



The Feedline

VOLUME 13

ISSUE 7

JULY 2013

FIELD DAY REPORT

This year, Julius Erdos (KD8XD) was unable to attend Field Day because of health concerns. I visited him on 6-20 and asked if he would "loan" us the use of his call sign for the GOTA station. He was agreeable, and seemed happy that he could attend Field Day in spirit by the use of his call sign on the air. We were most appreciative of this gesture, and wish Julius a speedy recovery and return to CARC activities!

The weatherman co-operated with Canton ARC this past weekend to help make Field Day 2013 a fun-filled success. Friday evening before, club members helped to set up more equipment and antennas that we have used in recent memory. Two guyed towers were put up, one for the VHF-UHF antennas and another to support a 20 meter four-element beam antenna. Also, a 20 meter vertical antenna was used, another recent addition to the arsenal.

Band captains this year were Scott (KK8D) for the 80-20 station, Bill (N8PW) for the 40-15 station, Jerry (N8YB) handling the VHF-UHF station and Dale NX8J manning the GOTA station. Ted K8TWA was our site safety officer while Jim (KA8JIM) handled the visitor welcoming area. Justin (W8JKC) ran the satellite communications station, including the setup of what is certainly the most complex station of the event. Roger (W8VE) banged out a number of QSO's made with a rig energized with solar power.

We can't say enough good things about Les (KK8K), who was there to handle anything else that needed done. So much of Field Day has nothing to do with radio, but is still highly important. Les made sure there was an ample stock of food, beverages, utensils, a grill, propane, etc, etc on hand to make the event a success.

This year we used the services of Yvonne Lewis (mother of two GOTA participants) to be kitchen boss. By all accounts, she did an outstanding job! Meals were ready at the agreed times and presented in a professional manner. Nobody had to look at unkempt picnic tables in between meals, and Sunday's teardown went faster because we did not have to deal with food leftovers or kitchen cleanup. Good job Yvonne!

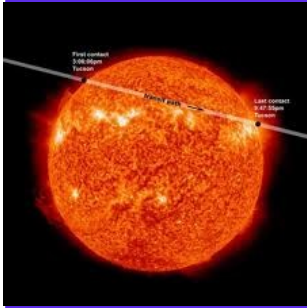
As usual, GOTA was busy Saturday and Sunday. Karlynn, Ashley, Brice, Grace and Drew all operated. Many SSB contacts were made, with the most productive time being Sunday mid-day. Jerry told me the VHF contacts came much faster on Sunday as well. Once we look at the QSO rates for all stations, we will be able to see if there was a negative propagation event taking place on Saturday. At this writing on Monday morning, it's too early to compare 2013 to years past.

Check out some of the pic's on pages 20 and 21 of this newsletter. Also take a look at our website at: http://www.w8al.org/index_files/Page1176.html. The new slideshow for 2013 Field Day will be operational very soon.

In the days to come, CARC officers will meet to complete the ARRL scoring sheet. Official results will be made to the club, then we anxiously wait till the ARRL publishes nationwide results before we can see how CARC stood within our class-section.

The club extends a warm THANK YOU! to all members who helped with the physical setup and teardown. Despite the increased number of antennas in the air this year, we were quickly torn down and the site returned to our gracious hosts the Dearmans.

73 de Dale (NX8J)



CHINESE TRANSIT THE SUN

China's **Tiangong-1** space station, now crewed by three taikonauts, passed in front of the sun over the south of France this week. Astrophotographer Thierry Legault captured must-see images of the transit, featured on today's edition of <http://spaceweather.com>

WEAR YOUR SUNGLASSES



The first day of summer in the northern hemisphere brought with it a long-duration M2-class solar flare. The source was active sunspot AR1777. The blast was not Earth-directed, but future flares from AR1777 could be as the active region turns toward our planet this weekend.

Check <http://spaceweather.com> for images and updates.

HURRICANE CENTER READY TO GO



ARRL reports that on June 1st, the National Hurricane Center station WX4NHC was activated for its annual on-the-air live event to test radio equipment, antennas and computers for the 2013 hurricane season. As part of the test, they operated on most of the modes that are available to them at WX4NHC, including HF phone and CW, HF/VHF APRS, **EchoLink/IRLP**, VHF/UHF simplex and local repeaters. They received reports via the on-line Hurricane Report form and email. All of their radios, seven antennas and two dedicated computers tested well. Although the HF propagation in the morning was very poor due to a solar storm, operators managed to make contacts with many states, Caribbean Islands and South America, mainly on 20 meters." The afternoon VoIP Hurricane Net on **EchoLink/IRLP** was very busy. Susan Blank, WX2L, and Al Wolfe, WB4L, operated WX4NHC at the National Hurricane Center, Miami, Florida. Over 100 contacts were made. "We made a special direct contact, the first that I can remember, with Bob Robichaud, VE1MBR, at the Canadian Hurricane Center," Ripoll said. Amateur Radio station WX4NHC has been a permanent part of NHC for 33 years and has 30 dedicated volunteer operators that operate the station in shifts during hurricane situations in the Atlantic, Caribbean, Gulf and East Pacific.

JULY HAPPENINGS

July 13th, Saturday

Breakfast Club at The Blue Fig

June 17th, Wednesday

Monthly Meeting at Stark County EOC at 7:30 PM

GOTTA BRIDGE NEAR YOU???

The club, K8CJQ, will be sponsoring a new event **Historic Bridge Weekend**, July 19 - 21, 2013.

They already have a group signed-up to operate from the Golden Gate Bridge in San Francisco, Machinaw Bridge, Michigan and a bridge in London, ON. We would really like to get as many bridges listed for the first annual event as possible.

