

President's message



Another year has passed and we have a new set of office bearers for the next two years and I wish them all success in their respective portfolios.

A number of fresh faces are there in the committee along with some old ones and a lot of new ideas have been thrown up for helping our members and radio amateurs in general.

We welcome suggestions from our members as to what they would like ARSI to do- following up with WPC and the Department of Telecommunications is an ongoing process which we will continue to do.

The major items that we have been chasing are:

1. Removing on restrictions on mobile operations- we have been informed that our request is under consideration. If this comes through the present requirement for taking advance permission any time a field day or hill topping exercise is done, will be eliminated. We have been informed informally that restricted grade operators will also be allowed temporary change of QTH for field days

etc., something that was refused at the last moment last time.

2. Use of modes other than FM for the 50MHz band
3. Rationalization of the 80 M band where we have a gap at present.
4. Streamlining of QSL Bureau operations to speed up card handling.
5. The newly appointed Contests Manager has a lot of ideas to get contests and events better utilized with more participation.

I wish all of you a Very Happy Deepavali

Gopal Madhavan VU2GMN

From the Editor's Desk



Congratulations to the new team heading the ARSI I hope they will take the society to new heights.

The last quarter has been filled with news of hurricanes, earthquakes and so on – natural disasters. Consequently there has been some discussion on **when ham radio can be used for purposes other than hamming.**

I have recounted my own experience in emergency communications during the cyclone of 1984 – mainly for the benefit of newcomers

to the hobby lest they imagine that we use VHF handies like the cellphones! We need to be aware that ham radio cannot be used for 'third party' traffic.

Band conditions are as poor as ever, and many of us are using JT65 and the new mode FT8 to copy signals under the noise level.

Happy deepavali to all of you!

Ganesh VU2TS



We all are aware that Ham Radio is our 'hobby' - and is used mainly to conduct experiments in radio communication which involves communication with other similar hobbyists around the world. This in turn, has resulted in so many developments and inventions that are useful to mankind.

In the olden days - like when I received my licence - in 1965, it was accepted by everyone that ham radio is the "second line of defence" - meaning the government had the option to request active hams to help with the needed communication during national calamities like earthquakes, floods, etc. This is because, during such calamities, the national communication grid used to be down and the government had no way of maintaining the much needed communication. *(in the olden days there was only the landline and telegraph)*

There were only a few hams those days - my licence number is 350 - meaning there were only 350 licenced hams in the country in April 1965, Hi. About two years or so after I received my licence there was a Postal Department strike all over India, and I received a message from OM Rajan VU2RA (SK) who was a senior, very active ham, and he asked me if I would like to volunteer to receive some important messages for people in Bangalore, and I agreed. Soon he sent me three or four messages intended for Bharath Electronics Ltd., and I wrote them out and went all the way to

B.E.L. and handed it over at their security department and got their acknowledgement. One other active ham at the time, OM Venkatesulu VU2GV had also volunteered for the service. Only messages to government establishments were handled - not to individuals.

Andhra Pradesh is affected by cyclonic storms almost every year. It was in November 1984, the then Prime Minister Rajiv Gandhi VU2RG sent a message through the Delhi hams that active volunteers from South India were needed to assist in emergency communications because Andhra Pradesh was hit by a severe cyclone - the affected areas were Srikakulam, Kalahasti and Sriharikota. I was given a telephone number to call.

OM Girimaji VU2GX (SK) and I volunteered and informed the authorities that we were ready, and the next day an Indian Air Force jeep came over and picked us up - and took us to the Airport from where we were transported to the affected area by a helicopter. We were each carrying a HF transceiver, hefty car batteries, VHF handie, 40 meter dipole with 15 meter coax, VHF antennas (*I had a 5/8 wave ground plane and Giri had a home brew slim-jim*) a tool kit containing a 12V DC soldering iron, multimeter, etc., and a backpack with clothes and stuff for a couple of days.

The helicopter dropped me (*quite literally, because it could not land in knee deep water*) in a village near Kalahasti - it was an island entirely surrounded by flood water, and Giri was dropped at Srikakulam - the time was around 12.00 noon and within thirty minutes Giri and I established contact on VHF and by about 2 PM we had the HF station going on 7,050. There was a ham from Hyderabad (*I forget the call sign now*) who had set up a station at the Secretariat (*headquarters for relief operations headed by a Collector*)

I remember swapping a joke with Giri - the Secretariat was the 'base' and there was a 'collector' and I was the 'emitter' - Hi

To cut the story short - we were QRV late into the night, passing on information to the Secretariat at Hyderabad on the human casualties, loss of cattle, and damage to property and so on. A list of medicines needed was passed on too - it was mindboggling for me to request the Collector to send medicines including 10,000 Aspirin tablets, 10,000

Entroviaform tablets, and so on. Next was arranging for food for the people – 2000 ready-to-eat food packets – all of which were dropped from a helicopter next morning by about 8.00 AM. **Hundreds of messages were conveyed to Hyderabad – messages from the Doctor, from the Collector, from the Village headman, and from the Police outpost and so on.** Such immediate service could not have happened but for ham radio. We spent three days by which time the flooding had subsided a little, and the village had all they needed. We were picked up by a helicopter and dropped back at the Bangalore airport. We were not paid any remuneration for this humanitarian work, but the gratitude of the people and the officials was more than any payment we could imagine!

I write the whole story just to let you know how a real emergency worked. The WPC rule said that amateur stations may be used to handle emergency communications during national emergencies and calamities provided that a written request is made by a government officer not below the grade of a deputy-commissioner, and the ministry informed of this. Then, the log extract to be submitted to the ministry.

