

W0BLK
BLACK HILLS AMATEUR RADIO CLUB, INC

3288 Sandstone Lane
Rapid City, SD 57701-5388

Call to Order: Since President Ryan Lindblom was absent, the BHARC meeting was called to order at 7:00 pm on 18 Feb 2022 by Vice President Mike Moore. The meeting was held in the Electrical Engineering/Physics building at the South Dakota School of Mines and Technology, room 208. The online GoToMeeting continues to be an option to participate in the meeting.

The following attended the meeting in-person:

Ryan Lindblom KE0LXT
Mike Moore KE0QIB
Chris Jaques KD0RAS
Bob Henriksen KF0AM change phone number to cell: 605-015-6059
Andy Pattantysus KF0ARA
Terry Fuller AD0HL
Jim Woods N0NAC
Michael Marion KB5UMK
Gary Anderson KF5XW
John Wilson W8JSW
Dave Minnick N9FI
Larry Brock N0LRB
Tom Fontaine KE0EYN
Scot Donnenbrig WA0SD
Marlene Donnenbrig KB0LSC
Delbert Long KD0AYN
Gary Peterson K0CX
Don Kendall N1NOX
Bruce Bradfield K0FB
Wayne Ebbers W0WKE
Betty Rush KA7PJQ
Donald Darcy WK2RP
Joan Clements KE0OUH
Bill Clements KE0QUI

The following attended the meeting online:

Gene McPherson N0MJH
Bill Kipping KE7K
Michael Key K0MDK
Dale Freeman KE0YJR
Tim Gooding KE0YX

Secretary's Report: The minutes from the February meeting were sent out to the club members prior to this meeting. The bank signature card was completed on Feb 25th. Chris Jaques provided the actual February financials for inclusion in the March minutes.

Treasurer's Report: Chris Jaques provided the treasurer's report:

Current Balances:

Regular Share - \$10,990.22
Checking - \$2,298.92
60 Month CD (06/11/2022) - \$8,966.90
QCWA - \$352.16

Outstanding Payments:

Clubhouse Electric Bill to School of Mines (3 months worth) - \$503.17
Auction Sellers - \$677.10

Auction Outcome:

Direct auction sales for the club: \$427.00
Auction commission for the club: \$91.90
Payment for swapmeet tables: \$90.00
Donations for items from the club table run by Gary (KØCX): \$380.00
Dues Payments: \$125.00
Other Donations: \$12.00

Total Auction income for the club: \$1,125.90

Terry Fuller made a motion to approve the meeting minutes and financial report, Bob Henrikson seconded. Vote: none opposed, motion approved

Committee Reports:

Engineering/Technical Committee: Mike Moore reports:

No activity since the February 2022 meeting. Seeking ideas for the clubhouse. Send to Mike or Ryan.

Public Relations and Recruitment Committee: Don Kendall reports:.

Betty and Don have worked out several programs. Sharing programs with a club in California. Don and Andy taught the Merit Badge class last Saturday. Andy will speak next month on his 1st year as a HAM. Looking for volunteers. Chris April 23rd for next BHARC testing session, 1st Interstate Bank building at West and Omaha. Next Saturday in Spearfish, at the airport Civil Air Patrol. 3 people in the class last Saturday. Brad with CW class this fall. Lee Boyles and Betty Rush are also part of the committee.

Activities Committee: Terry Fuller reports:.

1. March 18th - Skywarn Training presented by Susan Sanders
2. April 23rd VHF UHF QSO party - start with last years rules, looking for ideas.
3. May 14th Fox Hunt - overnight. Chris and Larry working on details.
4. June 24th and 25th. Black Hills 100, Summer Field Day - Need volunteers
5. July 9 Tailgate swap meet
6. July 16/17 Summits on the Air (SOTA) weekend - Shelter is reserved, with club meeting
7. Sept 11 Annual Meeting
8. Oct 8/9 SD QSO QSO Party
9. October Veterans March
10. Skywarn - first weekend in December
11. ARES Activity

Terry will publish the list of events by email.

