Ham RADIO News

Newsletter of the Amateur Radio Society of India (Indian Affiliate of IARU)
October 2016 Issue

President's message

A very well attended Wayanad Ham-meet was conducted over the weekend 24th / 25th September with 528 attendees! This was a first time event at Sultan Bathery, a small hill station in Kerala.

The attendance would have been even more but for some road blockages due to an ongoing interstate dispute.

Kudos to the organisers who spared no efforts to make it a success.

I personally had to cancel my attendance at the last moment and I really regret having done so!

As usual ARSI keep working on pending issues with WPC. We have a new Wireless Advisor and so have to make a fresh start on dealing with the issues. We understand that he will be there for just a year.

Preparations for HFI 2016 at Mount Abu are reported to be well under way.

Details are available and registrations are now open. Visit http://hfi2016.mhrc.in/ for details. This will be the 25th Hamfest being held in India and so becomes a special event, not to be missed.

ARSI welcomes The Mount Abu Amateur Radio organisation as its latest club Life Time Member

As mentioned earlier, ARSI welcomes suggestions from all on how we can support and promote amateur radio activities- please write to the secretary and we will take up whatever is possible.

73, Gopal VU2GMN

FROM THE EDITOR'S DESK

We all are aware that ***Amateur Radio Communications*** play an important role whenever there is a national calamity or emergency such as an Earthquake or Floods. However, these days we hear about Amateur Radio being used during festivals, processions and even during Elections in some states of the country! Now – there are occasions when there is no other communications are available – with the cell phone towers down and power outage and so on; at such times we are justified in providing the much needed communications which no other agency – *government or private* - is able to provide, so quickly and efficiently as we radio amateurs can.

But using ham communications to help politicians during ELECTIONS – either state or central – or crowd control during religious

festivals and a host of such other public activities may not be appropriate. It seems to me, the organizers ask for our help only because it is f-r-e-e. Remember – **'earning money'** out of ham radio communications or **'saving money'**, they both are deemed as **"pecuniary interest"**- violating the basic principles of amateur radio.

People spend crores of rupees during elections, the religious festivals earn crores of rupees for the organizers, so they can make their own arrangements for communications. obtain commercial UHF frequencies for short-periods and purchase suitable equipment.

Typically, a radio amateur is an experimenter first, and communicating with the rest of the world is one way of keeping his station up-to-date with the latest innovations. Hi

Therefore as true amateurs, we need to draw a line that separates commercial communications from amateur communications.

Members can share their feelings/opinions on the-subject-by-e-mail-direct: ganesh@watapi.com and depending on the responses I can either include them in future HRN issues or put out a supplement.

73, Ganesh VU2TS, Editor

Dates: 5th & 6th November 2016

Venue: Shantivan Complex, Brahma Kumaris, Abu Road

For details: ARUN (VU3VGP)
+91-9414062825

Radio amateurs facing unnecessary restrictions

The **International Amateur Radio Union Region 3**, which covers the Asia Pacific, is concerned by the unnecessary restrictions facing radio amateurs in the region.

The IARU Region 3 conference in Bali last year, through reports and discussion, noted the ongoing difficulties still existing in certain countries.

Those barriers include restrictions on the possession-and-operation-of-transmitters and receivers. The IARU lists a number of issues that should be a "baseline" for working with the administrations, such as achieving improvements to licensing, examination and other operating conditions.

Gone should be the old era of 'Post and Telegraph' with most now taking on a much broader the role of a national radio regulator. The modern radio amateur in many of the more developed countries now enjoy full operating privileges resulting from subsequent decisions made at the World Radiocommunication Conferences.

In a posting on the Amateur Radio Victoria (VK3) site they say "In support of the Korean Amateur Radio League, Philippine Amateur Radio Association, Amateur Radio Society of India and others, the IARU urges the removal of those and similar restrictions."

Tnx: http://www.wia.org.au/

BARODA, GUJERAT

To continue the ham-awareness drive in Western India region, a meaningful, "hands-on" session on '**Ham Radio - Practical Insight**' was conducted at prestigious Parul University - Baroda (Gujarat, India) on 8th September 2016.

Around 150 Engineering students & faculty members participated in the program & gained knowledge on the subject.

