

The Oscillator

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January 2018

Club Call W9VT

Upcoming Meetings & Events

January Meeting

3Y0X Peter I Island DXpedition 2006

Friday January 19, 2018, 7:30 PM. The meeting will be held at the Hazel Crest Village Hall. There will be a business meeting. The program for the evening will be a video on the 3Y0X Peter I Island DXpedition of 2006. This is timely because of the DXpedition to Bovet is later in January. As always, refreshments and raffle will be available and be sure to bring a friend.

February Meeting

Friday, February 16, 2018, 7:30 PM. The meeting will be held at the Hazel crest Village Hall. There will be a business meeting. The program for the evening is under development. As always, refreshments and raffle will be available and be sure to bring a friend.

Election of 2018 Club Officers

Elections of Officers for 2018 were held at the December 2017 Meeting. Elected were Todd Schumann, KA9IUC, President, Matt Schumann, N9OTL, Vice-President, Jim Everard, WD9GXU, Secretary, Trish Jaggard, N9WDG, Treasurer and Mac Kirkpatrick, WA9CYL, Director. Brian Bedoe, WD9HSY and Sharon Gunderson, KA9IIT will continue their terms as Directors. Thanks to all who have chosen to lead Tri-Town in 2018.

From The President's Shack

Best regards for the new year and 73, Todd, KA9IUC.

he Holidays have come and gone all too quickly. I hope that everyone got what they wished for and some neat surprises. I know I got a big surprise. I going to be a grandpa again and this time it's a boy. Lots to look forward to in ham radio: Club activities, ARRL's Grid Square Chase, Field Day, Illinois' Bicentennial, Nets and just plain old operating on your favorite bands. As always is the case, we need your support for meetings, programs and Club activities.

Facebook: <https://www.facebook.com/tritownrac>

Check out the Club Website: WWW.W9VT.ORG

Officers, Board Members, & Committee Heads for 2018

Todd Schumann, KA9IUC	President	708.423.7066	tschum3063@aol.com
Matt Schumann, N9OTL	VP, Chair. of Board	708.423.7066	mattschumann@yahoo.com
Trish Jaggard, N9WDG	Treasurer	708.957.1973	the_jaggards@sbcglobal.net
Jim Everand, WD9GXU	Secretary	708.748.6798	jimgxu15@outlook.com
Mac Kirkpatrick, WA9CYL	Board Member	708 341.8900	wa9cyl@comcast.net
Sharon Gunderson	Board Member	708.957.7944	d.gunderson@sbcglobal.net
Bruce Haffner, WD9GHK	W9VT Trustee, Dir	708.614.6134	WD9GHK@comcast.net
Tom Gunderson, W9SRV	Webmaster, W9VT	815.466.0245	webmaster@w9vt.org
Brian J. Bedoe, WD9HSY	Repeater Trustee, Oscillator Editor, Dir.	815.370.1383	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, QRZ.COM, Eham, 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.

Club Hangouts:

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

Club Nets

2 Mtr FM 49'ers Net Wednesday, 8:00 PM Local, The Club's Repeater 146.805 -600kc 107.2 PL 2 Mtr FM Preparedness Net Sundays, 8:00 PM local, The Club's Repeater 146.805 -600kc 107.2 PL 10 Mtr SSB Net Thursdays, 8:00 PM Local, 28.490 SSB USB. 40 Mtr Tri-Town Alumni Net Weekdays, 2200 UTC 7.285 SSB LSB 80 Mtr SSB Net Saturdays, 9am local 3.860 SSB LSB

Tri-Town's Tentative 2018 Event Calendar

January	General meeting, Friday January 19th, 7:30 PM at the Hazel Crest Village Hall.
February	General meeting, Friday February 16th, 7:30 PM at the Hazel Crest Village Hall.
March	General meeting, Friday March 16th, 7:30 PM at the Hazel Crest Village Hall.
April	General meeting, Friday April 20th, 7:30 PM at the Hazel Crest Village Hall.
May	Social Night at the Bunker, Friday May 18th, 7:30 PM (Hamvention Weekend).
June	General meeting, plans for Field Day 2018, Friday June 15th, 7:30 PM at the Hazel Crest Village Hall.

Board of Directors Meetings - Second Monday of the Month, 7:30 PM at the Club Station. Members are welcome.

