



# The Bullsheet

The Official News Bulletin of  
The Texas DX Society  
An ARRL Affiliated Club

The Texas DX Society, Houston TX K5DX@tdxs.net April 2014

## April Meeting: From Earth to Ground. Or...Grounding Made Simpler. By Bob W5UQ

It will focus on the theory and how to install a good ground system for your ham station. Mainly for lightning protection. It will work for RF and AC grounding too.

Here is some additional BIO info:

Licensed as WN5EUQ in May 1954. In September 1954 became W5EUQ, holding that call for 53 years. Then obtaining vanity call of W5UQ in 2007.

Note: In May 2014, will have been licensed for 60 years.

Operate mostly CW. Some SSB and RTTY.

Love working on electronic equipment.

Also: Retired RF and Studio Broadcast Engineer of over 50

years. Attended Purdue University for BSEE. Lifetime Member of Society of Broadcast Engineers and lifetime certified.

Served military 1962-1968.

Currently TDXS

President.



### Editor's Note by Allen N5XZ

As many of you know, the bands have been holding up and in fact quite exceptional for a while now. (Of course that is exceptional by this cycle's standards). Still, a lot of fun and several great DXpeditions were held during the month of March. Among those that I worked were: VK9X/K7CO; 9X0NH; VK0JJJ; XV9NPS; XU7-TZG; HK0/UA4WHX; XZ1Z; ZL7/OE2SNL; ZL7AAA; TX6G; 7P8PB; VU4K; T6T and VK9MT. I also worked VP8NO and VP8ALJ on 6m, which were new on 6 for me. In

addition, I achieved a new milestone: I hit 125,000 QSOs during my 44 year ham career. Let's see, that's 2841 per year or 7.75 per day or about one QSO every 3 hours... The Greater Houston Hamfest was again a great success. Early reports are that attendance might have been slightly higher than last year. And a big congratulations to W9DX, who won the Grand Prize, an Icom IC-7100. Thanks to TDXS member K5HM who gave a presentation on "Radiosport 101—The Joy of Contesting". Unfortu-

nately, I did not get to see Ron's presentation, but knowing Ron, I'll bet it was a good one. I am again really looking forward to Field Day. It appears that both TDXS and Echo will be joining BVARC at the Fireman's Training Grounds in Richmond. I for one am hoping it to be another great FD! The interesting thing to note is that BVARC has one of those triplexers which allows three transmitters to use one beam...it worked great last year! For now, 73, Allen N5XZ

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## The Prez Sez by Bob, W5UQ

# BS Prez Sez for April 2014

By Bob Hardie W5UQ

Another month has zipped by us all again.....and what have we to show for it? Think back and if you remember very much about the last month, then you are above average... well at least in our club.

☺ ☺

As for me, after presiding over the joint TDXS/BVARC meeting on March 13<sup>th</sup>, and presenting the program "3DA0ET, DXpedition to Swaziland 2014", I found that the month went by so fast that my head is spinning. Of course, that may be normal for me.

Anyway, March is a big hamfest month and we attended three in a row. On March 14<sup>th</sup> and 15<sup>th</sup> was the Rayne Louisiana Hamfest. It is a nice size hamfest that is held just west of Lafayette. It is mostly all indoors and they feature a live Cajun Band entertaining all, while attendees eat Cajun food. And this is just Friday night.

There is a big "mud bug" feast. Also other food is available in case you don't like mud bugs. And I have to say, lots of hams..... and people too, attend. ☺ The attendance Saturday is very good as well. In fact, this hamfest is growing each year. Good prizes too. Kudos to the hamfest committee. Glen Thibodeaux, KF5FNP, is the one that I know and he is the one that has talked me in attending each year. It is a good one. Ask Keith Dutson, NM5G. I saw him there one year.

Last weekend was the BVARC, Greater Houston Hamfest, on March 21<sup>st</sup> and 22<sup>nd</sup>. This is always a well-organized and well-orchestrated hamfest. In my opinion, it is getting bigger each year too. For one thing, I didn't see any empty tables at all

this year. And the place was packed with everyone seemingly having a great time. Good door prizes too. Good luck BVARC and "Kudos" to the BVARC hamfest committee. There are so many to name... suffice it for me to say, "Good job guys".