More information about the event is on our website k8cjg.org

To commit to the event email me at historicbridge@gmail.com

Listen for them on the air



NASA TO STUDY RADIO WAVE DISRUPTION

A NASA-funded sounding rocket mission will launch from an atoll in the Pacific in the next few weeks to help scientists better understand and predict the electrical storms in Earth's upper atmosphere. These storms can interfere with satellite communication and global positioning signals. The mission, called EVEX, for the Equatorial Vortex Experiment, will launch two rockets for a twelve-minute journey through the equatorial ionosphere above the South Pacific.

The launch window for the mission from the Kwajalein Atoll in the Marshall Islands is from April 27 to May 10, 2013.

Read the Space Daily story at:

http://www.spacedaily.com/reports/NASA_Mission_to_Study_What_Disrupts_Radio_Waves_999.html

AREA NETS

CW Nets

• Sunday	Massillon ARC	7:30 PM EST	3600.0 + or -	CW
• Tuesday	Massillon ARC	7:30 PM EST	3600.0 + or -	CW
• Thursday	Massillon ARC	7:30 PM EST	3600.0 + or -	CW
	Alliance ARC	8:00 PM	28.400	CW
		8:30 PM	28.400	SSB

Phone Nets

• Monday	Summit Co. ARES	7:30 PM	444.50+	PL 131.8	FM
	Cuyahoga Falls ARC	8:30 PM	147.270+	PL 110.9	FM
• Tuesday	Stark County ARES	7:00 PM	147.120+	PL 110.9	FM
	NORMA - Swap	7:30 PM	147.015+	PL 110.9	FM
	Homeland Security	8:00 PM	147.510		FM - Sim
	Silvercreek ARA	8:00 PM	147.390+	PL 114.8	FM
	Millersburg ARA	9:00 PM	146.670-	PL 71.9	FM
• Wednesday	Carroll County ARS	8:00 PM EST	147.075+		FM
		9:00 PM DST	147.075+		FM
	Wayne ARC	9:00 PM	147.210+		FM
• Thursday	Lake Erie ARA - Trivia	8:00 PM	146.760-	PL 110.9	FM
	Portage County ARS	8:00 PM	146.895-	PL 110.9	FM
	Wayne ARC DX	8:00 PM	147.210+		FM
	Alliance ARC	9:00 PM	145.370-	PL 88.5	FM
• Friday	West Stark Info	8.00 PM	147.180+	PL 110.9	FM
• Saturday	None				

Daily (or almost) Nets

Silvercreek ARA Barometer	7:25 AM No Sunday	147.390+	PL114.8	FM
Geauga Trivia	9:00 AM No Sunday	146.940-	PL 110.9	FM
Stark & Surrounding Co.	7:00 PM No Sunday	50.400	6 Meter	AM - Sim
Tri-County Training-NORMA	9:30 PM Tue, Fri & Sun	147.015+	PL 110.9	FM

If you do not see YOUR Net listed please email us so we can add it to our list.

Email: webmaster@w8al.org

THE DX PAGE

F9IE, is now operational stroke CT7 from Portugal on 60 meters. He is running 100 watts and should be there for another week. He is said to be operating CW on 5405 and 5373 kHz with SSB on 5403.5 and 5371.5 kHz. No QSL information has been provided.

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The VU7KV Lakshadweep Islands operation last month has been approved for DXCC credit. If anyone had this contact rejected in a recent submission send an e-mail to bmoore@arrl.org to be placed on the list for an update to your record.

~

VK3DAC is currently operational from Christmas Island as VK9DAC. He is active on 80 through 10 meters as time permits. QSL as directed by the operator.

~

DL1DI will be active as PJ4D from the island of Bonaire between June 22nd and July 10th. He will be there on vacation.

~

W1XP is currently active stroke P4 from Aruba. Listen out for him on the various High Frequency bands. QSL's go via his home call.

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F5SWB will be on the air as TU5DF from the Ivory Coast from June through October. Activity will be on all of the HF bands. QSL via F5SWB.

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Mark your calendars. ZS6EZ and ZS6P will be active from Mozambique from October 15th to the 22nd as C92Z and C91P respectively. They will also be operational using the call C82DX. QSL C92Z via ZS6EZ. Cards for C91P go via ZS6P

~

ZS6RJ will be on a one man DXpedition to Botswana as A25RJ starting June 15th. Activity will focus on 80 through 10 meters, CW. QSL direct to his home address or electronically using LOTW. There is no bureau service for Botswana.

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EA4GBA, will be operational as C91GBA from Mozambique from June 27th through December 15th. Activity will be on all HF bands using SSB with 100 watts and a dipole. QSL direct via EA4GBA. QSL cards will be answered once he returns to Spain early 2014.

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IW2NEF will be operational as 5R8NE from Nosy-Be Island between July 16th to the 30th. Activity will be on 40 through 10 meters using SSB. QSL via IK2DUW.

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Five operators will be on the air from November 12th to the 27th using the callsign N8A from the southeast coast of Tutuila Island. Activity will be on 160 through 10 meters, with a significant effort on 160. QSL this one via ZL3CW.

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R400MR commemorates the re-establishment of the Russian State and the Ascension of the House of Romanoff to the Russian Throne. R400MR commemorates this decisive event until the end of the year 2013.

QSL via R2DG (Yury Pavlov, Pushkino Radio Club RK3DWA 141282 Russia).

For more information please visit the official website of The Russian Imperial House at::

www.imperialhouse.ru/eng/

SOLAR CELLS FROM TREES?



The Georgia Institute of Technology and Purdue University have jointly developed efficient solar cells using cellulose nano-crystal (CNC) substrates derived from trees and other plants, which means they can be recycled in water quickly at the end of their lifecycle.

These organic solar cells reach 2.7% power conversion efficiency, which the researchers aim to improve by optimizing the optical properties of their electrodes. The CNC substrates are optically transparent, so light can pass through them before a very thin layer of an organic semiconductor absorbs it.

