

PUSH TO TALK

Push to Talk is the monthly newsletter of the Inland Empire Amateur Radio Club, an ARRL Special Service Club. Past issues are available on the club website <http://www.w6ier.org>. W6IER repeaters are 145.460 and 447.220. Both repeaters have a standard negative offset and 77.0 PL. Our 2-meter net is each Thursday at 7:30 pm.

John Simmons KQ6ES, Editor kq6es@roadrunner.com

GENERAL MEETING

The next meeting will be August 1 at our normal time and location: 9 am on the first Sat. of the month in the Ontario PFF Bank meeting room, 333 N. Euclid Avenue at D St.

SWAPMEET HELP NEEDED!!

The next IEARC swap meets are July 11 and August 8. The regular schedule is the second Saturday morning of each month in the parking lot of Cable Airport in Upland. Gates open at 6 a.m. Sellers \$10 per space - come at 6:30. Buyers enter free at 7:00.

<http://www.cableairport.com>. Enter from Benson Avenue at 13th Street. Volunteers are always welcome.

Did you find this newsletter by accident? Find out about ham radio <http://www.hello-radio.org>

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Show and Tell

We need hands-on demonstrations of radio equipment at our meetings. What to bring? Anything! Let our quartermaster Doug Burkart know if you need any other equipment brought in (power supply, antenna, etc) and check before you come to make sure time is available.

ORIGINAL 13 COLONIES INDEPENDENCE DAY SPECIAL EVENT

July 1st-5th 2009

NY-NJ-RI-GA-PA-NH-SC-VA-CT-DE-MD-MA-NC

All thirteen 1776 original colonies will be on the air. One 1x1 call station per Colony state. A full color certificate printed on heavy card stock or parchment paper, with a map and the state flags of all the 1776 colony states will be available to each station who works one or more of the stations. Each colony state worked will be marked by the shield of the United States by each state flag. <http://home.comcast.net/~dzabawa/ThirteenColonies.htm>

Message from the President

Dear friends,
Field Day is complete. I hope those of you who attended had fun. We'll have all of the stats in a future message. [see page 6 for a start]

As you know, we have no meeting this month. However, we do have a picnic scheduled after the Swap Meet on July 11th. We'll be at Upland Memorial Park. Everyone please bring something to eat or drink. We'll have some Turkey sandwiches plus whatever anyone else brings to the party.

We are in the second half of the year. We need to start thinking about next year: what you want to see from the club, who you want to lead the club, and next year's Field Day.

Dave Cioni is already exploring at a new Field Day site in Claremont where we may be able to spend the weekend. If you have suggestions, questions, or you'd like to help, contact Dave, N6BCD.

Summer is finally here. Many of you will be vacationing and enjoying family and friends at the park or on a picnic. I'm putting together an ice cream social at my Montclair home. All of you will be invited. Bring your significant other. If you like to swim, bring your trunks. We'll have some fun. Details are forthcoming.

For those of you who haven't been there in a while, we have a Swap Meet. It is held on the Second Saturday of each month from 6:00am to 11:30 am. You don't even have to buy anything. Come by for a cup of coffee and a donut.

Finally, I wish you and yours a great summer even given the circumstances we all find ourselves in this year.

73s & 88s

David DeGroff WA6DF

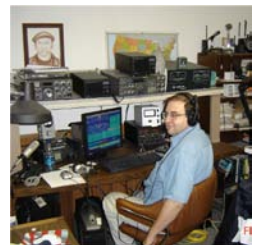
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CONTESTS

Selected July and August Contests

See QST magazine or go to <http://www.hornucopia.com> for additional contests and details.

