



# Mike Shy

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Salvation Army - Norridge

Oct 25th, 7:30 PM

The global cyberwar is heating up and the stakes are no longer limited to the virtual world of computers. Now, thanks in part to secret documents released by Edward Snowden, the true scale of the National Security Agency's scope and power is coming to light. Besides spending billions of dollars to ingest and analyze the worlds' electronic communications, the NSA has set out to dominate a new battlefield—cyberspace. NOVA examines the science and technology behind cyber warfare and asks if we are already in the midst of a deadly new arms race. Already, highly sophisticated, stealthy computer programs such as the notorious Stuxnet worm can take over and even destroy the control systems that regulate everything from food factories to gas pipelines, power plants, and chemical facilities—even our cars. While the destruction of Iranian centrifuges may have delayed Iran's bomb program and forestalled an Israeli attack, the attack has opened a Pandora's Box, and now America's own critical infrastructure is vulnerable to retaliation and attack. With leading defense experts and investigative journalists who have probed the murky realm of criminal and strategic hacking, NOVA examines the chilling new reality of cyberwar in which no nation or individual is safe from attack.

## President's Message

Not too much to report this time. Went to the CFMC Hamfest and came home empty. Just wanted a crossed needle HF SWR bridge but couldn't find one. I also struck out on double ended SO-239 about 4 to 6 inches long. Maybe I will find them at Wheaton in January. I saw Baofeng HTs are up in price since the FCC stopped importation because they do not meet specifications.

The board met and we picked out a place to have our Holiday dinner. It will be a Chinese Buffet this time, details will be in the next Mike-Shy.

The Repeater will be used for the Bank of America Chicago Marathon on October 7th, 2018. They have requested 5am to 5pm for its use. It is usually used for communication from medical checkpoints to net control. Please mark this in your calendar.

That's it for now. 73 DE WA9EVF

SRO Notes for August 9, 2018 (*Or: Field Day on the road. OLEDs in your pocket.*)

By Jim Hawes AA9DT

TONIGHT'S MEETING takes place at the Norridge Citadel. Hamcho Mike

Leibovitz raises his scepter, sounds the bosun's call, and brings down his gavel.

The meeting opens at 8:02 pm. All Citadelphians form a circle and strut once

around the table, reciting the SRO oath: Dah—dah—dit! Then they reverse directions and repeat the oath backwards: Dit-dah-dah! Having repeated the initials of the first president of SRO, George Washington, we sit down. George used Ben Franklin's HT to command troops in the pivotal 1781 battle of Yorktown. Or George would have, had Franklin invented the HT yet. Instead, when George asked Ben for an HT, Franklin told him to "go fly a kite."

WELCOME to SRO, Joe Kowols KB9KSE! Son of long-time board member and SK Gil Kowols WA9BUB.

TREASURER'S REPORT. Exalted Chamberlain Mike Brost WA9FTS offers details of the club's finances. The club remains solvent. Details will be available at the next club meeting.

EVF'S FIELD DAY RIG. Mike Leibovitz WA9EVF described his recent Ham Radio Field Day on the road. During his family trip out West, Mike operated over a 43-foot, bumper-mount antenna. The local terrain helped, too. In places, the town elevation rose as high as 12,034 feet.

RIG DETAILS. In theory, the antenna guy lines would be effective in 40-mile-per-hour winds. Mike tuned this antenna for the 80, 40 and 20-meter bands. He wore an aircraft headset that eliminated external sound. This headset includes a boom microphone. He keyed the radio manually with a PTT switch. Mike logged calls with paper and pencil. Twelve-volt marine batteries powered Mike's rig. The batteries allow deep discharge, and can provide a full day of power.

ALL CONTACTS were on voice mode. Mike used single sideband modulation on the LSB for 40, and USB for 20 meters. Due to superb skywave propagation on the band, Mike's 20-meter contacts worked out best. Mike's contacts overspread 13 states and two countries.

TONIGHT'S PROGRAM is "Dogfights: No Room for Error." The video combines archive film footage and computer simulations to recount stories of fighter pilots.

THE DECEMBER PARTY will be at Hibachi Grill in Elk Grove Village. The charge for guests is \$20 each.

OLED DISPLAYS. Coming to a cell phone or TV near you: An OLED display. (Short for organic, light-emitting diode.) That liquid crystal screen that you have now doesn't really produce light. Instead, it variably blocks light from a backlight. In an OLED display, each dot on the screen emits light.

BRIGHT, CONTRASTY. Because of the direct light output, an OLED display is bright and contrasty: Even in sunlight. OLED technology permits deep, black backgrounds: When a pixel goes dark, the OLED shuts down: Black as night. The same isn't true for an LCD pixel, since the LCD backlight remains on.

HOW OLEDS WORK. The panel forms a picture by lighting or dimming millions of dots. Three dots, one for each primary color, make up each pixel. In fact, each OLED pixel is a sandwich. The outside layers are two electrodes, an anode and a cathode. Between the electrodes are organic compounds: An emissive layer and a conductive layer. A current across the electrodes causes a pixel to emit light.

