



President's Notes for November 2013

The latest round of license classes taking place at Ford has gotten off to a good start. In fact, we've had to split the classes into separate sessions, one for those going for their Technician license and one for those going for their Extra Class license (I don't remember where the General candidates are going). And will our club gain any new members from these students? I hope so. We can always use new blood.

The 10 meter band has been really active in the last few days as I type this. I haven't been active up there, but many of you have. Congratulations to Dave, N8HKU, for finally working a Japanese station using 10 meters.

This month's meeting won't feature a traditional presentation. Instead, we're going to have a question-and-answer session. If you have any questions about amateur radio that you want to have answered, bring it in. Those of us in attendance should be able to answer them. We'll also select the restaurant for our annual Christmas dinner, which will (as usual) replace our December meeting. It doesn't have to be held on the same day of the meeting, but it's customary to do so; it's easier to reserve places mid-week. Think about where you'd like to go, then come to the meeting and vote on it. Last year, we went to Mexican Fiesta, but it was so busy that we had to wait for several minutes before being seated. We'll also attempt to elect a new secretary, as we weren't able to hold the special election in October.

When regular meetings resume in January, we'll need presentation topics. We're always in need of presentation topics. If you want to present on a topic of interest, or even on a topic that's not of interest, let me know.

See you at the November meeting!

73,

Roger, KD8CSE



Ford Amateur Radio League (AKA: The Tin Lizzy Club) **Club Meeting Minutes – October 10, 2013**

Minutes, FARL Club Meeting – October 10th, 2013

Meeting was called to order by Roger, KD8CSE at 18:47 (6:47p.m.)

4 members and 1 guest were present.

Roger Reini

Pat Quinn

Rod Deyo

Chris Jenks (Guest)

David Treharne

Minutes from prior meeting:

Minutes from September, 2013 were reviewed:

Motion to approve minutes made by Pat, 2nd by Rod. Minutes approved.

Treasurers Report:

Pat, WD8JDZ read the report. Monthly phone bill paid, Motion to accept as read by Dave, 2nd by Roger. Minutes approved.

Board of Directors Meeting: No formal meeting was held.

Committee Reports:

Repeaters:

All is OK with the 2m and 220 machines. No changes to the 440 Machine.

Join the Sunday night net @ 8 p.m.

Education and Training: Bill Boyke and Roger Reini are now conducting training sessions in the lobby of Bldg #2 at 11am on Tuesdays. Working with both Technician and Extra class licenses.

Communication - Newsletter/Website:

Send any items to Roger, Dave, or to Rajiv.

Historian: No news, historian John Turowski was not present.

Equipment Inventory: Up to date.

FERA: No new business

Unfinished/Current Business:

None

New Business and Announcements:

1. Special Election for Secretary: Deferred to next month due to small number of club members present.
2. Fort Wayne Swap on November 16th and 17th: Roger Reini may be going.
3. Thunder Eagle weather receiver: would automatically transmit severe weather warnings through the repeater. Discussed in the meeting. Decided that this was not needed to add to our repeater. Most can get weather information through their smart phones, other internet connections, or NWS weather directly. No one we know of listens to the club repeater full time.
4. Encouraging membership growth: Discuss making sure all of our new hams within Ford know about our club and are encouraged to attend a meeting and join.
5. Christmas Party Club dinner: Will discuss possible locations next month.
6. Presentation Topic for November: Still looking for one.

Presentation Topics:

1. Island Chasing: Presented by Roger, KD8CSE

The meeting was adjourned at 19:50 (7:50p.m.)

David Treharne, N8HKU
Club Vice President



Comments on Last Man Standing

Roger Reini, KD8CSE

The **November 22** episode of “Last Man Standing” will once again feature ham radio. **It will air at 8 PM on ABC.**

Recall the episode from last season where Mike Baxter’s daughter Mandy was communicating with other characters via Mike’s radio setup? There were many complaints from the amateur radio community that the scene didn’t show proper operating technique, or that it showed someone unlicensed operating the radio.

Here’s the response to that from the official “**Mike Baxter, KD0XTT**” page on Facebook: “To answer a recent question -- FCC regulations state that you must ID every 10 minutes and at the end of the QSO. Specifically, not at the start of a QSO. Mandy (KF0XIE) did not need to ID to talk to Kyle (KD0XCS). The conversation did not go 10 minutes and the scene ended before they signed off. No rules were broken.”

Massive Satellite “Cluster” Launch Set for November 21 - ARRL



A [Dnepr](http://en.wikipedia.org/wiki/Dnepr-1) (<http://en.wikipedia.org/wiki/Dnepr-1>) launcher set to lift off from Dombarovsky, near Yasny, Russia, on November 21 will carry more than two dozen satellites from 13 countries. Individual satellite teams are now in Yasny preparing their payloads for launch. Several of the satellites will carry Amateur Radio payloads, marking this as the largest single deployment of ham radio satellites. Paving the way for this month’s event was the August 22 *Dnepr* launch of the KOMPSAT-5 satellite from Korea — the first *Dnepr* launch in 2 years. This month’s launch had been postponed for more than a year to work the wrinkles out of the Dnepr program. The [DubaiSat-2](http://space.skyrocket.de/doc_sdat/dubaisat-2.htm) (http://space.skyrocket.de/doc_sdat/dubaisat-2.htm) earth-imaging satellite will be the principal payload of this cluster mission.

