

The Oscillator

Published BI-Monthly by the Tri-Town Radio Amateur Club, Inc. PO Box 1296, Homewood, IL 60430
Volume 55 Number 3 May 2009 Club Call W9VT

Up Coming Programs

May 15

PSK operating, satellite operating, and see and play with the new equipment at the bunker.

June 19th

Severe Weather Spotting by Bill Wilson from the National Weather Service.

FROM THE CHAIRMAN'S SHACK

Dave, N9LGP

This is the debut of a column I will be including in the Oscillator from time to time. I consider it a privilege to be able to serve the club as a board member. As Chairman of the Board, I consider it my duty to not only conduct our board meetings in an efficient and productive manner, but also to communicate with the club membership.

At our April board meeting many items were on the agenda for discussion. Among those items were the "usual" things. Field Day, Drivin the Dixie, Folks on Spokes, and our summer picnic. I realized, with great pride, that our club is indeed an active club. Our membership numbers may go up and down from time to time, but our activities continue steadfast. And this is a great tribute to our club, as well as our hobby. We are indeed a public service organization and hobby.

It takes people to keep a club "up and running". This means that each of us individually should step up and contribute some of our time and effort in support of the club. Whether you do this by filling an officer position, board position, volunteering to help with the various activities I mentioned earlier, or mentoring a new ham, each individual's assistance is needed to keep the club running on all cylinders. So give this some thought. How can you contribute? It doesn't need to be a big contribution. All of the little contributions add. And the result can be big.

Invite a ham friend to a meeting, or Field Day. If you QSO someone on VHF/UHF, mention our club. Give them our web address. Promote the club. New blood keeps things going, and growing. We have so much to offer, especially with our state of the art club station. I look forward to club growth in the future. Tri-Town can be, and should be, the premier club of the south suburbs! Why not? The potential is there, we just need to believe it, promote it, grow it, and above all, have fun and enjoy this great hobby we share!

Finally, I would like to express, on behalf of the Board and the club membership, our sincere thanks to Jim Anderson / NV9X for his recent service as our Club President. Jim's heart was in it, and the club benefited from it. Thanks Jim! Our thoughts and prayers are with you and your family.

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Officers, Board Members, & Committee Heads for 2008:

Tom Niemeyer	AB9LA	President	708.672-5844	tom1485@sbcglobal.net
Jim Everand	WD9GXU	Secretary	708.748.6798	None
Trish Jaggard	N9WDG	Treasurer	708.957.1973	the_jaggards@sbcglobal.net
Todd Schumann	KA9IUC	Director	708.423.7066	tschum3063@aol.com
Bruce Haffner	WD9GHK	W9VT Trustee	708.614.6134	WD9GHK@comcast.net
Jerry Dagenais	K9PMV	W9VT Station Mgr.	708.385.2866	K9PMV@sbcglobal.com
Tom Gunderson	W9SRV	Webmaster, W9VT	815.466-0245	webmaster@w9vt.org
Matt Schumann	N9OTL	Raffle Chairman	708.423.7066	mattschuman@yahoo.com
Dave Dell	N9LGP	Field Day Chairman	708.235-1270	n9lgp@sbcglobal.com
		Chairman of Board		
Brian J. Bedoe	WD9HSY	Repeater Trustee, Oscillator Editor, Director	815.469.1383	Bbedoe@aol.com

Members of the Tri-Town Radio Club Inc. publish the Oscillator 6 times a year. Opinions expressed are not necessarily those of the Officers or members of the Tri-Town RAC, but of the contributors. All articles may be reprinted as long as full credit is given. Other publications are asked to reciprocate their newsletter. Some Articles printed here are from AMSAT, ARRL Letter, TAPR, World Radio, and Other Amateur Radio Publications.

Club Meetings & Nets

Club meetings are the **3rd Friday** of each month at the **Village of Hazel Crest Village Hall**, 170th and Holmes. All are welcome and refreshments will serve. Don't forget to bring a Friend.

