## The American Radio Relay League

The American Radio Relay League, Inc., is a noncommercial association of radio amateurs, organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment of networks to provide communications in the event of disasters or other emergencies, for the advancement of the radio art and of the public welfare, for the representation of the radio amateur in legislative matters, and for the maintenance of fraternalism and a high standard of conduct.

ARRL is an incorporated association without capital stock chartered under the laws of the state of Connecticut, and is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1986. Its affairs are governed by a Board of Directors, whose voting members are elected every three years by the general membership. The officers are elected or appointed by the Directors. The League is noncommercial, and no one who could gain financially from the shaping of its affairs is eligible for membership on its Board.

"Of, by, and for the radio amateur," ARRL numbers within its ranks the vast majority of active amateurs in the nation and has a proud history of achievement as the standard-bearer in amateur affairs.

A bona fide interest in Amateur Radio is the only essential qualification of membership; an Amateur Radio license is not a prerequisite, although full voting membership is granted only to licensed amateurs in the US.

Membership inquiries and general correspondence should be addressed to the administrative headquarters:

### ARRL

225 Main St. Newington, CT 06111 USA Telephone: 860-594-0200 FAX: 860-594-0259 (24-hour direct line)

#### Officers

President: Rick Roderick, K5UR P.O. Box 1463, Little Rock, AR 72203

### The purpose of QEX is to:

1) provide a medium for the exchange of ideas and information among Amateur Radio experimenters,

2) document advanced technical work in the Amateur Radio field, and

3) support efforts to advance the state of the Amateur Radio art.

All correspondence concerning *QEX* should be addressed to the American Radio Relay League, 225 Main St., Newington, CT 06111 USA. Envelopes containing manuscripts and letters for publication in *QEX* should be marked Editor, *QEX*.

Both theoretical and practical technical articles are welcomed. Manuscripts should be submitted in word-processor format, if possible. We can redraw any figures as long as their content is clear. Photos should be glossy, color or blackand-white prints of at least the size they are to appear in *QEX* or high-resolution digital images (300 dots per inch or higher at the printed size). Further information for authors can be found on the Web at www.arrl.org/qex/ or by e-mail to **gex@arrl.org**.

Any opinions expressed in *QEX* are those of the authors, not necessarily those of the Editor or the League. While we strive to ensure all material is technically correct, authors are expected to defend their own assertions. Products mentioned are included for your information only; no endorsement is implied. Readers are cautioned to verify the availability of products before sending money to vendors.

# **Perspectives**

### **Technician Authors**

In the previous editorial we focused on amateur radio volunteers and recognized their efforts as the *Year of the Volunteers* drew to a close. Again, we mirror the lead of the ARRL Board, where a motion was introduced and passed to focus efforts on getting more Technicians active and on the air. In our case we invite Technicians and their global peers to experiment in the communications arts, and to report their findings as *QEX* authors.

In past years, the *only* distinction between Technician and General class licensees was the Morse code test — 5 WPM for Technician and 13 WPM for General class. Technician licensees had full privileges, but were largely restricted to VHF and above. It was the license of technologists and experimenters. Today, there is no Morse code element, and the upper license classes are earned by passing more difficult written tests.

*QEX* is a journal for communications experimenters, and is a disseminator of radio technologies and their advances. We adhere to the belief that radio amateurs, especially Technicians, like their historical predecessors, should be encouraged to carry on experimentation and to report their findings. We call on all amateurs, and especially Technicians to write for *QEX*.

### In This Issue:

- Marcel De Canck, ON5AU, presents Part 2 of EZNEC Pro+ v.7.0 and AutoEZ.
- Alan Victor, W4AMV, applies post detection filtering to improve receiver sensitivity.
- Eric P. Nichols, KL7AJ, in his Essay #20 discusses *Numerical Electromagnetic Code*.
- Riccardo Gionetti, IØFDH, describes a tracking generator adapter for low frequencies.
- Jeff Anderson, K6JCA, updates his L-Network equations for impedance transformation.

## Writing for QEX

Please continue to send in full-length *QEX* articles, or share a **Technical Note** of several hundred words in length plus a figure or two. *QEX* is edited by Kazimierz "Kai" Siwiak, KE4PT, (**ksiwiak@arrl.org**) and is published bimonthly. *QEX* is a forum for the free exchange of ideas among communications experimenters. All members can access digital editions of all four ARRL magazines: *QST*, *OTA*, *QEX*, and *NCJ* as a member benefit. The *QEX printed edition* is available at an annual subscription rate (6 issues per year) for members and non-members, see **www.arrl.org/qex**.

Would you like to write for *QEX*? We pay \$50 per published page for full articles and *QEX* Technical Notes. Get more information and an Author Guide at **www.arrl.org/qex-author-guide**. If you prefer postal mail, send a business-size self-addressed, stamped (US postage) envelope to: *QEX* Author Guide, c/o Maty Weinberg, ARRL, 225 Main St., Newington, CT 06111.

Very kindest regards, Kazimierz "Kai" Siwiak, KE4PT *QEX* Editor