The first time ham radio was used other than for emergency purposes was when we used it to assist the Karnataka Motor Sports Club who held the motor-rally every year. On my first application to the ministry, the permission was refused outright. Then I wrote again and explained that the 'rally' was a sport, but not a profit making (commercial) affair like a cricket match or an F1 motor race – and once the rally is in progress, the organisers have no way of finding out the position of the vehicles – and in case of an accident or breakdown, the participant has no way of contacting the organizers, and so to make the rally run smoothly, a few ham stations (*volunteers*) set up along the route was suggested by me. And then the WPC granted permission to us. There were no commercial transceivers available those days; we carried the home brew set up with great difficulty to remote locations and set up stations in petrol pumps and travellers bungalows and so on. We were not paid for this service either. It was like we were part of the Motor Sports Club.

The important point to note was that there were no cell phones, internet and such facilities those days. Therefore the hams were indeed the “second line of defence”.

Nowadays, we have cell phones, the internet, and a variety of such communication channels, therefore, **ONLY IF ALL THESE FAIL** – like in case of a force-ten cyclone or an earthquake, can we think of using our stations for assisting the authorities in the rescue and rehabilitation works. Like it was done during the Tsunami in 2004, for instance.

Certain totally non-commercial sports events such as motor rallies, marathons, etc. that are held in remote locations far away from cellphone towers where may qualify for special third party communications with due permission from the WPC.

However, nowadays we hear that hams / ham stations are used to crowd control and traffic control during religious festivals and other fairs! Such events are planned well in advance by whoever is organizing them, and the authorities have the time and the wherewithal to organize proper communications as well.

As a matter of fact, a group of volunteers with smartphones can handle the whole thing by utilizing “whatsapp” – as it seems to be the most efficient way of communicating these days, with video, audio, and text, Hi

Therefore, on behalf of the ARSI, I sincerely and humbly request all ham clubs and societies to consider this point and utilize ham radio in the most appropriate way.

Even when band conditions were excellent, I have heard just a handful of CW stations on the HF bands and I understand there are, at best, not more than four stations on the bands at any given time.

There were no takers when the Contests Manager called members to take part in the National Field day earlier this year.

80 and 160 meter bands are literally unused by us. Don't newcomers wish to experiment on these bands? There are only FIVE 5-band DXCC awardees for the whole of India!

I hope newcomers read this and get motivated to take up some activity so that the DX fraternity will sit up and take notice of the VUs, Hi

VU2TS/Editor

TAMIL NADU

The Javadhu Hills are an extension of the Eastern Ghats spread across parts of Vellore and Tiruvannamalai districts in the northern part of the state of Tamil Nadu.

Communication support for **Javadhu hills Ultra Marathon** organised by Peter Van Geit, Chennai Trekking Club – organized by Devadas VU2DH



PUNE - MAHARASHTRA

The PUNE HAMS & AMATEUR RADIO CLUB – VU2PHQ had organized the usual monthly Pune hams eyeball QSO on 6th August 2017. Besides members of the club, present were 3 guests namely:

, K3QF/ Jon Rudy from the Southern Pennsylvania Amateur Radio Club who is an avid DXer especially in CW and digital radio communication and has worked with many VU call signs and also from many DX entities,



**K3QF
JOHN RUDY**
from
Pennsylvania
is presented
CLUB CAP by
VU2UPQ -
Udaya Patil

VU2SFU SALEEM from Kollam who is also the Net controller for the KOLLAM morning VHF net



**VU2SFU
SALEEM**
from
Kollam
is presented
CLUB CAP by
VU2ASH -ASHOK
JOSHI

& SWL Vishvas Bhise, who besides having very special interest in aero sports, is interested in Ham Radio.



PHARC – the Pune Hams & Amateur Radio Club conducts a regular VHF Net in Pune, called the PUNere net, @ 2200 hrs IST on 145.100Mhz Saturday late evening. All are welcome to access the Pune Repeater on 145.100Mhz (+600) and participate in the net.

DE VU2UPQ/ UDAYA PATIL

Pune Hams had the monthly meeting on 6th August at Hotel Kollage. New call sign holders were congratulated by all.

VU2MSB OM Milind shared glimpses of OM Sean Kelly's (W5SPK) Presentation on RF Connectors at VU2DYP Ham Club last week.

OM Dilip Bapat received special compliments from OM Sanjay, VU2SIJ for getting Call sign.

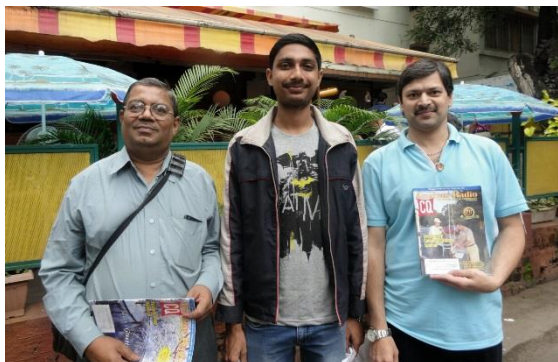


The group gave consent for UHF Repeater procurement through contribution.

The PVG college of Engineering Pune is also interested in starting an Amateur Radio club and relevant electronics project like BiTX.

Old CQ Magazines gifted by US Ham W5SPK OM Sean Kelly were distributed to all present.

The Pawar Public School of Hinjewadi phase III Pune is in the process of forming an Amateur Radio Club. Three teachers cleared ASOC Exam and waiting for their licences. The Principal Shri. Devendra Kumar is very keen on starting amateur radio activity in the School in line with CBSE syllabus



The meeting ended with high-tea and a group photo.



Pune Hams meet every first Sunday of the month 10:30 AM at Hotel Kollage, Near Film Institute Pune 4

Pune Hams are QRV on VHF every morning 8:15 to 8:30 on 145.5 MHz. Join us!