Official Club 2 Mtr hangouts:

146.49 Simplex, & The Club's Repeater **146.805** **WD9HSY/R**

Unofficial Club Hang Outs:

442.375 Homewood, **441.300** Grant Park **WA9WLN/R**, "Waldofar"

443.325 Frankfort **WD9HSY/R** & **147.165** Kankakee Co. **WD9HSY/R**

All UHF's use a 114.8 PL All VHF's use a 107.2 PL

The **W1AW Operating Schedule** may be found on the web: <http://www.arrl.org/w1aw.html>

2 Mtr FM 49'ers Net - Wed, 8:00 PM Local, 146.490.

40 Mtr SSB Net - Saturdays, 8:30 AM Local, 7.2625.

10 Mtr SSB Net - Thursdays, 8:00 PM Local, 28.490.

Cracker Barrel Net - Monday-Friday 3:00 PM Local 146.805 -600kc 107.2 PL

2 Mtr FM Weather Net - Sundays, 8:00 PM local, on **The Club's Repeater** 146.805 -600kc 107.2 PL

Upcoming Hamfests

15-17 May 2009	Dayton Hamvention , ARRL Nat Convention, http://www.hamvention.org
7 Jun 2009	Starved Rock Radio Club http://www.qsl.net/w9mks/hamfest.htm
21 Jun 2009	Six Meter Club of Chicago http://www.k9ona.com Dupage Co Fair Grounds

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DRIVING THE DIXIE 2009 SET FOR SATURDAY, JUNE 20, 2009

Martin Monahan (WD9JGG)

For the fourth year in a row Tri-Town has been asked to provide communications support for this annual event.

The format this year will be different. Rather than a parade for the entire typical fleet of 150 plus vehicles from Blue Island down to Momence, some 10-15 vehicles will now be dispatched every 15 minutes starting about 8:30 or 9AM from the starting point in Blue Island. The groups will be encouraged to visit a number of sites in a selected number of communities and spent as much time as they would like in each community. Pretty much all driving participants are expected to partake of the traditional free hot dog lunch in Steger between 11AM and 1PM, and then join in on the closing activities in Momence starting around 4PM.

Martin (WD9JGG) envisions providing Tri-Town support to this new format through having Tri-Towner's positioned in as many of the communities as possible to report via our repeaters to the event organizers and other Tri-Towners up and down the line how things are going in each community (i.e. traffic jams, parking supply problems, etc.). These communities can also always use some help with the parking, directing participants once out of their cars and on foot to the various sites of interest in each village, etc.

Rather than about a one hour commitment as in the past, given the new format Martin is hoping many Tri-Town volunteers will be able to help out for about two hours this year. Martin will be offering suggested start times relative to each community (i.e. Blue Island, Posen, Hazel Crest, Homewood, Flossmoor, Chicago Heights, Steger, Crete, Beecher, Grant Park and Momence).

This has proved to be a fun and rewarding event for Tri-Town participants in each of the last three years. Those that help with this year's event are asked to contact Martin (WD9JGG) at MartinM524@aol.com or 708-957-9654. More details are also available at <http://drivingthedixie.synthasite.com/> and <http://drivingthedixie.org>

Dayton Hamvention, 146.49 simplex and a 107.2 PL

Brian, WD9HSY

As we all know, the 3-day Dayton Hamvention is the biggest RF jungle in the world. As in past years, 146.49 will be the freq of choice for all of us at Dayton. Last year a number of us on 146.49 also had our radios in Full PL encode / decode (TX/RX) using 107.2 (the same PL as the Repeater) This ALMOST eliminates all the noise, junk, garbage, and nonsense on 49. It also just about removed all non-club activity so that when the squelch open it was usually a Tri-Towner on the air! If you want to hear all 49 activity just turn on your TX PL so we will hear you while we are in PL mode. Go PL TX and RX to hear nothing but peace and quiet and us! Not sure how to set up your radio? Check your manual for setting your PL. If you have lots of memory positions set up 2 memories. 1. On 146.49, with TX only PL, and 2. On 146.49 with TX and RX set to 107.2! That way you can play both ways and if the noise gets too bad you can flip over to full PL!