FISTS Summer Sprint (CW)	0000Z - 0400 July 11
IARU HF Championship (Mixed)	1200Z July 11 - 1200Z July 12
CQ Worldwide VHF Contest	1800Z July 18 - 2100Z July 19
North American QSO Party RTTY	1800Z July 18 - 0600Z July 19
RSGB IOTA Contest (Mixed)	1200Z July 25 - 1200Z July 26
10-10 International Summer Contest (SSB)	0001Z Aug 1 - 2359Z Aug 2
North American QSO Party CW	1800Z Aug 1 - 0600Z Aug 2
ARRL UHF Contest	1800Z Aug 1 - 1800Z Aug 2
WAE DX Contest CW	0000Z Aug 8 - 2400Z Aug 9
North American QSO Party SSB	1800Z Aug 15 - 0600 Aug 16
New Jersey QSO Party	2000Z Aug 15 - 0200Z Aug 17
Ohio QSO Party	1600Z Aug 22 - 0400Z Aug 23





HF WORLD IARU CHAMPIONSHIPS: COMING TO A RADIO NEAR YOU

From the ARRL Letter

Radiosport fans are gearing up for the summer's biggest competition: The IARU HF World Championships <http://www.arrl.org/contests/rules/2009/iaru.html>. Calling the 24 hour long contest "an HF operator's delight," ARRL Contest Branch Manager Sean Kutzko, KX9X, explained that the contest will allow amateurs plenty of opportunity to work DX from all around the globe on CW and SSB...

"The IARU HF Championship is one of Radiosport's distinctive events. It's the only major contest that uses International Telecommunication Union (ITU) zones as part of the exchange, and it's the only contest that gives special multiplier status for IARU Member-Society stations and their officials." [Our ITU zone is 6 <http://www.iaru.org/ituzonesc.gif>]

Kutzko said amateurs can get in on the fun in a variety of ways: "You may choose to enter as a single operator using SSB only, CW only or a mixture of both modes. Single operator stations can choose from three power levels: High Power (greater than 150 W), Low Power (between 5-150 W) or QRP (5 W or less). You can also get some friends together at one station and participate as a Multioperator station with a single transceiver."

One of the fun things to do is see how many of the IARU special stations you can work during the event. "While most stations give their ITU zone <http://www.iaru.org/ituzonesc.gif> as part of the contest exchange, IARU Member-Society stations give the abbreviation for their IARU Member-Society's name: W1AW -- as W1AW/KL7 -- will be giving 'ARRL'..." Kutzko said. In addition, IARU officials can give one of four unique exchanges: AC if they are on the IARU Administrative Council, or R1, R2 or R3 for the ITU Region that official serves. For example, since VE6SH, is IARU President, he would give "AC" in his exchange.

According to Kutzko, numerous IARU Member-Society stations will be on the air this year, including those in Germany (DA0HQ), France (TM0HQ), Kuwait (9K9HQ), Nigeria (5N00CH), Japan (8N1HQ, 8N2HQ, 8N3HQ, 8N4HQ and 8N8HQ), Thailand (HS0AC), Namibia (V51NAM), Lebanon (OD5RAL), as well as dozens of other Member-Society stations from around the world. "It is always special to see so many nations represented on the air by their national organization," Kutzko said. "It reinforces the global nature of Amateur Radio and the common bonds that all amateurs have."

The IARU HF World Championship begins at 1200 UTC Saturday [5 am folks!], July 11 and goes until 1200 UTC Sunday, July 12. Complete rules may be found on the ARRL Contest Web page <http://www.arrl.org/contests/rules/2009/iaru.html>. Logs may be submitted via e-mail iaruhf@iaru.org; paper logs should be mailed to IARU International Secretariat, Box 310905, Newington, CT 06111-0905 USA. All logs must be e-mailed or postmarked no later than 1200 UTC August 11, 2009.

July 2009 Push To Talk

Page 3 of 9

Mystery of the Missing Sunspots, Solved?

http://science.nasa.gov/headlines/y2009/17jun_jetstream.htm?friend

June 17, 2009: The sun is in the pits of a century-class solar minimum, and sunspots have been puzzlingly scarce for more than two years. Now, for the first time, solar physicists might understand why.