73,

Vilas Rabde
VU2VPR, Pune

GOA

The members of Goa Radio Amateurs Society (GRAS) operated a special event station **AU2LH** to celebrate the International Lighthouse and Lightships Weekend (ILLW) 2017 from the famous Betul Lighthouse, Goa



AU4LH - STATION DETAILS:

Radio: Yaseu FT840, ICOM IC718, MCHF SDR Transceiver with external PA.

Antenna: 40m, 20m, 15m & 10m Dipole. 2 element 20m Yagi.

AU2LH was QRV on SSB, CW and Digital Modes on 40, 20, 15, 10m bands from 17th - 21st August 2017.



As this place was little away from the village , we had to ferry all the required things (equipment and food stuff for 4 days) before we started working . It was fun and very exhausting as well. However, it gave us very satisfying feeling once completed and we fired our station.



As we were in the middle of the monsoon, season, we were worried about our yagi, because of the gusty winds and rains. Despite the dismal band conditions, we had fairly good openings on 15m & 20m for first two days.

The high point of the expedition was the visits by so many of our friends from Pune, (VU2VPR), Belgaum, (VU2KOC),

VU2PNU, VU2ACK Kolhapur VU2MSB Hubli (VU2YX, VU2KDJ, VU2JRO), Dharwad (VU2BRJ) and Bijapur (VU3WON) just to encourage and support us.

We thoroughly enjoyed the eye-balls, while we thanked them for their visits.

We were able to make around 1000 QSOs despite the trying propagation conditions. It was a very satisfying and fulfilling experience for all of us said Manju.



Those who contacted AU2LH will receive a beautiful QSL card.



Vilas, VU2VPR of Pune - reports: (1)

I had been to Alibagh – a coastal town south of Mumbai in Raigad district - where I met SWL Dilip Bapat who is very popular on Ham bands as SWL.

I decided to help and support him for appearing for ASOC Exam. The preparations started after my Pune return. His name was added in VU2DYP Engg College SWL list for ASOC Exam which was conducted on 23 Jan 2017.

SWL Dilip (58) who is visually handicapped, listens to most of the Hams on 40 and 20 Mtr bands with his whip antenna on tiny Sony make portable communication receiver. He monitors at least three nets at a time using 3 such Radios and exchange signal reports calling on mobile phone. He is very famous on most of the nets

on 40 Mtrs. His 80 year old mother is equally keen to monitor and can recognize Ham voice. His passion for radio is since 1975, and he has a very good collection of Radios.



OM Dilip is active on Hamsphere and made more than 1000 QSOs.

OM Dilip who worked for State Transport Alibagh depot is also drama enthusiast and have participated in several plays and TV serials. He also acted in few Marathi movies.

Since he is visually handicapped, his wife who is a school teacher, and his mother teach him movie dialogues and with little practice, he learns them by heart. His shots are usually first time right.

With his strong will power and perseverance, he cleared ASOC Exam in first attempt. Thanks to Milind Bhagvat VU2MSB and Arvind Hishikar, new Ham for excellent support.

Now he is proud Ham with a call sign VU3UEL and looking for active support from VU Hams. Pl call me for any support you want to extend.

(2)

The US based ham **Seam Kelly W5SPK** from **Amphenol** gave wonderful technical presentation on " **RF Connectors** " at VU2DYP Ham Radio club Pune on Wed 2nd Aug 17. VU2DYP is Ham Radio Club Station at Dr Ajeenkya DY Patil University near Pune Airport.



OM Sean is on business trip to India, spared few hours for student members of the Ham club. His University entry started with short meeting with University Chancellor OM Dr Ajeenkya VU3ADP and Director MR SS Sonavane. Sean Explained Amphenol business in India and his technical involvement due to Ham Radio in various product development. OM Sean developed cost effective RF Cable Tester just for Rs 2100/- three weeks back which is very useful in RF Cable manufacturing process.

OM Ajeenkya & Sean expressed long term relationship of VU2DYP with Amphenol for the benefit of students. The enclosed Presentation is created by Sean as a Text Book for customers and students. It shows OM Sean's dedication & quest for knowledge creation in the field of connectors.

OM Sean gifted old issues of CQ Magazines to Pune Hams and Students of Ham Club. Amphenol will also help to set up RF Connector display and some inputs to staff for syllabus making on Connectors. In the campus interview, for deserving Ham students will be given preference by Amphenol.



The new batch of students will join University in August and Ham club activities will flourish every month. Very shortly HF Station will be operational for new Hams. In next term we will introduce BiTX Transceiver project for new call sign holders and would be call sign holders. The Fox Hunt is also planned with the help of Mumbai Hams. The Ham Club Room will be equipped with small workshop, Library and relevant things.

OM Milind Bhagvat VU2MSB, who was present, is future speaker, will deliver interactive presentation on "**Internet of Things (IOT) with special focus on RF ID**" by August End. The presentation will focus on **Automotive and Wireless technology** along with other applications. Students will take up Projects in RF Id in next term under guidance of VU2MSB.



The presentation was attended by more than 40 students and staff members. OM Sean explained various terminologies related to connectors, Quality & Reliability aspects and range. The RF Connector coverage was most interesting for Ham Club members. OM Ram Mohan VU2GRM from Bangalore joined the meeting and interacted with students. In last OM Sean shared the story of support from Amphenol for Nepal Hams during recent Earthquake. Amphenol donated 80 Kg Cables and connectors to **9N1AA OM Satish** for Nepal Hams

The Club station is recently installed Kenwood make TKR-D750 VHF Repeater VU2ETD. It is located in ADYPU (Ajinkya DY Patil University) near Lohegaon Airport. Visiting Hams are requested to set on HANDY/ or car Base station

on 144.800 Mhz with -Ve shift. It is under experiment using 2 Antennas as Duplexer is on way.