During the recycling process, the solar cells are immersed in water at room temperature. The CNC substrate dissolves in minutes, and the solar cell can be separated into its major components.

“Our next steps will be to work toward improving the power conversion effi-

ciency over 10%, levels similar to solar cells fabricated on glass or petroleum-based substrates,” said Bernard Kippelen, Georgia Tech College of Engineering professor and director of the Center for Organic Photonics and Electronics. “We will also coat these cells with an eco-friendly, thin environmental barrier coating to protect the cells from water and oxygen when operating in the field.”

Paper substrates are better for the environment, researchers say, but they have shown limited performance because of their high surface roughness or porosity. The cellulose nano-material substrates, though, have a low surface roughness of only about 2 nm.

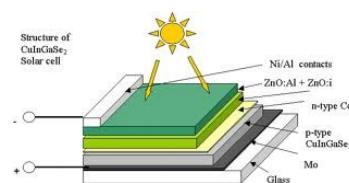
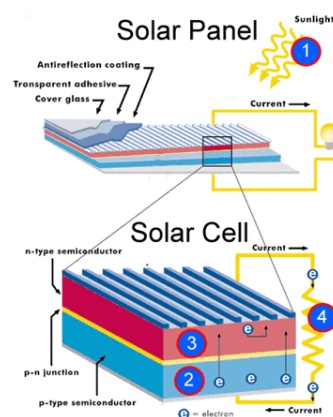
The researchers also note that the nation’s forest product industry could produce tens of millions of tons of cellulose nano-materials once large-scale production begins, potentially in the next five years.

See the Georgia Tech Center for Organic Photonics and Electronics at:

www.cope.gatech.edu

or Purdue University at:

www.purdue.edu



WORRIED ABOUT THAT TEST?

The *Chattanooga Times* reports that 11-year-old **Sierra Saylor** has got her amateur radio license **KK4RJW**. Sierra is believed to be one of the youngest hams in Northwest Georgia. She got her Technician's license on May 30, her 11th birthday and the same day she made her first contact with another operator more than 1,700 miles (2735 km) away. Read the full story at:

<http://www.timesfreepress.com/news/2013/jun/20/girl-calls-out-to-the-world/>

YUP - SOME MORE DX

Dim (F5SWB) will be active as TU5DF from Port-Bouët, Abidjan on the Ivory Coast, starting at the end of June through sometime in October.

Activity will be on the amateur radio HF bands, mostly on CW but also on SSB and PSK31 sometimes.

QSL via F5SWB. Please include 2 USD's and a SAE to cover mail costs for direct QSL coming from outside of Europe. Please include 1 USD and a SAE to cover mail costs for direct QSLs inside Europe.

~

The CY0P DXpedition team is pleased to announce that Rick (AI5P) has joined the team.

Rick has operated from more than seventy DXCC countries and adds a second CW operator to the team.

The CY0P DXpedition is scheduled for October 1st through the 11th.

Preparations are on schedule. The team has received three new mono-band yagi antennas for the effort. Gary (VE1RGB) ordered all new coaxial cables and will be testing those this summer.

~

John Plenderleith (9M6XRO) will be joining operators Aki ZL1GO (JE4EKO), Masahiro JH3PRR, Kip W6SZN and Jacky ZL3CW (F2CW/WE3B) to be active using the amateur radio special event callsign N8A from the Turtle and Shark Lodge, Village of Vaitogi, on the southeast coast of Tutuila Island (OC-045, USI AS007S, WLOTA 4385) between November 12th through the 27th. Activity will be on the HF bands, 160-10 meters, with a significant effort on 160 meters.

QSL via ZL3CW.

The N8A Web page is now available online at: <http://www.n8a.eu>

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The Wake Atoll commemorative team's operation for the beginning of October, 2013 is moving along nicely.

The planning phase of the operation is complete and the Team has moved into equipment procurement and staging operations.

The equipment will be pre-staged in California and Hawaii prior to transport to Wake. Staging, pre-testing, packing, and shipping under the direction of Tom, ND2T, and Kimo, KH6U, are major undertakings for DXpeditions and are essential to assure equipment arriving on-time and safely on Wake.

Our support Team has been expanded to include these additional Pilot Stations: Hiroo, JA1WSX (Japan/Asia); Stan, KH6CG (Oceania) and Rich, KY6R (USA). Additionally, Val, NV9L, has agreed to be the chief pilot for the operation. As mentioned in the previous release, this support Team is an essential part of the DXpedition's operation. The information they gather from the DX communities' feedback during the event, allows the 'on island team' to adjust their activities to meet changing band conditions and optimize QSOs worldwide.

Communication Tip of the Month

I feel very strongly about the importance of actively letting people know that you value, appreciate and care about them. Feeling valued is at the core of successful relationships whether at work or at home. People vary in how frequently and openly they like to express appreciation and I am sure that I am on the high end of that continuum. As a wife, parent, teacher and consultant, I experience the benefits every day in infusing positive energy and admiration into my interactions. So you can imagine my skepticism when I hear people advocate just the opposite in their life.

In the work context, I hear the following statements with some frequency:

"People shouldn't need praise for doing their job."

"I'm not someone who gives praise."

"I know it is important to give praise, but I feel uncomfortable and can't think of anything to say."

"Praising too often makes it meaningless."

When I hear those statements, my mind starts to speculate on how those same sentiments might sound at the end of their lives. Will they say, "I am proud of the fact that I decided early in life to not compliment people and I stuck to it." Or, "I appreciated the people in my life, but I rarely told them because it felt awkward." I can't imagine anyone feeling proud when they take this retrospective view. So, if you see a little of yourself in these statements and would like to change your future, here are two starter ideas:

First: Give yourself permission to say something positive at the exact moment you feel it. You can do this anywhere. Compliment the pretty color of a sweater someone is wearing in an elevator. When you get especially quick service, instead of just thinking that was quick, make eye contact and say "You are really providing great service. Thank you."