Old Business:

Recruiting for committees.

New Business:

Mike has no new business. The caving group wants to use the Northern Hills repeater, on June 17th, but Mike does not know the status of the caving group.

Adjourn:

John Wilson made a motion to adjourn the meeting; Terry Fuller seconded.

Vote: none opposed, motion approved

The meeting was adjourned at 7:16 pm.

Andy Pattantyus, KF0ARA

BHARC, Secretary

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Bonus Program

Gene McPherson reports on working islands and lighthouses and POTA, Rare grid EL84. Checkout Gene's website. Depart FL April 18th. Camping in the Dry Tortugas. Will be on 20m and 40m (on request) and 6m CW. FFMA award for working all 480 grid squares in the continental USA. Will be monitoring 6m. Open to scheduling, but must contact Gene at N0MJH@ARRL.net before April 18th. Solar powered, only during the day. Done by 5pm or 6pm each day. Thursday through Sunday during the last week in April.

Program presentation:

PROGRAM - SKYWARN Tornado Spotter Training

The program was presented by Susan Sanders, a meteorologist from the Rapid City National Weather Service office. Also attending was guest Markus Erk, who provided some of the storm photographs in the presentation.

Susan covered the following topics:

- * how to recognize a developing tornado,
- * how to report severe storms to the National Weather Service and local officials, and
- * how to protect yourself from storms.

The National Weather Service relies on ground-truth storm reports from spotters to supplement forecasting tools like the Doppler radar and automated weather stations.

Pre-registration is not required, but anyone who wants more information can contact:

Susan Sanders

Warning Coordination Meteorologist

National Weather Service

605-341-9271

[weather.gov/unr](https://www.weather.gov/unr)

Susan presents SkyWarn 2022

Hurricane hunter. Went to Dry Tortugas.

Topics

- * Tornado Formation
- * Storm Reports
- * Safety!
- * Spotter Procedures

Watch: Possible

Warning: Imminent

Severe Thunderstorm: 1" hail and/or 60 mph wind gusts

Tornado Formation

Supercell Thunderstorms - shows side view, from "How Tornadoes Form" by Paul Markowski

Updraft 30,000 to 60,000 feet high

Wall Cloud - look for horizontal rotation

Downdraft - 2 kinds: 1) Main Storm, with rain and hail, and 2) Rear Flank

Making a storm report

- * Who you are
- * Where you are:
 - Spotter ID
 - Street Address
 - Nearest Intersection
 - Latitude/Longitude
- * When the storm or flooding started, how long it lasted
- * Damage

For Tornadoes, Funnel Clouds, or Wall Clouds

Where: Direction of tornado from your location, mention a landmark

Flooding:

Where: streams, road crossing, street

Water depth and movement

Impacts

Thunderstorms

Hail > ½" diameter

Wind Gusts > 50 mph

Heavy rain: 1" per hour

Ways to make reports

Call: Phone or NWS radio talkgroup

Email pictures to nws.rapidcity@noaa.gov

Free mPING app

Online reports at <https://www.weather.gov>

<https://www.cocorahs.org> to report precipitation

Preparations:

- * Reliable warning methods
- * Shelters
- * Evacuation routes
- * Communications plan
- * Emergency supplies

Warnings

- * NOAA Weather Radio, works on batteries
- * Wireless Emergency Alerts
- * Outdoor warning sirens
- * Local media and cable TV
- * Twitter, shows a map

Spotter Procedures

* Spotter Activation

- Notification
- Designate an incident commander (net control)
- Provide info to spotters
- Relays reports to NWS

* Information and Communications

- Radio: Interagency talkgroup
- NWS Chat

* Online Spotter Resources

- www.weather.gov/unr/spotter Also provides a Weather Spotter's Field Guide
- Online classes at the SkyWarn page
- Share pictures and videos

Largest heaviest hailstone was 2 pounds near Vivian. A cast model at RC library.