The beautiful Campus

In-depth Presentation on Ham Radio, Interesting Ham Radio Events, Video

Documentary & SSTV Live demo was carried out by me.

Students were excited to see line by line SSTV transmission on the projected screen. To learn with fun, students were allowed to make collective noise during transmission to observe their effect in the SSTV reception!!!

A number of technical & general queries were answered in Q&A session. VU2PMU/Sunny Shared his Ham Experience & VU2OPX/ Sardool selected a few students and organized a Quiz programme. VHF Demo (Modulation test) was nicely carried out by GIAR team member VU3NMQ/Ankit, VU2OPX/Sardool, VU2PMU/Sunny & myself. Student & faculty members enjoyed the event and learnt the potential of this fascinating hobby.

I thank my fellow hams for their kind support and also thankful to Prof. Jay Patel & Prof. Niraj Tever from Parul University for having nicely coordinated the whole event.


VU2PMU - Sunny

I hope this Ham event acts as a small spark resulting in some of the students flying high in the World of Amateur Radio in future!


The team along with the Director

Thanks & 73

Rajesh P. Vagadia VU2EXP
(Rajkot – INDIA)

Regional Coordinator
West India Zone
AMSAT-INDIA
M: 09898283916
E: vu2exp@gmail.com
www.qrz.com/db/vu2exp

PUNE, MAHARASHTRA

The Engineer's day was celebrated at VU2DYP Ham Radio Club station of Ajinkya DY Patil University Pune near Airport.

The chief guest was W5SPK OM Sean Kelly from US and guest of honour VU2SNK OM Satish Chandorkar from Nasik.

It was a half day event which started at 1:30PM with Saraswati Pooja and remembering Sir Visheshwaraiya followed by various activities. The E & TC students gathered in main hall around 4:00 PM to listen to both the speakers. Dr SS Sonavane, Director welcome guests and without spending much time Ham Radio event started.

OM Satish (VU2SNK) demonstrated assembled and working BITX transceiver kit and explained its various stages to Ham Club members. The students got motivated with 45 W Transceiver working kit assembly and interacted with OM Satish with various queries. It was decided to have full 2 hrs program on suitable date next week.

OM Satish is participating in COEP's **Mind Spark** annual event tomorrow to demonstrate BITX. Around 80 students participated.

OM Sean Kelly W5SPK was in Pune for 3 days visit at Amphenol shared activity of Ham Radio for disaster mitigation with some live US natural calamities examples. Interacted with students how they will react in such situation and stressed on important role of Ham Radio.

Around 30 students are motivated and very shortly they will appear for ASOC Exam. The club recently received VHF Repeater License VU2ETD (144.2 MHz. with + shift) which will be operational 24 x 7 shortly.

EMERGENCY COMMUNICATIONS

The Pune Hams gathered ON 5TH June 2016 at *Hotel Collage* for listening to VU2JAU OM Jayu from Gwalior. You all know OM Jayu is **National coordinator for disaster communication Region 3 of IARU** and recently shown his dedication for Emergency communication during Nepal Earthquake.

The meeting started with opening remarks by VU2MSB, OM Milind and VU2CKI OM Chanduji. OM Jayu gave a 20 mins presentation on what is emergency communication and its preparations. He shared the power-point presentation with all those interested from among the CBSE schools, to enable them to start such activity in their respective schools.

Jayu VU2JAU

Govt. of India is quite serious on disaster mitigation and preparing citizens and school children to face any such eventuality. In fact in all CBSE schools, Disaster management is added in syllabus this year. The Pawar Public School in Hinjewadi Phase III is first such

school in Pune where 3 teachers have undergone ASOC exam study and will be appearing for the exam shortly to start Ham Radio activity in their schools.

Pune hams with VU2JAU Jayu

OM Chanduji VU2CKI displayed a pair of Motorola GM 950I 25W VHF Transceivers he bought from Delhi for VHF Repeater experiments. The antenna is under fabrication in VU2SIJ's workshop. Chanduji needs support for programming these Transceivers for Ham Bands. Hence he appealed to VU Hams to extend the support.

We had two youngsters viz SWL Rehan (grandson of VU2PS OM Gill) and Chanduji's harmonic VU2PKY. Rehan is preparing for his ASOC exam.