I was in Chicago recently and every day I passed by some men laying stone tiles next to a house. I saw them the first morning, and briefly pointed out what nice work they had done when I passed by in the afternoon. Each day after that, they looked up from their work and smiled as I passed by with another "thumbs up". For me, one of the most enjoyable things about offering random compliments is seeing people's faces light up with appreciation.

Second: During those lag times in your day when you start scanning your smartphone to pass the time, consider using the time more intentionally. The best example I have observed of someone passing her time well, was while I was waiting to board a flight. A woman behind me started quietly making business calls one after another. I noticed right away that she was calling people to tell them how much she appreciated them. The calls were short, very genuine and continued until she was ready to board her plane. The next time you find yourself aimlessly scanning for insignificant news, instead send a text, email or call someone to let them know you are thinking of them and wishing them well. You can do this during the lag times before meetings begin, as well. Turn to the person next to you and express your appreciation for their contributions, or tell the entire group why you appreciate them and how much they mean to you.

Above all, I encourage you to seriously question any statements you make which discount the value of expressing praise and appreciation. Think ahead to what the story of your life might be if you don't stretch beyond these boundaries you have set for yourself.

Now ... please take this next moment to text a friend, email a colleague, pick up the phone or give someone a generous, life affirming hug.



Hesitant to Praise?

GOOGLE LOON PROJECT

Project Loon is a research and development project being developed by Google with the mission of providing Internet access to rural and remote areas using High-Altitude Balloons (HAB) placed in the stratosphere at an altitude of about 20 km to create an aerial wireless network with up to 3G-like speeds.

The solar powered balloons are expected to stay aloft for over 100 days at a time and support not only air-to-ground Internet communications but also balloon-to-balloon communications enabling the signal to be relayed if required by several balloons to a ground-based station connected to an ISP then onto the global Internet.

Google plans to sending up 300 balloons transmitting on 2400 MHz and 5800 MHz around the world at the southern fortieth parallel that would provide coverage to New Zealand, Australia, Chile, and Argentina.

The company hopes to eventually have thousands of balloons flying in the stratosphere at an altitude of 20 km.

The first 30 balloons are being launched from New Zealand see

http://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=10890750

Among those involved in the project is Erin King AK4JG, a student at MIT. See a video of her earlier balloon project while still at high school and a video of her presentation 'Launching Radios and Other Cool Stuff into the Stratosphere' at <http://amsat-uk.org/2012/07/03/arnewsline-ham-of-the-year-erin-king-ak4jg/>

Google Project Loon <http://www.google.com/loon/>

Wiki http://en.wikipedia.org/wiki/Project_Loon

QRP COMPUTING HAM RADIO GROUP

I am a member of the Flying Pigs QRP group. We have loads of fun and we "care enough to send the least." This Yahoo group could prove to be interesting. A QRP (Low Power) amateur radio computing Yahoo Group has been formed.

The group aim to cater for people who are interested in using PCs/ Laptops, micro-controllers and computers on a board (e.g. Arduinos, Ti Launchpads, and the Raspberry Pi) within their QRP Projects. Among the operating systems covered are Windows, OS/X and Linux.

You can join the Group by following these steps:

- Send a blank email to QRP_Computing-subscribe@yahoogroups.com
- Yahoo will send you an email in response, you may need to check your SPAM folder
- Click on the link in the email, this will bring up a Yahoo page in your browser
- On the Yahoo page ignore the big Join link in the middle and click on the link at the bottom of the page instead, it says: "As an alternate option, you may join the mailing list instead."
- You should then be a member of the group.

QRP Computing Yahoo Group

http://uk.groups.yahoo.com/group/QRP_Computing

HOW ABOUT SOME MORE DX?



Members of the 'DX Friends' will activate San Andres Island (NA-033) sometime at the end of October. Operators mentioned are Alberto EA1SA, Toni EA5RM (Team Leader), Roberto EA2RY, Manolo EA7AJR, Jose EA7KW, Fabrizio IN3ZNR, Alain F6ENO, Tony F8ATS, Bernard F9IE and Valery RG8K.

Activity will be on 160-6 meters using CW, SSB and RTTY, with at least 4 stations on at the same time on different bands and modes.

Suggested frequencies are:

CW - 1824, 3524, 7004, 10104, 14024, 18074, 21024, 24894 and 28024 kHz

SSB - 1845, 3780, 7065/7160, 14195, 18145, 21295, 24945 and 28494 kHz

RTTY - 7035, 10140, 14080, 18100, 21080, 24921 and 28080 kHz

6m - 50105/CW and 50115/SSB

As of press time, no call sign has been announced.

QSL via EA5RM direct (see Web page). You can use the OQRS (see Web page) for direct and Bureau cards.

Visit their Web page at:

<http://www.dxfriends.com/SanAndres2013>

In close co-operation between the DAGOE Foundation, Mercy Ships and 4 Dutch radio amateurs, plans are being made for a DXpedition to Republic of Congo.

The Team will stay in Pointe Noire between September 28th and October 11th. This is the group's fourth such operation/project. For their previous projects in Liberia (5L2MS), Benin (TY1MS) and Sierra Leone (9L5MS) the team was very honored and proud to be rewarded in 2013 for their achievements with the Yasme Excellence Award 2012.

The team will use the call sign TN5MS for this coming activity.

Operators mentioned are: Arie (PA3A) on CW/SSB, Ad (PA8AD) on CW/SSB, Arie (PA3AN) on SSB and RTTY and Marian (PD1AEG).

Activity will probably be on 160-10 meters using CW, SSB and RTTY.

