

IN-SERVICE



2012 Winter-Spring-Summer issue ~ ~ Volume 40

ASCRA Board Nominations Open for 2015 Class (2013-2015 Term)

Nominations for election to the ASCRA Board of Directors for Class 2015 directors, 2013-2015 term, are now open. **A maximum of six (6) nominations may be submitted per member to be received no later than Sunday, January 13, 2013.** Please remind other members you may contact about the nomination deadline.

Please verify that your nominees are willing to serve before you submit their names in nomination. Service as a director may entail travel to Independence, Missouri, or attendance by conference call, for at least one board meeting per year. All nominees should have E-mail capability but this is not a requirement for nomination or serving.

Only one nomination is required to place a willing nominee on the ballot. Each nomination must clearly identify who is making the nominations using a single piece of paper or E-mail message. Please list your nominees by name and callsign and include a preferred contact phone number, email, or postal address for each nominee.

The following directors are serving for the 2012-2014 term (2014 Class) and are NOT eligible for nomination at this time.

Larry Ragan, NØAIX, Gladstone, MO
Mike Thayer, KMØS, Jefferson City, MO
Terry Redding, W6LMJ, West Palm Beach, FL
Chuck Brady, KAØGFC, Boonville, MO
Dave Cook, KCØMHT, Castle Rock, CO
Tim Pfohl, KØOA, Lee's Summit, MO

All other licensed ASCRA members are eligible for nomination to the 2013-2015 term (2015 Class), including the following 2013 Class Directors whose terms expire in the Spring of 2013.

Chuck Palmer, NØONN, Independence, MO,
(Treasurer)
Dave Atkins, WØDZX, Higginsville, MO
Doug Shaw, WAØEMX, Raytown, MO
(Executive Director)
Ernie Miles, WB2UJL, Durham, NC
James Craft, ADØAC, Independence, MO
(Secretary)
Robin Cross, WØFEN, Kansas City, MO
(President)

Submit nominations by postal mail to:
ASCRA Secretary Jim Craft ADØAC
c/o P.O. Box 73, Independence, MO 64051-0073
or c/o: 1113 N Ponca Drive, Independence, MO 64056
or by E-mail to jrcraft79@yahoo.com.

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***Since ASCRA has no dues, if possible, please do not forget to send your tax deductible donation to ASCRA for 2012. Your generosity will help bring HQ station W0SHQ back on the air and expand operational opportunities for World Conference, USA National Conference, and on through the year, including W0SHQ Remote Base and Echolink capability.***

**EDITOR WANTED to layout ASCRA's IN-SERVICE newsletter.** Contact Executive Director Doug Shaw WA0EMX for details.

## July 7, 2012, Board of Directors Meeting Minutes

At approximately 10:30 AM, on July 7, 2012, the ASCRA Board of Directors met at the KCUR-FM studios near the UMKC campus in Kansas City, Missouri.

Six of our twelve board members (Chuck Palmer NØONN, Doug Shaw WAØEMX, Larry Ragan NØAIX, Mike Thayer KMØS, Robin Cross WØFEN, and Jim Craft ADØAC) met on site. Four board members attended via the conference bridge (Terry Redding W6LMJ, Dave Atkins WØDZX, Ernie Miles WB2UJL, and new member Chuck Brady KAØGFC) generously provided by Terry's Online Training, distance learning company. New board members David Cook KCØMHT and Tim Pfohl KØOA were unable to attend due to other commitments. The number attending exceeded the quorum required in the Bylaws.

Following an invocation by Larry Ragan, the *Board of Directors Election Certification*, submitted by the Ballot Tabulation Committee of John Chapman NØIYD, Bill Shaw KCØCDD, and Secretary Doug Shaw WAØEMX was reported for the record.

Minutes of the May 7, 2011, board meeting were accepted unanimously (Terry Redding moved, Larry Ragan seconded). The Combined Secretary/Executive Director (hard copy) and President's (verbal) annual reports to the board were also presented and accepted without changes.

Secretary Doug Shaw presided as the board unanimously reelected Robin Cross WØFEN as President (Larry Ragan moved, Chuck Palmer seconded). President Cross again presided as the board elected the following officers for 2012: Secretary Jim Craft ADØAC (Doug Shaw moved, Chuck Palmer seconded), and Treasurer Chuck Palmer NØONN (Robin Cross moved and Dave Atkins seconded). The board then unanimously concurred with President Cross' appointment of Doug Shaw WAØEMX to continue as Executive Director.