The staff members viz Mr Kole, HoD, Kazi and Manish Patel along with OM Laxmikant Hase, who recently passed ASOC Exam are taking special efforts for Ham Club activities under guidance of the Director.

In August first week (2nd Aug) US Ham Sean Kelly is visiting VU2DYP for another exciting presentation. Details will be shared shortly.

(3)

Dr Aniruddha Desai gave presentation at VU2DYP Ham Club members on 11th July 17 at 4:00PM. Dr Aniruddha started his interactive presentation with simple dialogue and Q&A session which relaxed the atmosphere.



Dr Aniruddha Desai holds a Bachelor's degree in Industrial Electronics, a Master's degree in Micro-electronics and a PhD in Computer Architecture. He is currently the Director of La Trobe University's Centre for Technology Infusion - a Tier 1 Research and Innovation centre specializing in delivering technology-based commercial innovations to industry and government clients. Dr Desai has successfully led several multi-million-dollar R&D programs in socially relevant high impact application areas such as intelligent transportation systems, energy management, logistics/supply chain and precision agriculture. Nearly every major project delivered by Dr Desai has involved live field use of the new technology or solution being developed, and many of his projects have been profiled on TV, radio and in print media. His work has resulted in several innovative designs and patent applications

which have underpinned a number of new start-up companies. Dr Desai has received prestigious industry innovation awards recognizing excellence in R&D innovation at State, National and International levels. He has served on technical and advisory groups for a number of government departments and institutions. He is also currently the Chief Technology Officer of SensaData - innovative technology company partnering with his Centre to develop and commercialize next-generation RFID technology for logistics and supply-chain applications.

Pl find below brief notes on his presentation "Driverless Cars": (autonomous cars)

The space race of the 20th century fuelled a race for advanced research and development into many technology areas to aid the ambitious space programs of the time.

One well known example of this was the constant quest for miniaturization of electronics to produce smaller, lighter and energy efficient systems. It is not difficult to see how the broader application of these technological advances have had a profound impact on society as we see it today.

There is now a similar race on-going race in the 21st Century, which also has similar potential for making broad-based impact on human society - this is the race to make fully autonomous self-driving cars. Making these futuristic sounding driver-less cars a reality will involve research and innovation in many technological areas, but going further, making them affordable and ready for mass adoption will require us to address many challenges in other areas such as transport & communication infrastructure, policy and legislation, and national and international harmonization of standards.

The lecture will provide a history of autonomous vehicle development and provide a glimpse into several of the enabling technologies that will be key to achieving various degrees of autonomous driving in real world scenarios. The talk will explore the broad road map of autonomous vehicle development and deployment, while looking closely at some examples of challenges that will need to be addressed along the way including questions of human ethics.


The presentation ended with lot of interesting interactions with students

Regards

Vilas Rabde

President Ham club

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VU2VPR-145.5 MHz,  Skype: vilasrabde

GWALIOR – MADHYA PRADESH

Amateur Radio club Gwalior organized a monthly meeting on 16 July 2017 at the QTH of OM K.P. Rao VU3OCY, at 9.00 a.m.. OM Shri Sant Kripal Singhji VU3ODA was present at the meeting with some SWLs.

Meeting started with welcome speech by OM Jayant S. Bhide VU2JAU. Next, the long overdue FIELD DAY was discussed. OM Sant Kripal Singhji VU3ODA suggested that it can be conducted on a hill where their college is situated. Everyone agreed to this and decided to conduct it by the end of August as the weather was still very warm.

Another topic of discussion was the possibility of establishing the Disaster Management training and Amateur Radio classes at a suitable location. Shri Sant Kripal Singhji asked if possible it can be done in the college itself. All who were present agreed to the suggestion.



OM Jayu VU2JAU requested all the members present to enrol as members of the ARSI and most of them have agreed to this. ARSI membership forms have been distributed to

those who were willing to become ARSI member.

OM Jayu VU2JAU also informed that Disaster Management Training and a Mock Drill on Disaster will conducted during August and all were requested to take part in the event.

OM Sant Kripal Singhji distributed some emergency medical kits to the candidates who were present in the meeting.



It has also been informed that next HAM Radio exam will be organized in August and asked those who are willing to appear to fill up the exam forms soon.

At the end of the meeting Shri Sant Kripal Singhji spoke and expressed his satisfaction with the activities Gwalior HAMs are doing.

Before closing the meeting, all paid their respects to OM Ved VU2VP and OM Baruha VU2NKB who became silent key. A two minutes silence was observed.

The meeting was adjourned after a big thanks to all. HAMs and SWLs who attended - they were - OM Kailash Agrawal VU3CTP, OM Praveen Gupta VU2PGZ, OM Sunil Goyal VU3WGS, OM Narendra Tuniya VU3TNG, SWL Neelam Azad, SWL Mayank, OM Rakesh

Puranik, SWL C. Makhija, SWL Pushpandra, OM Neeraj etc.

Thanks to all and 73 de Jayu VU2JAU.

The September meeting of the Amateur Radio Club Gwalior was held on 3 September 2017 at the office of OM Kailash Agrawal VU3CTO at 1830 hrs.



.We all were lucky to have OM Jignesh Bhai VU2TPF from Surat along with his friend with us. Many activities were discussed for the future and also evaluated the possibilities of Disaster Management and Communications.

OM Jigneshbhai also wanted to start more activities in Surat, which were also discussed during the meeting.



Meeting was started with the welcome speech of om Kailash Agrawal VU3CTP and later on he explained the program of Amateur Radio Club is doing. Vote of thanks were delivered by om Chaturbhuj Makhija VU3UHT.