The equipment consists of 3 transceivers and linears. The antennas are verticals for 160-30m and beams for 20-10m. For 160m and 80m extra receiving antennas will be used to improve station reception capability.

If conditions allow it and permission is received, they will try to activate 6m. They take special care to listen for remote locations and small stations. The goal of the team is to work as many different stations as possible in the different modes.

All donations and surplus from the QSL will be transferred to the Mercy Ships Charity Project. QSL via PA3AWW, by the Bureau or direct (see info on the Web page). Also, QSLs can be requested with a donation via the OQSL request service on the Web page. LoTW will be uploaded 6 months after the DX-pedition when logs are checked. The team is not using eQSL for answering QSL.



DX, CONT'D

Registrations continue to flow in the International Lighthouse and Lightship Weekend in August, with 250 from more than 30 countries being received already.

Plans are in place to set-up portable amateur radio stations throughout the world for the established friendly and fun-filled event.

The 100th registration is by the Deutscher Amateur Radio Club, Emden club station DL0EM at the Campen Lighthouse, on the North Sea Coast of Germany, active since 1891 and with that country's most powerful lighthouse lamp.

The 200th registration is for the Whitby High Light GB2WHL in England. That special event activation by the Denby Dale Radio Club, is near the fishing town of Whitby - well known as the place that explorer Captain James Cook became a seaman.

With registrations still ahead of last year's record, the 300th lighthouse, lightship or marine beacon should occur soon.

The International Lighthouse and Lightship Weekend is on August the 17th and 18th which is 10 weeks away. To register online visit the website at www.illw.net

Tom N4XP and Don N1DG, the C82DX DXpedition Co-leaders, posted the following press release (#2) on June 4th on the DXpedition's Web page:

"Planning and preparations are continuing for our October 2013 Mozambique DXpedition. Our amateur radio license has been issued and is in hand with the callsign C82DX. We are happy to announce this will be the first use of the C82 prefix.

We will be active starting October 15th, for eight days with operations ongoing through October 22nd. Ray Novak, N9JA has joined the team.

ZS6P and ZS6RI will travel to our operating site the first week of June for scouting, planning and preparation purposes. Our location in Xai Xai is located directly on the ocean in the southern part of Mozambique.

Low Band operations remain the primary objective, and we have secured both Titanex and Battle Creek Special verticals. We have also obtained the sponsorship of Array Solutions with one of their new shared apex loop array RX systems. They join ICOM (our main equipment supplier with IC7600s) and SteppIR (CrankIRs) as our major donors to our DXpedition.

During the day we will operate all HF bands including 6 meters.

There website is now live, so you can learn more about our plans.

DX is continued on page 9

WEATHER RESEARCHERS KILLED

A ham radio operator, his son and an associate who chased severe weather to help science better understand Mother Nature's wrath has been killed by a tornado in central Oklahoma.



Professional storm chasers Tim Samaras (WJ0G), his son Paul and fellow investigator Carl Young lost their lives on May 31st when a tornado that they were trailing suddenly and unexpectedly changed its path and rammed their vehicle near El Reno, Oklahoma which is just west of Oklahoma City

According to news reports it happened so suddenly the three severe weather investigators were unable to escape the storm's wrath. Tim Samaras was found dead in his vehicle still strapped in his seat belt. Paul Samaras and Carl Young had apparently been pulled from the vehicle by the tornado with the remains of one found almost a half mile away.



Tim and Paul Samaras and Carl Young were not your average storm chasers. The three were a part of a scientific field study called TWISTEX or the Tactical Weather Instrumented Sampling in or Near Tornadoes Experiment. This is a scientific field research program that had been originated by Tim Samaras. Its purpose is to better understand the origin, maintenance and decay of tornadic activity in the hope of gaining insight and knowledge of the seldom sampled near surface internal tornado environment. The experiment was well known in the meteorology community and had been featured on The Discovery Channel's television program Storm Chasers.

In a public statement honoring the three, the National Oceanic and Atmospheric Administration stated that Tim Samaras was a respected tornado researcher and friend of NOAA who brought to the field a unique portfolio of expertise in engineering, science, writing and videography.

The NOAA statement went on to say that Samaras' work was documented through an extensive list of formal publications and conference papers. News reports said that Tim Samaras held the Guinness World Record for recording the greatest pressure drop ever measured inside a tornado and was the only person to ever record video from the interior of a tornado using special technology that he had developed.



Terry Garcia is the Executive Vice President of the National Geographic Society. He said that his organization had provided 18 grants to Tim Samaras for research over the years for field work like he was doing in Oklahoma at the time of his death. Garcia added that tornadoes were not Tim Samaras' only interest and that his work on lightning was featured in the August 2012 issue of National Geographic magazine.

We hope you will join us in sending condolences to the families of these three valiant severe weather researchers.

APRS ANDROID APP

Chris (G4HYG) has just released a new APRS app for Android phones and tablets so that radio amateurs can send APRS position beacons and messages from an Android phone or tablet over a 3G or Wi-Fi link to the APRS-IS internet system. It can also link by Bluetooth to the new Bluetooth version of the APRS TNC Digi Tracker.

It has been designed to be simple to use as it only needs the user to enter a callsign and APRS passcode to get started. The APRS beacon rate is fixed at 3 minutes and the message decay is set at 31 seconds so that it can send messages to VHF APRS stations via a two way APRS igate.

Menu options include GPS position information including WGS84 location for worldwide use and OSGB location including National Grid Reference for UK users. Another menu option also opens an OpenStreetMap centred on the GPS fix.

The app can be used on any Android phone or tablet with GPS (and Bluetooth for use with the Bluetooth version of the Digi Tracker).

The app can be downloaded from the Google Play Store.

More information on a new web page:

http://www.crosscountrywireless.net/aprs_messenger_android.html

There is a small charge for the app to help pay for the development tool licensing fee.

