



Mike Shy

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May - June 2016

How We Got To Now -
Sound
Steven Johnson

Thurs June 9th at the
Salvation Army
8354 W Foster Av
Norridge - 7:30PM

The ability to transport our voices over long distances has been one of the greatest transformations in how we live our lives. Innovation expert Steven Johnson traces the unsung heroes of sound, like the printer in France who first recorded the human voice, the maverick inventor who made radio possible through a mistake and the Hollywood star who used the keys of the piano to inspire encrypted messages. Together they helped set off a chain reaction of innovations which have shaped the modern world.

President's Message

Well I am back from Dayton.

I had a good time at the Dayton Hamfest, having first visited Wright-Patterson Air and Space Museum. They are almost complete on the Fourth building and it will open this month. Cal (WA9KLF) and I also visited Huffman Field where the Wright Brothers did their flying and training of pilots.

My big purchase was a Motorola XTS 5000 APCO 25 handy talkie and a SDR Receiver.

The SDR receiver is quite interesting and easily integrates with my laptop. It receives from 100 KHz to 2 GHz. It worked well in the hamfest parking lot with just a hunk of wire. It worked fine as a spectrum analyzer as well as a receiver. Things were different when I got home. Turns out the AM Radio station on 1590 which is 1/4 mile from my house is either overloading my front end or it has a light of spurs, while quite a bit below the transmitted signal they are enough to cause me problems. I will need to build a front end notch filter, and a high pass filter to see if that helps.

This months entertainment will be: How We Got To Now - Sound (Steven Johnson: Ultrasound, vacuum tubes, radio, talkies).

Hope to see you there Mike WA9EVF

SRO Notes for April 14, 2016 (Or: A Penny for Your Thoughts)

by Jim Hawes AA9DT



TONIGHT'S MEETING opens with a smart blast of the ringmaster's whistle. Doffing his jaunty, black top hat, Ringmaster Mike Leibovitz WA9EVF calls the circus to order. It's 8 p.m., right on the seal's nose. (Throw him a fish! Thanks. He's clapping his fore-flippers.)

TREASURER'S REPORT. The club is solvent. Bountiful Bursar Mike Brost WA9FTS will present details to members at our next general meeting. The meeting takes place on Thursday, June 9 at 8 p.m. Members who are considering endowments to the club should liquidate all assets. >>> For amounts up to \$100, you'll receive VIP, no-wait service. Just bring your assets to the general meeting. Present them to friendly Mr. Brost or his lieutenant. (In the minutes, I'll even mention your name and the bequest total.) >>> For amounts between \$100 and \$5,000, please call Mr. Brost during business hours for a personal appointment. >>> For amounts between \$5,000 and \$250,000, Mr. Brost will see you anytime, day or night. >>> For amounts in excess of \$250,000, all the way to the sideways figure eight thingy: Mr. Brost, an IRS agent, and eight paratroopers will converge on your compound.

NEW BUSINESS: FIELD DAY. President Leibovitz asks if members are interested in participating in Ham Radio Field Day. The event will be in late June. One member expresses an interest. Mike then reiterates some basic club policies on Field Day organization: SRO doesn't undertake the competition unless the club signs up at least six volunteers. Mike explains that Field Day requires people: SRO club officers don't \present// Field Day. Instead, club members *volunteer* for Field Day assignments.

FIELD-DAY PERSONNEL include: Code operator, voice operator, logger, refreshment procurement coordinator, setup-takedown crew, cooks, and cleanup staff. An engineer who tests and certifies equipment before installation and oversees proper installation is helpful. Someone also writes a press release and distributes it to the local media. This release might also go to local scout troops, inviting a Field Day visit. Each task has ongoing responsibilities over the 24-hour term of Field Day. In past years, a Field Day chairman has guarded the SRO shelter, radios and supplies overnight.

FIELD DAY ESSENTIALS. Field Day is a technical event that requires various equipment: The necessary equipment includes keys, radios, antennas, a mast, and microphones. There will also be some means of generating and conveying power to the radio equipment. We need a waterproof shelter for a day. Many times, there are thunder storms during Field Day. At night, participants need a safe, quiet, private place for sleeping bags. (For previous Field Day events, SRO set up camp in Park Ridge and Skokie.)