Field Day 2017

The ARRL has published the results of Field Day 2017 in the December issue of QST. Tri-Town with a score of 1758, placed twelfth out of twenty in Class 4F. Thanks again to all who participated and looking forward to Field Day 2018.

New ARRL Contest for 2018

ARRL has announced the ARRL International Grid Chase to be held during 2018. The chase will run all year long and is the simplest contest ever to take part in. All you have to do is upload your log to the Log Book of The World and as long as your contact does the same, your contact is logged on LoTH. There is nothing else to do. For more details, see the December issue of QST.

Illinois Bicentennial in 2018

During 2018 Illinois will be celebrating its Bicentennial. Notice of Ham radio activity for the celebration has been received from Kermit Carlson, W9XA, ARRL Central Division Director and Ron Morgan, AD9I, ARRL Illinois Section Manager. Details of what will be occurring are being developed at this time. They have been notified of Tri-Town's willingness to participate in planned activities. More news to follow as it develops.

2017 Christmas Party

Tri-Town held its 2017 Christmas Party on December 15, 2017. There was a short business meeting to elect officers for 2018 and then the social business of a party was on. Twenty eight members and guests attended and a good time was had by all. The food was great and door prizes were raffled off. Thanks to all who attended.



Free For the Taking

Audio equipment: Ampex, AX-50, 7 inch reel to reel recorder with dust cover, manual and thirty blank, recorded and pre-recorded tapes. Also, DBX117 Dynamic Range Enhancer with manual. Please contact Todd, tschum3063@aol.com, if interested.

FEMA Region 10 Comm. Exercises Will Make Use of 60 Meters

Federal Emergency Management Agency (FEMA) Region 10 (Alaska, Idaho, Oregon, and Washington) will conduct a Communications Exercise (COMMEX) on January 17 and on the third Wednesday of subsequent months during 2018, 1500-2100 UTC. These exercises will use the 60-meter channels and will test and exercise interoperable communication (federal/state/local/tribal/Amateur Radio) for use during a major disaster in which the conventional telecommunication infrastructure has been significantly damaged or destroyed.

FEMA Region 10 will use the call sign WGY910. Other stations that may take part include, but are not limited to, other FEMA stations, DHS, USCG, SHARES, DoD, and National Weather Service. Stations (both federal and amateur) associated with agencies and organizations that provide response support in accordance with the National Response Framework are encouraged to participate

The COMMEX will use all five 60-meter dial frequencies: 5,330.5 kHz; 5,346.5 kHz; 5,357.0 kHz; 5,371.5 kHz, and 5,403.5 kHz as part of the exercise.

ZS8Z on Marion Island Off the Air, Team in Survival Mode

David Hartszenberg, ZS1BCE, on his second tour at a Marion Island research station as part of the South African National Antarctic Program for more than a year now, reports that he has been off the air as ZS8Z since last November, when generator fuel at the Transvaal Cove base was restricted to essential purposes, and he doesn't expect to get back on the air before departing in May.

Food also is in short supply, just one functioning generator remains, and the satellite system is down most of the time. "Surviving now is our biggest challenge," Hartszenberg said.

The *South African Sunday Times* **reported** on January 7 that the Department of Environmental Affairs told the 20+ member science team the government could not afford to send a supply ship, and counseled the researchers to tough it out at emergency quarters.

The situation has led to frayed tempers, the newspaper reported, with one team member turning violent. An Indian relief ship is reported to be on the way with food and fuel.

The newspaper said the Department of Environmental Affairs played down the seriousness of the situation, claiming the reported unhinged team member was "suffering strain," and that the provisioning calamity was an inventory error that resulted in canned food going out of date. A vessel from South Africa is expected in April for the crew change-over. — *Thanks to Southgate Amateur Radio News via Tom Morgan, ZS1AFS, and to The Daily DX*

Hara Arena – Now Abandoned for 1.5 years Urban Explorers' Largely Unseen Side of Hara Arena

https://www.youtube.com/watch?v=wBPVB_xnJnU

Article farther down the issue

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LA Thomas Fire Response Also Demonstrates Amateur Radio's Social Media Value

Santa Barbara Amateur Radio Club (**SBARC**) members kept a close watch on the Thomas Fire after it broke out in early December. Using a variety of the club's analog and digital Amateur Radio assets, radio operators were able to observe fire-fighting efforts first hand and pass along immediate information, often before it was reported by official sources or by local news media. SBARC operates five communication sites in Santa Barbara County, including sites on Diablo Peak on the mostly uninhabited Santa Cruz Island, and on Santa Ynez Peak.

