



MONTHLY PUBLICATION OF THE CENTRAL DAKOTA GEM & MINERAL SOCIETY

BISMARCK-MANDAN AND SURROUNDING AREAS

NORTH DAKOTA

DIGGIN'S FROM DAKOTA
Gen & Bill Buresh, Editors
1527 N. 19th St.
Bismarck, ND 58501

DIGGIN'S FROM DAKOTA



Published by the CENTRAL DAKOTA GEM & MINERAL SOCIETY
P.O. Box 2445, Bismarck, ND 58501
Member
Rocky Mountain Federation of Mineralogical Societies
and
American Federation of Mineralogical Societies



- AIMS: 1. To encourage the study of mineralogy and geology.
2. To foster field trips for collection of minerals, gems and fossils.
3. To improve the skills of its members in the arts of cutting, polishing and gem mounting.
4. To provide opportunity to exchange, purchase and exhibit specimens and other material.

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. the rest of the year. VISITORS ARE ALWAYS WELCOME.

DUES: \$5.00 per family per year.

OFFICERS AND COMMITTEE CHAIRPERSONS:

President	Harold Brady	1401 Sunny Road	Mandan	663-3904
Vice President	Mary Beth Osborn	310 - 12th Ave. NW	Mandan	663-1056
Secretary	Ted Giese	Route 1	New Salem	843-7005
Treasurer	Carol Hickie		Center	794-3342
Chaplain	Earle Campbell	1134 N. 28th St.	Bismarck	255-3658
Bulletin Editors	Gen & Bill Buresh	44 Captain Marsh Dr.	Mandan	663-5397
Publicity	Pius Fischer	501 S. 13th St.	Bismarck	223-4362
Parliamentarian	Gen Buresh	44 Captain Marsh Dr.	Mandan	663-5397
Program	Larry Strand & Earle Campbell	1318 N. 19th St.	Bismarck	258-5128
		1134 N. 28th St.	Bismarck	255-3658
Librarian	Fred Springer	1119 S. 9th St.	Bismarck	255-4232
Field Trip	Rodney Hickie		Center	794-3342
Annual Show	Don Campbell	1119 Memorial Hwy.	Bismarck	258-1194
Pebble Pups	Duane Robey	2119 Ave. F East	Bismarck	255-0576
Historian	Emma Brady	1401 Sunny Road	Mandan	663-3904
Hospitality	Emma Fischer	501 S. 13th St.	Bismarck	223-4362
Membership	Stan Fairaizl	1406 Pioneer Dr.	Mandan	663-9712
Refreshments	Verna Giese	Route 1	New Salem	843-7005
Federation Rep.	Ida Mae Ramberg	1325 N. 15th St.	Bismarck	223-6296

Subscription rates for non-members are \$3.00 per year.

All members are encouraged to submit articles, etc., for publication during the year. All material for the bulletin should be received by the editor by the 10th of each month. Advertizing in the bulletin by members will also be accepted.

Other editors may reprint articles from this bulletin. A credit line would be appreciated.



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

September 26 - 27, 1980

DIGGIN' S. FROM DAKOTA

Vol. 15, No. 11

November, 1980

NEXT MEETING: December 7, 1980, 2:30 p.m. (Beginners' Class, 1:30 p.m.)

PROGRAM: Annual Christmas Dinner Will Replace the Program

LUNCH COMMITTEE: Everyone

* * * * *

PRESIDENT'S MESSAGE

November 13, 1980

Hi, Everyone:

Well, another meeting is over and it's time to write once again. The meeting went well and everyone seemed to be in exceptionally good spirits. I purchased a few goodies at the silent auction. Looking them over when I got home, I was pleased with the good buys I made.

Next meeting will be our Christmas potluck and there will be lots of good eating to be done. You can check with our refreshment chairman, Mrs. Verna Giese, if you're uncertain as to what to bring. We will also be electing officers, so be sure to come and vote. One other added incentive for coming is our door prize. One of the members has donated a fabulous door prize and, believe me, you'll be the envy of all the members if you win it!