At a press conference today in Boulder, Colorado, researchers announced that a jet stream deep inside the sun is migrating slower than usual through the star's interior, giving rise to the current lack of sunspots. The National Solar Observatory (NSO) in Tucson, Arizona, used a technique called helioseismology to detect and track the jet stream down to depths of 7,000 km below the surface of the sun. The sun generates new jet streams near its poles every 11 years... The streams migrate slowly from the poles to the equator and when a jet stream reaches the critical latitude of 22 degrees, new-cycle sunspots begin to appear.

... the stream associated with the next solar cycle has moved sluggishly, taking three years to cover a 10 degree range in latitude compared to only two years for the previous solar cycle. The jet stream is now, finally, reaching the critical latitude, heralding a return of solar activity in the months and years ahead. "It is exciting to see", says Hill, "that just as this sluggish stream reaches the usual active latitude of 22 degrees, a year late, we finally begin to see new groups of sunspots emerging."

The current solar minimum has been so long and deep, it prompted some scientists to speculate that the sun might enter a long period with no sunspot activity at all. This new result dispels those concerns. The sun's internal magnetic dynamo is still operating, and the sunspot cycle is not "broken."

Propagation Forecast Bulletin 25 by Carl Luetzelschwab, K9LA.

Noctilucent Clouds Return - the first noctilucent clouds (NLC) of the 2009 season were sighted over Russia on May 27. NLCs typically appear about 20 days prior to the summer solstice, increase quickly to a high summer level, and then disappear about 50 days after the summer solstice.

These clouds are mostly a high latitude phenomenon, and are believed to be composed of ice crystals. These clouds are hypothesized by JE1BMJ and others to be responsible for 6m propagation across high latitudes (for example, from the East Coast of North America to Japan) during the northern hemisphere summer. This mode of propagation has been dubbed Summer Solstice Short-path Propagation (SSSP). Check out page 34 of the February 2009 issue of WorldRadio Online (available free at www.cq-amateur-radio.com/wr_back_issues.html) for a general discussion of PMSE and SSSP and for references in the technical literature.



Noctilucent clouds over Germany

Christoph Rollwagen

<http://apod.nasa.gov/apod/ap090624.html>

Getting Ready for Glorioso

Beginning July 9 and continuing through July 28, a French team expects to activate this extremely rare DXCC entity. It's in the Top 5 in The DX Magazine's Most Wanted Survey. Glorioso is located in the Indian Ocean near the northern tip of Madagascar, and enjoys higher-than-usual MUFs (maximum usable frequencies) even at solar minimum due to the robust equatorial ionosphere. Unfortunately the North American end of the path will suffer from low MUFs due to a combination of solar minimum and a summer month. The result of this is that 15, 12, and 10 meters will likely not produce many QSOs between Glorioso and North America. If you need Glorioso for an all-time new one for DXCC, be sure to work this DXpedition - it will probably be quite a while until it is again activated.

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ARRL 2009 Southwestern Division Convention

From Carl Gardenias WU6D ARRL Section Manager for Orange
Here we are, the information we have been waiting for:

August 15, 2009 Time: 8:00 am - 5 pm
Where: EARL WARREN SHOWGROUNDS [Santa Barbara]
Building: Warren Hall
Presentations: 9 am
Lunch: BBQ - Tri Tip/Chicken (Great BBQ)



Entry Fee: FREE Parking Fee: FREE Major raffle prizes every hour
GRAND PRIZE: Elecraft K-3 plus Spouse prizes - valuable restaurant gift certificates.