"These two sites host [Automatic Dependent Surveillance-Broadcast] ADS-B receivers that are connected via a combination of amateur microwave IP links and mesh networking and were used to track and monitor airborne firefighting activities," Levi Maaia, K6LCM, co-chair of SBARC's Telecommunications Services Committee, told ARRL.

Starting in mid-December, a round-the-clock emergency net convened on 2-meters, as commercial power for much of Santa Barbara County was cut and the fire descended on residential communities in Santa Barbara County, prompting multiple evacuation orders. With repeaters on generator power and many operators running on battery power, net traffic consisted of official information, including evacuation orders, live reports on the rapidly approaching fire line from operators who remained inside the mandatory evacuation area, related traffic about firefighting efforts, and wind and weather conditions. SBARC volunteers set up an ad hoc remote receiving station to stream live fire ground and air communications audio over the Internet and mesh network.

As fire crews came off duty, one firefighter and Amateur Radio operator joined the net to offer a firsthand account of operations from an insider's perspective. SBARC members also assisted visiting fire crew members with mobile radio antenna repairs in the field.

The still-burning Thomas Fire, the largest in modern California history, caused devastating losses in Ventura and Santa Barbara counties. "Although the Santa Barbara ARES group never activated, Amateur Radio proved to be a valuable mode of communication, especially when coupled with social media, amateur mesh networking, IRC chat (over mesh and Internet) and live audio streaming," Maaia said.

During the Thomas Fire, Kuo helped bridge the divide between Amateur Radio and social media, and even firefighters would check his feed to see what was going on in other areas of the fire, he said. "It's a very powerful combination," Kuo **told** *VC Star*. An ARRL member, Kuo, of Newbury Park, founded the **socaltech news site**. He's been licensed for 3 years and serves as an ARRL Technical Specialist for the ARRL Santa Barbara Section.

Hamvention 2018 Tickets Now Available Online

Tickets for Dayton Hamvention® 2018 now are available online.

"Both Inside Exhibits and Flea Market committees are working hard to have space sales open as soon as possible," said Hamvention spokesperson Henry Ruminski, W8HJR.

Hamvention 2018 will take place May 18-20 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.

Tickets are \$22 in advance, and \$27 at the gate. Tickets are good for all 3 days. In addition to admission to Hamvention, a ticket covers parking, all testing sessions, all forums and speakers, and the prize drawings. Tickets also are available by mail order.

2nd Annual AM Rally Special Event Set for February 2-4 Have you ever played with AM on HF?

The **AM Rally** special event once again is inviting operators to explore the original phone mode over the February 2-4 weekend. Co-sponsor Clark Burgard, N1BCG, said the event “is intended to be both fun and educational.” It encourages all radio amateurs to get on AM, possibly for the first time. “Because of resurgent interest in AM, the event is also an opportunity for amateurs new to AM to learn about proper settings and get the most performance out of their station, whether it’s modern, vintage, tube, transistor, software-defined, military, boat anchor, broadcast, home brewed, or commercially made,” Burgard said.

The **AM Rally website** includes tips and suggestions for various transmitter types as well as links to additional information. Certificates will be awarded for most states contacted and most contacts overall made by stations in five power-output classes. Some “special recognitions” will be made on an ad hoc basis, Burgard said. The AM Rally gets under way at 0000 UTC on Saturday, February 3, and concludes at 0700 UTC on Monday, February 5. Band include 160, 80, 40, 20, 15, 10, and 6 meters. The 2017 AM Rally, which was held in April, was a **huge success**, with nearly 1,500 contacts reported on the 72 logs submitted. -- *Thanks to Clark Burgard, N1BCG*

The K7RA Solar Update

No sunspots appeared from December 27, 2017 until January 4, 2018. As solar cycle 24 declines to a minimum over the next two years we should see longer and more numerous periods of no sunspots. On January 4, the daily sunspot number was 13, indicating 3 sunspots in one sunspot group, although Spaceweather.com reported no sunspots on that day. The sunspot number for that day was reported by NOAA at <ftp://ftp.swpc.noaa.gov/pub/indices/DSD.txt> . A tiny spot appeared on January 5, but it will be gone soon.