For those new members, pebble pups, and old members, too, there will be a learning class one hour before the start of the regular meeting. There have been several new specimens found lately which we'll be learning about.

Also, don't forget that the nominating committee hasn't found anyone for president yet so we will be looking for a nomination from the floor.

See you all there!

Sincerely,

H. A. Brady

* * * * *

CALENDAR OF EVENTS

Dec. 7 Bismarck, ND--2:30 p.m. Regular Meeting, Central Dakota Gem & Mineral Society, Capital Electric Bldg., Highway 83 North of Bismarck--
Annual Christmas Dinner Following the Meeting

Dec. 5-7 Phoenix, AZ--Show, Mineralogical Society of Arizona

Dec. 5-7 Excelsior, MN--Show, Minnetonka Mineral Club

1981

Jan. 8-11 Denver, CO--Show, Denver Gem & Mineral Guild

Feb. 13-15 Tucson, AZ--27th Annual Show, Tucson Gem & Mineral Society

May 16-17 Hot Springs, SD--South Dakota State Gem & Mineral Show

June 4-7 Salt Lake City, UT--AFMS and RIFMS Show & Convention

SEPT. 25-26 MANDAN, ND--NORTH DAKOTA'S SEVENTH ANNUAL SHOW, sponsored by
CENTRAL DAKOTA GEM & MINERAL SOCIETY

AT THE LAST MEETING--Nov. 2

Emma Fischer, hospitality chairman, reported forty-one adults and three children present at the last meeting. There were seventeen participants at the pre-meeting session, at which specimens of recent gastropod fossil finds from the east banks of the Missouri River in southern North Dakota were shown. Both the fossils and historical and descriptive comments were presented by Harold Brady.

George Robinson, chairman of the Nominating Committee, reported that these members had consented to be nominees for the offices listed below for 1981:

Vice President -- Ted Giese
Secretary ----- Jane Lanz
Treasurer ----- Ron Wandler

The committee had no nominee for the office of president.

Blossomae Campbell reported that she had received acknowledgement of the receipt of the used stamps which she had recently mailed for a food-for-the-needy program.

Bob Randall, Show Treasurer, reported that the receipts from this year's show indicate a net balance of \$399.14. Bob also reported on the history and operation of the American Federation Scholarship Fund and moved that \$150.00 of the proceeds from the silent auction during the show be donated to AFMS Scholarship Fund. The motion carried.

After some discussion, the members voted to amend that part of the Constitution which relates to the annual membership dues (details elsewhere).

The door prize, an Owyhee jasper cab donated by Rod and Carol Hickie, was won by Nettie Nelson.

Silent auction and lunch followed the meeting. The lunch was served by Jane Lanz, Mary Beth Osborn, and Don Campbell.

Happy Thanksgiving

MEMBERSHIP DUES CHANGED

In order to provide an income sufficient for the club to cover current expenses, members voted at the October meeting to amend Article IV of the Constitution, which relates to membership dues. The amended article now states that the dues schedule is as follows:

1. Family Membership--\$8.00 per year
2. Individual Adult Membership--\$6.00 per year
3. Individual Junior Membership--\$3.00 per year

Members also voted to eliminate future subscriptions to the club bulletin for non-members. In other words, in the future any person wishing to receive the bulletin will need to have at least an Individual Adult Membership.

CHRISTMAS DINNER

The tradition of having a Christmas dinner after the December club meeting will be continued this year with a "potluck" menu. Each member (or family) should bring a hot dish, salad, or dessert plus enough bread or rolls for his/their own needs. Butter and pickles will also be needed (single members' prerogative).

Also bring your own plates, eating utensils, and serving spoons.

Coffee will be provided.



MOVED MEMBERS SEND GOOD WISHES/ADDRESS

Oct. 24, 1980

Dear Gen and Bill,

Here are some stamps we've collected. We've moved to Cedar Falls, Iowa. Charles has a good job here, and we are getting into a new routine, but we sure miss Bismarck-Mandan.

We especially regretted missing the annual Show, which we've always loved. We're glad to hear it was such a success.