Members present in the meeting were Jayu VU2JAU, XYL Snehal VU3OGP, om Pravin Gupta VU2PGZ, om Sunil Goyal VU3WGS, om Narendra Tunia VU3TNG, SWL Mayank and Manish Sapkal.

73 de Jayu VU2JAU Gwalior

HAM Radio in M.I.T.S. Gwalior

On 07 September 2017 we had HAM Radio promotional program in one of prestigious college of M.P. i.e. Madhav Institute of Technology and Science, Gwalior. About 50 students took part in the program. Madame herself was also present in the program. Students shown their interest in the HAM Radio hobby expressed their will to appear in HAM Radio exams. We are happy after about many years HAM Radio will be activated in the Institute.



Long back they had a club station VU2MIT with many licensed HAMs in the Institute. We are pleased to see the progress. Thanks to all the staff members and students who took the step. Hopes for the better future. 73 de Jayu S. Bhide VU2JAU Gwalior.

73 de Jayu S. Bhide VU2JAU Gwalior.

HAM Radio promotion in ZEIT Gwalior

A program of HAM Radio promotion on HAM Radio was presented on 11 September 2017 in Zonal Educational Institute of Technology in Gwalior. It was organized on special 21 day training to Central School teachers of that Zone. Teachers from Gwalior, Agra, Khanawa, Jaipur and many other places were present in the training. Jayu S. Bhide VU2JAU presented the details of the HAM Radio and its use in Disasters along with new technology used to teach students which will be useful for creating more interest among students of their institutes.



Some of the teachers were also interested in the examination, and were asking many questions about HAM Radio. It was overall a good experience after seeing that Central

School teachers were taking keen interest in HAM Radio.

73 de Jayu S. Bhide VU2JAU Gwalior

DISASTER MANAGEMENT TRAINING AT IPS COLLEGE GWALIOR

A training programme was organized in IPS college of Gwalior from 11 September 2017 to 14th September between 2.00 and 4.00 p.m. every day. . The first day consisted of the basic information on types of Disasters.



It was presented by Mr. R.K.Vishwakarma, Scientist in Defence Research & Development Organisation Gwalior. He explained about the types of disasters – both manmade and natural. He explained about the different agencies of Government involved in helping the community and the importance of precautions that are needed during such disasters.

About seventy students took part in the training programme. The students were trained to take necessary safety precautions during any disaster, while providing help to the people affected.

Mr. Jayant S. Bhide VU2JAU gave a brief idea of Distress signals on Morse as well as on



voice signals. He also alerted the students to work cautiously while assisting in search and rescue operations. The Head of the Computer Science department along with the staff were present in the training.

The training programme was carried on under the **Special Interest Group (SIG) of Computer Society of India** for the CSI Student chapter of IPS College, Gwalior.

The second day of the training on Disaster Management and Communication was handled by Dr. Kumar Sanjiv VU3XXK, who guided the students on First aid and safety of casualties.



Starting from the cardiac arrest and how to rescue and provide emergency treatment, the training was divided in two parts - one for the elders and another for the children. In both the cases it was shown how the needed help can be provided. Further he trained students the art

of bandaging of casualties having injuries at different parts of the body.



The students were told to use available materials for making stretchers using blankets, bed sheet or anything which is available.

He also trained all the students to use **International colour TRIAGE** for identifying different casualties. *It is reproduced hereunder, for the benefit of all members:*

This advanced triage system involves a color-coding scheme using red, yellow, green, white, and black tags:

- **Red tags** - (immediate) are used to label those who cannot survive without immediate treatment but who have a chance of survival.
- **Yellow tags** - (observation) for those who require observation (and possible later re-triage). Their condition is stable for the moment and, they are not in immediate danger of death. These victims will still need hospital care and would be treated immediately under normal circumstances.
- **Green tags** - (wait) are reserved for the "walking wounded" who will need medical care at some point, after more critical injuries have been treated.
- White tags - (dismiss) are given to those with minor injuries for whom a doctor's care is not required.
- **Black tags** - (expectant) are used for the deceased and for those whose

injuries are so extensive that they will not be able to survive given the care that is available

The second session was guided by OM Jayant S. Bhide VU2JAU who explained the different types of Sirens during different types of disasters .



The topic of the **DAY-3** of the Disaster Management and Communication training in IPS College Gwalior was Emergency Communications. Om Jayu VU2JAU provided the necessary guidelines to students. He also told how to control communication under pressure and stress in emergency. Dealing with different types of people in different situations. He also explained about the Q codes, abbreviations and phonetics used to communicate.



He also explained how to send the maximum messages in minimum time which shows the best utilization of time. Time is most important in disaster which should be utilized in better way.

Today's program was also witnessed by OM Kailash Agrawal VU3CTP, YL Neelam Jha SWL and om Rakesh SWL. All the staff members were also present.

Day-4, 14 September 2017, of the training covered the subject of the media and its role in Disasters. Today's trainer was Mr. Gopal Gupta Editor of SKS electronic news channel in Gwalior. He explained about; how the media print or electronic can think in positive line provide best impact on community. A small information given by media can create panic and disaster. Media has to work in a positive way. They should not provide any information unless until it is authenticated and confirmed. Students were excited and were asked give short examples. It was a very good session. Mr. Gupta also told these days Social media is developing fast and people on social media becomes news reporter.

After the session First Aid team and casualty team were called. Practically first aid team asked to use the technique to tie on casualty team of different injuries. Students took big interest in doing it practically with casualty team. The rescue team did practical to shift casualties using different mode of transportation. Students were also trained to use International colour ribbons for different kind of injured and dead casualties. It is used to identify and to provide immediate medical aid to most needed people on priority. They also asked to make stretcher with available things.



They used SAREEs and Bamboo to make it and carried the injured person. It was nice to see the skill they used. The whole practical done under guidance of om Jayant S. Bhide VU2JAU.

