



# The Short Circuit

February 2020

since 1927

Volume 93, Issue 02

## Next Meeting

Breakfast at Think Café

Arnold "Arnie" Shatz  
N6HC

February 1<sup>st</sup>, 8 am  
at the Think Café

## Contents

- 1 ... February Program
- 2 ... Local Highlights
- 2 ... CW Corner
- 3 ... Special Event Stations
- 5 ... Calendar of Events
- 6 ... 2020 Application
- 7 ... URAC Executive Board
- 8 ... Important Notes

## Weekly Club Net

Join us on the URAC Club  
Net Thursdays at 8:00 P.M.  
145.510 simplex.

## K6AA monitors

Frequency 145.51 MHz

## Club Station K6AA

Website: [k6aa.org](http://k6aa.org)

The club station is located  
in the Los Angeles Maritime  
Museum and is open to club  
members during museum  
operating hours.

The January meeting of the United Radio Amateur Club will be held  
SATURDAY, February 1<sup>st</sup>, in conjunction with the *First Saturday Breakfast*,  
8:00 am at the Think Café (302 W 5<sup>th</sup> Street) in San Pedro.

## February Program



Arnold "Arnie" Shatz, N6HC, has been licensed for 63 years, earning his Extra Class ticket in 1976. A resident of Orange County and a retired Board Certified Urologist, his affiliations include more than 60 years of ARRL membership with inclusion in the ARRL Legacy Circle, membership in the Northern California DX Foundation (NCDXF), Southern California DX Club (SCDXC), Orange County Amateur Radio Club (OCARC), Medical Amateur Radio Council, Ltd. (MARCO) and Chiltern DX Club (CDXC – UK). He is a Volunteer Examiner (VE) and ARRL / CQ awards Field QSL Card checker. He serves as station Trustee for the Dorothy Grant Elementary School Amateur Radio Club (K6DGE) in Fontana, CA. He enjoys operating HF, CW, SSB, digital modes and VHF/UHF/microwave contest roving. He is an active contestor, DX

chaser and DXpeditioner. He has earned DXCC #1 Honor Roll status (Mixed/Phone) and Honor Roll

Member Newsletter of the United Radio Amateur Club, Inc.



status (CW), DXCC (RTTY), 9 band DXCC and WAZ (CW & Phone). Since 2005, he has been a team member and medical consultant on 14 major Dxpeditions to many exotic and uninhabited islands in the North and South Pacific, Indian and Southern oceans. He has been a featured speaker at numerous amateur radio clubs and conventions around the country.

## Local Highlights

Seen at the Cabrillo Marine Aquarium Whale Fiesta: URAC was well represented by several generations of Meeks, Janet and daughter, and Homer K6HKT. We were in a great spot and ran out of Certificates (for Morse Code) and many brochures.



## CW Corner



### Croatian Telegraphy Club

E-mail [ctc@hi.ht.hr](mailto:ctc@hi.ht.hr)

Web [www.cw-ctc.com](http://www.cw-ctc.com)

Croatian Telegraphy Club invites you to become a member and welcomes membership applications (name, call sign and wish to become a member) from telegraphy lovers across the world .

If the application is submitted by E-mail no fee is required and membership is free because it is the Club's principle of supporting CW which is far more important than any financial consideration .

Take a look at <http://www.cw-ctc.com>

## The Electromagnetic Telegraph

by J. B. Calvert

A technical history of the 19th-century electromagnetic telegraph, with special reference to the origin and variety of the alphabets, or codes, that were used.

This paper began as an investigation into the circumstances of the origin of the International Morse Code, and how it was descended from the American, or Vail, Morse Code. This was

satisfactorily done, showing that the usual Morse Code was the adaptation of the original code to the requirements of the German language around 1851. The scope was then broadened into the early history of the telegraph in continental Europe, which is not well-known to British and American technical historians, and has consisted mainly of isolated references, erroneous dates and partial understanding. This revealed the



important role of K. A. Steinheil as a telegraph pioneer, and, later, as a proponent of the Morse system in Europe. This led to an investigation of the actual contributions of Morse and Vail to the telegraph, and its early days, which has been considerably obscured by the just reverence for Morse as a man. To make this clearer, I decided to include the technical background for the electromagnetic telegraph, and to show how the various elements work together, and were realized in practice. Finally, having done this, it seemed interesting to trace the history of the telegraph in the United States lightly to point out the relations with railway operation, military communications, and other classic applications.

