

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:

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Newington, CT 06111 USA
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Officers

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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 black-and-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 qex@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.

Kazimierz "Kai" Siwiak, KE4PT

Perspectives

A Diverse Group

Let us pause here to examine what defines us, and to ask what is common among members of the following group of vocations and occupations:

Actor, Administrator, Ambassador, Artist, Astronaut, Author, Cosmonaut, Designer, Director, Engineer, Grade School Student, King, Lawyer, Manager, Musician, Nobel Laureate, Prime Minister, Prince, Professor, Programmer, Queen, Senator, Singer, Teacher, Technician, Tradesman, Writer.

The list is far from comprehensive; it is what hams of many walks of life have achieved, and what some hams do or did for a living. What binds us together is that each member of the group holds an amateur radio license. We hams are a diverse lot with a global span, and we range in age from pre-teen to centenarian. For many of us, our vocation does not match our avocation, so we bring varied perspectives to our hobby. Amateur radio brings our world together. Our diversity is our strength.

How has amateur radio influenced your life? How have you influenced amateur radio?

In This Issue:

- Wesley Cardone, N8QM, characterizes an accurate *SPICE* diode model.
- Dennis Sweeney, WA4LPR, simulates and designs interdigitated filters with *INTRFIL*.
- Russ Ward, W4NI, designs filters with *Octave*.
- John M. Franke, WA4WDL, repurposes waveguide sections to serve as drilling guides.
- H. Scott Lentz, AG7FF, designs a high image rejection receiver.
- Keith Stammers, G0SXG, derives a graphical solution to the parallel impedance problem.
- Dr. Philip Cassady, K7PEC, clarifies and improves tuned transformers.
- In his essay series, Eric P. Nichols, KL7AJ, discusses distributed circuits.

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