If I have confused you? Give me a call and I'll talk you through it!

PBH-10 Transatlantic Balloon Flight Delayed

The launch has been postponed. It appears that the best weather for launching is 0000-0300 UTC, 4 May 2009, though this may change with relatively short notice based on ground wind conditions at the launch site and the position of the jetstream relative to the launch area. To clarify: we do anticipate the best time to launch is 0000-0300 UTC; however, the exact launch day may move to the right or left from 4 May 2009. For those of you interested in monitoring us via APRS, our beacon's call sign will be KC2TUA-10 For those with HF CW monitoring capabilities on 40m, our HF frequency will be HF 7.1025 MHz +/-300 Hz.

Tom Triebwasser (KC2TUA) on behalf of Team PBH <http://courses2.cit.cornell.edu/sysen5960/>

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PRESIDENT OBAMA NOMINATES NEW FCC COMMISSIONER

On Wednesday, April 29, President Barack Obama announced his intention to nominate Mignon L. Clyburn of South Carolina as an FCC Commissioner <http://www.whitehouse.gov/the_press...a-Announces-Mo-re-Key-Administration-Posts-4-29-09/>. If her nomination is approved by Congress, Clyburn will fill the seat of Democrat Jonathan Adelstein. Adelstein is leaving the FCC to head up the Department of Agriculture's Rural Utilities Service (RUS) <http://www.arrrl.org/news/stories/2009/03/23/10716/?nc=1>.

In 1998, Clyburn was elected by the South Carolina General Assembly as a Commissioner to represent the Sixth Congressional District; she has been re-elected three times, chairing the Commission from 2002-2004. She is a past chair of the Southeastern Association of Regulatory Utility Commissioners, and is presently the chair of the Washington Action Committee of the National Association of Regulatory Utility Commissioners (NARUC) <http://www.naruc.org/>. Clyburn also serves on NARUC's Audit Committee and Utilities Market Access Partnership Board.

Acting FCC Chairman Michael Copps congratulated Clyburn, saying, "She is an excellent choice, and the experience she brings from her service on South Carolina's Public Service Commission will be an invaluable asset as we address the many challenges and opportunities that are before us. I wish her a successful Senate confirmation and look forward to working with her over the coming months and years in serving consumers and the public interest." Clyburn graduated from the University of South Carolina with a Bachelor of Science degree in Banking, Finance & Economics in 1984.

SOLAR UPDATE

Tad "He smiles upon their sunny faces" Cook, K7RA, this week reports: The data at the end of last week's bulletin showed daily sunspot numbers from April 16-22 as six zeros, then 11. In fact, every day was at zero until April 21, when it was 11; it moved again to zero the next day, April 22. We had just as many zero sunspot days -- and only one day with a sunspot -- but we saw the sunspot on Tuesday, April 21, not April 22. We had two additional days with a sunspot this week, Wednesday and Thursday, April 29-30. The sunspot number was 15 and 12, respectively, on those days. But this was another old Solar Cycle 23 sunspot, and it appeared near the western limb. By today, it may have either faded away completely or rotated out of view, May 1. The data at the bottom of our bulletin shows seven days, Thursday through Wednesday for the reporting week, so the sunspot number of 12 for Thursday will appear in next week's data. Sunspot numbers for April 23-29 with a mean of 2.1. The 10.7 cm flux was a mean of 69.3. The estimated planetary A indices were a mean of 3.7. The estimated mid-latitude A indices were a mean of 2.6. For more information concerning radio propagation, visit the ARRL Technical Information Service Propagation page <http://www.arrrl.org/tis/info/propagation.html>. To read this week's Solar Report in its entirety, check out the W1AW Propagation Bulletin page <http://www.arrrl.org/w1aw/prop/>.