#### Contents

- Electromagnetic Fundamentals of the Telegraph
- Invention of the Telegraph
- Morse and Vail's Recording Telegraph
- Cooke and Wheatstone's Needle Telegraph
- Bain, House and Other Telegraphs
- Continental Developments
- The Telegraph Line: Batteries

- The Telegraph Line: Wires
- The Telegraph Line: Insulators
- The Telegraph Line: Poles
- The Telegraph Line: Miscellaneous Fittings and Weather
- The Telegraph Line: Construction and Costs
- Units and Measurements
- Relays, Repeaters, Duplexing and Quadruplexing
- Receiving by Ear
- Telegraphic Personnel and Procedures
- Railway Telegraphs
- Military Telegraphs
- District Telegraphs
- Underwater and Long Distance Telegraphs
- Later Uses of the Morse Code
- Comparison of Alphabetic Telegraph Codes
- Outstanding Questions
- American Manufacturers of Telegraph Equipment in 1870
- Telegraph Relics in the Science Museum, London

<http://mysite.du.edu/~jcalvert/tel/morse/morse.htm>

## ***Special Event Stations - February***

- 02/01/2020 I Biathlon World Championships 2020 Feb 1-Feb 29, 0001Z-2359Z, I13BIA, Antholz South Tyrol, ITALY. ARI Sektion Bruneck. CW, SSB, and digital; 160, 80, 40, 20, 15, 10, 2 meters; 70 centimeters; 23 centimeters satellite Es'Hail 2 QO-100. QSL. Via bureau or direct to: ARI Sektion Bruneck, Montal 25, 39030 Bruneck/St Lorenzen, ITALY. [www.ari-bruneck.com](http://www.ari-bruneck.com)
- 02/01/2020 I Groundhog Day Special Event Station Feb 1, 1400Z-2100Z, K3HWJ, Punxsutawney, PA. Punxsutawney Amateur Radio Club. 14.330 7.235. Certificate. Stephen Waltman KB3FPN, 37 Clark St, Brookville, PA 15825. [punxclub.com](http://punxclub.com)
- 02/01/2020 I JY1 Special Event Memorial Station 2020 Feb 1-Feb 29, 0000Z-2359Z, N9SES, Lake Station, IN. Arab QRZ Club. 3.25-3.50 7.025-7.050 10.103-10.110 14.252. QSL. Ayman Azar, 2861 Decatur St, Lake Station, IN 46405. [www.n9ses.com/?page\\_id=18](http://www.n9ses.com/?page_id=18)

- 02/01/2020 I Shuttle Columbia Special Event Feb 1-Feb 2, 1500Z-2300Z, K5C, Nacogdoches, TX. Nacogdoches Amateur Radio Club. 14.260 14.174 7.220 7.174. QSL. Nacogdoches Amateur Radio Club, 167 County Rd. 2093, Nacogdoches, TX 75965. All contacts will be confirmed via LoTW. QSL requests must include SASE. [w5nac.com](http://w5nac.com)
- 02/08/2020 I Lee/Jackson Feb 8, 1600Z-2300Z, N4SCV, Gainesville, FL. Sons of Confederate Veterans Camp 1424. 14.240 7.224. QSL. Madison Starke Perry Camp 1424, P.O. Box 998, Alachua, FL 32616. <https://www.gatorscv.com/events>
- 02/08/2020 I USS Midway Museum Ship Special Event; Mt Surabachi Flag Raising Feb 8, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250 PSK31 14.070 DSTAR REF001C. QSL. USS Midway Museum Ship COMEDTRA, 910 N Harbor Drive, San Diego, CA 92101.