ICOM SPONSORS HAM STUDY WEBSITE

Icom America, leading manufacturer of amateur (ham) radio equipment and technology, announces a sponsorship for HamStudy.org, a new website that offers free learning tools for existing and potential amateur radio operators.

The website is accessible at www.hamstudy.org and was created by Richard Bateman (KD7BBC), Michael Stuffelbeam (KV9G) and Rich Porter.

HamStudy.org users studying for an amateur radio license exam can choose from three online learning modules for each ham radio class: technician, general or extra. FCC Commercial Element 1, 3, 5 and 6 study modules are also available. Educational materials include flash cards, question lists and practice tests.

Users who register for a free HamStudy.org account on the site can access personalized study history and submit explanations to amateur radio questions. Website registrants may also choose to log into their account using their Google or Facebook credentials. HamStudy.org is optimized for mobile phones and tablets; additional features will be integrated to the website soon. Facebook users can receive regular site updates and study tips by "liking" HamStudy.org at [www.Facebook.com/HamStudy](https://www.facebook.com/HamStudy).

Icom is committed to the amateur radio hobby and supports many organizations that provide educational material for operators of any skill or experience level. In addition to HamStudy.org, Icom has also partnered with the Ham Nation weekly netcast from TwiT.tv and the AmateurLogic.tv Internet television program. Icom has also been a proud sponsor of the Boy Scouts of America (BSA) since 1981. The company is the official amateur radio transceiver supplier for the BSA's 2013 National Scout Jamboree.

FIELD DAY PICS



MORE FIELD DAY PICS



PROPOSED RULE CHANGE FOR TECH'S

The Toledo Mobile Radio Association has filed a Petition for Rule Making with the FCC asking for increased voice privileges for Technician Class license holders in the 10 meter band. In its request the group is asking that Technician class privileges to include 29.520 MHz to 29.700 MHz which covers the gentlemen's agreement repeater subband on 10 meters.

Tony Everhardt, N8WAC, is with the clubs Technical Committee.

N8WAC: "During the talks of a 10 meter repeater I suggested that if we put up a 10 meter repeater just the General class and higher can use that which doesn't benefit the Technicians. This was a few months ago and the more I thought about it the less it made sense that they Technicians) do not have FM privileges. They can talk world wide from 28.300 to 28.500 MHz but they are not able to use the FM portion of the band."

N8WAC: "I brought up to the Technical Committee the suggestion of filing a Petition and the Technical Committee was all for it. So the Committee brought it up to the membership at the monthly meeting and it was a unanimous decision to file the petition."

In its rule making request the Toledo Mobile Radio Association argues that the current FCC rule that limits both Novice and Technician Class operators to 28.000 MHz to 28.500 MHz is not in keeping with the reality of today. It notes that with linking of various repeaters, the Internet Radio Linking Project and Echolink it feels that Section 97.301 (e) which allows the Technician class license privileges on the 10 meter band only from 28.000 MHz to 28.500 MHz is outdated.

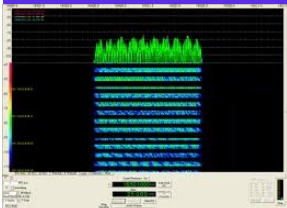
The bottom line of the Toledo Mobile Radio Association rule making request is that its time to bring Technician voice privileges on 10 meters up to date. Also to bring them in line with the technology and the reality of ham radio in the 21st century.

OTH RADAR HF INTERFERENCE

The latest Amateur Radio Union Monitoring System Region 1 newsletter reports a United Kingdom military station identified as STANAG 4285 station has been heard on the 20 meter band. Reports are that the station which is believed to be in Norwich, England has been on 14.236.8 Megahertz. What action taken to get it to move is unknown

Also in the newsletter DGZ0JBJ reported during May no less than 11 Over The Horizon or OTH radar systems have been heard on 20 meters, with 30 on 10 meters and an almost unbelievable 65 of these radar devices heard and logged on the 15 meter band. The newsletter says that these figures do not include the numerous frequency jumping Iranian Over The Horizon radars in that nation.

You can read the entire monitoring service intruder report on the web at tinyurl.com/hamband-intruder-alert. It's a real eye opener for those who are new to HF and not quite certain of the source of the noise that may be causing harmful interference to a QSO.



FIRST U.S. VE (WXUP) SILENT KEY

It was just two short weeks ago that I visited with the ever pleasant Wilse Morgan WX7P. I have learned that Wilse has since become a Silent Key, having succumbed to cancer on June 16.

I have known Wilse for a dozen or more years. We really got acquainted at a long ago SeaPac DX Luncheon. We were seated side-by-side and the speaker was a "no-show", which left the two of us with plenty of time to swap tales. It was very easy for me to like Wilse. It was also plain for me to see that Wilse was a man who got a lot out of ham radio and it was even more evident that Wilse "gave as good as he got".

WX7P had an amateur radio career that spanned more than seven decades! First licensed back in 1952 as WN6PVF, it would be under the call KL7CQ that Wilse Morgan would go down in the history books and shape the future of amateur radio in the United States.

Working on behalf of the Anchorage Amateur Radio Club, Wilse petitioned the FCC to become the first Volunteer Examiner in the United States and submitted a proposal outlining the VEC program.

Witse was the only Volunteer Examiner ever to be certified directly by the FCC (all others have been certified by their respective VEC's). In 1984 Wilse, along with Roger Hansen-KL7HFQ, and Margaret Ogren-KL7KL administered the country's very first amateur radio examination by a VEC.

Witse had a varied professional career. He served our country in the U.S. Navy. Was employed in electronics for several years by the FAA. Owned and operated a successful printed circuit board company with nearly 100 employees. Went to work in Alaska on the DEW Line and Early Warning radar systems. Taught amateur radio for 13 years at the Community College in Anchorage.