And then the Belton Hamfest on March 28<sup>th</sup> and 29<sup>th</sup> where we had a torrential downpour and some hail on Friday afternoon during setup. Not too many hams were in the parking lot setting up. ☺ But then, a cool front came through and Saturday was wonderful. Attendance is fair. The building was full of flea marketers. Some years there are some empty tables and spaces. IMHO, I feel that the attendance isn't really growing much. Hopefully I am wrong. This hamfest is every six months and is a good place to go and have fun. Give it a try this October.

Next I am heading off to Visalia California to the International DX Convention. Looking at some of the pictures of past conventions, I see that Paul Franz, Bob Walworth and Madison Jones are frequent attendees. I'm sure there are other hams from around here that have and do attended. I am just mentioning some that I saw in the pictures of past conventions. I may report on it a little more in my next month's column.

Then in May, it's the ever-popular Dayton HamVention. My wife and I make it to that one every year now. Speaking of that, we also make it to the February Orlando Florida HamCation every year. Now this is an event that is really growing and hopefully some day, as it grows and Dayton shrinks, Orlando might just catch Dayton.

Dayton still has a good foothold on the ham community. And that is good. Let's hope that the Dayton attendance has hit bottom, (it has been reported that the attendance is decreasing each year) and will just grow and grow. Good luck Dayton. And good luck Orlando too.

Also, a big good luck to us all here in Texas. That is, that our ham fests will be

growing each year too. We need to keep promoting our hobby to the young. And don't forget that a lot of middle aged and older people may be attracted to our hobby too. Not just the young. However, some younger hams wouldn't hurt. Oh my aching back. ☺

Let's all REMEMBER to try to bring a ham to TDXS meetings. Or even just to the dinner before meetings. Or to one of the dinner meetings, like on May 1st. (See TDXS website after the April meeting.)

The next TDXS meeting is at Tracy Gee at 7pm on April 10<sup>th</sup> with the before meeting group meeting at Papa's BBQ at 5:30pm.

And the beat goes onnnnnnnnnnn. CUL

## DX Report by Cookie K5EWJ

### DX Chairman Report

There are a lot of DXpeditions in the field and I have managed to work most of them. I believe that TX6G is going home today. I still need them on 160 and 6, but I don't think they have worked many, if any on those bands. Austral Islands are not as austere as many of the Antarctic islands, so there will probably be more DXpeditions there.

VK9MT landed on Mellish Reef with 11 operators for a 10 day stay, planning to leave April 9. They are number 22 on the Club Log listing. The plan to run 6 stations and cover 160 through 10 meters, SSB, CW and RTTY. I can hear them about 539 on 17 but I am sure the Jas and Europe is much louder than I am. I am also hearing them on 21.023 CW but the KC Cop Lids are drowning them out.

VU4K left Andaman Island March 30. Krish was tough to work for less well equipped stations. He is a SSB and RTTY Operator mostly and I have been able to work him on 12 and 10 SSB. I took time off the WPX to get him on 12 this Saturday. He worked 4704 QSOs, mostly on 10 and 12 meters with the attempt to give Andaman to as many as possible rather than supplying band fills. Since I needed Andaman for Mixed DXCC, I should be happy with 2 bands of SSB. Krish worked 3386 unique calls with 27% NA, 15% JA, 2% VK/ZL and over 50% Europe. His signal was not strong most of the time during US openings and I found it best to listen for long periods and call when his signal peaked. It was tougher on Krish's end as the distance was great and the entity was much in demand, so the going was slow. Krish had propagation to Europe and USA at the same time, so working the weaker USA stations was challenging, not to mention that it was a one man operation for 10 days with little rest. We need to thank Krish for a big effort to give a new one to many. Andaman was number 42 on the need list that I use, so a

very rare catch.

ZL7AAA has been supplying Chatham Island to many on the upper HF bands with a 4 man international operator team. They were one of few of the DXpedition teams which gave contest QSOs during the WPX Contest. The others stayed on the WARC bands to avoid the Contest congestion. I read that they planned to leave today, April 1, 2014.

Several operators from Qatar decided to get together and provide their country for the WPX using the call A73A. I was able to work them on 20, 15 and 10 during the contest for another counter toward Mixed DXCC for me. They are listed as number 182 on the Club Log most wanted list, but every time I have found them they were working in a relaxed mode and QRTed before I was able to get in the log which moved them to #322 on my current DXCC list.