ARRL IN BRIEF:

ARRL DXCC Desk Approves Two 2009 Operations: ARRL DXCC Manager Bill Moore, NC1L, reports that two 2009 operations have been approved for DXCC credit: Western Sahara (S04R) and North Cook Island (E51QQQ). "If you had cards that were recently rejected for this operation, please send an e-mail to the ARRL DXCC Desk <mailto:dxcc@arrrl.org> and you will be placed on the list for update," Moore said.

Internet Search Engine Celebrates Birthday of Samuel F. B. Morse: Internet search engine Google <http://www.google.com/> reconfigured their home page for April 27 to honor the 218th birthday of Morse code creator Samuel F. B. Morse (April 27, 1791-April 2, 1872). Morse, a native of Charlestown, Massachusetts, conceived the basic idea of an electromagnetic telegraph in 1832. With his creation with Alfred Vail of the American Morse code, the historic message "What hath God wrought?" was successfully sent from Washington to Baltimore. For more information Amateur Radio and Morse code, please visit the ARRL Web site <http://www.arrrl.org/FandES/ead/learncw/>.

THE 2009 ARRL NATIONAL CONVENTION & DAYTON HAMVENTION: TWO WEEKS AND COUNTING!

On May 15-17, hams from all over the world will make their way to the Hara Arena, located in Trotwood, Ohio for the 2009 ARRL National Convention <http://www.arrl.org/announce/nc/2009/dayton.html> and Dayton Hamvention <http://www.hamvention.org/>. Held annually since 1952, Hamvention is one of the largest Amateur Radio gatherings in the world.

Following the tradition of Dayton natives Wilber and Orville Wright, the ARRL National Convention will be a "hands-on" paradise. New, interactive exhibits at the ARRL EXPO, the centerpiece of the National Convention, will provide engaging, real-life experiences that encourage hams and non-hams alike to get more active in Amateur Radio. At the ARRL Project Building Booth, attendees can try their hand at assembling a kit as they handle electronic components and circuit boards -- even a little soldering!

You can also explore the many facets of ARRL Field Day <http://www.arrl.org/fieldday> at the ARRL EXPO. "Field Day is the largest operating event in the world and represents the very best of the Amateur Radio Service," said ARRL Field Day Manager Dan Henderson, N1ND. The annual event draws tens of thousands of radio amateurs to the airwaves over a single weekend. Henderson said that Field Day is part emergency preparedness exercise, part public demonstration and part radio club social event: "It's really just a lot of fun and gives us a chance to get out there and show what we can do on many fronts."

Keeping Up in Dayton

If you can't make it to Dayton -- or even if you make the trek -- you can still catch all the latest news on the Convention's Weblog <http://www.arrl.org/blog>. QST Editor Steve Ford, WB8IMY, will once again be blogging about Hamvention. Proving you can indeed go home again, Steve will regale readers with the adventures of staying with his mother at his childhood home in Dayton. For the past few years, thousands of readers have been entertained as Steve has related stories about new gear making its debut at Hamvention, the weather in Dayton and the overall feel of the event -- as well as the ever-popular antics at "Casa de Mi Madre."

The ARRL will introduce a new blog at this year's National Convention: ARRL Youth Editor Duncan MacLachlan, KU0DM, will blog from a young ham's perspective. MacLachlan, who will be assisting former Youth Editor Andrea Hartlage, KG4IUM, and her father Scott, KF4PWI, in the ARRL Youth Lounge, will explore the Hamvention exhibits, forums and events, giving his first-time take on the Hamvention experience. MacLachlan's perspective is a welcome addition to the ARRL National Convention team. Explore all of Hamvention's nooks and crannies through his blog and Twitter updates <http://twitter.com/arrlyouth>.