DECISION ON FIELD DAY. After Mike's recitation of Field Day guidelines, his call for volunteers receives a thunderous silence. (But it's unanimous.) There will be no SRO Field Day in 2016.

TONIGHT'S PROGRAM is our spring auction. Mike Brost and other vendors "auck" their wares. (Sorry.) Here are some of the items that sell tonight: (A) Cup holder \$2. (B) "Father Xmas" doll \$2, buyer: KB9FXL. (C) Guitar practice amp \$2, buyer: AA9DT. (D) Thermometer. (E) USB laptop with Ethernet \$2, buyer: WA9EVF. (F) Amplified speakers, \$2. (G) Napkin holder, buyer: Peter; seller: N9FA.

Foxhunt Report



CFAR 2M Foxhunt - May 7th, 2016 by Mike WA9FTS - Fox - Matt KC9SEM, Mike WA9FTS, Bill, Jacob - Patty N9PLS & Mac in the truck

Four hunt teams heard the fox with a strong enough signal to start the hunt at 8:06PM. The weather was great with Friday being perfect and Saturday starting out cold and windy. By hunt time, the temp was comfortable and calm. Earlier Matt, Patty, Jacob, Mac and I headed out to find a hiding spot and a munch spot that was close by and open to at least 11PM. Bill arrived and we found a wooded area north of Ogden Rd off River Rd near the West Branch DuPage River Trail. We pulled into a parking lot and took our poles, 3 el tape measure beam, radio and fully-charged battery with us. Off a path we found a large tree with plenty of room to sit under and a fallen tree to prop up our antenna. With the antenna up around 15 ft and about 70w of power, we started the hunt. Around 8:38 we saw a flashlight and then it went toward the river and disappeared. At 8:48, John returned quickly for the win. John and Janet took 83 to 88 and off on Winfield Rd to Diehl and on to River - a great route! Later two flashlights appeared, each going to either side of us. Which hunter would make it to us for 2nd? At 8:57, Pete showed up to claim 2nd and 45 sec later Tony found us. It took another 8 min and Don K9VGJ, who has not been seen on a hunt for several decades, came upon us to end the hunt. We went to Braconi's down the road on Ogden. Tony, who earlier in the day, biked 700 miles (Wow!) was very tired so Joan and he went home to rest up. Results:

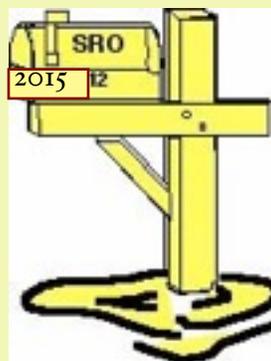
1. John WD9EXW, Janet
2. Pete K9PW
3. Tony AA9CC, Joan KC9QQY
4. Don K9VGJ, Tom N9CBA



Meeting Attendance



Mike WA9FTS	Fay N9FA
Jim AA9DT	Pete WV9P
Wanda KC9LRZ	Walter AE9N
George W9GFH	Chris KC9TAT
Jean KB9FXL	Tom KC9VIY
Mike WA9EVF	Frank K9KTW
Len N9LEN	



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.

Upcoming Hamfests

Six Meter Club - Sunday June 19th
DuPage County Fairgrounds, Wheaton IL
For info: www.k9ona.com

Fox River Radio League - Sunday July 10th
Aurora Central Catholic HS - Aurora IL
For info: hamfest@frrl.org