All of you fellow members will always have a special place in our hearts because of our fond memories. We wish the Club the best.

With love,

Carol Gilliland
3028 Cottonwood Lane
Cedar Falls, Iowa 50613

* * * * *

(The stamps have been turned in to the collection chairman, Blossomae Campbell. --Ed.)

* * * * *

CONCERNS OF THE TIMES

The following is one man's explanation of what is happening at the gem and mineral shows. This may be part of the answer as to why the dealers presently seem low on supplies of rough material:

"If five years ago someone would have told me what is happening would happen, I would have said, 'You're crazy.' But don't be too shocked, the lapidary business is down terrifically, so what this means is this. Some dealers are going out, some are taking shows close to home only, money is not available for large stocks and travel. The only way to come out is create more public interest in the hobby; if we don't the picture is grim. Now I don't mean just our club alone, I mean all clubs will have to (work) at this. We all will have to work harder at more exhibits and better ones at shows. It is not an easy task but an important task for all concerned with the hobby."--Darell Jaehde, alias The Ole Rock Digger, Show Chairman, Hutchinson Gem & Mineral Soc., Inc., Hutchinson, Kansas

ANNUAL ELECTION

The annual election of officers for the Central Dakota Gem & Mineral Society takes place each year at the annual meeting in December. The election this year for officers for the coming year will be held at the meeting on Sunday, December 7, 1980, starting at 2:30 p.m.

The officers to be elected are president, vice president, secretary, and treasurer, each for a term of one year.

The Nominating Committee presented a slate of nominees for three of the offices, as reported on page two.

There will be a call for nominations from the floor for each of the offices before the election takes place.

* * * * *

THIS-N-THAT

Sixteen Central Dakota Gem & Mineral Soc. members attended the Williston Show in Sept. Club Member Roy Schubert of Richardson was one of the dealers. All reports indicate that it was a successful show. Apparently Montana agate again dominated the show at the silent auction as well as in the exhibits.

Gen and Bill Buresh took an exhibit to the Aberdeen show on Oct. 25-26. On their way to the show they stopped in Carrington, ND to see the John Dosches, former club members. On their way home they stopped to visit members Ed and Wilma Hilgemann and their museum in Leola, SD.

Ewald and Clara Muggli and Glenn Michaels were the other Central Dakota Gem & Min. Society members attending the Aberdeen Show. There were twenty exhibits on display and five dealers. Bill Buresh won the first door prize given, a belt buckle with a still unidentified cab.

Pius and Rosa Theis are back at home after a quick trip to Oregon.

Ida Mae Ramberg is continuing her recovery at the home of her daughter, Lola Huwe, who resides at 428 N. 15th Street, Bismarck, ND.

A DREAM TRIP, by Gen and Bill Buresh

In spite of warm days and rumors of hotter days to come, we left Bismarck on July 14th on the first leg of a rather long journey which had been in the planning stage for several years. The two main reasons for the trip were to attend the 50th wedding anniversary of Gen's sister and brother-in-law in Anchorage, Alaska on Aug. 6th, and to visit our son and daughter-in-law in Kaneohe, Oahu Is., Hawaii. There is much to see between here and those two points, hence the need for planning. The trouble was--every time we made a choice we had to eliminate something else.

We traveled through the Black Hills, Wyoming, and northern and western Colorado; toured Mesa Verde National Park with its fascinating ruins of ancient cliff dwellings in southwestern Colorado, and the Grand Canyon in Arizona; and crossed the California border at Needles on a day when the temperature reached 111°, arriving that afternoon in San Bernardino, where Gen's brother lives. After a brief respite there, her brother and sister-in-law, Ed and Kay Switzer, joined us for the rest of the trip.

We flew first to Portland, Oregon, to visit relatives and friends, some of whom took us ^{on} a tour of the Mt. St. Helen's Visitor's Center, with photos and maps of the big eruption, and to the site of the Tuitile River bridge which had been washed out by the massive mud flow following the first eruption. The devastation there is a vivid reminder of the forces of nature. The mud line was thirty feet or higher on remaining trees. Even very tall trees in the full force of the flow had been swept away or denuded of all their branches. Every few miles along the road were souvenir shops with racks and racks of sweatshirts with a picture of Mt. St. Helen's. We could see the smoldering summit from the plane when we landed at Portland and when we left for Alaska three days later.

