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Technical

A Talking Frequency Counter 30

Andrew Woodfield, ZL2PD

An Atmel ATtiny85 microcontroller measures the frequency and synthesizes the voice output in this pocket-sized accessory that's accurate enough for most shack applications.

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Chris Kunze, DK6ED

Try these pairs of receiving loops for the Top Band.

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Michael Foerster, W0IH

This dipole mechanically tunes over the entire 3.5 to 4 MHz band.

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The coupled resonator ground plane antenna can be easily adapted to most band combinations.

An Off Center End Fed Dipole for Portable Operation on 40 to 6 Meters 44

Kai Siwiak, KE4PT

This compact design rolls up and fits in a small DX go-bag for easy travel.

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A 3-day holiday-style operation in rare grid EL84, Garden Key, Florida.

The Transistor — Or 25 Miles on a Chunk of Germanium 50

George Rose, K2AH

Our series of articles reprinted from vintage issues of *QST* continues, this time with a selection from the March 1953 issue.

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Force 12 XR6 20 — 6 Meter Yagi Antenna; MFJ-1896 6 Meter Moxon Antenna; Cubex Mosquito-6 70 cm Quad Antenna; HobbyPCB Hardrock-50 Internal Automatic Antenna Tuner; bhi Desktop Amplified DSP Noise Cancelling Speaker.

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Virginia's Chesapeake Public School System introduces Amateur Radio into its electronics classrooms.

ARRL Teachers Institute on Wireless Technology 83

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Equipping teachers for the STEM challenge.

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President Craigie reflects upon the ARRL's Centennial year; ARISS news; ARRL Lab receives a new Tektronix oscilloscope; more.

Our Cover

Nathan Marvin, WA1SAZ, is our latest QST Centennial Photo Contest winner. This striking nighttime image shows the tower, HF Hex beam, and 6 meter Yagi at his station in Camden, Maine. Marvin is an experienced photographer and notes that the image was the result of a 30-second exposure using a Canon EOS 6D camera and a 15mm Sigma lens set at f6.3.



Radiosport

Contest Corral 89

H. Ward Silver, N0AX

IARU HF Championship 2014 90

Nate Moreschi, N4YDU

Close races, World Radiosport Team Championships, and great conditions — records fell!



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