The use of communication was guided by om Kailash Agrawal and om Chaturbhuj Makhija VU3UHT. Communication team trained to pass different types of messages at different situations. All the students operated nicely and handled the situations. It was a good day and ever one were asked to be prepared for final day, where a live drill will be done in an open ground.

It was a great **DAY- 5** for all the students of IPS College Gwalior. They all had decided to enact a real disaster situation on the open ground. 15 September 2017 and time was showing 9.0 a.m. and under the Sun and sometime cloudy all students arrived on the open play ground. Ambulance was already kept ready. At a long distance some fire blasts took place and students acting as casualty started crying and calling for help. Immediately Rescue team rushed on the spot and tried to detect victims and identified them for critical injuries with coloured ribbons. In the meantime providing information about casualties.

About 5 HAM Radio stations along with a control station in Medical centre. The other 4 stations were in the deep wood trying to perform their duties. Ambulance was running for longest distance to bring victims. As soon as victims were brought for emergency medical treatment all First aid becomes active to provide immediate relief to casualties. Some of the victims were brought on stretcher with available things on the spot. The media team was reporting continuously. Video and photography teams were also performing their work by taking photographs and recording. Over all it was performed perfectly by all the 70 students. Congratulations to all who worked hard for the exercise. Thanks to all Staff members who were present during the training and exercise.



Thanks to Principal Shri Chauhan sir for regular support for the event. We are thankful to the well known hospital of Gwalior who gave their ambulance for the program. We are also thankful to DD news channel that took all the pains to record the programme and had few interviews of our team. We are also thankful to SKS news channel for regularly recording the training programme and final exercise.

Amateur Radio club Gwalior team consists of OM Kailash Agrawal VU3CTP, OM Narendra Tunia VU3TNG, OM Chaturbhuj Makhija VU3UHT, XYL Snehal Bhide VU3OGP, SWL Neelam Azad, SWL Rakesh Tiwari and Jayu S. Bhide VU2JAU equally encouraged everyone at the event. 73 de Jayu S. Bhide VU2JAU.

We are thankful to Dr. Kumar Sanjiv VU3XXK and OM Rakesh Tiwari SWL and all the staff members of IPS College Gwalior for providing opportunity for conducting the training for 4+1 days.

73 de Jayu S. Bhide VU2JAU Gwalior

An Amateur Radio Club is Born

D.A.R.T.S. (Delhi Amateur Radio Technical Society)

Delhi hams Annual Eyeball

Sunday, January 2017 - Winter was at its peak in New Delhi – the capital of India. On the call of VU2EXX - Pradeep, hams of Delhi, Gurgaon, NOIDA, Ghaziabad and Faridabad headed for an eyeball at Delhi Coffee Home located in the heart of Delhi. VU2EXX proposed the formation

of local Amateur Radio Club. This was followed by several such eyeball meets and an official Amateur Radio Club of Delhi hams was formed with call sign VU2DLH, to be called Delhi Amateur Radio Technical Society (DARTS).

Subsequently, the formation of **DARTS club** was announced in an annual eyeball of Delhi hams on May 28, 2017.

The annual eyeball attracted 70+ hams/radio lovers, and was arranged at sprawling POWERGRID Club, Gurgaon. VU2EXX-Pradeep and VU2OEC-Rajesh reached the venue one day in advance to organize the set-up so that we could start the business next day smoothly at the appointed time with all background organizational activities.



We were fortunate to have Mr. Larry J. H. Dong, from Taiwan Economic and Cultural Center in India and his wife Mrs. Shirley Dong, as the Chief Guest.



VU2ATN, Atanu and VU3YLY, Keerthi welcomed Mr. Larry and Mrs. Shirley respectively



OM Francis, VU2FR, welcomed 85 year old veteran ham VU2DS – Daljit Singh, applauded by all.



We missed the presence of respected Saharuddin, VU2SDN, the veteran ham and former President of ARSI owing to his sudden hospitalization.

VU2EXX, Pradeep formally announced the formation of our local Amateur Radio Club called DARTS – Delhi Amateur Radio Technical Society with call sign VU2DLH.

Second inspiring news for the hams was the recent launch of 70 cm UHF Repeater, VU2HUB-R (Freq. = 435.670 with – negative shift of 1.600 MHz) in New Delhi.

Also, a VHF Repeater VU2FUN-R already operational from the same QTH (Freq. = 145.670 with -negative 600 KHz shift). What a beautiful gift to VU Hams!

Great job done by VU3FUN, Rajesh Bakshi and VU2YEP, Karan Bakshi. Big thanks to IHARRC - INDIA HAMS AMATEUR RADIO REPEATER CLUB, at New Delhi.

The annual eyeball witnessed several back-to-back demos, exhibition, presentations and an antenna workshop.

VU3JTA, Ashutosh, the novice ham brilliantly presented homebrewing aspects of PCBs at a low cost.

VU2OEC, Rajesh, shared through a power-point presentation his recent experience of re-engineering and erecting of a tilt-over antenna mast system in line with “Roof Mounted Tilt-Over Base” by N8OBJ, John C Gibbons, who was kind enough to encourage VU2OEC wrote

“You are more than welcome to share ANY of the info you got from my website. I'm glad that it proved useful to you. I'm curious on how your implementation turned out. And I'm thrilled that it has helped someone!”

VU2SZA, Shiv, described various aspects of Antenna characterization through a power-point presentation.

VU2ATN, Atanu, in his presentation, insisted on continuing the practice of home brewing despite owning host of latest commercial equipment by individuals. He emphasized on sustainability of the hobby, by keeping the interest alive through the process of home brewing to all concerned including the newcomers.