The Executive Director briefly reviewed current staff appointments for the record: Larry Ragan NØAIX as membership database manager, awards manager and Joomla website platform developer; Ernie Miles as webmaster for current website HTML platform, Robin Cross WØFEN as WØSHQ club station Trustee; and until other assistance volunteers, Doug Shaw WAØEMX as acting newsletter editor.

### **NEW BUSINESS:**

Executive Director reviewed Action Items Plan and Possible Expenses for the coming year. No changes or additions were proposed.

The board then discussed, modified (as moved by Jim Craft, seconded by Larry Ragan), and unanimously approved the following budget for the 2010-11 fiscal year:

|                        |              |                                                       |
|------------------------|--------------|-------------------------------------------------------|
|                        | IN SERVICE   | 500.00                                                |
| New Member Development | 350.00       | (includes licensing class and VEC exam costs at SPEC) |
| P. O. Box              | 48.00        |                                                       |
| Copies                 | 20.00        |                                                       |
| License Fees           | 20.00        |                                                       |
| <u>Misc.</u>           | <u>20.00</u> |                                                       |
|                        | 958.00       |                                                       |

### **Board Minutes continued.**

A proposed clarifying change to Bylaw IV.4 was discussed briefly then withdrawn by Executive Director as not substantive and therefore unnecessary.

The board then discussed the current status of Larry Ragan's pilot of the Joomla platform for the ASCRA website. As indicated by Larry at several past board meetings, Joomla is a content management system which allows subdivisions of a website to be defined and managed for content by multiple 'page masters', thus spreading the work load for maintaining a dynamic website content beyond a single webmaster. Larry indicated that the pilot has been hampered by a need for security access to the Apache Server where hosting is generously provided by Terry Redding's Online Training, distance learning company. Mike Thayer indicated that he has and understands an access to a similar hosting service. President Cross appointed a subcommittee composed of Terry Redding, Ernie Miles, Mike Thayer and Larry Ragan, to meet separately in subcommittee as needed to assist Larry, and to report progress on the Joomla platform website to Executive Director no later than next full board meeting.

The board then discussed current and developing forms of membership communications, including personal Email Lists, List Servers (such as our current one hosted by Graceland University, the recently developed ASCRA\_Members Yahoo Group (set up by Mike Thayer KMØS) and Facebook page (set up by Jim Craft ADØAC), etc. We will continue to urge members to join the ASCRA Yahoo Group (recently set up by Mike Thayer) and to utilize the Facebook webpage (defined and managed by Jim Craft). All may be used by members to post information for the group as to when and on what frequency they are on the air to facilitate contacts among the membership and to announce changes to net times or frequencies as dictated by propagation conditions.

An application for a new ASCRA chapter affiliation was presented by Mike Thayer KMØS in the form of an initial incorporation document for the Mid-Missouri Amateur Radio Association (club license: KDØSAF). The board unanimously approved the new chapter affiliation. Officers have not yet been selected. Chapter reports are expected from each chapter at least annually. All chapter news pertinent to ASCRA at large will be shared in the ASCRA newsletter as in the past.

The Rocky Mountain Mission Center area chapter that has been discussed for an extended period with the Executive Director by Dave Cook KCØMHT could not be addressed at this meeting since Dave could not attend. Once it has organized and can apply to the board for affiliation c/o the Executive Director, its affiliation can be considered and acted upon prior to the next board meeting by a special conference call or other means as deemed appropriate by the Executive Council (Pres., Sec'y, Treas., Exec.Dir.).

No substantive progress had yet been made to reorganize or restart a Central Mission Center (USA) ASCRA chapter (a.k.a. Center Place Amateur Radio Association). John Chapman NØIYD, Jim Craft ADØAC, Ed Briley KDØMEI, Gary Martin NØJHX, Doug Shaw WAØEMX, Tim Pfohl KØOA, Robin Cross WØFEN, Chuck Palmer NØONN, and others have indicated interest in assisting in this effort. The Executive Director was directed to appoint a group to discuss reorganization and funds from the former chapter have not been merged with ASCRA funds.