Satish VU2SNK at COEP Amateur Radio Club

Nasik based active amateur VU2SNK OM Satish was Invited by organisers **of " Mind Spark"** annual technical event of College of Engineering Pune popularly known as COEP.

OM Satish demonstrated his working 45 W 3 band BITX Transceiver to VU2COE Ham Club members.

The presentation was well received and created lot of excitement among club members who created the SWAYAM Satellite.

SWL Aashay has created few copies of the documentation of BITX for interested members. OM Satish agreed to guide them for BITX construction.

Pune activities contributed by:

Vilas Rabde
VU2VPR - +919822502078

GWALIOR, MADHYA PRADESH

Amateur Radio club organized a regular meeting on 17 July 2016 at 10.30 a.m. at Hotel Srikrishna, Padav, OM Jayu VU2JAU welcomed all the members present. Jayu informed everyone about the activities done earlier. It was told that the CW training for Blind girls of Atma Jyoti Kanya Vidyalaya was completed and certificates to all have been distributed.

Five days training at Amravati was successfully completed along with two days lecture in Amravati University for all professors and lecturers of different colleges. ASOC Exam at Gwalior was successfully conducted on 7 July. HAM Radio program in R.K.V.M. Gwalior was also organized. Mock drill on HAM Radio communication was successfully conducted in Ratangarh and Sindh River area.

Future activities are also planned In the end Jayu requested to be registered for HFI 2016 at Mt. Abu on 5 & 6 November 2016.

The meeting was attended by om Kailash VU3CTP, Subodh VU3UTS, Vivek Joshi VU3JOS, N.Tunia VU3TNG, Ashok Bhatanagar VU3YAE, Sunil Goyal VU3WGS, SWLs Neelam, C.

Makhija, Dr. Kapil Govil, and Sumit Agrawal. Meeting adjourned with tea and biscuits.

EMERGENCY COMMUNICATIONS – MOCK DRILL

On July 13th, we had a successful Emergency mock dril at Maa Ratangarh under DDDMP. Datia D.M. was present during all the drill and appreciated the drill conducted by Amateur Radio Club Gwalior under OM Jayu S. Bhide VU2JAU. Total we were 7 HAMs and SWLs participated. We installed stations in six different locations to conduct the drill.

The Control Station was handled by Jayu VU2JAU and SWL Neelam,

One at Mandir - where there was a crowd of devotees - controlled by OM Abhay Deo

Mata Ghati where steep road was controlled by OM Durgesh VU3DUB

Sindh River control was important location, was monitored by OM Rao, ex-serviceman/ SWL

Nadi Ghat where people were bathing so chances of rescue operations needed - was monitored by OM Sumit and

Lastly, a remote place behind Home Kund was controlled by OM Subodh Tandon VU3UTS.

The Drill was successfully organized and everyone did his job with full responsibility.

After the successful mock drill Datia D.M. arranged boating excursion for all the participants. It was wonderful to go for a long ride up to 3 kms.

HAM Radio Seminar in R.K.V.M. Gwalior

A **seminar** on the Role of HAM Radio during national calamities and disasters was organized in R. K. V. M. Thatipur, Gwalior, on 16th July 2016 at 10.0 a.m.

Respected Swamiji along with principal Madame and students of 8 to 10 STD. Attended the program. Om Jayu S. BHIDE VU2JAU addressed the session for 2 hrs. He was accompanied by Sh.P. P. Bhise, SWL Neelam, Om Durgesh VU3DUB and Om Pravin Gupta VU2PGZ. Many queries were answered

and students found it interesting. Thanks to the school authority and all who attended.

SEMINAR on Disaster Emergency Communications

Another **Seminar** on 'Ham Radio in times of Disaster' was organized in Kendriya Vidyalaya Training center, North Zone in Gwalior on 28 July 2016. Deputy Director, Assistant Director along with 35 participants from all Kendriya Vudyalaya of North Zone attended the seminar. OM Jayu S. Bhide VU2JAU provided all the information needed to teachers. The audience was informed about the pattern of ASOC examinations and the syllabus for the same. While HAM Radio plays a crucial role during any disaster. it can also be used to develop knowledge of students in various ways, explained by Jayu VU2JAU.