- 02/12/2020 | 2020 Daytona 500 Feb 12-Feb 16, 0000Z-2359Z, N4DAB, Daytona Beach, FL. Daytona Beach CERT Amateur Radio Team. 14.255 14.076 7.255 7.076. Certificate & QSL. Steve Szabo, 536 Central Park Blvd, Port Orange, FL 32127-1136. n4dab.com
- 02/15/2020 | 15th Annual Eagle Expo Feb 15, 1600Z-2100Z, W5BMC, Morgan City, LA. Bayouland EM Amateur Radio Society BEARS. 14.260 7.260. QSL. Jackie Price, 708 Front St, Morgan City, LA 70380.
- 02/15/2020 | 16th Annual "Freeze Your Keys" Winter Operating Event Feb 15, 1400Z-2200Z, W0EBB, Leavenworth, KS. Kickapoo QRP Amateur Radio Club. 14.058 CW 14.325 SSB 7.035 CW 7.240 SSB. QSL. Gary Auchard, 34058 167th Street, Leavenworth, KS 66048. SASE required for return of a QSL card. w0mna74@gmail.com
- 02/15/2020 | George Washington's Birthday Feb 15-Feb 16, 1500Z-1700Z, K4US, Alexandria, VA. Mt. Vernon Amateur Radio Club. 14.260 14.074 7.040. Certificate. MVARC, P.O. Box 7234, Alexandria, VA 22308. www.mvarc.org
- 02/15/2020 | Ice Station W0JH (Frozen Lake Portable) Feb 15-Feb 17, 1600Z-2300Z, W0JH, Stillwater, MN. Stillwater (MN) Amateur Radio Association – SARA. 21.360 14.260 7.260 3.860. Certificate. Shel Mann, N0DRX, 1618 Pine St. West, IceStation2020@radioham.org, Stillwater, MN 55082. W0JH is operating portable from a frozen lake in Washington County, Minnesota (Grid Square EN34). In a meager attempt to drive away the remainder of Minnesota winter, the Stillwater Amateur Radio Association (SARA) will be generating as much RF as possible over the President's Day long weekend. The club's youth are planning to independently operate throughout the event. Certificates will ONLY be sent via email in PDF format. (Send requests with standard QSL confirmation info to: IceStation2020@radioham.org).

There is no need to send a QSL card. Info: W0JH at <http://www.QRZ.com> & <http://www.Radioham.org> [www.radioham.org](http://www.radioham.org)

- 02/15/2020 | WHOA/SCOTA Feb 15, 1400Z-2000Z, W1M, Russell, MA. Western Mass Council Scouting USA. 14.290 14.060 7.190 7.060. QSL. Tom Barker, 329 Faraway Road, Whitefield, NH 03598. Paper logging is used—there will be a delay in sending out qsl cards—sase required
- 02/17/2020 | SES H L Hunley Commemorative Station N4HLH Feb 17, 1400Z-2100Z, N4HLH, Charleston, SC. Trident Amateur Radio Club. 14.262 USB 7.262 LSB 7.117 CW. QSL. Larry Gatton, PO Box 60732, Charleston, SC 29416. tridenthams.org/hunley.htm
- 02/21/2020 | George Washington's Birthday Feb 21-Feb 23, 2359Z-2359Z, WS7G, Moses Lake, WA. Columbia Basin DX Club. 14.255 7.222 3.855. QSL. Brian Nielson, 11650 Road 1 SE, Moses Lake, WA 98837. cbn.homestead.com/WS7G.html
- 02/22/2020 | Titan Missile Museum Feb 22, 1600Z-2100Z, K7T, Tucson, AZ. Oro Valley Amateur Radio Club. 7.040 CW 14.040 CW 14.250 USB 18.100 FT-8. Certificate. Email , qsl@TucsonHamRadio.org, No paper QSL's please.. www.TucsonHamRadio.org
- 02/26/2020 | Snowbird Field Day Feb 26, 1500Z-2100Z, W7ASL, Mesa, AZ. Sunlife ARC. 14.230 7.200. QSL. Tom Goforth, 4324 E Dragoon Cir, Mesa, AZ 85206. Please see the website for the most up to date information. <https://www.sunlifearc.org/index.php/events/2-uncategorised/28-snowbird-field-day>
- 02/29/2020 | "2019 Rare Disease Day" Special Event Feb 29, 0000Z-2359Z, WA4CZD, Sparta, TN. WA4CZD. 14.246 7.246 7.115. QSL. Jill Dybka, WA4CZD, 7737 Sprata Hwy, Sparta, TN 38583. QSL to home call of WA4CZD including via BURO. Also using LoTW.