### **Board Minutes continued.**

The Board of Directors then approved Recognition to the following three persons (certificates to be presented or mailed to honorees):

- David Gates N5LCL of Newcastle, OK, for his 9 years service as a Director.
- Jim Fish K7NCG of Woodinville, WA, for his 5 years service as a Director.
- Doug Shaw WAØEMX of Raytown, MO, for his 12 years service as Secretary.

Dave Atkins and Doug Shaw discussed the impact of using of the high power capabilities of the WØSHQ station during World Conference, including existing issue of potential RF interference with the Auditorium fire and smoke alarm system.

Ernie Miles expressed appreciation for the use of Terry Redding's conference bridge for the meeting. The board also expressed birthday wishes to Dave Atkins. Chuck Palmer expressed his appreciation for the outpouring of concern over the recent motorcycle accident involving his wife Jennifer and himself in Independence.

Terry Redding posted 30-40 new pictures of ASCRA activities to the ASCRA Facebook page during the meeting. Further discussion was held on the capability of the Facebook photo page. Doug Shaw suggested an article for In-Service be written to introduce members to the social network and ASCRA's Facebook page in particular.

Robin Cross suggested that the Executive Director study the use and capabilities of PSK-31 for WØSHQ.

The meeting adjourned following a closing prayer by Terry Redding at 12:27 PM CST.

Respectfully submitted,

*Doug Shaw WAØEMX, immediate past Secretary*  
*Jim Craft ADØAC, Secretary*

## ***NØONN and Wife, Jennifer, Greatly Improved Since Serious Motorcycle Crash***

On March 24, 2012, our Treasurer Chuck Palmer as his wife, Jennifer, were catapulted over 50 feet when their motorcycle hit a curb that unexpectedly jutted out from the curb line they were following into the setting sun. Chuck sustained 5 broken ribs and a broken shoulder blade. Jennifer had 9 broken ribs and a severe concussion. She was kept in a medical coma in ICU for some time, after which she had to deal with changes to a tracheotomy to allow her to regain her speaking ability. An Email bulletin was sent to our ASCRA list and to several other church and area Amateur Radio lists asking for prayers on their behalf.

Since mid-summer, their recoveries have continued dramatically to the point that, despite some difficulties, they have been able to begin to rehab the house next door for their daughter, stripping the walls back to the studs, re-plumbing and re-wiring, then reinstalling walls and ceiling... truly amazing!

Thanks again to all those many friends whose supportive prayers have helped make their remarkable, if not miraculous, recovery possible. May it continue for them both.. PTL..! (ds/emx)

## **ASCRA Members Yahoo Group**

As reported in the last issue, Mike Thayer KM0S has established our new ASCRA\_ Members Yahoo group. Only a few have joined this very helpful communications tool thus far. To get instructions to subscribe send an Email to: [ASCRA\\_Members-subscribe@yahoogroups.com](mailto:ASCRA_Members-subscribe@yahoogroups.com).

One must create a Yahoo Email ID with which to access the group and define your profile in which one specifies the Email address to which any bulletins or messages sent to the group will be routed. You need not use the Yahoo ID for any other purpose. Members may specify how group messages are to be delivered: individually, or collected in a digest form sent at an interval of the user's choosing. If all members with any Email addresses will join the group we will be relieved of time consuming task of maintaining personal distribution lists for ASCRA members.

The group is moderated at present. Once joined to the group members merely post a message by addressing [ASCRA\\_Members@yahoogroups.com](mailto:ASCRA_Members@yahoogroups.com). Direct questions, comments, or concerns (including any reservations you may have to using Yahoo Groups) to our moderators Mike Thayer at [km0s@arrl.net](mailto:km0s@arrl.net) and Doug Shaw, at [wa0emx@arrl.net](mailto:wa0emx@arrl.net). (ds/emx)

## **New ASCRA Members and Member Profiles for *IN SERVICE***

In the last issue we reported several recently registered new or "lost but found again" members to our ASCRA Membership Database. These included re-found member Pete WB0LCW Henderson of Independence, MO, and new members Bill Orey N0OSI of Hartsburg, MO, and Rob Ryder K0ONEI of Holts Summit, MO (all recruited by Mike Thayer KM0S of Jefferson City, MO).

We also solicit members' personal stories for a Members Profiles column to appear as submissions warrant. Share episodes in the inspiring story of you and Ham Radio, your family adventure, the Church, and community, military or world service.