Some of the satellites headed into orbit will be contained within the Italian [UniSat-5](http://amsat-uk.org/tag/unisat-5/) (<http://amsat-uk.org/tag/unisat-5/>) microsat package. UniSat-5 will include a pair of UHF

transceivers operating 9k6 GMSK AX25 protocol. From “PocketQube” launchers, UniSat-5 will deploy several smaller satellites, and one of the smaller satellites will release yet another satellite, reminiscent of decorative Ukrainian eggs within eggs. UniSat-5 will deploy Eagle-1 (BeakerSat-1, see below), Eagle-2 (\$50Sat, see below), [Qube-Scout S1](http://space.skyrocket.de/doc_sdat/qubescout-s1.htm) (http://space.skyrocket.de/doc_sdat/qubescout-s1.htm), estar-2 (CW and 1k2 AFSK UHF downlink), [Wren](http://space.skyrocket.de/doc_sdat/wren.htm) (http://space.skyrocket.de/doc_sdat/wren.htm), and [PUCP-SAT-1](http://space.skyrocket.de/doc_sdat/pucp-sat-1.htm) (http://space.skyrocket.de/doc_sdat/pucp-sat-1.htm), which in turn will disgorge Pocket-PUCP, a tiny spacecraft built by students in Peru that will carry four temperature sensors and transmit the data using a 10 mW CW UHF transmitter using 30 kHz FSK.

Scheduled to be among the other Amateur Radio-payload carrying satellites is [FUNcube-1](http://funcube.org.uk/) (<http://funcube.org.uk/>), a 1U CubeSat that is a collaboration between AMSAT-UK and AMSAT-NL. It will carry an “educational beacon” (1200 baud BPK — daytime operation) and a 20 kHz wide U/V inverting SSB/CW transponder running 300 mW PEP (nighttime operation). A project begun in 2009, FUNcube-1 will provide a signal *directly* to schools, with the “target audience” students at the primary and secondary levels.

FUNcube-1 is the middle 1U CubeSat of three sharing a 3U launch vehicle pod. The other two are [ZACube-1](http://amsat-uk.org/2012/08/25/14099-khz-cput-cubesat-to-launch-end-of-november/) (<http://amsat-uk.org/2012/08/25/14099-khz-cput-cubesat-to-launch-end-of-november/>) — the first South African satellite — and [HiNCube](http://www.hincube.com/) (<http://www.hincube.com/>) from Norway, which will identify and transmit housekeeping data in the 70 centimeter band in [CCSDS](http://www.ccsds.org/) (<http://www.ccsds.org/>) protocol. ZACube-1, in addition to carrying VHF and UHF communication equipment, has a 20 meter beacon that will transmit on 14.099 MHz.

Another Amateur Radio satellite, [Delfi-n3Xt](http://www.lr.tudelft.nl/en/organisation/departments/space-engineering/space-systems-engineering/projects/delfi-n3xt-project-page/) (<http://www.lr.tudelft.nl/en/organisation/departments/space-engineering/space-systems-engineering/projects/delfi-n3xt-project-page/>), is a 3U CubeSat developed by the Technical University of Delft in the Netherlands. It will feature a 40 kHz wide U/V transponder that will be activated after other experiments are completed, as well as a high-speed S-band downlink.

[Triton-1 and Triton-2](http://space.skyrocket.de/doc_sdat/triton-1.htm) (http://space.skyrocket.de/doc_sdat/triton-1.htm) are 3U CubeSats each carrying a science mission and an Amateur Radio payload. Triton-1 includes two single-channel U/V FM-to-DSB transponders. Triton-2 will a single-channel U/V FM-to-DSB transponder and a single-channel U/S FM-to-FM transponder. The science mission is expected to last 3 months, after which the Amateur Radio payloads will be activated.

[Beakersat-1](http://space.skyrocket.de/doc_sdat/beakersat-1.htm) (http://space.skyrocket.de/doc_sdat/beakersat-1.htm), also called Eagle-1, is a FemtoSat (mass between 10 and 100 g) built to the 2.5 U PocketQube form factor by undergraduate students at Morehead State University in Kentucky. Downlink telemetry will be transmitted to the ground station via Morse code.

[\\$50Sat](http://www.50dollarsat.info/) (<http://www.50dollarsat.info/>), also called Eagle-2, will transmit data telemetry about the satellite's operation, a sequence of call signs in slow FM Morse and some key data as fast FM Morse (120 WPM). The main data payload will be transmitted as FSK RTTY, which should be readily heard on the ground with basic Amateur Radio equipment. \$50SAT is a collaborative educational project between Professor Bob Twiggs, Morehead State University, and Howie DeFelice, AB2S; [Michael Kirkhart, KD8QBA](#), and Stuart Robinson, GW7HPW.