Many new ideas were discussed - from digital communication, tracking satellites, SDR, APRS and NASA's educational program for school children. Even for physically impaired people how it is useful, was explained by OM Jayu VU2JAU. He also gave many real life examples which motivated teachers.

The teachers asked many questions in the end which were answered satisfactorily. A live demo of HAM Radio operation was also given using two vhf sets. Overall it was a very interactive-program.

ASOC 2016 Exams in Gwalior

One more achievement by Gwalior Amateurs when A.S.O.C. exam was successfully conducted on 7 July 2016 at R.K.V.M. Gwalior . Total 55 registered for exa. when 41 were appeared in the exam. The break was 16 came from Bhind 2 from Agra, 3 from Etawah, 2 from Banda, and rest from Gwalior.

XYL of OM Jayant Bhide, Mrs. Snehal Bhide and Sant Kripal Singhji appeared in the examination held on 07/07/2016 In the beginning Swami Manishji of Ram Krishna Vidya Maandir, blessed everyone and expressed his views. It was a nice occasion to all. The gang of HAMs who supported during the exam were OM Pravin Gupta VU2PGZ, OM Harsh Chaturvedi VU2HRR, OM Narendra Tunia VU3TNG and OM Sunil Goyal VU3WGS. Thanks to all for nice coordination and cooperation. We hope to get good results soon.

All reports on activities at Gwalior by:

Jayu VU2JAU, Gwalior.

This year's JAMBOREE ON THE AIR is between 14th and 16th October 2016. Interestingly, the SCOUTS & GUIDES have included the internet also to exchange greetings on this occasion and so it is now JOTA-JOTI 2016, Hi

Hopefully, there will be several stations active to meet other Scouts, Guides, and Cubs worldwide.

See you on the air – *scout's honour!*

Some of you might remember that I had proposed a theory that bombarding the ionosphere with radio signals helps ionizing it- resulting in favourable long-haul HF communications. I had theorized this after years of observing the conditions on the HF bands and how it changes on a 'contest day' – especially the popular ones like CQ-DX, WPX and so on. On the context weekend, the bands will be buzzing with activity and I hear hundreds of rare ones with S9 signals even though the band conditions during the rest of the month is way below 'poor'.

Well, since there were at least 20, 30 thousand stations – most of them using KW – calling "CQ Contest" they must be "ionizing" the weakly ionized layer, opening the HF bands for us. But I heard from several experts that it was not possible unless we pumped in 'megawatts' of RF power into the sky, Hi

The US Air force wants to try another approach: Read on:

US Air Force wants to plasma bomb the sky using CubeSats

The United States Air Force is working on plans to improve radio communication over long distances by detonating plasma bombs in the upper atmosphere using a bunch of micro-satellites.

This is not the first time they have tinkered with the ionosphere to try to improve e radio communication and enhance the range of over –the-horizon radar. HAARP – the High frequency Active Auroral Research Program in Alaska stimulated the ionosphere with radiation from an array of ground-based atennas to produce radio-reflecting plasma.

https://www.newscientist.com/article/dn16591-twisted-radio-beams-could-untangle-the-airwaves/

According to the scientists, this not only increases the range of radio signals, it may smooth out the harmful effects of solar winds, which can knock out GPS and other satellites. As an added bonus, they are looking at the possibility of blocking communication from enemy satellites.

There are at least two major challenges. One is building a plasma generator small enough to fit on a CubeSat – roughly a 10 centimetre cube. Then there's the problem of controlling exactly how the plasma will disperse once it is released.

One of the methods involves using a chemical reaction to heat a piece of metal beyond its boiling point. The vaporised metal will react with atmospheric oxygen to produce plasma.

Another idea is to rapidly heat a piece of metal by detonating a small bomb and converting energy from the blast into electrical energy. Different shaped plasma clouds can be generated by changing the form of the initial explosion.

However, it's not clear whether the USAF will succeed, as some scientists feel that it may be an insurmountable challenge."

There is hue-and-cry from many quarters saying "DON'T MEDDLE WITH NATURE!"