ARRL staff are getting ready for all the excitement that a National Convention brings. Teaming up with the Dayton Hamvention is sure to bring everything to a fever pitch, so why not make plans to join in on the fun? Travel and lodging information is available on the Hamvention Web site <http://www.hamvention.org/travel.php>.

NZ4O LF/MF/HF/6M Frequency Propagation Forecast #2009-13

The NZ4O Daily LF/MF/HF/6M Frequency Radiowave Propagation Forecast #2009-13 has been published on Thursday 04/30/2009 at 1500 UTC, valid 0000 UTC Saturday 05/02/2009 through 2359 UTC Friday 05/08/2009 at <http://www.kn4lf.com/kn4lf6.htm> .

ARRL Forum Schedule at the Hamvention

Several ARRL staff members will be on hand at Dayton, presenting forums on several exciting topics. On Friday, May 15 at 10:30 AM in Room 5, Henderson and a group of other Field Day aficionados will share some helpful hints they have garnered from decades of Field Day operations. Special Field Day 2009 posters will be available to participants (while they last), as well as some special Field Day surprises. Come learn more about some of the unique and fulfilling ways groups across the US and Canada get on the air to celebrate ARRL Field Day.

ARRL Volunteer Counsel (VC) Jim O'Connell, W9WU, along with "Antenna Zoning for the Radio Amateur" author Fred Hopengarten, K1VR, ARRL Technical Relations Manager Brennan Price, N4QX, and ARRL VC Paula Uscian, K9IR, will present "Ham Radio and the Law -- Getting It Up and Keeping It Up" on May 15 at 12:15 PM in Room 3. Join this discussion by Amateur Radio attorneys on legal issues of interest to hams on topics that include how to avoid restrictive covenants, how to present your case for a tower permit and how to defend against nuisance claims. Hear about the latest court rulings on RFI, PRB-1 and towers, as well as updates on the ARRL's Legal Defense and Assistance Committee.

Come ask QST's very own "Doctor" your technical Amateur Radio questions in person on May 15 at 12:15 PM in Room 2. QST Technical Editor Joel Hallas, W1ZR, will provide his best answer on the spot, or get back to you shortly after the National Convention. Some questions and answers may end up in QST if they seem likely to be helpful to readers. This will be an informal sleeves-rolled-up chalk talk environment. Be sure to bring your questions!

Reaching out to the public is the life blood of Amateur Radio! From land- and property-use restrictions to recruiting, our ability to enjoy the service depends on keeping a positive image. Join ARRL Media and Public Relations Manager Allen Pitts, W1AGP, on May 15 at 1:30 PM in Room 2 as he introduces ARRL's PR-101 course <http://www.arri.org/news/stories/2009/01/22/10578/?nc=1>. This is a course to teach hams the basics of making -- and keeping -- a good relationship with your town and the media. If "every ham is a Public Information Officer," then every ham needs to have these skills.

Join the ARRL on Saturday, May 16 at 10:30 AM in Room 2 for an interactive session with ARRL national and regional leadership. ARRL is a membership organization -- we are here for you. Come share your ideas and ask questions.

If you've ever wanted to try digital contesting but weren't sure how to get started, we definitely have a forum for you! Join ARRL Publications Manager and digital guru Steve Ford, WB8IMY and learn how to get started in digital contesting. This forum, offered on May 16 at 1:15 PM in Room 3, will show you that you don't need to be a big-gun station with a kilowatt and a tower to have hours of on-the-air fun. All you need is a radio, a computer, an antenna -- and some helpful advice that you'll pick up at this forum! Join the thousands of hams who are already experiencing the joys of digital contesting.