On January 4 Spaceweather.com reported a stream of solar wind should reach Earth on January 8, triggering some geomagnetic unrest, but nothing severe.

Average daily planetary A index declined from 7.1 to 5.1, while average A index went from 5.7 to 3.4.

Prepare to Get Your Grid Square On!

What’s your grid square? Be prepared to answer that question a lot in 2018. The **ARRL International Grid Chase 2018** begins this weekend and continues throughout the year. The Grid Chase kicks off at 0000 UTC on Monday, January 1, which is New Year’s Eve in US time zones, so get ready to hit your grid running.

This is an event for *all* radio amateurs, and taking part is as simple as just getting on the air and making contacts: The objective of the year-long event is to work stations on *any* band (*except* 60 meters) in as many different Maidenhead grid squares as possible, and then upload your logs to ARRL’s Logbook of The World (**LoTW**). All contacts on all permitted Amateur Radio bands, except 60 meters, are eligible for award credit. This includes contest contacts.

Each new grid square contact confirmed through LoTW will count toward your **monthly total**. Stations do not have to exchange grid squares for a valid contact, although it’s anticipated that many operators will do so. Some grid squares will be “rare ones,” however, and will be in demand. How about yours? Get on the air, and get behind *your* grid! If you can, get out there, and activate the scarce ones.

Complete details of the ARRL International Grid Chase 2018 appeared in the December 2017 issue of *QST*. For more information, **contact** the ARRL Contest Branch.

Bouvet 3Y0Z DXpedition Putting Up Big Bucks for Transportation, Eager to Get Under Way

The **3Y0Z Bouvet Island DXpedition** team reports that it has reached “yet another milestone” in its quest to activate Bouvet Island, the second most-wanted DXCC entity (behind the Democratic Republic of North Korea), in January and February. The DXpedition team has said its *earliest* anticipated arrival date on Bouvet will be January 23. It hopes to spend 14 to 16 days on Bouvet, “depending on weather and other factors,” the team said in July. Bouvet has not been activated for about a decade.

“DAP, the Chilean company that owns and operates the M/V *Betanzos* and the helicopters, has satisfied the last contractual requirements, prior to departure. We submitted to them a ‘fit for purpose’ checklist with 120 items as part of our contract,” the DXpedition team said in a December 29 news release. “They have satisfied all the checklist items, and we will be transferring almost one-half million US dollars to them in the next few days.” The transportation cost points up the extraordinary expense of mounting a DXpedition such as this; the team continues to invite contributions to defray its significant cost.

The 3Y0Z team, which consists of 20 highly experienced radio amateurs, said it’s on schedule for a January 13 departure to Bouvet Island, “the most remote island on Earth.” A dependency of Norway, Bouvet is a subantarctic island in the South Atlantic.

Team members will gather in Punta Arenas, Chile, by January 10, attend a marine safety course, purchase last-minute supplies, and then fly across the Drake Passage to King George Island in the South Shetlands, where they will board the newly refurbished *Betanzos* for an approximately 10-day voyage to Bouvet.

“The team feels confident knowing that the ship’s captain and many of the crew have been with the vessel for 8 years and have extensive Southern Ocean experience. The captain reports he has previously been to Bouvet,” the team said in its news release. “Sea ice has been reported along a direct route to Bouvet, and that may dictate we take a more northerly course, before turning east to approach Bouvet. That may add day or two to our transit time.”

Meanwhile, the two helicopters that will transport the team and gear to and from Bouvet have completed inspections and are ready for service. “There has been a thorough review of landing procedures and shelter and antenna layouts. We have three alternative anchoring systems to secure the shelters and antennas to the ice on the surface of Bouvet. So, the plan remains unchanged.”

3Y0Z anticipates having two stations on every open band “whenever humanly possible,” as well as gain and directional antennas where possible, high-power stations, “and a propagation-driven operation.” Primary modes will be CW, SSB, and RTTY. FT8 will be utilized if it is the only productive mode.

The Bouvet team advises that anyone hoping to work 3Y0Z using FT8 read the 3Y0Z FT8 protocol on the **Band Plan page** of the DXpedition website. The website includes complete information on band plans and frequencies, propagation predictions, and QSL procedures.