If you know of other potential ASCRA members or friends of ASCRA, please let us know who they are by sending a message to the ASCRA Secretary and Executive Director, or other officers so we can help recruit or welcome them to our growing and supportive fellowship. (ds/emx)

## **ASCRA Membership Database**

Go to <http://ascra.shenagarsys.net/> and login to verify your contact information. User-ID is your name: first(dot)last - and password is your five digit zip code concatenated to (that is following) your call sign: CALLSIGNnnnnn. You may download Larry's excellent video file from the webpage for instructions on using the database. Once logged in, try to add or update the Email address in your record if it is missing or incorrect. If you cannot access or update your record yourself, contact our Database Manager, Larry Ragan N0AIX, [lragan@kc.rr.com](mailto:lragan@kc.rr.com), who can assist you by adding your data (if it is not there yet) or determining your ID based on the name he may already have for you in the database. If you have any other questions, suggestions, or comments please send them to Larry. (ds/emx).

## **Bob Laudie WA6SZT – WW-II Veteran’s Video Story on YouTube**



L-R: Bill Shaw KB0CDD (Navy pilot), Doug Shaw WA0EMX, Bob Laudie WA6SZT (AAC Bombardier), 08 SEP 2012 in Independence, MO. <photo by Judy Pfohl>

By Doug Shaw WA0EMX

Bob Laudie's daughter, Judy Pfohl, reports that her dad's Army Air Corps World War II video interview segment is now on YouTube, along with many other Iowa City veterans interviews. One may go to [www.YouTube.com](http://www.YouTube.com) and search for 'IowaCitySCTV' (which is Iowa City Senior Television). Then, click on: Uploaded Videos, then choose, War Stories, featuring Bob Laudie. Or, simply go to: [http://www.youtube.com/watch?v=Y4YUk\\_zOjil&list=UUJfyf1MZqO0esJ8lwO3fu7Q&index=5](http://www.youtube.com/watch?v=Y4YUk_zOjil&list=UUJfyf1MZqO0esJ8lwO3fu7Q&index=5)

## **ASCRA Members Teach Ham Radio Class at Graceland's SPEC, July 2012**

By Mike Thayer KM0S

Terry Redding W6LMJ, David Redding, and Mike Thayer KM0S attended SPEC this year to teach the Amateur Radio Technician Class course to SPEC attendees. We had two students participate in the class and one passed the Tech exam. David Redding successfully upgraded to General Class. ASCRA President Robin Cross, W0FEN, Board member Mike Thayer, KM0S, assisted Raytown Amateur Radio Club W5YI Volunteer Examination Contact Stephen Lufcy, K0OU in administering the exams to four. One of the things our students enjoyed was talking on HF to other amateurs. ASCRA provided the Technician Manual and testing fees for those attending the class.

We all plan on attending SPEC next year and working to get even more students for the class. If you have any young people that attended SPEC this year, please help us "talk up" Ham Radio

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## ASCRA Echolink VoIP Nodes

**W0YO-R Repeater Node:** The Lamoni, Iowa, W0SHQ 2 Meter FM 146.73(-) [PL 114.3] repeater is operated by the Lamoni Amateur Radio Association (LARA), a chapter of the Association of Saints Church Radio Amateurs (ASCRA, [www.ascra.org](http://www.ascra.org)). The repeater transmit antenna extends to 90 feet on a 70 foot tower located between the homes of repeater sysop Jon Barney AA0OS and Tony Crandall K0ISA, LARA President. Internet VoIP access to the repeater is served by a dedicated EchoLink node, W0YO-R (#127318) operated by the Graceland University Amateur Radio Club (also an ASCRA chapter) in Lamoni. The Lamoni EchoLink node is RF-linked to the repeater and is located at the home of the W0YO Trustee, retired Professor, Steve Murdock N0ZY.

**W0SHQ-R Repeater Node:** The Independence, MO, W0SHQ 2 Meter FM 146.73(-) [no PL] is operated by ASCRA HQ staff (Sysop Doug Shaw, WA0EMX, Trustee Robin Cross W0FEN). The W0SHQ-R Echolink node# 127303 will be RF connected to the repeater via a Motorola MaxTrac transceiver located with its PC in the W0SHQ radio station in Room 631 in the Auditorium on the Church's IHQ campus. Activation of the node to the Internet whenever a Sysop has been in the radio shack has been prevented since the installation of a new LAN switch through which our CAT5 Internet connection is now routed. The IHQ network administrators have been very supportive while making extensive changes to the campus network this summer and fall, so I hope to resolve this issue sometime in January.