I just worked TO7BC on 10 meter CW for another Phone DXCC entity. He is on the Mayotte Islands, and will be there until April 4. Mayotte is Most Wanted #114, but confirmed as #317 for me. I missed his DXpedition and found him on the cluster tonight. So, I will do my best to warn you, but you can help yourself by looking at the cluster when you are in the shack and following the Daily DX, DX Coffee and other services. You can Google the location or the call and follow with DXpedition to find your own clues. I can't give you the DX on at any one time, either through the Bullsheet or the various club reflectors. I can clue you in on some of the DX that I have found and how I found them so that you can look in real time for yourself. I can also give you pointers or address questions that you may have, on the reflectors if appropriate or for general information in the Bullsheet.

Today being April 1, we are getting the usual April Fool jokes, but some are easier to detect than others. Today's DX Coffee featured the following teasers. You may subscribe yourself and get them directly in your email. The first one

sounds like an April Fool joke, but I know that the second is legit. K5HM in case you do not recognize the call is a TDXS member as well as a BVARC member and an IOTA enthusiast. The P5DXC announcement may not be an April Fool joke, just bad timing. We will see!

### P5DXC North Korea by Dx Coffee Staff

Posted: 31 Mar 2014 09:48 PM PDT  
Flash News!!! Francesco IZ7KHR, Antonello IT9YVO, Giorgio IZ0HQI, Francesco IZ7AUH, Mark WoBG, Alex IKoYFU, Fabrizio IUoBPM and Davide IZ8ESX will be active from North Korea (1 – 8 May 2014) as...

### N5T Mustang Island NA-092

Posted: 31 Mar 2014 01:02 PM PDT  
Ron, K5HM informs DxCoffee Readers: "The Red Daemon Contest Team (Work them like the Devil!) will activate Mustang Island, NA-092 during the Texas State Parks on the Air event April 5, 2014,..."

I took note during the WPX that both Russian and Ukraine stations were abundant. It makes me wonder if those respective governments are not encouraging their Amateur Radio operators to take part in international QSOs to boost their public image. It is hard to tell because both governments are active supporters of Amateur Radio. Perhaps the "Dear Leader" of the People's Republic of Korea has decided that Amateur Radio would be good for his image in the world and we will have some activity there for a change. There are certainly operators from the country of his choice willing to activate this rare country.

I have noted an acknowledged spoof about the FCC reinstating a code


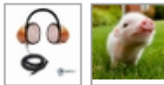
# DX Report by Cookie K5EWJ

code requirement for General and Extra licensees, I am afraid that this one is really in the too good to be true category, but it really sounds good!

I am particularly gratified that my efforts to publicize the DX that is on the air is resulting in some new countries and similar activity from others. I think that this is great and I am all for chasing DX in any way possible. I have not changed my tune in wanting to encourage more contest activity, but we have a Contest Chair-


man to concentrate on that effort.

Be sure and check your contest log to see what you can add to your CQ Marathon Log. I have not finished checking, but I think I added about 6 for 183 countries in 2014 plus Zone 2 to complete the 40 zones. Maybe you did as well or better. Keep on DXing, supporting Club Log and the CQ Marathon.

## HeadRoom HamPhones

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- Moist Notes With Hickory Overtones
- Gold Plated 1/4 in Adaptor
- Designed For Bit-Perfect 32-Bit DSD Lossless High Fidelity DAC Conversion and Sample-Rate Supercharging
- Not Kosher

### selection guide

[10 Best Headphones](#)  
Our top 10 favorite headphones ... it's so hard to just pick ten.

[HeadRoom's Top Amps & DACs](#)  
HeadRoom's most popular amps & DACs for getting the most out of your headphones.

[Travel](#)  
Going somewhere? Here's what you'll need to bring your music along for the ride.

[Exercise & Running](#)  
The best headphones to give your exercise and running workouts a boost.

### learning center

[Why Do I Need A Headphone Amp?](#)  
A good headphone is like a good

.....



## Contest Chatter by Joe W5ASP

### CONTEST CHATTER

The big contest events for March were the ARRL DX Phone (reported in last month's Bullsheet) and the CQ WPX Phone contest the final week of the month. Kirk, KV5Q; Doug, WB5TKI; Ron, K5HM; Kim, K5TU; Cookie, K5EWJ and Chuck, W5PR all reported activity in WPX. Chuck, operating as KZ5MM, again did an outstanding job. Kim also operated BARTG HF RTTY. If there were any others, they kept quiet about it. The 3830 club report only listed four calls. We're still not getting the TDXS name up on the marquee.