Get up close and personal with Richard Garriott, W5KWQ, on Saturday, May 16 at 1:30 PM in Room 1. In October 2008, Garriott -- son of Owen Garriott, W5LFL -- fulfilled a lifelong dream to experience spaceflight and traveled to the International Space Station (ISS) aboard a Russian Soyuz spacecraft. While living on the ISS, he conducted scientific experiments and environmental research, but he also had a chance to do quite a bit of Amateur Radio operating, including sending slow-scan TV (SSTV) images. Owen Garriott, W5LFL, initiated the first ham radio contacts from space 26 years ago aboard the shuttle Columbia on STS-9. Richard Garriott will also be on hand at the ARRL EXPO throughout the weekend signing autographs and meeting amateurs.

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At the ARRL EXPO at Dayton-- and Beyond!

There is so much to do at the ARRL EXPO. Visit the huge ARRL bookstore to purchase popular ARRL publications, join or renew your ARRL membership and pick up official ARRL merchandise. Get a free gift when you join ARRL or renew your membership at ARRL EXPO and everyone gets a free ARRL Dayton 2009 button (while supplies last).

Whether you're 10 or 110, the EXPO has something just for you. Join young (and young-at-heart) amateurs at the ARRL Youth Lounge. Drop by the ARRL Youth Lounge to meet and socialize with other young hams. Come chat with other hams, listen to music, grab a snack or participate in one of the many activities, such as fox-hunts, scavenger hunts, Morse code fun, a QSL card designing contest, crafts, prizes and more. Whether or not you're licensed, you're welcome to come by and join the fun! If you're looking for other youth during the convention, try calling them on the youth calling frequencies: 145.540 MHz (107.2 Hz CTCSS) primary and 146.430 (233.6 Hz CTCSS) secondary. Not licensed yet? Soon-to-be hams can check-in using FRS channel one.

If you enjoy waxing nostalgic over the gear of yesteryear, drop by the exhibit area to meet vintage equipment photographer Joe Veras, K9OCO. He will be autographing his book, "50 Years of Amateur Radio Innovation" -- filled with photographs of classic and legendary transmitters -- that was recently published by ARRL <http://www.arrl.org/catalog/?item=0228>. You can also tour a 1964 Collins Radio Company communications van -- a Ford Econoline van that traveled as a mobile demonstration center for Collins equipment. The van, decked out with vintage gear from the S-Line period, will be there for you to explore.

Bring your license and get on the air from W1AW/8 at the ARRL National Convention. Operating times and frequencies will be posted at the station. Meet W1AW Station Manager Joe Carcia, NJ1Q, from the famed Hiram Percy Maxim Memorial Station at ARRL Headquarters.

Personnel from the ARRL DXCC Branch will be on hand to check your DX cards and applications. All cards will be eligible for checking, including old cards, cards for deleted countries and cards for 160 meters. Applications will be limited to 120 cards (more cards will be checked as time and volunteer Card Checkers are available). See the DXCC Web site for the latest program information and current forms <http://www.arrl.org/awards/dxcc>. Representatives from Logbook of the World (LoTW) will also be on hand, giving demonstrations and answering your questions <http://www.arrl.org/lotw>.

Besides the myriad of activities taking place off-site such as Contest University <http://www.contestuniversity.com/> and the QRP event Four Days in May <http://www.fdim.qrparci.org/>, there will be a Wouff Hong Ceremony <http://www.arrl.org/tis/info/history.html> on Saturday, May 16 at 10:45 PM at the Crowne Plaza Hotel in downtown Dayton. Sponsored by the NE Ohio Ham Radio Players, any licensed ARRL member can participate in this lively ARRL tradition that is steeped in mystery! Attendees will receive a special keepsake at this fun activity, appropriate for all ages.

