

# KARS KEY KLICKS

JOURNAL OF THE KANKAKEE AREA RADIO SOCIETY

Volume 91 Issue 6

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June 2016

## Fox Hunting and Field Day in June

The next KARS meeting will be June 7th, 7PM at the public meeting South Main Entrance

After the general meeting, there will be planning for Field Day and a program on Transmitter Hunting.

If you are an experienced hunter bring along something to show...your hunting antenna, attenuator or describe hints and tips that have worked well for you. If you are new, this is a great chance to learn techniques.

### TRANSMITTER HUNTS

The next foxhunt will be Saturday, June 4th at **11:00AM**. Usual rules and start location apply. N9DWE to be the fox. Another foxhunt will be held on June 18th.

### KARS MEMBERS RECEIVE

**H < 9 = F A 5 9 G H F**

W9IE and N9IO received their long awaited Maestro control heads for their Flex SDR Radios (as did a number of other Illinois Contesters/DXer hams). While it certainly adds knobs to the connectability adds a new world of operating possibilities. (check out pg 2 for news on the WB9Z station)



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from Flex Radio



Large turnout at KARS May meeting featuring antenna construction

### KARS KALENDAR

- June 4 Transmitter Hunt
- June 7 General Meeting
- June 11-13 ARRL June VHF QSO Party
- June 18 Transmitter Hunt
- June 21 KARS Board Meeting
- June 25-26 KARS Field Day
- July 5 KARS General Meeting
- July 9-10 IARU HF World Championship
- July 16-17 ARRL Worldwide VHF
- July 16-17 ARRL QP RTTY
- July 17 KARSFEST
- July 19 KARS Board Meeting

The Kankakee Area Radio Society operates repeaters on:

- 146.34/.94 107.2 PL Access
- 449.8/444.8 100.0 PL Access
- 145.130 107.2 PL Access

Additionally, KARS sponsors:

- 144.39 2 Wide Area APRS digi-peaters
- 145.53 KARS DX Cluster

### KARS FIELD DAY

Attention all KARS members:

Field Day setup will start at 10AM Saturday. KARS operations will commence at 1PM local and run around the clock till 1PM Sunday. We will be operating portable with emergency power. All members are invited to participate.

Camp all night if you like or come and go as you please.

Dues paying KARS members who participate in the setup, teardown, or operation are entitled to participate in the Saturday dinner cookout! The cookout will feature free burgers and brats (or whatever you prefer to bring) with Will K9FO manning the charcoal grill. Remember to bring chairs, (a small folding table is a good idea) table service, mosquito spray and beverage as well as a side dish or dessert to share with your fellow hams. See you at Field Day.

Come to the meeting for directions or check out the ARRL Field Day operations map on the League web page.

A big thank you to Kevin N9REG and his family for again hosting KARS Field Day at their lovely location.

ARRL Field Day is the largest miss out!

### NCS FOR JUNE

The net meets every Monday at 8 PM local time on the 146.34/.94 repeater. All stations with or without traffic are invited to check in.

- June 6 N9RJM
- June 13 N9OE
- June 20 N9FD
- June 27 K9NR

## JOIN THE FUN AT ARRL FIELD DAY!

# KARS HOMEPAGE | WWW.W9AZ.COM | KARS HOMEPAGE

## KARS EXPEDITION TO THE DAYTON HAMVENTION 2016



Representatives from the Qatar Amateur Radio Organization



ARRL Card Checking and Logbook of the World



Representatives from the Japanese Amateur Radio League



Just one of many standing room only forums on every radio subject you could want

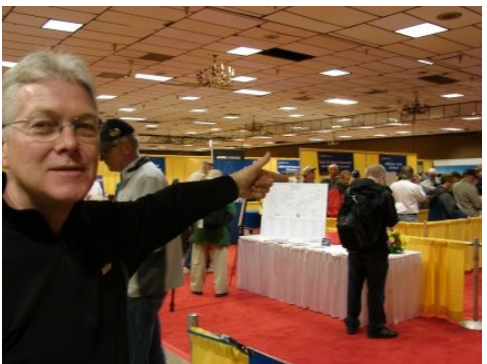
### TROY W9KVR RECEIVES EDUCATORS AWARD

Troy W9KVR, Science Teacher at Glen Raymond School in Watseka was recognized with a prestigious award in Science Education. Troy has been directly responsible for several students obtaining their ham tickets!