## Other KC Area Echolink Nodes

that may be used to connect with IHQ area ASCRA stations are:

<> Raytown Amateur Radio Club (MO)  
K0GQ 2 Meter FM Repeater, 145.17(-) [PL 151.4 - 11pm-07am]  
EchoLink Node K0GQ-R, node # 403841 (currently offline)  
[www.k0gg.com](http://www.k0gg.com)

<> KC Veterans Hospital Amateur Radio Club  
KC0VA/R 443.500 MHz (PL 151.4 Hz)  
Echolink Repeater Node KC0VA-R, node # 7957  
[www.kcveterans.com](http://www.kcveterans.com)

To learn more about EchoLink go to [www.echolink.org](http://www.echolink.org) for more details. This website also includes lists of Echolink Repeater, Link (simplex frequency) and PC based Conference nodes.

## W0SHQ IHQ Club Station Status & Plans

You may have noticed that this issue merges the 2012 Winter, Spring, and Summer issues into one. While not the only reason for doing this, by doing so we have saved over \$300 of our newsletter publication expenses to help fund the repairs and upgrades to the ASCRA Club Station W0SHQ at the Church's International Headquarters Campus in Independence, MO. This savings and any additional donations received will help fund an 80-10 meter dipole antenna needed for remote base operation and complete implementation of the W0SHQ-R Echolink node. We hope to have two HF operating positions ready by World Conference as well as expanding our VHF/UHF all mode capabilities.

Since July, I have spent over 200 hours in various activities related to the analysis, repair and upgrade of W0SHQ antenna systems and building relationships with IHQ staff who are very supportive of our efforts. Progress to date would not have occurred without the assistance of several volunteers who assisted in taking down the TH-6 tri-band yagi antenna for repairs and then helping re-install it on the tower. At risk of forgetting a name or two, some of the volunteers include Jim Craft AD0AC, Gary Martin N0JHX, Dave Atkins W0DZX, and Bill Bedwell WC0B. In addition to being our tower climber, Bert Isaacks KA0PAO has spent many additional hours measuring, designing and manufacturing parts for the antenna (including a

## SKYWAVES *continued*

new solid steel mast to support the yagi and a dual-band ½ wave vertical for 2M/70cm purchased to replace the Cush-Craft vertical hit by lightning several years ago. We've been using an alternate 2M antenna since then. Bert also refinished the rotator mounting platform and replaced the old Ham-m with our new Ham-IV rotator. Most recently Bert and I were on the roof soldering the new 8 pin connectors needed to re-install the rotator control cable. Bert was also on the tower until two or three hours after sundown drilling the solid steel mast and mast clamps for the rotator to mast set-bolt, while I was his primary (and only) go-fer, making multiple trips up and down the two flights of stairs, sometimes all the way down to his truck. (That day alone was a good 8 hours for him and 10 hours for me.)

If the weather holds and the temperature actually gets back into the 50s we may be able to complete the HF coax splicing and weather proofing, as well as installing the dual band VHF/UHF vertical, before Christmas. If not, we will do it at the first opportunity after New Years. If at least building access is possible, Jim Craft and I plan to work in the shack before Christmas to reconnect all the AC power supplies for all the radios, PC, and other equipment I had to disconnect for several weeks while the main power switches for the IHQ campus were being upgraded, which required multiple campus-wide power outages during that major project. While the outages required are now completed, the IHQ maintenance and PC support staff are still working on circuits supporting various area in the HQ complex. Most of these should not affect W0SHQ at this time, going forward. This major IHQ maintenance project did make it difficult to schedule time on the roof when power would be available for the tools we needed to accomplish our own tasks.



Doug WA0EMX & Bert KA5PAO



Jim AD0AC, Bert, Dave W0DZX



Bert securing, close-up



Bert removing Ham-m



Bert securing repaired yagi boom



Sky-monkey Bert KA5PAO

## Thanks Again For Prayerful Support

I had my 1 year follow-up X-rays and consultation with my neuro-surgeon regarding my 01 DEC 2011 back surgery and got an A+ report on my progress, namely that I am way ahead of where he expected I would be after 12 months. Bone re-growth is evident and the installed titanium apparatus are providing excellent stability as planned. I am to recheck with him again in a year.

