

National Contest Journal (ISSN 0899-0131) is published bimonthly in January, March, May, July, September and November by the American Radio Relay League, 225 Main Street, Newington, CT 06111-1494, USA. Periodicals postage paid at Hartford, CT and at additional mailing offices. POSTMASTER: Send address changes to: National Contest Journal, 225 Main St, Newington, CT 06111-1494, USA.

Publisher

American Radio Relay League
225 Main Street, Newington, CT 06111
tel: 860-594-0200
fax: 860-594-0259 (24-hour direct line)
Electronic Mail: hq@arrl.org
World Wide Web: www.arrl.org

Editor

Al Dewey, K0AD
ncjeditor@ncjweb.com

Managing Editor

Rick Lindquist, N1RL
n1rl@arrl.org

NCJ WWW Page

Bruce Horn, WA7BNM, Webmaster
www.ncjweb.com

ARRL Officers

President: Joel M. Harrison, W5ZN

Executive Vice President:

David Sumner, K1ZZ

Contributing Editors

Gary Sutcliffe, W9XT—Contest Tips, Tricks & Techniques
Paul Schaffenberg, K5AF—Contesting on a Budget
Jon Jones, N0JK—VHF-UHF Contesting!
Carl Luetzelschwab, K9LA—Propagation
Don Hill, AA5AU—RTTY Contesting
Scott Robbins, W4PA—NCJ and Station Profiles
Bill Feidt, NG3K—DX Contest Activity Announcements
Bruce Horn, WA7BNM—Contest Calendar
Pete Smith, N4ZR—Software for Contesters
Don Daso, K4ZA—Workshop Chronicles

ARRL CAC Representative

Ned Stearns, AA7A
7038 E Aster Dr, Scottsdale, AZ 85254
aa7a@arrl.net

North American QSO Party, CW

Bruce Horn, WA7BNM
4225 Farmdale Ave, Studio City, CA 91604
ssbnaqp@ncjweb.com

North American QSO Party, Phone

Bruce Horn, WA7BNM
4225 Farmdale Ave, Studio City, CA 91604
ssbnaqp@ncjweb.com

North American QSO Party, RTTY

Shelby Summerville, K4WW
6500 Lantana Ct, Louisville, KY 40229-1544
rttynaqp@ncjweb.com

North American Sprint, CW

Boring Amateur Radio Club
15125 Bartell Rd, Boring, OR 97009
cwsprint@ncjweb.com

North American Sprint, Phone

Jim Stevens, K4MA
6609 Vardon Ct, Fuquay-Varina, NC 27526
ssbsprint@ncjweb.com

North American Sprint, RTTY

Ed Muns, W0YK
PO Box 1877, Los Gatos, CA 95031-1877
rttysprint@ncjweb.com

Advertising Information Contact:

Janet Rocco, tel 860-594-0203;
fax 860-594-0303; jrocco@arrl.org

NCJ subscription orders, changes of address, and reports of missing or damaged copies should be addressed to ARRL, 225 Main St, Newington, CT 06111 and be marked **NCJ Circulation**. ARRL members are asked to include their membership control number or their QST mailing label.

Letters, articles, club newsletters and other editorial material should be submitted to NCJ, 1227 Pion Rd, Fort Wayne, IN 46845.

The NA Sprint and NA QSO Parties are not sponsored by ARRL.

Yearly Subscription rates: In the US \$20

US by First Class Mail \$28

Elsewhere by Surface Mail \$32 (4-8 week delivery)

Canada by Airmail \$31; Elsewhere by Airmail \$40

All original material not attributed to another source is copyright © 2007 by The American Radio Relay League, Inc. Materials may be excerpted from the NCJ without prior permission provided that the original contributor is credited, and the NCJ is identified as the source.

In order to insure 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 immediately. Thank you for your assistance.

4 Editorial *Al Dewey, K0AD*

FEATURES

5 Design and Construction of a Quad That Will Last *Steve Root, K0SR*

8 The NCCC Sprint: A Mid-Week Contest "Fix" *Ed Muns, W0YK*

9 Dave Ranney, KT0R, SK *Greg Fields, K0OB*

11 Update: The ARRL Contest Advisory Committee—Part 1 *Bob Neece, K0KR*

13 NCJ Profiles *Scott Robbins, W4PA*

COLUMNS

15 Software for Contesters *Pete Smith, N4ZR*

17 Workshop Chronicles *Don Daso, K4ZA*

18 Contest Tips, Tricks & Techniques *Gary Sutcliffe, W9XT*

19 Propagation *Carl Luetzelschwab, K9LA*

21 VHF-UHF Contesting! *Jon K. Jones, N0JK*

22 Contesting on a Budget *Paul Schaffenberg, K5AF*

23 DX Contest Activity Announcements *Bill Feidt, NG3K*

24 RTTY Contesting *Don Hill, AA5AU*

26 Contest Calendar *Bruce Horn, WA7BNM*

CONTESTS

27 North American Sprint CW/SSB/Rules

28 North American QSO Party (NAQP) CW/SSB/RTTY Rules

30 Results: August 2007 NAQP SSB *Bruce Horn, WA7BNM*

33 Results: August 2007 NAQP CW *Bruce Horn, WA7BNM*

37 September 2007 North American Sprint CW Results *Boring Amateur Radio Club*

42 September 2007 North American Sprint SSB Results *Jim Stevens, K4MA*

ADVERTISING INDEX

Alfa Radio Ltd.: 29

Array Solutions: Cover II

ARRL: 44, 46, 47

Atomic Time: 29

Better RF Company, The: 4

Bencher: 16

Clark Electronics: 10

ComTek Systems: 16

DX Engineering: 23

Elecraft: 10

FlexRadio Systems: 3

GlobalQSL: 48

Green Heron Engineering LLC: 20

Icom America: COVER IV

Idiom Press: 45

International Radio INRAD: 27

KØXG Systems: 44

microHAM America: 45, 47

Radioware & Radio Bookstore: 44

RF Parts: 23, 25

SuperBertha: 47

Ten-Tec: 1

Teri Software: 46

Texas Towers: COVER III

Top Ten Devices: 20

Unified Microsystems: 44

W2IHY Technologies: 25

Writelog for Windows: 7