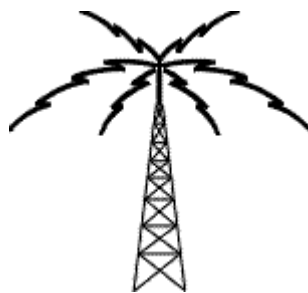


WØNH

MISSOURI VALLEY AMATEUR RADIO CLUB

ST. JOSEPH, MISSOURI



Next Meeting March, 2009

Officers for Year 2009

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Al Clark KFØH

Vice President:

Brad W. Cawly KØBCW

Secretary:

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Yearly dues are \$20.00 per family living at the home.

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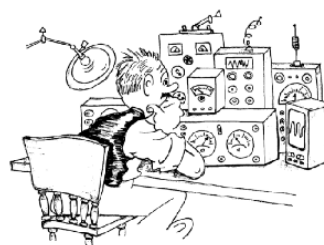
Board of Directors

Al Clark KFØH

Brad W. Cawly KØBCW

Roy Burtnett KAØSIU

Kimberly Burtnett KCØTOO



Two Meter Repeaters

WØNH 146.250/146.850

WØNH-1 APRS Digi

Club Web Page

Maintain by Brad Cawly KØBCW

<http://www.w0nh.com>

Club Newsletter

Maintain by Al Clark KFØH

Meetings are held the first Monday of the month.



ARES weekly net is on each Thursday Nights, on the Club Repeater 146.185 MHz at 8:00 P.M. Monthly meeting are on the first Monday of each month at 7:00 pm at the Red Cross Conference Room.

Club Contact VE's are Al Clark KFØH & Dave Mollus WØYZZ



Meeting was open by President Al Clark at 7:30 P.M.

Agenda:

March Meeting Topics:

- 1) Update on Hamfest.
- 2) Update on repeater
- 3) Open Discussions.

ARES:

March 5, 2005

Weather Spotters Class in Plattsburg at the High School Theater, please try to be there.

Repeater:

More info at March meeting on a new site from Ernie Miller - WA0HBX

Surfin': Software Defined Radioing with a Mac

**By Stan Horzepa, WA1LOU
Contributing Editor**

February 27, 2009

This week's Surfin' looks to the Mac OS X for a Software Defined Radio.

DO8SEM's DSP Radio Documentation Web page features Software Defined Radioing (SDR) on the Mac OS X. Past installments here have dealt with the topic of Software Defined Radio (SDR) and Surfin' tackles that topic again this week; however, this SDR discussion is completely different because this time it's all about using a Mac to do SDR.

Sebastian Mrozek, DO8SEM, wrote software called DSP Radio and you can download a copy at his DSP Radio Documentation Web page. DO8SEM's software runs on Macs connected to SoftRock hardware; his Web page describes the complete hardware and software setups. DSP Radio is still in beta, so all its features may not be complete, but it is functional enough to allow you to have fun trying SDR on a Mac.

Because there are many different SDR hardware devices in the world, Sebastian

developed a software development kit (SDK) that you can also download from his Web page. The SDK is easy to configure to permit you to control your own SDR hardware with DRP Radio.

(Thank you Jan-Henrik Preine, DK1OM, for suggesting Sebastian's Web site.)

MacLoggerDX for Cocoa

Speaking of Macs, I want to alert hams with Macs that a new version (version 5 to be exact) of MacLoggerDX for Cocoa is now available from the codesmiths at Dog Park Software Ltd. I had an opportunity to try out the new version and I like it a lot, so give it a spin and you may be sold on MacLoggerDX, too.

QEX: The March/April 2009 Issue

The March/April issue of QEX is coming soon, and it is full of theoretical and practical technical articles that you don't want to miss.

In this issue, Gary Steinbaugh, AF8L, introduces us to "A Cybernetic Sinusoidal Synthesizer." The initial part presents some interesting history and theory of feedback control. The system includes an oven-stabilized crystal-controlled oscillator, a PLL frequency synthesizer with a low phase noise sinusoidal output, a variable gain RF amplifier for automatic power level control and an RF power meter with a digital readout in dBm and an analog voltage output. Subsequent articles will describe these circuits in detail. Ron Skelton, W6WO, takes us "Exploring Near-End-Fed Wire Antennas" by modeling his design using EZNEC, and then building a 40 meter

Until next time, keep on surfen'!

Editor's note: Stan Horzepa, WA1LOU, prefers oranges to apples in the world of fruit, but vice versa in the world of computers. To communicate with Stan, send him e-mail or add comments to his blog. By the way, every installment of Surfin' is indexed here, so go look it up.

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Page author: awextra@arrl.org

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version to verify the modeled performance. Ken Grant, VE3FIT, describes "A Versatile Two-Tone Audio Generator for SSB Testing." This handy piece of test gear could be a valuable addition to your test bench.

Thomas Alldread, VA7TA, continues to describe his "NimbleSig III" dual output DDS RF generator. This circuit provides signals over a range from 100 kHz to 200 MHz, with 1 Hz resolution. In this part of the series we learn about the control software design, computer interface, MPU programming and initial testing. Rudy Severns, N6LF, presents more of his research in "Experimental Determination of Ground System Performance for HF Verticals." Part 3 compares the performance of antennas using ground-surface radials and those using elevated radials. If you use vertical antennas on HF, or have thought about using vertical antennas on HF, you will want to read all of the articles in this series. Roger Monroe, K7NTW,

introduces the process of programming a microcontroller in "Some Assembly Required." As a practical application, he describes how he used a microcontroller in the design of a QSK amplifier keying interface for use between his Ten-Tec Omni IV+ radio and his Heath SB-220 amplifier.

Ray Mack, W5IFS, continues his software defined radio column. In this installment of "SDR: Simplified," Ray looks at signals in the time domain and the frequency domain, and introduces the concept of Fourier transforms. He also explains the Nyquist criterion for sampling signals in analog to digital conversions as well as the filtering requirements for digital to analog conversions. Mark Spencer, WA8SME, has been sending results of his further data collection based on his article, "SID: Study Cycle 24, Don't Just Use It" from the September/October 2008 issue of QEX. The "Tech Notes" column in this issue includes some graphs of Mark's data, as well as a re-designed SID receiver and interface. The "Reader's Page" includes photos of two different GPS-derived frequency standards. Readers are encouraged to submit photos of their projects, to show off their handiwork.

Would you like to write for QEX? It pays \$50/printed page. Get more information and an Author's Guide. If you prefer postal mail, send a business-size self-addressed, stamped envelope to QEX Author's Guide, c/o Maty Weinberg, ARRL, 225 Main St, Newington, CT 06111-1494.

QEX is edited by Larry Wolfgang, WR1B, and is published bimonthly. The subscription rate (6 issues) for ARRL

members in the US is \$24. For First Class US delivery, it's \$37; in Canada and internationally by airmail it's \$31. Nonmembers add \$12 to these rates. Subscribe to QEX today.

Editor's Note: Due to production difficulties, the March/April issue of QEX will be arriving about two weeks later than normal. Readers should expect to see their copies in their mailboxes in mid March. We regret any inconvenience this may cause.

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