The senior-most ham (licensed since 1956), VU2NW, Kuldeep, shared his life-time affair with Amateur Radio duly supported by his long experience and knowledge in professional electronics and pioneering efforts in development of early indigenous ‘Pager systems’.

VU3CAV, Rajani, successfully gave demo of 7 db 3 element VHF Directional Antenna that was field-proven long time back by him and very relevant today in view of spread of the presence of the community in the vast NCR area.

VU3NPI, Madhu, enthusiastically shared the technical aspects of HF Cobweb Antenna followed by a tabloid workshop, which set all in frenzy of letting their hands in assembling it.



Amidst the cranking sound of drill machine and various other tools, the flower-shaped structure of Cobweb antenna got unfurled and it was applauded by all.



VU2EXX displays the structure of the Cobwebb antenna

VU2KD, Sofi, displayed his brilliant work of BITX and Frequency counter making available a few of assembled pieces, ready to roll.

VU2RAK, Rakesh too bewildered all with his brilliant state-of-the-art portable HF setup and homebrew portable antenna.

VU3SLJ, Kamath, the popular Net Control Station do came up with ideas of HF/VHF Antennae and showcased his homebrewed antenna in the exhibition section.

As the session was to end, VU2ATN, Atanu touched the chord by raising the need to approach WPC on behalf of the newly formed DARTS Club for redressal of several pending grievances of VU hams. It was decided that

such issues would be taken up with larger fora and WPC at the earliest.



Finally, VU2YK, Rahul, the pied piper of Delhi hams gave the live demo on how to setup a portable QRP amateur radio station in no time.



VU2YK and his QRP station

VU2EXX, Pradeep, thanked all for making the annual eyeball a great success.



Sanchar Telesystems Ltd., the Kenwood India dealer, Ms. Priyanka was kind enough to provide the glossy catalogues of Amateur Radio equipment for the hams participating in the annual eyeball.

DX news

The U-QRQ-C held an `International Convention of CW Operators` on August 25-28, 2017, near Moscow, Russia, field-day style, and invited all HAM-radio CW operators.

Detailed information on this event is available at <http://www.uqrqc.com>, but at this time it is only in Russian.

First, JT65 and now – the WSJT-X

Tuning the dead 20m band day after day represents a major frustration nowadays. Only the occasional DX signal breaks the sea of noise, consequently reducing activity levels even further. However, that very noise could be a new lease of life, if one were to copy signals below it. They are there every day. Indeed, with their huge antennas and state-of-the art receivers, DXers can dig even deeper into the noise and log plenty of good DX faster than one can think.

Demonstrating Amateur Radio to today's youth thus sports a new booster shot, raising their potential interest to new heights.

A beta release of [WSJT-X](#), version 1.8.0-rc1, included a new **FT8 mode**, featuring a faster turnaround, and it's already a major breakthrough on the HF bands. FT8 offers "sensitivity down to -20 dB on the AWGN channel," and contacts 4 times faster than JT65 or JT9. An auto-sequencing feature offers the option to respond automatically to the first decoded reply to your CQ.

https://physics.princeton.edu/pulsar/k1jt/Release_Notes_1.8.0.txt

WSJT-X implements communication protocols or different "modes" called **JT4**, **JT9**, **JT65**, **QRA64**, **ISCAT**, **MSK144**, and **WSPR**, as well as one called **Echo** for

detecting and measuring your own radio signals reflected from the Moon.

These modes were all designed for making reliable, confirmed QSOs under extreme weak-signal conditions. All but **ISCAT** (Ionospheric Scattering used for weak signal long distance radio contacts) use nearly identical message structure and "source encoding," the efficient compression of standard messages used to make minimal QSOs. **JT65** and **QRA64** were designed for EME ("moonbounce") on the VHF/UHF bands; **JT65** has also proved very popular and effective for worldwide QRP communication at HF. **JT9** is optimized for the LF, MF, and HF bands. It is about 2 dB more sensitive than **JT65** while using less than 10% of the bandwidth. With either **JT9** or **JT65**, world-wide QSOs are possible with power levels of a few watts and compromise antennas. **JT4** and **QRA64** are optimized for EME on the VHF and higher bands, and especially the microwave bands from 2.3 to 24 GHz. Finally, as described more fully on [its own page](#), **WSPR** mode implements a protocol designed for probing potential propagation paths with low-power transmissions. **WSPR** is now fully implemented within **WSJT-X**, including automatic band-hopping.

The current general availability (GA) release of **WSJT-X** is Version 1.7.0. It offers flexible control of nearly all modern transceivers. Upgrading from **WSJT-X** versions 1.4, 1.5, and 1.6 will be seamless; there is no need to uninstall a previous version or move any files. If you are upgrading from **WSJT-X** v1.3 you will need to copy your log files into a new location and re-enter your setup information.

WSJT-X is a complex program. Be sure to read the online [WSJT-X User Guide](#) for Version 1.7.

Red Cross Asks For 50 Ham Radio Operators To Fly To Puerto Rico

Puerto Rico and the US Virgin Islands both suffered substantial damage from Hurricane Maria, although Puerto Rico took the bigger hit, and it is there that Amateur Radio has begun to fill a huge telecommunications gap.

According to the FCC, service is out for 96% of the cellular telephone sites in Puerto Rico — and it's out completely for sites in 78 Puerto Rico counties. In the US Virgin Islands, the overall percentage is 66%.

National Geographic and Space.com sites report scientists and Amateur Radio operators have confirmed that Puerto Rico's Arecibo Observatory came through Hurricane Maria largely intact but 'with some significant damage'

"The situation in Puerto Rico is very devastating across all the island," Puerto Rico SM Oscar Resto, KP4RF, said over the weekend. "Communications via land phone or mobiles are almost null." Repeaters are down, he said, and hams have been using the 2-meter simplex frequency of 146.52 MHz, although he hoped to have a few local ham radio repeaters "working partially with damaged antennas." With police repeaters also down, law enforcement has been using 2 meters as well.