The first part of the Alaskan trip was spent mainly in visiting with the 26 family members and close friends there for the 50th anniversary celebration, with side trips to nearby shops, museums,

mountains, glaciers, and lakes. Later the four in our party took a car trip to Valdez, the port at the receiving end of the Alaska Pipeline from the oil field at Prudhoe Bay. We returned by ferry past the enormous Columbia Glacier and some island bird rookeries. We also took a train trip to Mt. McKinley Park and toured available roads by shuttle bus. The scenery of mountains, valleys, tundra, and glaciers is fantastic, and we were lucky in seeing wildlife--moose, caribou, wolf, birds, and at least eleven grizzlies--as well as a dog team demonstration (on grass, not snow). The great mountain, however, stayed behind clouds, but we did see it from the train.

Leaving the cool climate, we took an overnight flight to Hawaii, which is about 2500 miles almost straight south of Anchorage. We toured Hawaii Island first, using a rented car. Called the "Big Island," it is the only one with a good road all around the perimeter.

All of the islands were created by volcanoes, with soil developed from lava beds. There are no great river systems. There is a great contrast in terrain and plant life, from lush tropical vegetation to vast grasslands to dry areas and great lava flow areas with no vegetation. There is a rainy side and a dry (and hotter) side on each island.

The Big Island has sugar plantations and large cattle ranches in the interior. Two large mountains with broad sloping crater tops, Mauna Loa and Mauna Kea, both more than 13,000 ft. above sea level, dominate the horizon. As we toured the island, we stayed in Hilo, Volcano Nat. Park, and Hana Bay. On this island, as on the others, we saw many beautiful flowers, bushes, and trees. We traveled through ancient and recent lava beds in Volcano Park. Steam rising from the crater floor created an eerie scene in the dusk as we arrived at the hotel. As on any mountain top, the air was very cool. Next morning steam was rising from a small fissure not more than 30 feet from the exit beside our hotel room! One recent flow occurred in November 1979.

We flew on to the next island, Maui, landing at Kahului, where we stayed for three nights and toured during the days.

A DREAM TRIP, cont.

A big attraction on Maui is Haleakala National Park, dominated by Haleakala Crater, 7½ miles long, now described as a cool, cone-studded reminder of a once-active volcano. Streaks of red, yellow, gray, and black trace the courses of recent and ancient lava, ash, and cinder flows. The volcanic rocks slowly break down as natural forces reduce them to minute particles which are swept away by wind, heavy rain, and intermittent streams. Newer volcanic cones within the ancient crater are as tall as 600'. The park also includes rain forest areas and pools with lush vegetation.

On Maui we also saw sugar cane fields being harvested, and heard^{about} and sampled the famous large sweet Maui onions. We saw the largest banyan tree in the world, which covers almost half a city block; an old church painted inside to make it look like a large European cathedral; and museums, beaches, and more flowers.

After three days on Maui, we flew on to Honolulu and drove to the other side of Oahu to Kaneohe, where our son and daughter-in-law live. In addition to much visiting, we toured the Foster Gardens, with many types of orchids and other exotic flowers, and trees from many parts of the world; the Bishop Museum, with beautiful dishes, feather robes, and furniture owned by former monarchs; the Iolani Palace, a former home of monarchs now being restored; beaches and old craters; old churches and ancient religious sites; outdoor sales booths of native artisans; the U.S.S. Arizona Monument and the National Cemetery and its Monument for the service men and women of World War II; Waikiki Beach, the famous Mauna Loa shopping center; the Polynesian Cultural Center with its fabulous program of dances representing the cultures of the various islands in the Pacific. Many of the young dancers earn their tuition at a local university by working in the respective villages on the campus and by dancing at the Center. We also toured the state capitol, a macadamia nut packing plant and a Dole pineapple plant.