For the YL's get into the Home Garden show next door FREE
Please go to the Earl Warren Showgrounds www.earlwarren.com for directions or google a map.
Please also Visit: www.sbarc.org for further information:

They do have a flyer and registration form - you can also download the flyer and form off of our website: www.orange-arrrl.org - give it a day or two before trying to download - need to get it to the web master. You can also go to www.wu6d.com

Hope to see you there.
73, Carl WU6D wu6d@arrrl.org
WHAT'S NEW AT DAYTON 2009 -- THE UNABRIDGED VERSION
From the ARRL Letter

The July 2009 issue of QST had a one page overview of some of the major pieces of equipment introduced at the Dayton Hamvention. There is no way a single person can track down everything on display that's new in the time available, but QST Technical Editor Joel Hallas, W1ZR, did find quite a bit more -- much more than can be squeezed into the available QST page.

"We reported on many other categories of interest, including new VHF and antenna-related equipment, as well as many categories of accessories," he said. "When you click on the link, you'll find a description of the rest of the new items I tracked down during a very busy three days at Dayton."

Check it out on the ARRL Web site
<http://www.arrrl.org/files/qst-binaries/QS0709NewatDayton.pdf>



FIELD DAY 2009

Ladies and gentlemen, Field Day this year turned out to be successful. We did not have a huge number of contacts, 104, but I think we had some fun and did a whole lot of work.

I'd like to thank Chuck Sweeten, Cliff Wickey and John Yocum for their technical expertise in getting the equipment going; Karen Burkart and Laura Ellison for their help in the kitchen. Thanks very much. And I want to thank everyone for coming out and being part of the day. We

had 21 members and visitors on our sign up log. As for the results: We had 104 Phone contacts and I received a note from John Simmons about some CW contacts [see page 7]. With all of the allowances for points, it looks like we'll come in just under 1,000 points. I'll be filing our Field Day Entry tomorrow (Monday). I'm still going through the rules to make sure we have all the points we're entitled to.

We had two operating stations plus a GOTA station and I think we had five antennas. I know, it doesn't match but we used them all during the day. We also had two generators operating for the day. Our club generator operating for the radios and the Burkart's generator running for the kitchen.

Finally, I want to thank everyone for being there and supporting our Field Day effort. We learned from this year and hopefully won't make the same mistakes next year.

73, Dave DeGroff WA6DF [More Field Day info coming in August]



Cliff N6CTW with his nifty station in a box



Shade!



KQ6ES ARRL Field Day patio style

KQ6ES 1B QRP (1B battery 1-op) ORG

Band CW Qs

40:	30
20:	41
15:	1

Total: 72 x 2 (CW) x 5 (QRP) = 720
 With bonus points (emergency power, Field Day bulletin, and web submission) = 970 Final Score



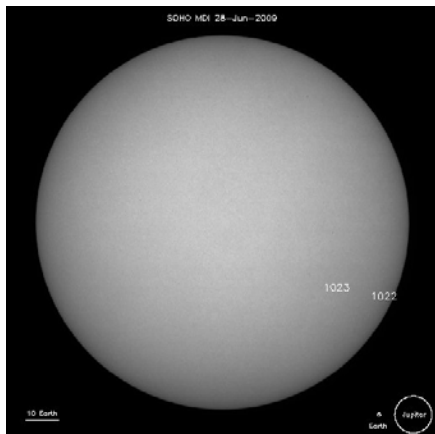
The Buddistick



Checking the voltage

I started setting up at 11am Saturday: a Marine/RV battery, my 'old' Yaesu FT-840, the 9' Buddistick antenna on a stepladder, manual tuner, paddles & keyer, paper & pen. With the temperature in the high 90s, ice tea was also a critical component. To my pleasant surprise this setup actually worked Northern New Jersey, Hawaii, and British Columbia on 5 watts.

I would have had several more contacts on 15m and even a couple on 10, if I had practiced tuning the Buddistick, which requires some time to work out the length of its single radial.



This was the sunspot situation on Field Day afternoon: Two little groups rapidly disappearing. Better than nothing, but I doubt they made much difference to anyone's score. Wait 'til next year...