As the Central Section chair of the National Association of Geoscience Teachers (NAGT) Outstanding Earth Science Teacher Award (OEST), I am pleased to inform you that Troy Simpson has won the NAGT's Central Section Outstanding Earth Science Teacher 2016 award!

The award is for "exceptional contributions to the stimulation of interest in the Earth Sciences at the pre-college level." The Central Section includes eight states (IN, IL, IA, WI, MN, OH, KY, MI), and the committee received many strong nominations. However, Troy was unanimously selected as the Central Section winner; we were particularly impressed with his pioneering of classroom technology, his ability to incorporate outdoor fieldwork and the relevance of earth sciences into his classroom, and his passion for science education.

What a wonderful honor for Troy, for Glenn Raymond School, the district and the state!



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### Jerry WB9Z & Val NV9L get (one-on-one) tutoring from local KARS Flex guru Ken W9IE

The WB9Z/NV9L station inventory now includes a Flex 6700 / Maestro combo. Over the years, the radio gear æ c Á R ^ ! ! ^ q • Á , [ | | á station south of Crescent City has been state-of-the-art fine, competitive equipment.

V @ ^ Á Ø | ^ ç Á ^ ~ ~ ã ] { ^ first foray into the world of Software Ö ^ ~ ã } ^ á Á Ü æ á ã [ • È Á Á new radio will get a good shakedown by Jerry and Val in the Contests and DXing to come!

### HAPPY BIRTHDAY

- June 2 W9EJM
- June 5 KD9CGC
- June 5 KD9CBG
- June 10 N9OQC
- June 17 KD9FVO
- June 20 KC9LBZ
- June 26 KF9DM
- June 26 W9IOU
- June 30 K9BAK

If we miss your birthday or get it wrong, please let us know!

### KARS BOARD MEETING

The meeting will be held on June 21st in c @ ^ Á ] | ã ç æ c ^ Á á ã } ã } \* Á [ [ { Restaurant by the Hilton Hotel and Walmart south of town near the I-57 exit. Eat at 6 P.M. Meeting at 7 P.M. All members and spouses are welcome.

### TUNING THE BANDS

As we leave the Spring Equinox behind and move towards the summer Solstice, DXing on the HF bands often drops off a bit.

However, summertime 6 meter propagation is cranking up with openings from the Midwest to the deep south, the far western states, the east coast and even to Central and South America.

Single hop E Skip and occasional double hop is common now. Keep an eye (ear) on the Magic Band. Also, check out 2 meter SSB/CW for tropo propagation. Lots of fun to be had!



# BALLOON LAUNCH and RECOVERY MAY 31st



High altitude balloon launch at



The payload packages rise one after the other



5 b U W h i U ` ` g \ c h ` c Z ` í 5 g at the edge of space in HD



Capturing the moment the balloon explodes at about 100,000 feet!