Besides enjoying the marvelous beaches of various hues, the magnificent flowers and foliage, the mountain peaks

and the craters, we also had some interesting experiences of eating a vast array of foods especially fruits, vegetables, and seafoods. The Islanders make an art of preparing and serving food.

Because the tourist trade has been affected adversely by inflation, prices on the Islands were more reasonable than we had expected. The tourist trade has also been affected by the rapidly mushrooming condominium settlements owned by non-Islanders--American and otherwise.

After returning to California, we visited nieces and nephews in southern Calif. and friends in Bozeman, MT, arriving back in Bismarck on Sept. 13. It was a fantastic trip which we are still enjoying through photographs, purchased post cards, and memories.

Of special interest to us as rock-hounds were:

- two gem and mineral shows we attended, one at Durango, Color. and one at Simi Valley, Calif. (s.e. of Santa Barbara). Both were local shows, the first one with 14 exhibits and 16 dealers (sellers) and the latter with 21 exhibits and two dealers;
- the rocks, dust, and pictures from Mt. St. Helen's;
- gold panning near Hope, Alaska;
- rock shops in Alaska and Hawaii;
- the rocky shores, the black sand beaches, the shells, and the lava flows of Hawaii;
- the Mousley Museum of Natural History in Yucaipa, CA; now a part of the San Bernardino County Museum system. The Mousley Museum contains a fantastic personal collection of shells, minerals, fluorescent minerals, and artifacts collected and cataloged by Louis B. Mousley. Well worth seeing by anyone who is driving in that area.
- the home base of the Mineral-of-the-Month Club operated by Ray and Alexandra Filer in Yucaipa, CA, where we were privileged to see both the shop and Mrs. Filer's extensive research library

* * * * *

DUES ARE DUE

1981 Dues are due as per the new dues schedule.

CABOCHON POLISHING

Numbers following names refer to the list of laps and polishing agents below. Those numbers underlined are preferred methods. The same combination may not always work and there are other combinations possible which may work just as well as those indicated.

<u>Lap</u>	<u>Agent</u>	<u>Lap</u>	<u>Agent</u>	<u>Lap</u>	<u>Agent</u>
1. Felt.....	Cerium	8. Leather.....	Diamond	15. Maple.....	Tripoli
2. Felt.....	Tin	9. Flannel.....	Alumina	16. Wool Carpet/	Alumina
3. Felt.....	Chrome	10. Flannel.....	Rouge	17. Velvet.....	Tin
4. Felt.....	Linde A	11. Pellon.....	Linde A	18. Canvas.....	Tin
5. Leather.....	Chrome	12. Pellon.....	Cerium	19. Phenolic...	Diamond
6. Leather.....	Linde A	13. Pellon.....	Tin	20. Resin/Canvas..	Diamond
7. Leather.....	Tin	14. Maple.....	Diamond	21. Leather.....	Rouge