A quick glance at the contest calendar for April confirms the lack of any major events. To some it's a slack month ... a good time for some serious weekend DXing. However, a closer look reveals two interesting groups of "other" contest events. There are a half dozen or more "single country" affairs, e.g. SP, OK/OM, YU, JIDX, EA RTTY, etc. These can be interesting ... under the right conditions. We'll look into such events in a later column.

To my way of thinking the more interesting activities are the state QSO parties. There are a bunch of them over the upcoming four weekends in April. These include MT, MS, NM, GA, MI, ON, NE, ND and then FL. Approached in the right way they can prove to be a lot of fun. Activity levels are modest with quite a bit of variety from the many counties that show up. Here are some suggestions as to how you might want to proceed.

For each state there will be an "official" website. Simply Google [**State**] **QSO Party 2014**. There you will find the rules, a state map of counties, county abbreviations, a list of mobiles with their routes, and related information. Exchanges are usually pretty simple ... RST then State for you and county for the locals. You'll want to carefully note the start/finish times and band./freq. suggestions. Sometimes there are separate sessions for Saturday and Sunday which may fit your weekend schedule a bit better.

Being here in SE Texas we usually have a good shot into all but the adjacent states on 10, 15 and 20 M, and to everyone on the lower bands. The bulk of the activity will be on 20 during the day switching to 40 after dark. Don't neglect the other bands, but just don't be surprised if they're "slim pick-

ens". And if there is more than one state on at the same time, work 'em all.

Before you start operating there are a couple of things to do that will be a big help. You have two choices. Either printout the state map showing the counties, the list of abbreviations, the mobile routes, and any list of stations expected to be active, or put this information in separate windows that you can select when needed during the logging process. Keeping track of who's where is the essential element in operating a state QSO party. (There are several good logging programs that keep track of the individual counties as you work them, but that's another subject entirely.)

You can use about any logging software that handles the basics, i.e., calls, time, band, etc. The trick is to enter the call along it's county. The simplest way to do this is to enter the call with a "forward slash" (/) followed by the county abbreviation, e.g. K5DX/Harr. Do this for every station worked. This will show you when you dupe a fixed station, and allow you to track the mobiles.

Should you have two states active at the same time try K5DX/TX\_Harr. Since I know you are going to submit your log, you'll have to do a bit of editing after the contest, but then nothing is ever without it's downside. Think of it as "SODL" ... single operator, dual logs.

The reality of it is that with a casual effort you can expect to work something less than a hundred stations/counties. They'll be a number of mobiles flitting around the state and a few fixed stations popping up from time to time. You'll have plenty of time to "multi-task" so your weekend isn't entirely taken up with the contest. You can put the "serious" mobile's frequencies in your rig's memories, and just do a memory scan from time to time. The ease of operating and relaxed atmosphere make the majority of state QSO parties a fun way to play radio.

Now there is another side to the state QSO party arena. That's where the "biggies" come onto the scene. The Texas QSO party is a different world entirely. Let's defer that until another time.

The two I believe to be at the top of the list are the California and Florida parties. Both feature a high level of activity both in-state and out-of-state. In each case every county in the state will be active. Trying to work

them all is a real challenge, but doable.

This should get you started. Give a few of the state parties a try and see how you like it. Both modes, CW and SSB are available. You can double your fun by doing both. Count your counties and maybe next year you can do better. Until Next Time ... "dit dit" ... Joe, W5ASP

# QSL CARDS FROM SHANTI, 4S7WP By Dale KG5U

At a recent monthly meeting of the Johnson Space Center Amateur Radio Club was ending, a gentleman walked up to me and introduced himself as Shanti Perera, 4S7WP, from Sri Lanka.

He handed me three stapled pairs of QSL cards. One pair was for me; one pair for George Wagner, K5KG; and the third for David Busick, N5JJ.

Each pair contained the original QSL card each of the three of us had sent to Shanti after our respective contacts with him via ham radio. Attached to our own cards was Shanti's card.

Shanti was in town visiting his sister and, from what I've learned, he brings with him QSL cards to deliver to hams where he will be visiting.