Spring Auction

April 14th at the Salvation Army - Norridge



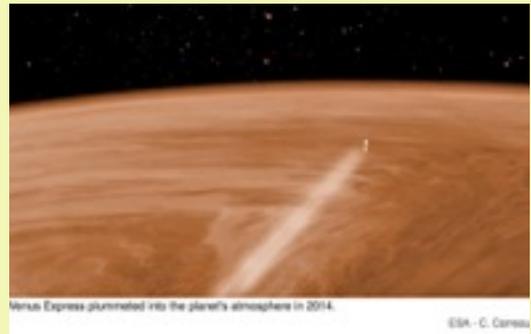
BUS DRIVES OVER TRAFFIC. Chinese engineers designed an electric "Land Airbus" that is two lanes wide. The gigantic bus will travel on standard roadways, but operate on stilts, directly over cars. Bus passengers will ride on the top level. Cars (not trucks) could pass underneath the moving bus. Tracks along guardrails would keep the bus following the road at up to 37 miles per hour. The bus may have several coaches and carry 1,400 passengers. The carbon footprint of this leviathan is quite reasonable. See: www.foxnews.com/leisure/



by Jim AA9DT

ESA Finds a Frigid Surprise Hiding at Venus' Poles

Venus may be boiling hot, but its poles are very, very cold.



April 20, 10:05 A.M. CST: This post has been updated with comments from lead author Ingo Müller-Wodarg.

Thanks to a thick layer of cloud cover trapping in heat, Venus is the hottest planet in our solar system, with temperatures boiling over at 850 degrees Fahrenheit (454 C). But in a study published last week in *Nature Physics*, the European Space Agency found something surprising at the planet's poles: temperatures more frigid than anywhere on Earth.

Even though ESA lost contact with the Venus Express probe two years ago after it ran out of fuel, the agency is still working through the data it returned. As the first spacecraft to explore our nearest neighbor since 1989's Magellan mission, the probe revealed much about that world. Many of the observations were made through plunging the craft into the atmosphere above the poles, where the probe encountered an atmosphere thinner than previously modeled, and filled with choppy atmospheric gravity waves, ripples caused by transfers of momentum between layers in the atmosphere.

“Concerning uniformity — models are mostly rather smooth while the reality is much more complex and structured,” ESA scientist and lead author Ingo Müller-Wodarg of Imperial College London said in an email to *Astronomy*. “We found enormous variability in the atmospheric densities that is explained by a combination of local (horizontal) day-night density variations but above all by strong periodicities, atmospheric waves. These are not captured by models.”

This marks the first time the poles of Venus have been directly studied, owing to Venus Express' circumpolar orbit, which also allowed a global view. By crashing the probe through these winds on its final descent, the probe made the first ever in-situ observations of polar climates on Venus.

The Japanese Aerospace Exploration Agency has a probe in orbit around Venus called Akatsuki, but it will mostly study the climate closer to the planet's equator, hoping to determine what caused the runaway greenhouse effect. Müller-Wodarg pointed out in his email that previous atmospheric models relied on equatorial data from the Pioneer Venus mission, which led to incorrect uniformity modeling of the atmosphere. NASA is mulling several missions as part of its Discovery program, one of which, VERITAS, will map the entire surface of the planet, and could tell us more about the geology of the poles.

Müller-Wodarg added that there may be some relation between the choppy gravity waves (which are a separate phenomenon from the much-heralded LIGO study) and geologic activity on the ground near the poles, but it would require further investigation to determine that.

“We can make observations from the ground (and these are continuously being done) but the real motivation would be to launch a new spacecraft to Venus over the coming decade which could explore the polar atmosphere in-situ,” Müller-Wodarg said.

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

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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. - AA9DT
 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
 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 - To be determined
 CFAR Chairman - K9IQF
 Site Maintenance
 K9IQF, W9RA & W9BEA
 Control Operators
 K9IQF, TBD
 NW Maintenance
 W9JEM
 Northeast Maintenance
 K9IQF & TBD
 Lisle Maintenance
 WA9AEK

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

Board Meetings - To be announced

Mike Shy

Mike Brost - WA9FTS - Editor

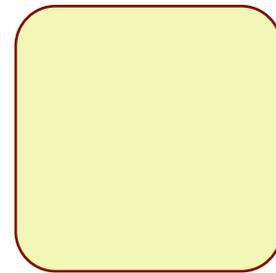
5127 N. Monterey Dr.



First Class Mail



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