Amber.....	10	Obsidian.....	<u>1</u> , 3, 4, 5, 6, <u>11</u> , <u>12</u> , 20
Andalusite.....	1, 2, 6, <u>11</u> , 12	Olivine.....	1, 6, <u>11</u> , 12, 14, <u>19</u> , 20
Apatite.....	3, <u>4</u> , <u>11</u> , 12	Prehnite.....	1, 2, <u>12</u> , 20
Beryl.....	<u>1</u> , 2, 4, <u>6</u> , <u>11</u> , <u>12</u>	Psilomelane.....	6, 7, <u>11</u> , 20
Calcite.....	8, <u>9</u> , 10, 16, <u>20</u> , <u>21</u>	Potoskey Stone.....	11, 13, <u>17</u> , <u>18</u> , 20
Chrysoberyl.....	14, 15, <u>19</u> , 20	Quartz & Opal....	<u>1</u> , 2, 3, 4, 5, 6, <u>11</u> , <u>12</u> , 20
Coral.....	5, 9, <u>20</u> , <u>21</u>	Rhodochrosite.....	6, 7, 8, <u>11</u> , <u>13</u> , <u>20</u>
Chrysocola.....	1, 5, 9, <u>11</u> , 20	Rhodonite.....	3, <u>5</u> , <u>6</u> , 7, <u>11</u> , <u>14</u> , <u>19</u> , <u>20</u>
Corundum.....	<u>14</u> , 15, <u>19</u> , <u>20</u>	Rhyolite.....	6, 7, <u>11</u> , <u>13</u> , <u>20</u>
Cordierite.....	1, <u>2</u> , 3, 4, 5, 6, <u>11</u> , <u>12</u>	Serpentine.....	3, 5, 6, 8, <u>11</u> , <u>14</u> , <u>20</u>
Diopside.....	1, 5, 6, <u>11</u> , 20	Shattuckite.....	6, <u>11</u> , <u>14</u> , <u>20</u>
Epidote.....	2, 3, 5, 6, <u>11</u> , <u>12</u> , 20	Sodalite.....	2, 5, 6, <u>11</u> , 12, <u>20</u>
Feldspar.....	1, 2, 3, <u>5</u> , <u>12</u> , 20	Spinel.....	1, 4, <u>11</u> , 12, <u>14</u> , <u>19</u> , <u>20</u>
Fluorite.....	1, 3, 6, <u>11</u> , <u>12</u> , 20	Spodumene.....	<u>1</u> , 2, 4, <u>11</u> , <u>12</u> , <u>14</u>
Gypsum.....	<u>9</u> , <u>10</u> , 16, <u>20</u>	Staurolite.....	<u>1</u> , 3, 5, <u>11</u> , 16
Hematite.....	5, 7, <u>19</u> , 20	Steatite.....	5, 9, 10
Howlite.....	2, 7, <u>11</u> , <u>13</u> , <u>19</u> , 20	Thompsonite.....	<u>1</u> , 3, 5, 6, <u>11</u> , 12, <u>19</u> , 20
Idocrase.....	3, 6, <u>11</u> , <u>14</u> , <u>19</u> , 20	Topaz.....	1, <u>11</u> , <u>12</u> , <u>14</u> , <u>19</u> , <u>20</u>
Jadeite.....	5, 6, <u>11</u> , <u>14</u> , <u>19</u> , 20	Tourmaline.....	1, 5, 6, <u>11</u> , <u>12</u> , <u>20</u>
Jet.....	5, 9, 10, <u>16</u> , <u>20</u> , <u>21</u>	Tremolite.....	1, 5, <u>6</u> , <u>11</u> , 12, <u>20</u>
Lazulite.....	1, <u>5</u> , 6, <u>11</u> , <u>12</u> , 20	Turquoise.....	1, 4, <u>5</u> , <u>6</u> , <u>11</u> , 12, <u>20</u>
Lazurite (Lapis).....	5, 6, <u>11</u> , <u>12</u> , <u>14</u> , <u>20</u>	Variscite.....	1, 4, 5, 6, <u>11</u> , 12, <u>20</u>
Malachite.....	1, 3, <u>10</u> , <u>11</u> , <u>20</u>	Zoisite (Thulite).....	1, 5, <u>6</u> , <u>11</u> , <u>12</u> , <u>14</u> , <u>19</u> , <u>20</u>
Nephrite.....	5, <u>6</u> , <u>11</u> , <u>14</u> , <u>19</u> , <u>20</u>		

Note: Titanium Oxide may be used to replace Tin Oxide in many instances.
Zirconium oxide may be used to replace Tin Oxide or Cerium Oxide in many instances.

--Rocks and Minerals, June 1970, #369, via BLACK HILLS PROSPECTOR, Oct. 1980

* * * * *

PARLIAMENTARY TIPS, by Gen Buresh

Rules for the conduct of a meeting have developed gradually through the past centuries. No one person wrote out a set of rules and enforced them on anyone. Rather, as soon as people met in groups to talk over their affairs, certain customs were used. These customs, changed to meet varying conditions as the years passed, became accepted rules, which we now know as parliamentary law.

There are four principles upon which parliamentary rules are built. They are:

Justice and courtesy to all
One thing at a time

The rule of the majority
The rights of the minority