Original-article:
http://www.dailymail.co.uk/sciencetech/article-3753417/The-Air-Force-reveals-radical-plan-bomb-sky-improve-radio-reception.html

WIRELESS POWERED QUADCOPTER

Long ago, someone asked me a question - ***"Electromagnetic Waves - especially Radio Waves, being a sort of "energy", why can we not use it as a prime mover for propelling vehicles?"*** and I had replied, *"Electromagnetic (EM) radiation is a form of energy that is all around us and takes many forms, such as radio waves, microwaves, X-rays and gamma rays and visible light. Sunlight is the only part of this spectrum that is being used as energy - either thermal, or, after conversion into electrical energy. Radio waves cannot be used as "energy" for propelling vehicles" -Ed/*

Apparently, researchers from the Imperial College of London have proved me wrong with a quick proof-of-concept demo that blows my mind! Transferring enough power wirelessly to make a small quadcopter drone take flight.

Wireless power transfer over any real distance still seems impossible to me. The drone was powered ONLY by a **13.560 MHz radio signal** - the drone actually flew a distance of 12 cms! *(Don't say aah! That's all? The first ever "heavier than air machine" of the Wright Brothers flew a distance of 36.5 meters!)*

Read the Hackaday story and watch the video at

http://hackaday.com/2016/09/17/drone-flys-12-cm-on-wireless-power/

Tnx: Southgate ARC news

Plan ahead for New Year's AMSAT CW Activity Day on the Satellites

Thanks to all who participated in AMSAT's Straight Key Night 2016, held in memory of Ben Stevenson, W2BXA. For 25 years, AMSAT has sponsored SKN on OSCAR, and it's been my pleasure to conduct this event.

While Morse as a license qualification has gone the way of the spark gap, I am pleased to see that amateur CW activity is as popular as ever. Straight keys and "bugs", however, have found a niche primarily with the boat anchor crowd, and AMSAT's insistence on their use in OSCAR SKN has held down participation. Similar considerations have led ARRL to broaden its annual HF event to include all forms of CW, even computer-generated. The idea is to encourage everyone to enjoy CW operation, no matter how they choose to do it. We agree 100%.

So, in with the new: **AMSAT CW Activity Day**.

As with the old SKN, it will be a fun event, not a contest, and will run for 24 hours on January

1, 2017 (UTC). All forms of CW are welcome. Since it is not a contest, there is no required exchange. A QSO is a QSO. Working the same station on more than one satellite is permitted.

Instead of submitting Best Fist nominations, all participants are asked to post their results, including "Soapbox" comments, to AMSAT-BB.
Please include the satellites you used, and the number of CW QSOs you had on each. While it is not necessary to post your full log, you may do so if you wish.

CU on CW!

Ray Soifer, W2RS

Amateur satellites launch from India

AlSat-1N and **Pratham**, both with amateur radio payloads, have been successfully launched on the Indian PSLV-C35 mission on Monday, September 26, 2016, reports are requested.

The 3U CubeSat was built in collaboration between Surrey Space Centre (SSC) staff and Algerian students as a technology transfer and demonstrator-for-Algeria.

AlSat-1N is also hosting three U.K. payloads from various institutions and aims to take images of the Earth and send back data from the-UK-payloads.

The IARU coordinated downlink is 437.650 MHz 9k6 FSK.

Further information on AlSat-1N, description PDF and message format Spreadsheet, can be downloaded from the AMSAT-UK-website
https://amsat-uk.org/2016/09/24/alsat-1n-pratham-launch/

information on the Pratham student satellite is-at
https://amsat-uk.org/2016/09/07/pratham-student-satellite/

"HEAVENLY PALACE" falling to Earth in 2017

China's first space station is expected to re-enter the Earth's atmosphere in the second half of 2017, amid speculation that authorities have lost control of it.

The Tiangong-1 or **"Heavenly Palace"** laboratory was launched in 2011 as part of an ambitious Chinese plan to catch up with other space powers.

However, a senior space official has said the lab had "comprehensively fulfilled its historical mission".

The lab is currently intact and orbiting at 370km above ground.

What goes up, must come down! /Ed

http://news.xinhuanet.com/english/2016-09/14/c_135687885.htm

ttps://www.theguardian.com/science/2016/sep/21/chinas-tiangong-1-space-station-out-of-control-crash-to-earth

Happy 20th birthday to FO-29!

