

**W0BLK**  
**BLACK HILLS AMATEUR RADIO CLUB, INC**

3288 Sandstone Lane  
Rapid City, SD 57701-5388

**Call to Order:** The BHARC meeting was called to order at 7:00 pm on 20 Mar 2026 by President Ryan Lindblom KE0LXT. The meeting was held in the EE/Physics Building at the South Dakota School of Mines and Technology, room 251A.

The following attended the meeting in-person:

Andy Pattantyus KF0ARA  
Gary Peterson K0CX  
Jeff Larus KF0TSG  
Marko Kocanda WV9M  
Bob Henriksen KF0AM  
Chris Jaques KD0RAS  
Larry Broomfield AC0WT  
Don Jarvinen K0DAJ  
Jeff Halgerson K0HF  
Ryan Lindblom KE0LXT  
Mike Marion N0ETT  
Greg Maxwell NT4TN  
Jim Larkin KF0TSF  
Jim Woods N0NAS  
Robert Petrovich AF0EJ  
Jan Schmidt KF0MOX  
Larry Brock N0LRB  
Roy Berke WA7TRR  
Delbert Long KD0AYN  
Jay Roman KB0ATQ  
Bob Olsen WA0FPR  
Mike Moore K0QIB  
Arie Lecroix KF0LVF

**Introductions:** Each attendee introduces themselves.

**Secretary's Report:**

Sent out minutes for Feb 2026. Need approval.

Jeff Larus KF0TSG moved to accept the Feb 2026 club meeting minutes as amended, and Roy Berke WA7TRR 2nds. Vote: none opposed, motion approved

**Treasurer's Report:** Chris Jaques KD0RAS provided the treasurer's report by email:

**Current Balances at Black Hills Federal Credit Union:**

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| Regular Share:      | \$5.20                                                       |
| High yield Savings: | \$4,097.49                                                   |
| Checking:           | \$2,038.08                                                   |
| 6 Month CD:         | \$8,209.28 matures in May 2026 (to be renewed for 12 months) |
| 12 month CD:        | \$8,209.29 matures in November 2026                          |
| Paypal:             | \$260.52                                                     |

**Disbursements cleared since last meeting:**

Feb SDSMT Room Rental \$25.00  
clubhouse electric 12/18/2025 to 1/18/2026 \$89.00  
Faith Lutheran \$122.00 (\$30 rental plus \$92 donation)  
Terry Van Vactor Auction \$11.70

**Dues/Donations/Receipts:** Total in \$202.00

Club Auction \$11.00  
Commission \$6.30  
Tables \$40.00  
Dues \$75.00  
Donations \$69.70  
Food donation \$92

**Pending Disbursements:**

Bob Parker Auction \$33.30  
Due to Auction Sellers \$45.00

Andy Pattantyus KF0ARA moved to approve the Treasurer's report, and Jeff Larus KF0TSG seconded, Vote: none opposed, motion approved

**Committee Reports:**

**Engineering/Technical Committee:** Mike Key K0MDK absent

Getting the WiFi back on line, we need a Ubiquiti passive POE power supply.  
Will be running it off Mike Key's home WiFi  
Chris brought extra Ubiquiti equipment  
Mike Moore reports two lines going up the tower  
Bob volunteered to climb the tower

**ARES Committee:** Ryan Lindblom KE0LXT reports:

No report.

**Public Relations and Recruitment Committee:** Don Kendall N1NOX (absent)

No report

**Activities Committee:** Larry Broomfield AC0WT and Delbert Long KD0AYN report

Larry Broomfield AC0WT and Delbert long KD0AYN updated the schedule

Delbert reports.

Meshtastic this month.

QSO Party

Boy Scouts

Mike Marion. Physics class wants to launch a large hobby rocket, and got a license. JOTA.

Rocket will be FT8 or APRS.

Delbert reports that Scott Rausch used to do JOTA.