Below are the card front's and back's and the picture I had Shanti's nephew take of us.

The image displays three sets of QSL cards, each consisting of a front view (left column) and a back view (right column). The front views are for stations 4S7WP (Sri Lanka, Zone 22) and the back views are for stations N5JJ, K5KG, and KG5U (Texas DX Society). Each card includes a header with the station call sign and logo, a table for QSL details, and a photo of two men (Shanti and Dale) holding the cards. The back views include a 'Confirming QSO with station' table, a 'Comments' section, and a '73 FROM KESCUN' stamp.

**QSL Card Fronts (Left Column):**

- 4S7WP (SRI LANKA ZONE 22):**
  - Call Sign: 4S7WP
  - Table:
 

COORDINATE	QSO	MODE	DATE	TIME	YEAR	HR	MIN	SEC	POWER
N5JJ	7	1	1982	0209	17	589	CW		
  - Notes: SORRY FOR LONG WAIT DAVID
  - Operator: W.P.S. PERERA, 11A, Wijaya Rd. Kolonnawa, Wellampitiya, SRI LANKA.
- 4S7WP (SRI LANKA ZONE 22):**
  - Call Sign: 4S7WP
  - Table:
 

COORDINATE	QSO	MODE	DATE	TIME	YEAR	HR	MIN	SEC	POWER
K5KG	20	10	91	0004	14	589	CW		
  - Notes: SORRY FOR LONG WAIT GEORGE
  - Operator: W.P.S. PERERA, 11A, Wijaya Rd. Kolonnawa, Wellampitiya, SRI LANKA.
- 4S7WP (SRI LANKA ZONE 22):**
  - Call Sign: 4S7WP
  - Table:
 

COORDINATE	QSO	MODE	DATE	TIME	YEAR	HR	MIN	SEC	POWER
KG5U	5	9	89	1255	14	589	CW		
  - Notes: TKS/GSL DAVID SORRY FOR THE LONG WAIT
  - Operator: W.P.S. PERERA, 11A, Wijaya Rd. Kolonnawa, Wellampitiya, SRI LANKA.

**QSL Card Backs (Right Column):**

- N5JJ (TEXAS DX SOCIETY):**
  - Operator: David Busick, 12301 Zavalla, Houston, Texas 77085
  - Table:
 

MBHz.	Date	GMT	RST	2-Way	QSL	OPR
1.8						
3.5						
7						
14	07 APR 1982	0209	579	CW	PSE	
21						
28						
  - Comments: TKS FOR QSO
  - Ant: 4EL-37M
  - Stamp: 73 FROM KESCUN
- K5KG (TEXAS DX SOCIETY):**
  - Operator: George I. Wagner, 11502 Quail Creek Dr. Houston, Texas 77070
  - Table:
 

MBHz.	Date	GMT	RST	2-Way	QSL	OPR
1.8						
3.5						
7						
14	20 DEC 91	0004	579	CW	PSE	
21						
28						
  - Comments: TKS QSO SHANTI
  - Ant: 65DB
  - Stamp: 73 FROM KESCUN
- KG5U (TEXAS DX SOCIETY):**
  - Operator: DALE L. MARTIN, 12610 Barbizon, Houston, TX 77089 USA, Harris County
  - Table:
 

COORDINATE	QSO	MODE	DATE	TIME	YEAR	HR	MIN	SEC	POWER
4S7WP	5	9	89						
1255	14.0	579	CW						
  - Comments: SHANTI DXCC-CW TKS QSO UP LIT. TKS FOR QSO. E.K. TF2WVY, WASWFP WSRRR QSL MOR
  - Ant: 3DBLE
  - Stamp: 73 FROM KESCUN

**Photo (Bottom Left):** A photograph of two men, Shanti Perera and Dale Martin, holding their respective QSL cards.

## Yaesu System Fusion Coming to a Repeater Near You!

It all started as a routine phone call from Orville K5VWW to Dennis Motschenbacher K7BV (TDXS president 1984 and currently Yaesu Executive VP of Sales). Orville had heard Dennis work one of the DXpeditions in a pile-up that was difficult to copy in Houston, and Dennis had a big advantage working them from his new North Carolina QTH. Well the conversation lasted some time covering all kinds of things about TDXS when Dennis asked if we would be interested in trying out Yaesu's new DR-1 digital repeater for VHF/UHF. Dennis is a long time friend and I see him every year at the Yaesu booth in Dayton to catch up on TDXS happenings and Yaesu's latest and greatest toys. I contacted Dennis immediately, and he promptly sent the application forms to apply for this test program. Well, I'm happy to say that TDXS was approved in only a couple of days, and

the Cypress, California guys quickly shipped out the DR-1 System Fusion repeater as well as their new digital FT1DR handie-talkie, and FTM-400DR digital mobile unit for testing and evaluation.