.....[http://www.arrl.org/special\\_events/search/page:2/model:Event](http://www.arrl.org/special_events/search/page:2/model:Event)

## **February Calendar of Events**

~ February 2020 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						<b>1</b> URAC First Saturday Breakfast and Membership Meeting: 8 am Think Café, San Pedro
<b>2</b> <b>GROUND HOG DAY</b> 	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b> URAC 2M Simplex Roundtable: 8 pm., 145.510 MHz	<b>7</b>	<b>8</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b> URAC 2M Simplex Roundtable: 8 pm., 145.510 MHz	<b>14</b> Valentine's Day 	<b>15</b>
<b>16</b>	<b>17</b> 	<b>18</b>	<b>19</b>	<b>20</b> URAC 2M Simplex Roundtable: 8 pm., 145.510 MHz	<b>21</b>	<b>22</b>
<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b> URAC 2M Simplex Roundtable: 8 pm., 145.510 MHz	<b>28</b>	<b>29</b>

## 2020 URAC Application

The 2020 URAC Application is found online at <http://k6aa.org/join-urac/> (note the PayPal link). It is a fill-in format and may be completed on the computer, including an electronic signature, and submitted either in person, postal, or (with electronic signature) via email.

Dues have not changed for 2020, they remain at \$20 (Individual) and \$25 (Family).

There are now four methods for payment of dues:

1. Cash at any regular meeting.
2. Check, either in person or by mail (address is on the application)
3. PayPal “send money” ... the email address is [dues@k6aa.org](mailto:dues@k6aa.org)
4. PayPal Link on our webpage <http://k6aa.org/join-urac/>

## 2020 URAC Executive Board

PRESIDENT  
Ivan Mikulich  
KB6ATT

[kb6att@k6aa.org](mailto:kb6att@k6aa.org)



VICE-PRESIDENT  
John Linder  
KC6JHV

[kc6jvh@k6aa.org](mailto:kc6jvh@k6aa.org)



SECRETARY  
Janet Meek

[janme711@hotmail.com](mailto:janme711@hotmail.com)



TREASURER  
Gary Forister  
N6HMR

[n6hmr@k6aa.org](mailto:n6hmr@k6aa.org)



DIRECTOR  
Larry Fadden  
KK6TXN

[kk6txn@k6aa.org](mailto:kk6txn@k6aa.org)



DIRECTOR  
Steve Mandich  
K6NT

[k6nt@k6aa.org](mailto:k6nt@k6aa.org)



DIRECTOR  
Homer Meek  
K6HKT

[k6hkt@k6aa.org](mailto:k6hkt@k6aa.org)



DIRECTOR  
John Rockwood  
WA6SDK



PAST-PRESIDENT  
Sam Lollar  
K1SL

[k1sl@k6aa.org](mailto:k1sl@k6aa.org)



NEWSLETTER  
EDITOR  
Scotty Butler  
K6ZNL

[k6znl@arri.net](mailto:k6znl@arri.net)

WEBMASTER  
Tom Marinello  
K6IGY

[k6igy@k6aa.org](mailto:k6igy@k6aa.org)



## IMPORTANT NOTES

**K6AA Station** We can still use more operators for our K6AA station. See Doug, W6HB, and or Scotty, K6ZNL, for training and checkout.

Check out the special events page on [k6aa.org](http://k6aa.org) for the latest from arrl and e-ham net.

### *Additional Calendar Notes*

#### **Club Roundtable**

Held weekly on  
Thursdays at 8pm  
145.510 Simplex

#### **Club Meeting**

Held monthly on the 1<sup>st</sup>  
Saturday of the month in  
conjunction with our ...

#### **No Host Breakfast**

Held monthly on the 1<sup>st</sup> Saturday  
of the month at 8:00am.  
Location: Think Café on 5<sup>th</sup>  
Street in San Pedro

### **“VE/CE Session for Amateur and Commercial Licenses**

Monthly on 1<sup>st</sup> Saturday **by appointment**. Go to <http://k6aa.org/licensing-exams/> If no one schedules an exam, there won't necessarily be an exam team or exam material available.



The Museum is at the Foot of 6<sup>th</sup> Street.