Clubhouse cleanup

Rookie round up

Mystic will be July 12th

Heart of the Hills July 18th

Since the committee reports brought no action, there was no call for approvals.

### **Summary of Community Service Activities**

No community service activities since the February 2026 club meeting

### **Old Business:**

Chris reports on the new website, [w0blk.com](http://w0blk.com) forwards to [w0blk.org](http://w0blk.org)

### **New Business:**

Larry Broomfield AC0WT reports on a new class.

Books and exam changing in June

Shoot for a course starting in early September

Will be using ARRL materials.

Larry Broomfield AC0WT makes a motion for \$500 expenditure for ARRL books and materials.

Gary Peterson K0CX 2nds. Vote: none opposed, motion approved

Chris reminds us that we will charge the students for the materials, so we will recoup.

The program at the BHARC club meeting each month is education.

### **New Member Applications:**

Jay Roman. KD0ATQ. General Class, former members. Collins enthusiast, military background, film score composer in Los Angeles, Movies (Bull Durham, Star Trek, etc.

Sue Cole (Jay's girlfriend)

Greg Maxwell NT4TN, Expert Class, work is compression algorithms, 3DV, compressed audio, interest is exotic propagation, long time ago was EOC, recently moved to SD. Have equipment, but have not moved it yet.

Arie LeCroix, KF0LFB, Helicopter mechanic, likes the old stuff.

Ryan Jennings K0DR, ARRL member, VE, Mechanical Engineer, 2 years Meshtastic experience, interested in connecting Spearfish and Belle Fourche Meshtastic network to Rapid City Meshtastic network.

Gary Peterson K0CX moves to accept all new applicants, Larry Broomfield AC0WT 2nds, Vote: none opposed, motion approved

Jon Lambert KE9CAW is interested in membership. Vote on him next time.

### **Announcements:**

None

Website update responsibilities.

### **Adjourn:**

Gary Peterson K0CX moved to adjourn the meeting and Larry Broomfield AC0WT 2nds.

Vote: none opposed, motion approved

The meeting was adjourned at 7:33 pm.

### **Andy Pattantyus, KF0ARA**

BHARC, President and Acting Secretary

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### **Program - Arie LeCroix - Building a Power Supply**

Arie shows the historical power supply, which is not practical.

Solution: build your own power supply. Need 24 to 28 vdc with 100A startup, and 60A steady

Set out to build a home brew power supply.

Needed

1200 vdc

400 vdc

28 vdc

Will buy a 28 vdc supply for the filaments and relays and controls.

Will build 1200 vdc and 400 vdc.

Build in hotel room, out of aluminum, with nice meters and cockpit lights.

Where to get parts. Part of Radio Society of Tuscon. Joe helped out.

Did not understand RMS voltage, square root of two thru filter.

Capacitors were an issue. No options above 450 vdc. Electrolytics in series with balancing resistors. Bleeder resistors. Tucson has LA Electric, a huge surplus store, aircraft parts, scuba gear, and electronics. Awesome for ideas.

Used 2 pre-made chassis at right angles, and added gussets.

Unit has worked flawless for 2 years.

One problem, short to ground. Ammeter pegged. Smoke. 90 year capacitor in the transmitter.

Fused on high V and low V.

High voltage fuses were a problem.

Challenge to find the last of 4 panel meters.

Time delay, using old relays.

Middle light is a neon tube as a relaxation oscillator.

What about high voltage wire?

5000 v rated from Elliots.

Used junk pieces on fiberglass.

Work as a sheet metal technician for aircraft. Working on a back cover.

Relay for filament power, and the other relay for high voltage. Last relay is a fan delay.

Will put bleeder resistor on a separate hat sink.

Pi filter on both legs of the capacitor, not a good idea.

Next time, will use a choke input.

Help from Gary Peterson, Joe in Tucson, Henry in NV, George, Sammy in Sweden,

Full output? On 40m get about 150 W.

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