Row of trackers at the recovery site in Indiana



Billie K9QT holds all that remains of the huge balloon

See Page 4 for the flight path and statistics

## FOXHUNT May 7th



N9FD & K9KSG at the finish



The K9NR & K9QT team



The N9RJM & K9KSG team



First place went to the N9DWE team

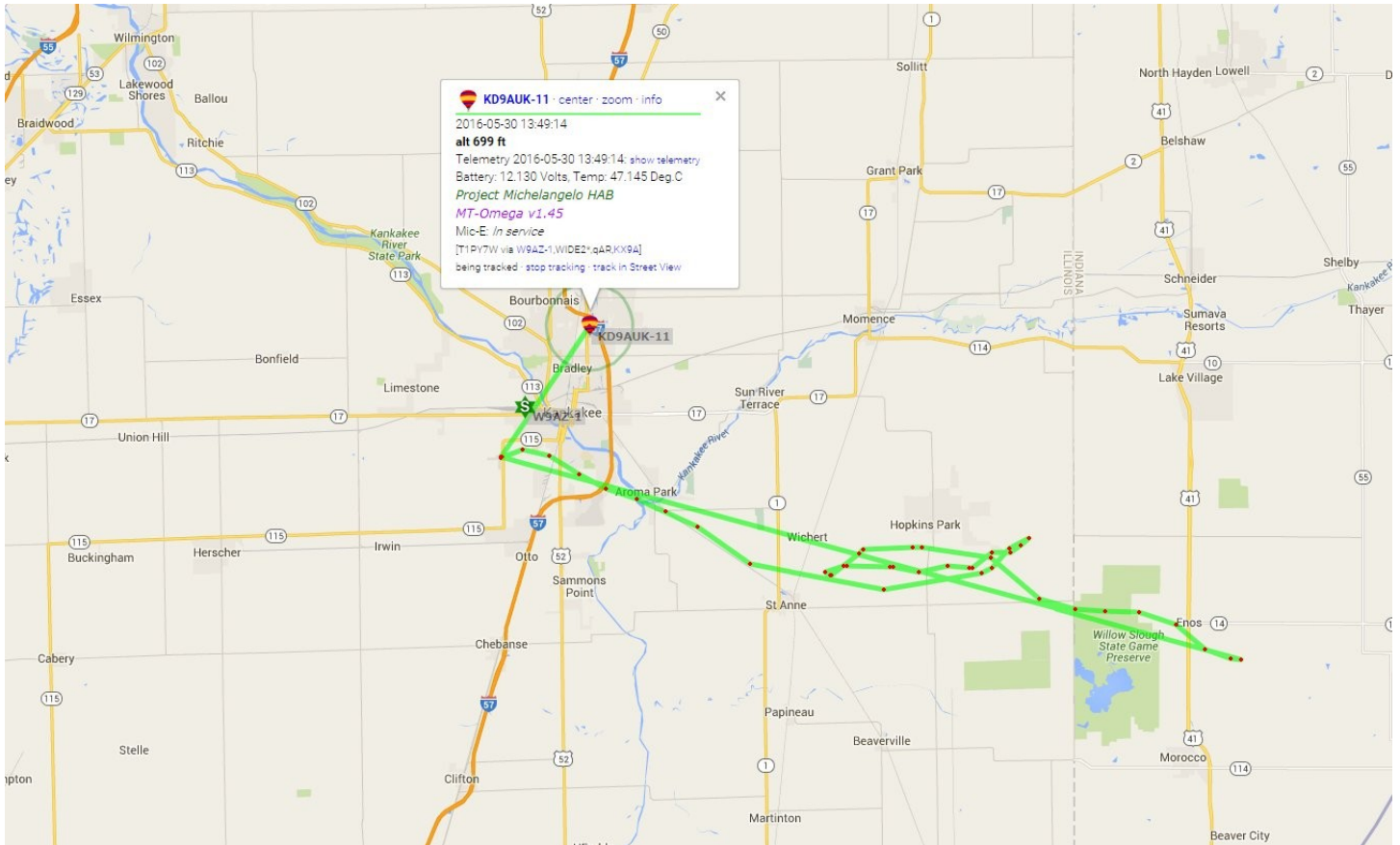
### RESULTS OF THE MAY 7TH FOXHUNT

Another great transmitter hunt with Andrew N9BMB and Diane N9DLD as the crafty foxes. The team of John N9DWE and Mark KA9MDJ grabbed first place honors finding our hidden prey at the Aroma Park Field House with the lowest mileage.