<http://sohowww.nascom.nasa.gov/sunspots/>

AUGUST NEWSLETTER PREVIEW

Antenna Building, submitted by Doug Burkart/KE6UUC

The idea of building antennas is you did this yourself and it works. The self esteem alone and knowing what you did will project you to try some other type of antenna. There are so many places to go on the internet to find what you would like to build, like for instance there is the J-pole antenna. You would think that you would have to use copper pipe to make this great antenna, but if you do your research you will find that there are other ways to make it. One Ham used HO train track and made a J-pole and believe it or not it does work. So you see with the proper formula you can use almost anything and it will work. Of course with a lot of experimentation you could probably make an antenna that no one has ever seen. Nothing is impossible – with a good imagination you can go far. One Ham that lives in a trailer park could not have a visible antenna, but instead turned his Flag Pole into a multiband antenna and nobody in the park is any wiser. I could go on and on but will save some for the next month’s newsletter. Doug KE6UUC

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Speaking of next month’s issue, I hope it will have a few of YOUR antenna articles, pictures of YOUR antennas, plus some good web articles and links to other antenna websites.

July 2, 1776

Wikipedia and confirmed from other sources



Wait a minute, John, don’t you mean July 4? No!

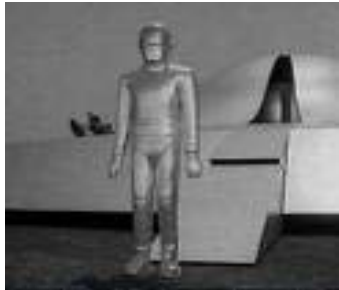
During the [American Revolution](#), the legal separation of the American colonies from Great Britain occurred on July 2, 1776, when the [Second Continental Congress](#) voted to approve a [Resolution of independence](#) that had been proposed in June by [Richard Henry Lee](#) of Virginia. After voting for independence, Congress turned its attention to the [Declaration of Independence](#), a statement explaining this decision, which had been prepared by a [Committee of Five](#), with [Thomas Jefferson](#) as its principal author. Congress debated and revised the Declaration, finally approving it on July 4. A day earlier, [John Adams](#) had written to his wife [Abigail](#):

“The second day of July, 1776, will be the most memorable epoch in the history of America. I am apt to believe it will be celebrated by succeeding generations as a great anniversary festival.”

Adams' prediction was off by two days. From the outset, Americans celebrated independence on July 4, the date shown on the much-publicized Declaration of Independence, rather than on July 2, the date the resolution of independence was approved in a closed session of Congress.

One of the most enduring myths about Independence Day is that Congress signed the Declaration of Independence on July 4, 1776. The myth had become so firmly established that, decades after the event and nearing the end of their lives, even the elderly Thomas Jefferson and John Adams had come to believe that they and the other delegates had signed the Declaration on the fourth. Most delegates actually signed the Declaration on August 2, 1776.

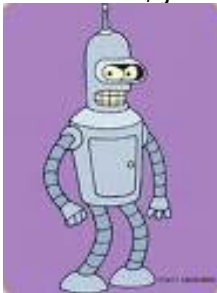
I replaced the human staff with cheap non-union robots. Here's a toughie: Can you name all these famous mechanical stars of the big and small screens? A passing score is 10. 15 or more is excellent! Nobody will get all 19, right?



A 50's classic, just remade.



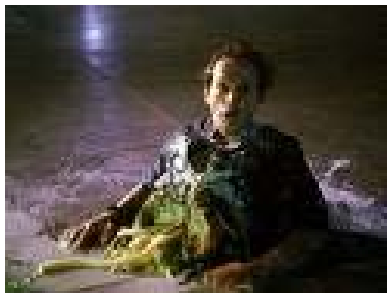
Be smart for this one.



Not from The Lord of the Rings



Desperate Houserobot?



The first and best.



Still one of my favorite films.



This guy's not in the famous film, but this one is.



See you in August? 73 from John kq6es