Hamvention live broadcast again

For the 7th year now, W5KUB.COM will be broadcasting live streaming video and audio of the 2009 Dayton Hamvention. New this year, we have lots of prizes to give some lucky viewers. We will go live Wednesday May 13 at 1300GMT and broadcast our 500 mile drive live. We will continue broadcasting on Thursday as we set up in the Fleamarket, possibly tour the Air Force Museum, and then for the entire hamvention. The broadcast will end once we get back home to Memphis, TN on Sunday night. In addition to the video, the site has a chat room where you can chat with other hams around the world. We have viewers on in over 150 countries. The site is up 24 x 7 x 365 days per year with recorded ham videos when not in the live mode. The site is <http://wa5kub.com> or <http://w5kub.com>. you can also check out the prizes at <http://tmedlin.com/2009prizes.html> Hope to see you in Dayton or on the web.

ARRL IN ACTION: WHAT HAVE WE BEEN UP TO LATELY?

This feature -- including convenient Web links to useful information -- is a concise monthly update of some of the things ARRL is doing on behalf of its members. This installment covers the month of April.

Santa Cruz area ARES members provided communications support after vandals disrupted communications infrastructure on April 9 <http://www.arrl.org/news/stories/2009/04/15/10771/?nc=1>.

Amateurs in North Dakota and Minnesota provided communications support to various served agencies when the Red River overflowed in late March and early April
<http://www.arrl.org/news/stories/2009/04/06/10752/?nc=1>.

The ARRL announced that it was in the process of developing a new Emergency Communications course
<http://www.arrl.org/news/stories/2009/04/07/10756/?nc=1>.

ARRL Emergency Preparedness and Response Manager Dennis Dura, K2DCD, attended the 2009 National Hurricane Conference, held April 6-10 in Austin, Texas. ARRL Media and Public Relations Manager Allen Pitts, W1AGP, represented the ARRL at the National Association of Broadcasters event in Las Vegas
<http://www.arrl.org/news/stories/2009/04/22/10779/?nc=1>.

FCC and Bird Organizations Seek to Regulate Towers

Prodded by bird organizations the FCC has issued a Public Notice dated April 29, 2009, asking for comments regarding new rules to protect birds from towers. DA 09-904 can be located at:
http://hraunfoss.fcc.gov/edocs_public...A-09-904A1.pdf

Amend the Commission's regulations that implement NEPA. Prepare a programmatic environmental impact statement addressing the environmental consequences of its Antenna Structure Registration ("ASR") program on migratory birds, their habitats, and the environment. Promulgate rules to clarify the roles, responsibilities and obligations of the Commission, applicants, and non-federal representatives in complying with the ESA.

Consult with the U.S. Fish and Wildlife Service on the ASR program regarding all effects of towers and antenna structures on endangered and threatened species; and Complete the proposed rulemaking in the Migratory Birds Proceeding to adopt measures to reduce migratory bird deaths in compliance with the MBTA

Treasurer's Report March

Old Checking Balance \$2,231.46
Petty Cash 31.68
Old Total \$2,263.14
New Checking Balance \$1,937.22
Petty Cash 89.68
New Total \$2,026.90

April
New Checking Balance \$2,098.63
Petty Cash 23.28
New Total \$2,121.91

If you have any questions please contact Trish at the_jaggards@sbcglobal.net.
Respectfully submitted by Tricia Jaggard, N9WDG, Treasurer

Tri-Town Radio Amateur Club Inc.
PO Box 1296
Homewood, IL 60430-0296

May 2009

First Class Mail



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Dues are Due for 2009! Don't Wait!

Tri-Town Radio Amateur Club Membership Application

Name _____ Call _____

Address _____ License Class _____ ARRL Member Y / N

City, State _____ Zip _____ Phone _____

Email Address: _____

_____ Regular Membership	\$	20.00
_____ SWL Membership	\$	20.00
_____ Extra Family Membership	\$	6.00
_____ Bunker Buddie	\$	5.00

_____ Auto Patch w/1 Speed Slot	\$	25.00
_____ Extra Speed Slots	\$	5.00

\$ _____ Total Paid by Club Member

For Example: Regular Member, with A/P and Bunker Buddy (20+25+5) = \$ 50.00