Witse was on the DXCC Honor Roll with 280 confirmed and he helped others achieve this goal by volunteering as a card checker. In fact he was busy performing that task two weeks ago at SeaPac. He also spent considerable time manning the ARRL booth at the convention and it was here that Wilse and I shook hands for the last time. SeaPac weekend was busy for Wilse in addition to manning two booths, he also topped it all off by filling the room when he gave his seminar on building a 1000 ft. Beverage antenna

If all of this wasn't enough Wilse was serving as Assistant Section Manager for Eastern Washington at the time of his passing.

I've heard it said that men sometimes wear the hearts on their sleeves. With Wilse I believe he wore it on his back. I do not recall ever seeing Wilse when he was not wearing his bright red vest, emblazoned with amateur radio patches, badges, and pins.

Witse had many awards including being inducted into the CQ Magazine Amateur Radio Hall of Fame in 2009 and one from the ARRL for helping save 9 lives from an airplane which had crashed into remote Lake Minchumina in Alaska.

Two days before becoming a Silent Key Wilse received a plaque for high score in the NW Division for Unlimited Multioperator in the 2012 ARRL June VHF contest, breaking his own record with a score of 101,010 points from 532 QSOs

John Bigley N7UR

KEEP HURRICANE NET FREQS CLEAR

The Atlantic hurricane season officially started on June 1st and many predictions indicate an above average number of storms this year. And as amateur radio continues to play a significant role in the gathering and distribution of information for the weather and emergency services each year hams in other IARU Regions are being reminded that the same frequencies may be in use by nets in North and Central America to track and deal with the consequences of these severe weather events. As such, it is possible for Region 1 or Region 3 amateur stations to cause unintentional QRM to these nets. Because of this, hams world-wide are being asked to please listen carefully if operating near these frequencies. A full list of which nets are operating on various frequencies can be found on line at www.iaru-r1.org



TESLA MUSEUM SAVED

Some good news for those working to maintain the history of communications. This with word that the famed Tesla Laboratory on New York's Long Island has been saved and is now in the hands of the non-profit organization that has been working to purchase it for the past eighteen years. It all came about because of the dedication of famed cartoonist Matthew Inman, who is the creator of "The Oatmeal." Inman was able to raise \$1,370,461 by crowd-funding to set up a permanent museum honoring the great scientist.



The purchase price of the former Nikola Tesla laboratory was \$850,000. The remainder of the funds raised by the campaign will be used to clean up and to begin renovations of the property. Although the actual science center is going to take a lot more time to finance and build, in the interim those involved in the project are planning on having a celebration of sorts in Shoreham, New York, hopefully sometime this summer. That event will focus on science, technology, and innovation. You can read the entire story on-line at tinyurl.com/tesla-museum-saved.

DAYTON ATTENDANCE RISES

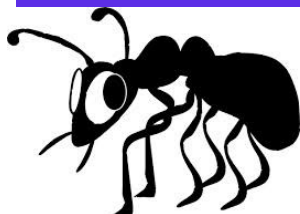
According to an announcement posted to the Dayton Hamvention website, the official attendance figure for this years gathering was 24,542. This is a very modest increase of 59 attendees over last years 24,483, but is a major increase over 2007 when only 19,750 showed up.

The all time high took place in 1994. That's when the Dayton Daily News reported that some 35,000 walked through the gates at the Hara Arena for that years Hamvention.

STRANGE COMMUNICATIONS

So you think you have seen everything. Try this on for size. Recently a 75 year woman in a southwestern German town called police at 3 a.m.. Her complaint was that she couldn't sleep because her doorbell was always ringing. Police officers dispatched to investigate the cause quickly tracked down the culprit. It wasn't some form of poltergeist or other strange phenomena. Rather ants had constructed a large nest next to the doorbell. In fact, the tiny creatures had built such a large home that the nest pressed the doorbells switching contacts together. That in turn kept ringing the bell.

Officers silenced the intermittently ringing doorbell by removing the nest with a knife. Likely much to the dismay of the ants who had spent the time to build it there.



LOST MOON DUST FOUND

Several vials of moon dust brought back to Earth by the first men on the moon have been found inside a lab warehouse in California. This after sitting in storage unnoticed for more than 40 years.

Many of you likely remember those fuzzy live pictures from the moon's surface when Astronaut Neil Armstrong became the first human being to set foot on an alien world. We also watched as Armstrong and Apollo 11 crew mate Buzz Aldrin collected samples from the Lunar surface before returning with them to mother Earth. Now some four decades later a part of the samples that Armstrong and Aldrin brought back with them were recently rediscovered by an archivist who was going over artifacts tucked away at the Lawrence Berkeley National Laboratory.

Karen Nelson, who made the surprising discovery, said in a statement from the lab that they don't know how or when the samples ended up in storage. She says that she came across about 20 vials with handwritten labels dated "24 July 1970," packed in a vacuum-sealed glass jar. Accompanying the jar was an academic paper published in the Proceedings of the Second Lunar Science Conference in 1971, titled "Study of Carbon Compounds in Apollo 11 and Apollo 12 Returned Lunar Samples." All of the authors of the paper were from the University of California, Berkeley's Space Sciences Laboratory. This included Nobel Prize-winning chemist Melvin Calvin, who worked with NASA on efforts to protect the moon from contamination during the first lunar landing, as well as planning on how to protect those on Earth from unknown pathogens that might have been lurking on the Moon's surface.

It turns out that the moon dust samples were supposed to have been sent back to NASA after the Space Sciences Laboratory team finished their research on them for some unknown reason they instead ended up in storage. After making the discovery Nelson then got in touch with NASA officials. They in turn permitted her to open the jar to remove the vials before she returned them to the space agency and making for a happy ending to a 4 decade old story that began on the surface of the Moon.