After first using only in-home core exercises, focused work-outs 5-7 days per week at the fitness center since last July have paid off. I started very conservatively with only treadmill work, then added an elliptical cross trainer. Eventually dropped the treadmill while adding strength training machine stations beginning in August, one or two at a time. I'm now up to 14 stations and modifying weight and reps as I continue the regimen. For example, Leg Presses are up to 140 pounds and Back Extensions are at 170 pounds, varying reps for all the stations. Without the hard work I've done I know I could not carry heavy tool bags up and down the two flights of stairs to the Auditorium roof as I have done countless times in recent months. I've lost only 8-10 pounds but feel 100% better than a year ago before and after my surgery. Thanks again for all the prayerful support. Best regards, Doug.

# Net Check-Ins by Ernie Miles, WB2UJL

From 12 FEB to 22 JUL 2012, the following stations are reported as checking into the Sunday ASCRA Nets: 20 Meters (14.287 MHz, 1530 CT) and 40 Meters (7190 kHz, 1430 or 1630 CT depending on propagation). Because propagation for this period has been less than optimum much of the time, check-ins are lower than normal. Please continue to try to join us. (Join the ASCRA\_members (Yahoo Group) distribution list to receive the latest net time or frequency changes due to QRM, and to receive other members' time and frequency availability (when they are on the air looking for other ASCRA contacts. -ed.)

## 20 Meter Net

N0AIX Larry Ragan  
AD0AC James Craft  
W0DZX David Atkins  
W10F Gary Tickemyer  
W0FEN Robin Cross  
KD0GCH William Prince  
KA0GFC Charles Brady  
WA0IBS Andy Ferrar  
N01YD John Chapman  
N0JHX Gary Martin  
WB0LCW Robert Henderson  
KD0MEI Edward Briley  
KD0MLW James Craft  
KD0NEI Robert Ryder  
KM0S Mike Thayer  
KA0SOH Donn Hornberger  
KD0PCY James Newell  
WB0PIN John Anderson  
KD0QIV Thomas Dolsky  
W0QJE Stabkey Gilstrap  
AC0UN Alan Henderson  
K0VMT Robert Mack  
N0ZY Steve Murdock

WA2ELB Christopher Stella  
N2EMD Jonathan Stamey  
WA2GTM Ray Knapp  
WB2UJL Ernie Miles

K3MY Barry Meltzer  
VA3RZ Raymond Else  
VE3SCP Scott Price

AJ4BC Michael Hamm  
K4WOU Ira Kalfus

KF5BD Jack Page  
KD5BFE James Craft  
KF5BXG William Risinger  
KF5DCB Randy Smith  
W5ESV Edward Vance  
K5GNF Dregory Fisher

KI5IO Jeffery Nestor  
KE5NCT Robert Domenico  
KC5NPC Hughbert Robinson  
KD5RWR Joey Schoefler  
NR5T Doug Gerry  
KE5VTD David Marti  
N5VEZ Michael Heppe  
K5XS Bernard Skoch

W6DY Lawrence Fleming  
KI6KOP Leo Liberio  
W6LMJ Terry Redding  
W6WQA Charles Watkins

K7NCG Jim Fish

KD8LPO Jona Estabrook  
K8QA Mike Oiler  
KC8VHA Richard Parker

KA9GXZ Frederich Kopp  
KC9SJM Thomas Wolf  
KC9VRU Thomas Loftus

## 40 Meter Net

W0DZX Dave Atkins

W0FEN Robin Cross  
WB0LCW Robert Henderson

KD0MEI Edward Briley

KM0S Michael Thayer  
AC0UN Alan Henderson

KC2UEY Lionel Vielot  
WB2UJL Ernie Miles

W6LMJ Terry Redding

KC9SIO Steven Reiners

Please send comments or suggestions regarding ASCRA policies or programs to the Executive Director. Send revisions to the membership data base (license upgrades, postal or Email addresses, phone numbers, acceptance of newsletter delivery via email, etc.) to the Secretary... c/o P.O. Box 73, or via email c/o [wa0emx@arrl.net](mailto:wa0emx@arrl.net).

Send comments, suggestions, and material proposed for future issues to:

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### **IN-SERVICE**

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