ADVANTAGES. An OLED offers advantages over an LCD display: (1) Thinner and lighter. (2) Higher contrast. (3) Lower power. (4) wider viewing angle. (5) Faster response time. (6) Screen can be flexible. (7) Durable: Can manufacture from shatter-resistant plastics, instead of glass. (8) Can stack to make color OLED with higher resolution than side-by-side dots in LCD.

DISADVANTAGES. OLED colors don't hold up as long as LCD colors. (Especially true of OLED blue.) Water can damage the OLED colors. But sealing the display in glass or plastic eliminates this problem.





## Foxhunt Report



CFAR 2M Foxhunt -

Sep 1st, 2018 by Mike WA9FTS Fox: Matt KC9SEM, Patty, N9PLS, Mike WA9FTS, Jacob, Mac

We headed out to Batavia with a 2m amp, poles, J-Pole antenna to find a tricky spot for the hunters to find us. That place was north of the West Batavia Cemetery and west of the Fox River. The only way in to us was a road off Rt 31. We were in a parking lot past a sand pool that was emptied for the end of the summer. We set up the J-Pole up about 20ft. All three hunt teams heard us with a direction to the SW. Three teams were released at 8:03PM. At 8:45 Tom arrived for the win. Tom took Rt 88 to 31 and in to find us - great route! We told him that Pal Joey's at Main and Randall Rd was the meeting spot after the hunt. At 8:53, we spotted John on foot heading to us to claim 2nd. After an hour, we announced the restaurant. At 9:17 Pete and John drove up to end the hunt.

Results:

1. Tom N9CBA - 8:54PM
2. John WD9EXW - 8:54PM
3. Pete K9PW, John K9JK - 9:17PM





## Foxhunt Report

CFAR 2M Foxhunt - Oct 6th, 2018

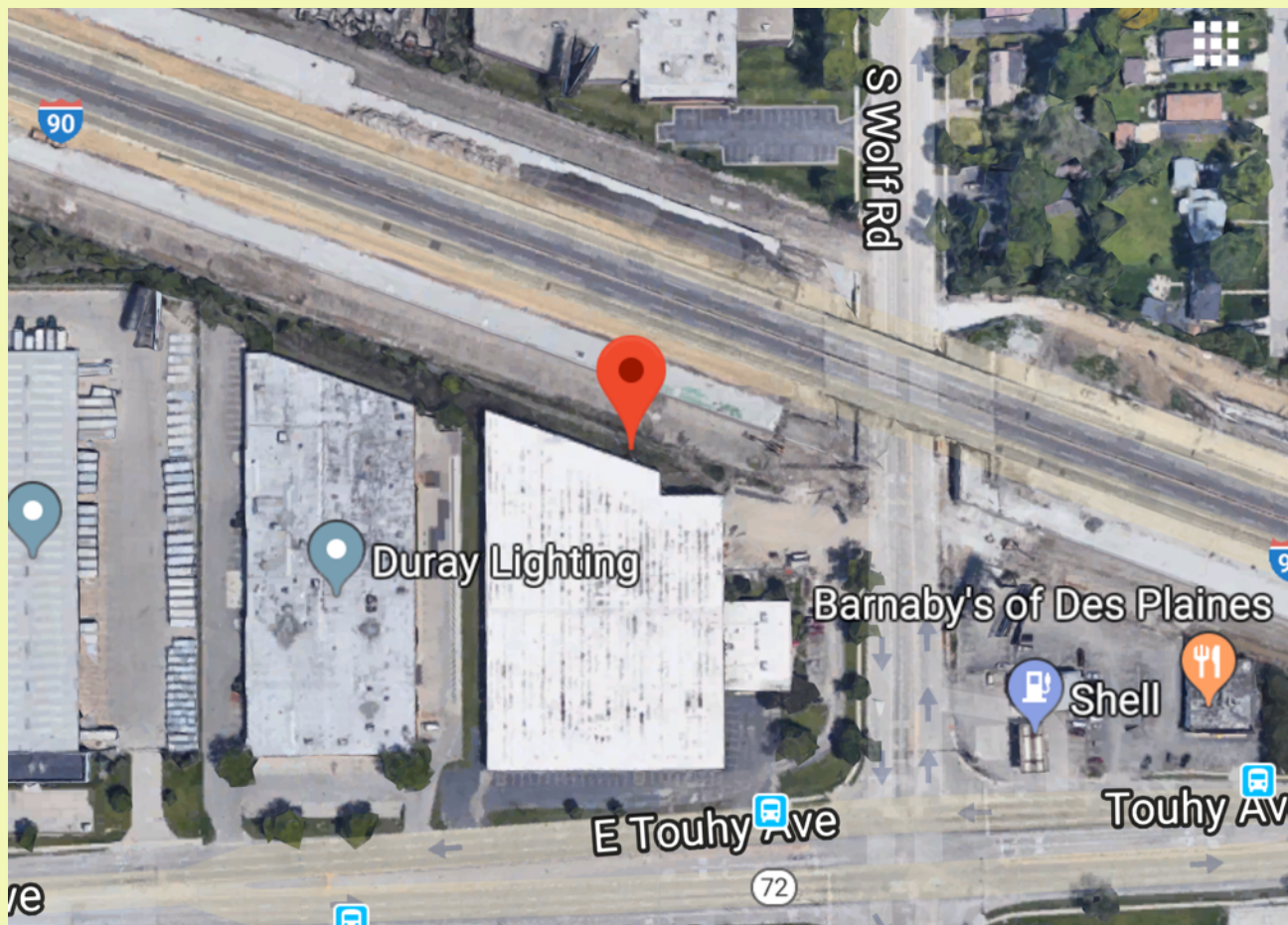
by Mike WA9FTS - Fox Tom N9CBA



Was it going to rain? Was Tom going to be in his car or outside in the weeds? We had 4 hunt teams ready to find out. At the start, only 1 team heard Tom. Changes were made as later we found out Tom was increasing his power. Finally all 4 teams heard and we were off to the NE. Matt's team took 83 north to Higgins east which became Touhy. John and Janet took Oakton east. As we past Barnaby's at Wolf, Matt thought that was a favorite place for Tom to pick. We drove further was and found out that Tom was behind us. We took a side street west and then south - Oh! Oh! The street taking us back to Touhy was under construction and a neighbor was blocking us. After a few minutes he came out and moved so we could continue. We though Tom was north of I90 and Wolf. We checked out the streets and dead ends as did John and Janet. No, he was south of I90. We checked out the parking lot next to Duray Lighting and across from Barnaby's. I got out to wait for a transmission with my portable gear. Tom was behind the building as I got a 6 and then a 7 on my portable gear. Matt quickly joined me as the signal pointed to the building and Matt saw the pole and antenna - a tape measure beam up about 20ft. Tom was covered under weeds and we were surprise to be the first to find him. Matt went back to get Jacob and Mac to also see their grandfather. We left to see John round the building and momentarily walk past between transmissions and then quickly back to find Tom for 2nd. It was time to go to Barnaby's and secure tables for the group. Shortly Marty, Bill, Pete, John and Tom arrived. Tom told us he upped his power from 5w gradually to 80 w. The building blocked the signal to the starting point to the south and the beam was east-west. Results:

1. Matt KC9SEM, Patty N9PLS, Mike WA9FTS, Jacob, Mac
2. John WD9EXW, Janet
3. Marty N9LTE, Bill
4. Pete K9PW, John K9JK





## Meeting Attendance



Regular Meeting  
Salvation Army - Norridge  
Aug 9th, 2018

Mike WA9FTS  
George W9GFH  
Pete WB9P  
Danny KD9HIL  
Joe KD9KSE  
Mike WA9EVF  
Jean KB9FXL  
Jim AA9DT



**If you move, let the Editor know your new mailing and email addresses. It is our way of getting Mike Shy to you each time.**

## Holiday Party

Location and date  
will be announced  
next month.

All SRO members are  
invited.

**CFMC Upcoming Regular  
Meetings - 16th District  
Police Station**

**5151 N Milwaukee Av,  
Chicago - Wed Nov 22nd-  
7:30 PM**



### SRO Officers

President  
Mike Leibovitz - WA9EVF  
Vice President  
Jean Pressel - KB9FXL  
Secretary  
Jim Hawes - AA9DT  
Treasurer  
Mike Brost - WA9FTS

### SRO Directors

Don Moriarty - W9RA  
Jon Tammen - K9IQF  
Jean Pressel - KB9FXL

### Mike Shy Staff

Editor/Circ. Mgr.  
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708-457-0966 Voice

Mike Shy is published 6 times a year by the Society Radio Operators. Deadline is 2 weeks before the meeting. Contributions are welcome & should be sent to the Editor.

### Regular Meeting Place

Salvation Army every even month at 7:30 PM unless other-wise indicated in Mike Shy and SRO web site. Check for exact date & time.

### Standing Committees

Membership - WA9FTS  
Program - AA9DT  
Meeting Refresh. - KB9FXL  
Foxhunting - WA9FTS  
Repeater - K9IQF  
Field Day - WA9EVF  
Education - WA9EVF  
Mike Shy - WA9FTS  
Picnic - WA9FTS  
Christmas / Hanukkah Party - WA9EVF  
Webmaster - WA9FTS

### SRO Web Site

[www.w9sro.org](http://www.w9sro.org)  
Mike Brost - WA9FTS

### SRO Repeaters

	In	Out
CFAR (107.2) PL	147.750	147.150
TOOFAR (110.2) PL	223.260	224.860

### Repeater Personnel

Trustee - WA9EVF  
CFAR Chairman - K9IQF  
Site Maintenance  
K9IQF, W9RA & W9BEA  
Control Operators  
K9IQF, TBD  
NW Maintenance  
W9JEM  
Northeast Maintenance  
K9IQF & TBD  
Lisle Maintenance  
W9AEK

**Regular meetings** - Salvation Army  
- 8354 W Foster Av, Norridge

**Board Meetings** - Every 5th  
Thursday

## Mike Shy

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First Class Mail



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