Newsletter # 48 March 2018

- Competition keyboard Keyer? Using the widely available K3NG Arduino software, compatible with many logging programs, information and features at - https://nanokeyer.wordpress.com/nanokeyer-info/

- A simple (?) audible frequency readout for the NC40A and similar transmitters using a NANO https://groups.io/g/qrp-tech/attachment/15731/0/Arduino%20Freq_Mite%20for%20NC40A.pdf from Mike WA8BXN

- Thanks to "gmbertani" for letting us know about his recently released RTL-SDR compatible software called "Echoes". Echoes is a Windows, Linux and Raspberry Pi/Arch compatible tool that can be used together with an RTL-SDR and appropriate antenna to monitor for meteor scatter detections. https://www.rtl-sdr.com/echoes-an-rtl-sdr-tool-for-meteor-scatter-detection/

- A better AGC amplifier. https://w3jdr.wordpress.com/2018/01/26/high-performance-agc-amplifier/

- Need more speed on Arduino? The Blue Pill and Black Pill STM32F103C8T6 32 bit ARM M3 microcontrollers may be the solution. http://wiki.stm32duino.com/index.php?title=Black_Pill An example from the Kit 4 by   http://www.qsl.net/k5bcq/Kits/Kits.html and Austin QRP Club.

- A homebrew Iambic touch paddle and keyer with memories from the qrp-tech group. https://sites.google.com/site/essexcw/cw-projects/iambic-paddle

- For the multi op field day groups, one database and remote wifi connection for all operators. http://blog.pignology.net/2017/04/hamlog-field-day-server-with-twist.html

- D-Star/Fusion/DMR, which one is right for you? http://www.mikemyers.me/blog/2016/2/19/d-star-dmr-fusion-which-is-right-for-you

- Another version of the PHSNA using a Arduino with code and pcb pattern from Anthony F4GOH https://hamprojects.wordpress.com/2018/02/10/phsna-with-an-arduino/

- On the QRSSknights digest recently (qrssknights@groups.io Digest #303) Dave Hassall (WA5DJJ Las Cruces, New Mexico) showed his latest version of an all HF Band "grabber" based on Raspberry Pi 3b's controlling a QCX Receiver for each band with plans to include 2200M to 10M bands. http://www.zianet.com/dhassall/

- George N2APB & Joe N2CX will again return with the feature "Chat with the designers" program, this year featuring "Test Equipment You Can Build". Join with Team Speak on Wednesday mornings at 0100Z. CWTD 2018 Episode #1 on Tuesday evening USA time.
- If you have steerable antennas then this may be useful from the BARG Jan. Newsletter https://ns6t.net/azimuth/azimuth.html

- Learning CW? Or improving your speed? The QRPGuys CPO may be the inexpensive tool you can use to assist achieving that goal. https://qrpguys.com/qrpguys-code-trainer

- Some ideas for the CW builders among us. From the QRP-L group and Brad Thompson., AA1IP
http://www.k8iqy.com/qrprigs/2n240/2n240page.html

  ...And...
http://www.n5ese.com/2n2222.htm

  ...And...
http://www.norcalqrp.org/nc2n2xx.htm

  ...And....
http://www.arrl.org/files/file/Technology/tis/info/pdf/93hb3037.pdf

  ...And finally...
http://home.earthlink.net/~christrask/Bipolar%20Transistor%20Evaluation.pdf

- A new Beta Release Candidate is now available from Joe Taylor K1JT for the DXpedition mode of WSJT-X 1.9.0 FT8.
http://physics.princeton.edu/pulsar/k1jt/wsjtx.html

- Some interesting files from the Groups.io qrp-tech group. https://groups.io/g/qrp-tech/files Note: you must join the group to be able to view the files.

- From the qrp-l mailing list, a course in the basic fundamentals (from the war years) http://www.learnmorsecode.com/sde/index.html and for Tube Electronics the 1940 Radiotron Designers Handbook ...357 pages and the 1953 edition ...1,523 pages both are available still for download.

- A multi band vertical? Using a load coil and relays a remotely tuned Flag pole antenna may be possible.
  https://www.k4vrc.com/uploads/1/0/1/5/10156032/ant-load_coil.pdf

- "Pi" and "T" type attenuator values.
  http://www.wenteq.com/Handbook/attenuatorpad.html or to calculate other values - http://n9zia.ampr.org/att_pad.cgi

- Seeking an inspiration for the next project? Perhaps there is something of interest in this compendium -
  https://www.dxzone.com/catalog/Technical_Reference/Homebrew/

- An updated version of the **Loftur E. Jónasson - TF3LJ / VE2LJX** Power/SWR meter using the Teensy 3.2 MPU. https://sites.google.com/site/lofturj/power-and-swr-meter---rev
- From JF10ZL more projects then you can poke a stick at – Google will translate if necessary. http://www.intio.or.jp/jf10zl/

- "Simple" Regen' receivers explained including the Armstrong designs.
  https://en.wikipedia.org/wiki/Regenerative_circuit

- And a few more. http://www.techlib.com/electronics/regen.html

- And a couple of JFET designs too.
  http://www.learnmorsecode.com/regensecrets/index.html

- Another Group for the MCU users of STM32/Arduino etc.
  http://www.stm32duino.com/

- An historical view of solid state shortwave receivers.
  http://www.americanradiohistory.com/Archive-Bookshelf/Author-Groups/Bernards%20Radio%20Manuals/222-Solid-State-Short-Wave-Receivers-For-Beginners.pdf and the coils used by many designs of the time - http://www.vintageradio.me.uk/info/dencocoils.htm and alternatives - http://www.vintageradio.me.uk/radconnav/altdenco.htm

- All you ever wanted to know about the semiconductor basics.
  http://www.americanradiohistory.com/Archive-Bookshelf/Author-Groups/Donald%20Stoner/The-Transistor-Radio-Handbook-Donald-Stoner.pdf
- For the wall paper chasers? https://dxcluster.ha8tks.hu/rbn/

73 Ian VK3LA