



In This Issue

May 2014

Volume 98 Number 5

Harold Kramer, WJ1B
Publisher

Steve Ford, WB8IMY
Editor

Becky R. Schoenfeld, W1BXY
Managing Editor

Larry D. Wolfgang, WR1B
Senior Assistant Technical Editor

Steve Sant Andrea, AG1YK
Assistant Editor

Rick Lindquist, WW1ME
Happenings

Bob Allison, WB1GCM
Product Review Lab Testing

Paul L. Rinaldo, W4RI
Mark J. Wilson, K1RO
Al Brogdon, W1AB
Bernie McClenny, W3UR
H. Ward Silver, N0AX
Paul Wade, W1GHZ
Jon Jones, N0JK
Rick Palm, K1CE
Joel R. Hallas, W1ZR
Barry Shackelford, W6YE
Kai Siwiak, KE4PT
Contributing Editors

Michelle Bloom, WB1ENT
Production Supervisor

Jodi Morin, KA1JPA
Assistant Production Supervisor

Maty Weinberg, KB1EIB
Production Coordinator

Sue Fagan, KB1OKW
Graphic Design Supervisor

David Pingree, N1NAS
Senior Technical Illustrator

Kelsey E. Moore
Copy Editor

Debra Jahnke, K1DAJ
Business Services Manager
QST Advertising

Bob Inderbitzen, NQ1R
Marketing Manager

Yvette Vinci, KC1AIM
Circulation Manager

Diane Szlachetka, KB1OKV
Advertising Graphics Designer

Technical

A Monobander for Going Mobile on 17 Meters 30

Jerry Clement, VE6AB
Construct this elegant 17 meter band antenna for your mobile operations.

The HandTracker: An Automatic Packet Reporting System Tracker 33

Dale H. Chidester, NJ7C
Assemble an APRS position-tracking transmitter from a GPS receiver, TinyTrak3, and a handheld radio.

Fishing for DX with a Five Band Portable Antenna 36

Barry L. Strickland, AB4QL
A telescopic fiberglass fishing pole supports five quarter-wave vertical monopoles for 10, 12, 15, 17, and 20 meters.

A Motorized Mobile Antenna Flip-Up Mount 42

Al DesHôtel, WB5VNX
A "no holes bored" solution for mobile antenna mounting, uniquely suited to pickup trucks.

A Coaxial Cable Vertical Dipole Antenna 45

Al Yerger, K2ATY
Hang it from a tree limb and you're on the air!

Temporary Mobile Installations 48

Geoff Haines, N1GY
Techniques for installing and removing your mobile unit quickly, with a minimal footprint, and with no holes in your vehicle's dash.

Going Mobile in an All-Electric Vehicle 50

Paul Danzer, N1II
You may be curious to give it a try, but be careful not to deplete your car's battery!

Product Review 51

Mark Wilson, K1RO
Palstar HF-Auto High Power HF and 6 Meter Automatic Antenna Tuner, iPortable iP60z Antenna Analyzer, Array Solutions AS-RXFEP Receiver Front End Protector.



News and Features

It Seems to Us 9

David Sumner, K1ZZ
Happy Birthday to Us!

Inside HQ 13

Harold Kramer, WJ1B
Membership Benefits for Newly Licensed Amateurs and Members

Tropical DXpedition Heats Up HF 68

Yujian David Zhou, BA4DW, E51CDW
Sandy beaches lose out to radio on the tropical island of Rarotonga.

FEMA Administrator Craig Fugate, KK4INZ, to Keynote ARRL Centennial Banquet 71

Dan Henderson, N1ND
The head of one of Amateur Radio's key served agencies will speak on July 18.

The Transatlantic Tests 72

Michael Marinaro, WN1M
From 1921 to 1924, radio amateurs experimented with transmitting across the Atlantic.

Happenings 74

Rick Lindquist, WW1ME
FCC news, changes at CQ Communications, Ham-Cation success, new Section Managers, and more.

Our Cover

Sunrise found Jerry Clement, VE6AB, backroading in the Millerville/Priddis area of southern Alberta, Canada. See Jerry's HF mobile antenna project for 17 meters on page 30 of this issue.



May 2014
Volume 98 Number 5

QST (ISSN:0033-4812) is published monthly as its official journal by the American Radio Relay League, Inc., 225 Main Street, Newington, CT 06111-1494, USA. Periodicals postage paid at Hartford, CT, USA and at additional mailing offices.

