W.	Williston, ND 58801	572-3446
32. Nelson, Evert/Nettie	Box 118	Washburn, ND 58577	462-3680
33. Ness, Kenneth	Box 351	Washburn, ND 58577	
34. Osborn, Mary Beth	310 - 12th Ave. NW	Mandan, ND 58554	663-1056
35. Oshesky, Duane	P.O. Box 1353	North Highlands, CA	95660
36. Peterson, Vernie/Elizabeth	615 N. 12th St.	Bismarck, ND 58501	223-9179
37. Ramberg, Joel/Ida Mae	1325 N. 15th St.	Bismarck, ND 58501	223-6296
38. Rambough, Clell/Elma	Box 14	Braddock, ND 58524	332-6687
39. Randall, Robert/Sue	928 N. 16th St.	Bismarck, ND 58501	223-1625
40. Robey, Duane/Ledores	2119 Ave. F East	Bismarck, ND 58501	255-0576
41. Robinson, George	P.O. Box 2437	Bismarck, ND 58502	
42. Solberg, Henry	Route 1	Bismarck, ND 58501	
43. Strand, Larry/Janice	1318 N. 19th St.	Bismarck, ND 58501	258-5128
44. Swanick, James/Orma	307 - 14th Ave. NW	Mandan, ND 58554	663-9778
45. Tonander, John/Margaret (H)	208 Ave. B East	Bismarck, ND 58501	223-1379
46. Wandler, Ron/Mariann	336 Shady Lane	Bismarck, ND 58501	255-4947
47. White, Al/Marlene	604 - 10th Ave. SW	Mandan, ND 58554	663-8727

*--Junior Member

H--Honorary Member