Happy 20th Birthday to **Fuji-OSCAR 29**! **FO-29**, known as JAS-2 (Japan Amateur Satellite #2) prior to launch, was built by the Japan Amateur Radio League and launched on August 17, 1996 from Tanegashima Space Center on an H-II launch vehicle into a 1,323 km x 800 km orbit with an inclination of 98.5 degrees.

In addition to a 100 kHz wide analog Mode V/u (JA) transponder, the satellite also includes a packet BBS and digitalker. While the packet BBS and digitalker are non-functional, the

analog transponder continues to provide excellent service to the present day.

With an apogee of 1,323 km, FO-29 provides satellite-operators-with-excellent-DX-opportunities every few months when the passes over a certain area are at or near apogee. Intercontinental QSOs are regularly reported, including between Japan and Alaska as well as North America and Europe. Although the theoretical maximum range at apogee is 7,502 km, the excellent sensitivity of the transponder as well as its strong and solid 1 watt downlink signal allows that distance to be stretched when the conditions are suitable.

The longest distance QSO made via FO-29's analog transponder occurred on August 27, 2015 with an unscheduled 7,599.959 km contact between KG5CCI in Arkansas and F4CQA in France.

The sensitivity of the transponder and Mode V/U configuration also allow for the effective use of minimal equipment. QSOs have been reported using a single Yaesu FT-817 transceiver and the stock rubber duck antenna. Taking advantage of the large footprint and ease of use, the K1N DXpedition to Navassa Island made a total of 29 QSOs during two passes of FO-29 on February 12, 2015 using a single Yaesu FT-817 along with an Arrow antenna, activating that extremely rare DX entity on satellite for the first time since 1978.

To this day, FO-29 remains the most widely used linear transponder satellite and an ideal satellite for beginners looking to become active on the linear transponder satellites to try first. The FO-29 control station maintains a blog (in Japanese) at http://blog.goo.ne.jp/fo-29

The JARL also offers an award for confirmed QSOs with ten different stations via FO-29.

http://www.amsat.org/?p=5417

BALLOON around the world

A UK student built balloon carrying APRS and 434 MHz payloads is expected to complete its 2nd circumnavigation of the northern hemisphere by end-September.

The solar powered **UBSEDS18** was developed by students at Bristol University and launched on Wednesday, August 17. Since then it has travelled in an easterly direction for over 62,000 km and is expected to cross Normandy on-September-20.

The innovative balloon utilises a LIC1235R 40F li-ion *super capacitor* to enable continued transmission-after-sunset. (http://www.sciencedirect.com/science/article/pii/S2405829715300659)

Further-info: http://www.bristol-seds.co.uk/hab/flight/2016/08/17/ubseds18.html

Simulated emergency communication tests around the world

A trend among groups of radio amateurs involved in emergency communications is the use of disaster scenarios to test equipment and learn lessons from what went right during an exercise, and what could be improved.

Recently a number of such tests have occurred in the Philippines, North America, Europe and elsewhere. Every year emergency communication groups engage in GlobalSET, or a simulated emergency test, with each IARU region having been involved since 2006.

The GlobalSETs have tested the capabilities through message handling, and in 2015 a preparedness or call-out exercise was held to measure the immediate, short and medium term availability by radio amateurs should an emergency occur.

When authorities and responding agencies test disaster preparedness, many groups involved benefit greatly from the training provided and by working together.

The latest is around October 8, will be a North America-wide exercise, with emergency communications administered by the American Radio Relay League (ARRL) and Radio Amateurs Canada (RAC).

The aims are to find the strengths and weaknesses of the Amateur Radio Emergency Service (ARES), the National Traffic System (NTS)) and other groups providing emergency communications.

Participating radio amateurs will gain experience using standard procedures and a variety of transmission modes under simulated-emergency conditions.

It will also provide a public demonstration to served agencies such as Red Cross, and, through the news media of the value to the public that Amateur Radio brings, particularly in time of need.

Adding some external perspective is the involvement some stations in Europe who join in through the National Traffic System.