These small satellites also are on the November 21 Dnepr launch roster:

- [CubeBug-2](http://1.cubebug.org/) (<http://1.cubebug.org/>), a 2U CubeSat developed by the Argentinian Ministry of Science, Technology and Productive Innovation, INVAP SE, Satellogic SA, and Radio Club Bariloche. This is a technology demonstration mission, but a digipeater and data download equipment will be activated after initial experiments are completed.
- [GOMX-1](http://amsat-uk.org/tag/gomx-1/) (<http://amsat-uk.org/tag/gomx-1/>), a student-built Amateur Radio 2U CubeSat, is being flown under the auspices of a government research grant covering space-related radio research. A camera payload will take color images of Earth, and it will carry an experimental Software Defined Radio receiver. Payloads will include GMSK telemetry with selectable 1k2/2k4/4k8/9k6 rates on UHF.
- [NEE-02 KRYSAOR](http://amsat-uk.org/2013/02/14/two-tv-cubesats-from-ecuador/) (<http://amsat-uk.org/2013/02/14/two-tv-cubesats-from-ecuador/>), which will carry a 720p HDTV camera to send live video from space using a 900 mW transmitter in the 910 MHz (33 centimeter) band, along with a beacon that will send a Morse code ID, a SSTV image and Ecuador's national anthem. It is Ecuador's second CubeSat.

Also onboard are [UWE-3](http://www7.informatik.uni-wuerzburg.de/forschung/space_exploration/projects/uwe_3/) (http://www7.informatik.uni-wuerzburg.de/forschung/space_exploration/projects/uwe_3/), built by students at Germany's Julius Maximilians-University of Wurtzburg; [BRITE-PL1](http://www.brite-pl.pl/pliki/main_en.html) (http://www.brite-pl.pl/pliki/main_en.html), the first Polish satellite, and [Humsat-D](http://www.humsat.org/) (<http://www.humsat.org/>).

IARU Amateur Satellite [Frequency Coordination](http://www.amsat.org.uk/iaru/) (<http://www.amsat.org.uk/iaru/>) is hosted by AMSAT-UK. -- AMSAT-UK, AMSAT-NA, [Gunter's Space Page](http://space.skyrocket.de/) (<http://space.skyrocket.de/>), [Nader's Satellite Blog](http://space.skyrocket.de/80%8E) (<http://space.skyrocket.de/80%8E>)



Club Repeater Information

The Ford Amateur Radio League operates 3 club repeaters under the club K8UTT license. All the repeaters are located in the Dearborn, MI area near the Southfield Freeway. All repeaters are open for members and guests to operate.

Repeater	Output Freq	Input Freq	Tone
2 M Repeater	145.270	-600 KHz	100 Hz PL
1 1/4 M Repeater	224.520	-1.6 MHz	100 Hz PL
70 cm Repeater	443.425	+5 MHz	107.2 PL

Club Net: 8pm on Sunday, 2 and 1-1/4 Meter Repeaters!



Classes and Exams

The following amateur radio clubs conduct license exams throughout the year. Many clubs allow walk-ins but pre-registration will insure an exam is available for you when you attend.

Club Name	Contact Person	Phone	Email
Ford Amateur Radio League	Bill Boyke	313-805-8877	wboyke@ford.com
South Lyon ARC	Christian Anderson	248-437-3088	K8VJ@arrl.net
Motor City ARC	Don Novak	734-281-7030	K8THU@arrl.net
Hazel Park ARC	Jerry Begel	248-543-2284	w9npi@comcast.net
USECA ARC	Joseph Kennedy	586-977-7222	N8OZ@arrl.net
ARROW Assn	Roger Place	734-663-4625	merrogplace@aol.com

Some of the above clubs also conduct license classes. Please contact them for additional information.



2012-2013 Club Officers

Please contact any of the officers for information regarding the Ford Amateur Radio League, or go to the club website at www.k8utt.org for current events and activities.

President	Roger Reini	KD8CSE	734-728-1509
Vice President	Dave Treharne	N8HKU	734-476-1666
Treasurer	Pat Quinn	WD8JDZ	734-729-1993
Secretary	John Turowski	N8NWA	313-258-1996
Repeater Chair	Murray Scott	KE8UM	248-743-1704
K8UTT Trustee	Dave Treharne	N8HKU	734-476-1666
Activity Chair	Bill Boyke	N80ZV	313-805-8877
Bolt Editor	Rajiv Paul	KD8LHF	313-405-2573



Club Meetings

The Ford Amateur Radio Club meets on the second Thursday of each month, except for Christmas and the summer months July and August. The meetings are held at 6:30 PM at the Ford Engine Manufacturing & Development Offices (EMDO) building. EMDO (located at 17000 Southfield Rd, Allen Park, MI) is south of I-94 on the east side of Southfield just north of the Allen Park Municipal offices. Park in the front of the building and come into the main lobby at the side. Knock on the inside door on the right if no one is standing there to let you in.



Next Club Meeting: November 14, 2013 at 6:30PM
Topic: Amateur Radio Question & Answers

The Ford Amateur Radio League
PO Box 2711
Dearborn, MI 48123