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The foxes! N9BMB & N9DLD



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KEY STATISTICS FOR BALLOON MISSION #10 ON MONDAY, MAY 30TH, 2016

**Payload Configuration:**

Balloon Used Kaymont 3000-Gram Balloon  
 Payload Weight 14.35 Pounds / 6,430 Grams  
 Neck Lift Used 8794 Grams / 1.367 x Payload weight  
 Predicted Burst Altitude 109,390 Feet / 33,342 meters  
 Actual Burst Altitude Unknown, but above 98,832 feet  
 Target Ascent Rate 5 Meters Per Sec. (984-Foot Per Min.)  
 Actual Ascent Rate 6.7 Meters Per Sec. (1,320-Foot Per Min.)  
 Target Time To Burst 111 Minutes  
 Actual Time To Burst Unknown · Approximately 74 Minutes 28 Seconds  
 Volume of Helium Used 405.7 Cubic Feet  
 Projected Flight Time 2 Hours 21 Minutes  
 Actual Flight Time 2 Hours 6 Minutes 53 Seconds  
 Parachute: 96" Spherachute (Fluorescent Orange and White Panels)  
 Mounted On Parachute Spreader Ring: Mobius Wide Angle Generation 3 Dashboard Video  
 Camera Pointed Down at Payload Containers  
 · One (1) Hexperts Zlog Rev 2 Flight Computer  
 · One (1) Trackimo GSM GPS Tracker  
 · One (1) SPOT GEN3 GPS Tracker  
 One (1) Byonics Micro-Trak AIO APRS Tracker  
 · One (1) Byonics MT-1000 APRS Tracker  
 · One (1) Mobius Wide Angle Generation 2 Video

Camera Pointed Up At The Balloon  
 · One (1) GoPro HERO 3+ Silver Edition Camera Pointed at Horizon  
 · Davis Echomaster Emergency Radar Reflector  
 · Astronaut Bob Set-Up  
 · Two (2) GoPro HERO 3+ Silver Edition Cameras Pointed at Bob  
**Weather Conditions:**  
 · Maximum Altitude Achieved · 98,832 feet.  
 This was about 9,000 feet lower than the Burst Calculator program predicted.  
**Launch Time:** 10:03:27 AM CST. **Landing Time:** 12:10:20 PM CST.  
**Time from Launch to Burst Altitude** · (11:11:55) 68 Minutes 28 Seconds.  
 We had projected a time of 111 minutes.  
**Time From Launch to Landing:** 2 Hour, 6 Minutes, 23 Seconds.  
**Average Ascent Rate:**  
 Starting Point · 625 Feet to 98,832 Burst Altitude = 98,207 Ascent Traveled in 74 Minutes and 28 Seconds (74:28) = 1,318 Feet Per Minute / 21.96 Feet Per Second / 402 Meters Per Minute / 6.7 Meters Per Second.  
**Average Descent Rate:**

Max Altitude 98,832 Feet to Ground 679 Feet = 98,153 Feet Descent Traveled / 52 Minutes 25 Seconds / (52:25) = 1,869 Feet Per Minute / 31.15 Feet Per Second / 570 Meters Per Minute / 9.5 Meters Per Second.  
**Descent Rate For Last 10,000 Feet** · 10,679 Feet to 679 Ground = 10,000 Feet Descended / 26 Minutes and 38 Seconds (26:38) / 376 Feet Per Minute / 6.26 Feet Per Second / 115 Meters Per Minute / 1.91 Meters Per Second.  
**Outside Temperature on the Ground** · 77 Degrees At Launch Time.  
**Lowest Temperature Inside The Payload Container** · 83 Degrees Fahrenheit Between 26,764 and 6,906 Feet During Descent.  
**Lowest Temperature Encountered Outside The Payload Container** · Unknown. Forgot to Route the Temperature Sensor Outside The Payload Container. Oooops!  
**Highest Temperature Inside The Payload Container** · 105 Degrees Between 14,323 Feet and 24,799 Feet During Ascent.  
**Maximum Speed Reached During Flight** · 89 MPH at 42,345 Feet.  
**Straight-Line Distance Traveled From Launch Site** · 2