POSTMASTER: Send address changes to: QST, 225 Main St, Newington, CT 06111-1494, USA. Canada Post: Publications Mail Agreement #40612608. Canada returns to be sent to Bleuchip International, PO Box 25542, London, ON N6C 6B2.

US & Possessions: Membership in the ARRL, including a one year subscription to QST, is available to individuals at \$39. Licensed radio amateurs age 21 and under and the eldest licensee in the household may qualify for the rate of \$20. Life Membership, including a subscription to QST is available at \$975.* Membership includes \$15 per year for subscription to QST. Membership and QST cannot be separated. Libraries and institutions, \$39 per year. Single copies \$4.99.

International
To compensate for additional postage for mailing outside the US, the following rates apply:

Canada: Membership in the ARRL, including a one year subscription to QST, \$49, payable in US funds. Life Membership, including a subscription to QST is available at \$1225.* Libraries and institutions, \$49 per year.

All Other Countries: Membership in the ARRL, including a one year subscription to QST, \$62, payable in US funds. Life Membership, including a subscription to QST is available at \$1550.* Libraries and institutions, \$62 per year.

Membership without QST is available to the immediate family of a member living at the same address, and to anyone who is legally blind, for \$8 per year.

Foreign remittances should be by international postal or express money order or bank draft negotiable in the US and for an equivalent amount in US funds.

Copyright © 2014 by the American Radio Relay League Inc. Title registered at the US Patent Office. International copyright secured. All rights reserved. Quedan reservados todos los derechos. Printed in the USA.

QST®, DXCC®, VUCC®, DX Century Club®, ARES®, Amateur Radio Emergency Service® and ARRL, the national association for Amateur Radio® are registered trademarks of the American Radio Relay League, Inc.

The ARRL and QST in no way warrant the products described or reviewed herein.

QST is available to blind and physically handicapped individuals from the Library of Congress, National Library Service for the Blind and Physically Handicapped. Call 1-800-424-8567 or go to www.loc.gov/nls/.

Indexed by Applied Science and Technology Index, Library of Congress Catalog Card No: 21-9421.

*Payment arrangements available. Please write for details.

In order to ensure prompt delivery, we ask that you periodically check the address information on your mailing label. If you find any inaccuracies, please contact the Circulation Department at circulation@arrrl.org or 860-594-0200 immediately. Thank you for your assistance.

Reprints and permissions: permission@arrrl.org

Details of our Online Privacy Policy can be found at www.arrrl.org/online-privacy-policy. Telephone: 860-594-0200 Fax: 860-594-0259

Radiosport

Contest Corral 79

H. Ward Silver, N0AX

2013 ARRL November Sweepstakes – CW Results 80

Kelly Taylor, VE4XT

A look at the granddaddy of domestic contests — then and now.

2013 ARRL EME Contest Results 83

Rick Rosen, K1DS

Equipment and endurance were factors for participants.

2014 Field Day Announcement 84

The largest on-air Amateur Radio event in the world returns June 28 and 29! If you haven't already started planning your effort, now is the time to do so!

The 2014 ARRL June VHF Contest 85



Page
84



Page
68

Columns

At the Foundation	85
Correspondence	24
The Doctor is In	60
Eclectic Technology	65
Hands-On Radio	63
Hints & Kinks	66
How's DX?	89
Personal Visions.....	92
Public Service.....	77
Short Takes	62
Technical Correspondence	58
Up Front.....	20
Vintage Radio.....	93
The World Above 50 MHz.....	86
75/50/25 Years Ago.....	97

Interested in Writing for QST?
www.arrrl.org/qst-author-guide
e-mail: qst@arrrl.org

Departments

Convention and Hamfest Calendar	95
Field Organization Reports.....	97
Guide to ARRL Member Services.....	14
Ham Ads.....	162, 163
Index of Advertisers.....	164, 165
Life Members Elected March 7, 2014	90
New Books	92
New Products	49
QuickStats.....	148
Radio Tips.....	47
Silent Keys	98
Special Event Stations.....	91
Strays	71, 96, 99
W1AW Centennial Operations	99
W1AW Qualifying Runs.....	99

Digital and Mobile Editions

ARRL members can access the digital edition via a link at www.arrrl.org/qst, download our *iOS* app from the iTunes Store, and download our *Android* app from the Google Play Store.