VE'S - WATCH THAT PAPERWORK

A clerical error by a VEC will likely lead to a license downgrade for a California ham. This after the FCC releases an order proposing to modify the license of James H. Schofield (KI6JIM) from General to Technician due to no fault of his own.

On November 29, 2012, the W5YI Volunteer Examiner Coordinator sent an electronic data file to the Commission requesting that Schofield's operator license for amateur station KI6JIM be modified to upgrade to General Class amateur radio operator privileges. Based on this application, the Commission granted Schofield a General Class license on November 29, 2012. On May 30, 2013, the W5YI VEC notified the Commission that it had made a typographical error in the November 2012 data file and that a licensee other than Schofield had qualified for a General Class operator license. W5YI VEC noted that a correction was filed, resulting in the other licensee receiving the operator license for which he had qualified but that Schofield's operator privileges had not been returned to Technician Class operator privileges. The W5YI VEC urged the FCC to modify Schofield's license to correct the operator privileges.

In a June 4th Order Proposing Modification the FCC says it believes that the grant of General Class operator privileges to Schofield was erroneous because he did not pass the examination necessary to qualify for that class of operator license. Rather, he appears to be currently authorized to operate with General Class operator privileges due to a typographical error made during the application process. As such it believes that a modification of the license for amateur station KI6JIM to replace General Class operator privileges with Technician Class operator privileges is appropriate. It also notes that if Schofield opposes this action that he has 30 days to submit a written statement with sufficient evidence to show that the modification would not be in the public interest.

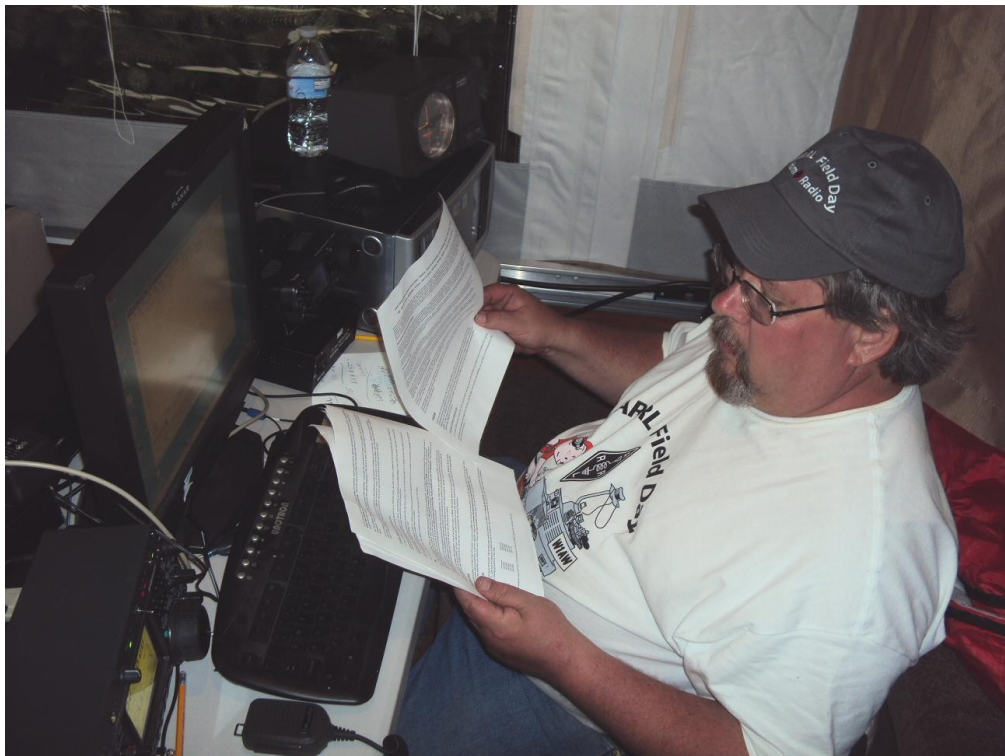
FIELD DAY PIC'S, CONT'D



OR



EVEN MORE FIELD DAY PICS



If you did not see enough pictures of Field Day (or your picture at Field Day) point your browser to the link on page 1 and check out the W8AL website.

W8AL

www.w8al.org

The Canton Amateur Radio Club, Inc.

P.O. Box 8673

Canton, OH. 44711

President - William Hannon (N8PW)

Vice President - Dale Lam (NX8J)

Secretary - Scott Duncan (KK8D)

Treasurer - Roger Gray (W8VE)

Trustee - Jerry LaRocca (KF8EB)

Trustee - Jim Manson (KA8JIM)

Trustee - Dennis Moriarty (K8AGB)

Trustee - Jerry Shrigley (N8YB)

Trustee - Justin Corner (W8JKC)

Trustee - Alan Lamb (KB9TAY)

Publicity Director - Dennis Moriarty (K8AGB)

W8AL repeater = 146.790 MHz



Our monthly meetings are held every third Wednesday at 7:30 P.M. at the Stark County EOC (Emergency Operations Center) (lower level) at 4500 Atlantic Blvd. NE in Canton, Ohio.

See our website for a handy map to the location. All are welcome, especially visitors.

that one last thing

Due to the limitations of early teletype machines, the US Navy has until now, only issued official communications in upper case.

The policy was a legacy of the fact teletype machines adopted in the 19th Century did not have lowercase letters.

A message was sent to all commands on April 30, 2013 notifying them messages would soon be able to use a mixture of lower and upper cases. The BBC reports the order itself was, ironically, delivered in ALL CAPIAL LETTERS.

Read the full BBC News story

<http://www.bbc.co.uk/news/technology-22892166>

Wiki - Teleprinter

<http://en.wikipedia.org/wiki/Teleprinter>