The 3Y0Z team leaders are Bob Allphin, K4UEE; Ralph Fedor, K0IR, and Erling Wiig, LA6VM. Among them, the Bouvet DXpedition leaders hold 11 DXpedition of the Year awards and have activated a dozen Top 10 DXCC entities.

In August, the Northern California DX Foundation (**NCDXF**) announced its largest contribution ever — \$100,000 — to the **3Y0Z Bouvet Island DXpedition**. The ARRL has granted a **Colvin Award** to help support the DXpedition to the second most-wanted DXCC entity.

Urban Explorers' Video Largely Unseen Side of Hara Arena

https://www.youtube.com/watch?v=wBPVB_xnJnU

Reminiscent of underwater footage from a TV documentary about the discovery of a long-lost vessel, a recently posted YouTube video that takes a deep dive into the innards of former Hamvention® venue Hara Arena has been attracting notice within the Amateur Radio community. The narrated video probe was posted on December 22 by Once Occupied, an urban exploration group that originated in Dayton, Ohio. It's not the first video of the derelict Hara Arena since it closed — and since anything thought to be of value inside was auctioned off. The IRS put the Hara Arena complex itself on the auction block last August to satisfy a tax lien, but no successful bidder was ever announced.

It's not clear whether the three-person Once Occupied expedition had permission to be inside Hara Arena nor how the individuals, who do not identify themselves, gained entry to the building complex. Among the more fascinating revelations was how much equipment, event paraphernalia, and just plain debris remain inside the 165,000-square foot Hara complex, which included an apartment.

"This is creepy and surreal, but I couldn't turn it off and had to watch the whole thing," allowed Pete Varounis, NL7XM, the QCWA's official call sign historian, who shared the video with his colleagues on the QCWA board of directors. "You will recognize entire areas that teemed with activity during every Hamvention," he continued. "It looks like raw footage from Chernobyl after the Russian nuclear disaster."

The urban explorers were a bit more mundane. "The facilities include a bar pub, ballroom, conference center, ice rink, and four exhibition halls. This place is huge!" the narrative posted with the more than 20-minute video clip related. As the Once Occupied team noted, Hara Arena over the years played host to sports teams and top entertainers — including Elton John and the Rolling Stones — as well as to Hamvention. Hara's shutdown in 2016 in part forced Hamvention's move to its current venue at the Greene County Fairgrounds and Expo Center in Xenia.

A lot of this particular video covers parts of Hara Arena never seen by Hamventioners — including catwalks, tunnels, and behind-the-scenes rooms and facilities such as offices, kitchen areas, and storerooms, some of which still contained unopened goods and supplies. File cabinets still store paper files, and abandoned computer and other equipment is scattered about. At least one box the group encountered contained new T shirts for a sports team that once made its home at Hara Arena. Some areas of the building's interior seem to have been hit by a tornado. The explorers do not appear to take anything from Hara Arena or disturb what remained behind.

"Our passion is exploring abandoned places. We explore because we love adventure and the thrill of the hunt," Once Occupied says on its Facebook page. "Documenting our journeys through digital media allows us to share the stories of the past." The group warns that such urban exploration is not without risk and "not for everyone."

Ha Ha!

Two antennas met on a roof, fell in love and got married. The ceremony wasn't much but the reception was excellent.

Facebook: <https://www.facebook.com/tritownrac>
Check out the Club Website: WWW.W9VT.ORG

Keep Track of the 3Y0Z DXpedition Team En Route to Bouvet Island

The Bouvet Island 3Y0Z DXpedition team has issued an invitation to follow the team while it's on its way to the "most remote place on Earth." The 3Y0Z team will be using a Garmin InReach SE satellite-tracking device that will enable others to follow the team's travel route and progress on a map in real time. Hal Turley, W8HC, will activate an InReach SE when he leaves his home in West Virginia on January 9 and leave it active until the team reaches Bouvet Island.

The device uses Iridium satellite technology and will send a waypoint along the route every 30 minutes. These will appear on the Bouvet MapShare website, as the team travels to Chile and eastward on the vessel *Betanzos* on the 10- to 12-day journey across the South Atlantic to Bouvet.