A number of agencies are working to develop emergency scenarios. Plans may be for a **simulated flood, serious fire, severe ice storm, a missing person, a major transportation accident, broken gas line, or any other imaginable disaster**.

The International Amateur Radio Union will read the outcome of this and other SETs, as it continues to advocate for the amateur service, and the role served by having available volunteers, equipment, spectrum and training.

Jim Linton VK3PC
IARU Region 3 Chairman,
Disaster Communications Committee

LONG HAUL DX ON MEDIUM WAVE!

The 630 meter band is allocated by the ITU for amateur radio operation, and it ranges from 472 to 479 kHz.

Steve, VE7SL, and **Roger, VK4YB**, completed the first ever two-way QSO between Canada and Australia on 630-meters using JT9 on September 15th. This is also the longest two-way QSO in amateur service on 630-meters ever completed (confirmed).

Screen captures are available on request and additional details and those screen captures will be reported and visible after 1800z today in my daily summary, which can be viewed at http://njdtechnologies.net/091516/

(The wavelength being 630 meters, a half wave or even a quarter wave antenna is out of question, therefore antenna used on the 472 kHz band needs hefty loading coils. Ed/)

A YL's View of Amateur Radio

The *Everything Ham Radio* Podcast features **Allison Hollier KG5BHY** who operates a weekly YL net that she started last year

Allison has been licensed since 2014 and as part of her public service work she has

provided amateur radio communications at Parades, Bike Rides and has recently done net control training for the Johnson County News Training and Information Net.

She says it bothers her that there are so few women on the air, *"I don't get it. What's not to love about ham radio? The women who are out there are phenomenal"*

Download the Podcast from http://www.everythinghamradio.com/2016/08/eth031-yls-view-amateur-radio/

Portable QRP Antennas

Hand-carried QRP Antennas, by Peter Parker VK3YE, is the new book that takes the mystery out of portable antennas. There are construction details on a variety of simple but practical antennas and accessories suitable for portable operating. All have been built and tested by the author over almost 30 years of successful QRP activity.

This is an e-book readable on most devices *(free software available if you don't have a Kindle).* It's Peter's second book, following on from the popular Minimum *QRP*, released last year. Here are the links:

http://home.alphalink.com.au/~parkerp/handqrp.htm

https://www.youtube.com/watch?v=imFk17gARiA

Tnx: Southgate ARC news

OFFICE BEARERS

PRESIDENT
Gopal Madhavan VU2GMN
"Shreyas Apartments"
128 Greenways Road, Chennai 600028
Phone: +91(44) 2493 7724
e-mail: president@arsi.info

VICE PRESIDENT
Ved Prakash Sandlas VU2VP
C-9 -9109, Vasanth Kunj
New Delhi 110070
Phone: 91 (11) 2613 2130
e-mail: vicepresident@arsi.info

HON. SECRETARY
Ramesh Kumar VU2LU
Care of: Linux Learning Centre Pvt. Ltd
635, 6th Main Road, Next to Bank of India
Hanumanthanagar, Bengaluru 560019
e-mail: secretary@arsi.info

TREASURER
Govind Girimaji VU2GGM
36, Purna Sneha Colony
Chikkal Sandra, Bengaluru 560061
Phone: 91 94484 90465
e-mail: treasurer@arsi.info

EDITOR
T.S.Ganesh VU2TS
B.R.HILLS, KARNATAKA 571441
Phone: 91 99450 25607
e-mail: editor@arsi.info

QSL MANAGER
Ananth G.Pai VU2PAI
Post Box 730
Mangalore 570003
Phone: 91 98441 13030
e-mail: qslburo@arsi.info

Monitoring Systems Co-ordinator
B.Manohar Arasu VU2UR
MIG-6, 80 feet road, KST, Bengaluru 560060
Phone: 91 93426 67388
e-mail: monitoring@arsi.info

Contest & Awards Manager
Deepak Pathak VU2CDP
Post Box 9730, MUMBAI 400066
Phone: 91 9820762216.
e-mail: contests@arsi.info

The address of the Society to which all correspondence is to be sent:
Ramesh Kumar VU2LU
Care of: Linux Learning Centre Pvt Ltd.
635, 6th Main Road, Next to Bank of India
Hanumanthanagar, Bengaluru 560019