The nice thing about the new digital system is that it seamlessly translates between analog and digital FM formats, so that your existing rigs can still be used while you consider transitioning to the newest digital Yaesu rig. See the inside cover of the April QST issue for more details. Yaesu also has the owner's manuals on their website if you want to explore this further.

Repeater chairman Glenn Anderson WB5TUF, now has the equipment and will be working on installing it soon. Glenn decided that we'll use this on the 442 repeater instead of

2m since the 442 repeater is currently running on low power after the high power amp went out recently. Echolink and IRLP will be unavailable on 442 until we come up with a new interface or wait for Yaesu's "Wires-X" box which is expected to be available soon. Glenn will be using the FT1DR to test the repeater once installed within the next few weeks. Local full and associate members are welcome to try out the digital capabilities of the new system once installed with the FTM-400DR. Contact Glenn if you're interested.

A special thanks to Dennis K7BV for remembering his old friends in Texas, and to Orville for giving us the "heads-up"!

Steve - W9DX  
Trustee for K5DX



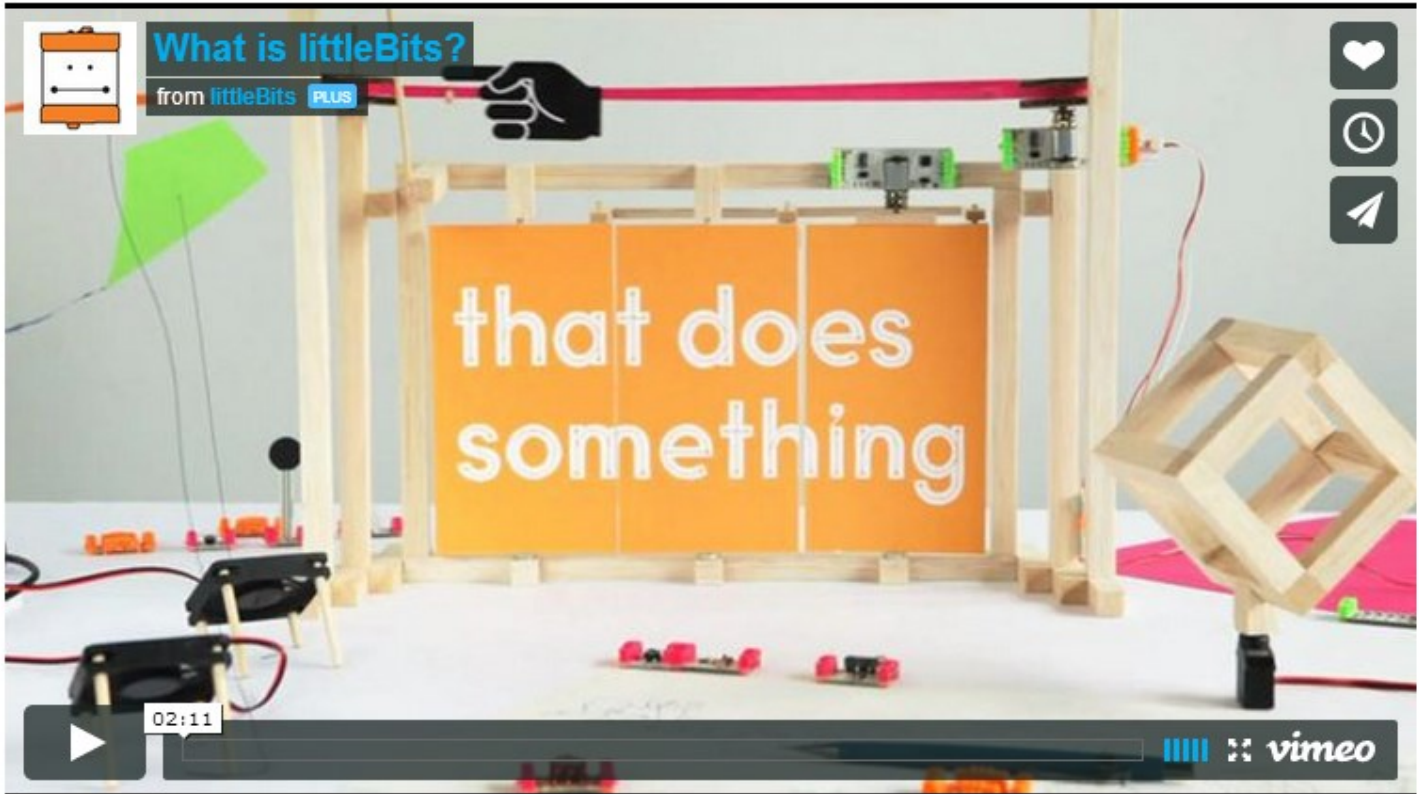


## What is littleBits?

Here's something I read about in Popular Mechanics. Looks like a great way to introduce electronics to young people. Go to [www.littlebits.cc](http://www.littlebits.cc) and see for yourself!

Allen NSXZ

# What is littleBits?



**littleBits makes an opensource library of electronic modules that snap together with tiny magnets for prototyping, learning, and fun.**

littleBits (spelled lower case L, upper case B, all one word) consists of tiny circuit-boards with specific functions engineered to snap together with magnets. No soldering, no wiring, no programming, just snap together for prototyping, learning and fun. Each bit has a specific function (light, sound, sensors, buttons, thresholds, pulse, motors, etc), and modules snap to make larger circuits. Just as LEGO™ allows you to create complex structures with very little engineering knowledge, littleBits are small, simple, intuitive, blocks that make creating with sophisticated electronics a matter of snapping small magnets together.

