Contents

December 2020 • Volume 104 • Number 12

9 Second Century
   Why I’m An ARRL Member

30 The Tuna Tin “S” — A Bare-Bones Synthesized QRPP Transmitter
   Bob Fontana, AK3Y

37 Product Review
   Mark Wilson, K1RO
   YAESU FTDX101MP MF, HF, and 6-Meter Transceiver; Radioddity GA-510 Dual-Band Handheld Transceiver; Workshop Vises; Four State QRP Group Cric-Key Kit

53 Installing an In-Dash Mount for Your Mobile Rig
   Glen Popiel, KW5GP

56 Sled Dogs and Ham Radio in the North Maine Woods
   Derrick Ouellette, KW1A

64 January 2021 Kids Day

64 The 2021 ARRL International DX Contest

65 The 2021 ARRL Straight Key Night

65 The 2021 January VHF Contest

66 The 2021 ARRL RTTY Roundup

67 SKYWARN® Recognition Day 2020: COVID-19 Adjustments

69 2020 ARRL June VHF Contest Results
   Phil Koch, K3UA

85 2020 ARRL Field Day Results

85 A Look Back — February 1971
Digital and Mobile Editions
ARRL members can access the digital edition via a link at www.arrl.org/qst, download our iOS app from the iTunes Store, and download our Android app from the Google Play Store.

Write for QST
www.arrl.org/qst-author-guide
email: qst@arrl.org

QST (ISSN:0033-4812) is published monthly as its official journal by the American Radio Relay League, Inc., 225 Main St., Newington, CT 06111-1400, USA. Periodicals postage paid at Hartford, CT, USA and at additional mailing offices.

POSTMASTER: Send address changes to: QST, 225 Main St., Newington, CT 06111-1400, USA. Canada Post: Publications Mail Agreement #50-5901437. Canada returns to be sent to IMEX Global Solutions, 1501 Morse Ave., Elk Grove Village, IL 60007.

US & Possessions: Membership in the ARRL, including a 1-year subscription to QST, is available to individuals at $49. Licensed radio amateurs age 21 and under, and the eldest licensee in the household may qualify for the rate of $25. Life Membership, including a subscription to QST is available at $1,550. Libraries and institutions, $62 per year.

All Other Countries: Membership in the ARRL, including a 1-year subscription to QST, is available to individuals at $76. Libraries and institutions, $76 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 $10 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.

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

Canada: Membership in the ARRL, including a 1-year subscription to QST, is available at $1,190.* Libraries and institutions, $62 per year.

All Other Countries: Membership in the ARRL, including a 1-year subscription to QST, is available at $1,900.* Libraries and institutions, $76 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 $10 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.

Membership in the ARRL, including a 1-year subscription to Digital QST only, is available to Canadian and International members at $49.

Member Spotlight 13
Public Service 61
The World Above 50 MHz 80
Up Front 20
100, 50, and 25 Years Ago 94

Columns
Celebrating Our Legacy 91
Classic Radio 92
Contest Corral 63
Correspondence 24
The Doctor is In 49
Eclectic Technology 36
Feedback 52
Happenings 59
Hints & Hacks 51
How’s DX? 78
Member Spotlight 13
Public Service 61
The World Above 50 MHz 80
Up Front 20
100, 50, and 25 Years Ago 94

Departments
ARRL Section Managers 16
ARRL VEC Honor Roll 84
Certificate of Code 83
Proficiency Recipients 83
Convention and Hamfest Calendar 84
Field Organization Reports 62
Guide to ARRL Member Benefits 14
Ham Ads 124
Index of Advertisers 126
Officers, Division Directors, and Staff 15
QST Cover Plaque Award 55
Silent Keys 95
Special Event Stations 82
W1AW Qualifying Runs 83
W1AW Schedule 77
W1AW’s QSL File 28

Our Cover
As we approach the cold months in many areas, hams prepare their stations for some cozy indoor operating. Season’s Greetings to our members, from everyone at QST!