In addition to MapShare, the DXpedition will use the InReach device to send messages along the way to provide updates and information which will show up on the MapShare route as small blue rectangular boxes that viewers can click to read.

Fox-1D Satellite Set to Launch this Week China to Launch Five New CubeSats

The launch from India of **AMSAT-NA's Fox-1D** CubeSat will take place on January 12 (UTC). The Polar Satellite Launch Vehicle (PSLV) flight had to be rescheduled from December 30. AMSAT Vice-President Engineering Jerry Buxton, N0JY, delivered Fox-1D to Spaceflight Inc in Seattle last November for integration.

In addition to a Fox-1 U/V FM transponder, Fox-1D will carry several university experiments, including a MEMS gyro from Pennsylvania State University-Erie, a camera from Virginia Tech, and the University of Iowa's High Energy Radiation CubeSat Instrument (HERCI) radiation mapping experiment. Fox-1D also carries the AMSAT "L-Band Downshifter," which gives the option of utilizing a 1.2 GHz uplink for the FM transponder. The Fox-1D downlink will be on 145.880 MHz, and uplinks will be on 435.350 and 1,267.350 MHz (67 Hz CTCSS), switchable.

In addition to the Fox-1D Amateur Radio payload, the PSLV will carry the French **PicSat**, which carries a V/U FM transponder. PicSat will perform space observations. The transponder uplink is 145.910 MHz, the downlink is 435.525 MHz. Some 30 smaller secondary payloads from India, the US, and other international entities will also be on the launch, AMSAT News Service has reported.

"Participation in telemetry collection by as many stations in as many parts of the world as possible is essential as AMSAT Engineering looks for successful startup and indications of the general health and function of the satellite as it begins to acclimate to space," AMSAT said over the weekend. AMSAT advised those capturing telemetry using the *FoxTelem* software to check the "Upload to Server" option and to complete the "Ground Station Params" section. If AMSAT Engineering sees nominal values from the telemetry gathered, Fox-1D will be commanded from Beacon Mode to Safe Mode on the first good pass over the US. AMSAT said the on-orbit checkout procedure could be completed in a few days. AMSAT asks the Amateur Satellite community to refrain from using the transponder uplink while on-orbit testing is under way.

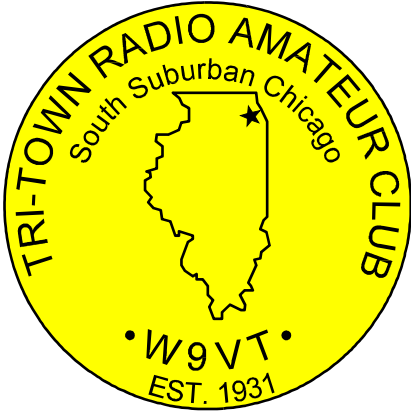
Meanwhile, AMSAT-UK reports that China will launch Hunan Amateur Radio Society's constellation of five similar 6U CubeSat spacecraft on January 17 from its Jiuquan Space Center. Identified as TY-2 through TY-6, the satellites will carry out ionospheric transmission-detection experiments, in addition to Amateur Radio HF/VHF/UHF re-transmitting experiments in any narrow-band mode.

The constellation will also carry out inter-satellite communication experiments that include Amateur Radio loads, Li-Fi high-speed LED digital downlink, and CW lamp signal communication experiments. Downlinks are on 70 centimeters using 9.6 kbps GMSK and on 2.4 GHz and 5.8 GHz using 5 Mbps OFDM.

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

January 2018

First Class Mail



Tri-Town Radio Amateur Club Membership Application

Name _____ Call _____

Address _____ License Class _____ ARRL Member Y / N

City, State _____ Zip _____ Phone _____

Email Address: _____

_____ Regular Membership	\$ 25.00
_____ SWL Membership	\$ 25.00
_____ Extra Family Membership	\$ 6.00

\$ _____ Total Paid by Club Member

For Example: Regular Member, with Family (25+6) = \$ 31.00

Dues are Due!

Club dues expire the first of the year so 2018 dues are now due. Your dues pay for the continued expenses for insurance, repeater operation . Your continued support of the raffles and the refreshment jar also helps. Dues can be paid at any meeting or sent to the clubs mailing address. Please include a membership form so we can keep the Club's roster up to date.

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Check out the Club Website: WWW.W9VT.ORG