**Crave creativity? Make something! Light it, push it, turn it, twist it, bend it, buzz it, blink it, shake it...**

With a growing number of available modules, littleBits aims to move electronics from late stages of the design process to its earliest ones, and from the hands of experts, to those of artists, makers, students and designers.

To see what you can make, check out [community](#).

To come up with your own Bits, check out [dreamBits](#).

For press and distributor inquiries, [contact us](#).

If you'd like to apply for an education discount, fill out [this form](#).



## Texas DX Society Board members

President	Bob Hardie, W5UQ	w5uq at att.net
VP Membership	Steve Smothers, W9DX	cougar70 at earthlink.net
VP Programs	Lance Rumfield, WD5X	ltrumfield at sbcglobal.net
Secretary	Arthur Alvarez, N5KTN	KingArthur at msn.com
Treasurer	Mike Bragassa, K5UO	bragassa at consolidated.net
Contest Chairman	Joe Staples, W5ASP	w5asp at yahoo.com
Field Day Chairmen	need volunteer	
Repeater Chairman	Glenn Anderson, WB5TUF	wb5tuf at earthlink.net
DXpedition Chairman	Willis "Cookie" Cooke, K5EWJ	wrcooke at yahoo.com
Outgoing QSL Manager	Scott Patout,, K5DD	k5dd at arrl.net
Webmaster	Steve Smothers, W9DX	cougar70 at earthlink.net
Bullsheat Editor	Allen Brier, N5XZ	n5xz at arrl.net
DXCC QSL Card Checker	Bob Walworth, N5ET	rwalworth at charter.net
CQ WAZ Card Checker	Bob Walworth, N5ET	rwalworth at charter.net

### How to reach US

On the World Wide Web <http://www.tdxx.net> email address: [k5dx@tdxx.net](mailto:k5dx@tdxx.net)

On 2 Meters: 147.96/36 MHz (100 Hz)      On 70cm: 447.00/442.00 MHz (103.5 Hz)

DX Cluster—On Packet: Connect to **K5DX** on 145.71 MHz or telnet via IP address 75.148.198.113

**TDXS says "HAPPY BIRTHDAY"** to these members with birthdays in April

John Cashen - W5UG

Bob Burns - W5SJS

Bob Bradshaw - N5RF

Orville Burg - K5VWW

Sam Neal - N5AF

Wayne Bailey - NX7K

OJ Quarles - K1OJ

Frank Moore - KE4GY

Steve Flannigan—W5HPQ