American Red Cross Headquarters suffered the loss of its emergency generator due to flooding. A temporary ARC headquarters has Internet and cell service, he said.

Over the weekend, the American Red Cross (ARC) asked the ARRL for assistance in recruiting 50 radio amateurs who can help record, enter, and submit disaster-survivor information into the ARC Safe and Well system. That request was fulfilled today. In the nearly 75-year relationship between ARRL and ARC, this is the first time such a request for assistance on this scale has been made.

Resto said radio amateurs **have also been assisting** Puerto Rico's Electric Power Authority (Autoridad de Energía Eléctrica) using 146.52 MHz to dispatch line crews and coordinate fuel deliveries for the authority's offices at the Monacillo Control Center and at several power plants. "The power system is fully shut down for all the island," he said. Drinking water and proper sanitation facilities

are also in very short supply. Resto said Puerto Rico needs "everything...solar panels, repeaters, and most important, transmission lines and antennas. Some base or mobile VHF/UHF radios, a 1 to 2 kW power generator." Fuel for generators as well as vehicles is running low on Puerto Rico, however.

Radio amateurs in Puerto Rico have been operating a brisk and busy ad hoc health-and-welfare traffic nets on 7.175 and 14.270 MHz, as has the Salvation Army Team Emergency Network (**SATERN**) on 14.265 MHz. Nets are handling only outgoing traffic. Resto said checking on individuals' welfare typically requires attempting to visit them in person, since telecommunications are down nearly everywhere.

Amateur radio empowers learners to choose sustainable careers

From: www.ee.co.za/

To create a knowledge and manufacturing economy South Africa needs to concentrate on training engineers with the right qualifications.

Over time the perception has taken hold of some young people that engineering is not cool. If this is the perception, what are we doing about it? It is up to engineers to make engineering cool and that is what a group of radio amateurs – members of the Secunda Amateur Radio Club – have been doing over the past four years. They are all engineers from various disciplines in industry, with a common interest in radio and electronics.

Each year, the World Space Week Association (WSWA) selects a theme for the upcoming World Space Week (WSW) to provide a focus for the activities and events that take place throughout the world, from 4 to 10 October. The theme for 2016 was "Remote Sensing: Enabling Our Future", an inward looking theme which celebrates Earth observation from space for the betterment of the human race.

Christo Kriek identified space week as an ideal opportunity to involve learners at high schools in the Govan Mbeki municipal area to learn more about space. As part of the project the learners built small CubeSats which were launched into near space on a weather balloon and later recovered.

Called the BACAR Space week, BACAR being the acronym for **balloon carrying amateur radio**, the Secunda Amateur Radio Club worked with SANSA, the Sasol Junior Engineers Forum and industry to present a full programme of lectures and hands on activities.

The initiative by the Secunda Amateur Radio Club should be an inspiration to other amateur radio clubs to encourage learners and give them a taste that engineering is actually cool. This also goes for all Engineers. Get a project going at your local high school. Besides empowering a young person you will also derive great satisfaction. For more on the BACAR project visit <http://www.secradio.org.za>

Full Kletskous cubesat to fly on BACAR

The AMSAT SA Kletskous team is putting the final touches on the CubeSat to be tested on the BACAR flight on 21 October 2017.

The team is integrating the electrical power system (EPS), the stabiliser board, the on-board computer system, the transponder and antennas into the new space frame. No solar panel will be flown. Kletskous will be powered by a battery. This is a precautionary measure as solar panels are very expensive and could be severely damaged on the landing.

BACAR is scheduled to be launched at 09:00 from an airfield near Secunda. The transponder frequencies are as follows: Uplink 435.135 - 435.165 MHz with the downlink on 145.850-145.880-MHz. There are many other payloads scheduled to be flown on BACAR.

RF pollution from LED bulbs in Elektor Magazine

Elektor Magazine reports the German Amateur Radio Club (DARC) has issued a press release identifying domestic LED light bulbs as a source of electrical interference

The increasing popularity of these light sources has led to a significant increase in reports of radio traffic disturbance, interruption of radio services and even poor DAB reception. In their opinion, the electrically noisy LED lamps are a result of a bad government policy which simply

ignores regulations applicable to EMC and the generation of EMI by electrical equipment.

According to DARC, the recommendations outlined in the regulations governing electromagnetic compatibility have simply been ignored.

The result is that LED lamps currently on sale and in use generate considerable wideband RF interference.

Read the full article at <https://www.elektormagazine.com/news/led-rumpus>

Source: Southgate ARC news

Traditional ham radio no longer so attractive

IARU President **Tim Ellam VE6SH/G4HUA** pointed out to the IARU Region 1 General Conference in Landshut that traditional aspects of Amateur Radio may not be attractive to all newcomers.

IARU President Tim Ellam, VE6SH/G4HUA, welcomed the attendees, urging them to reflect upon what will attract the majority of young people into Amateur Radio, "and what our mutual expectations should be." Ellam said his personal observation is that, while some younger people are interested in the more traditional aspects of Amateur Radio, many are only interested in ham radio as an adjunct to other possibly unrelated interests.

"I applaud the excellent work that has been undertaken in this region through the Youngsters on the Air (YOTA) program." Tim said, crediting the hard work of IARU Region 1 Youth Working Group Chair Lisa Leenders, PA2LS. YOTA's summer Amateur Radio camps have attracted young hams from around the world; this year's was held in the UK.

"Our ambition should be to embrace these individuals in their activities and accept that some of the more traditional aspects of the hobby will hold little interest to them, and indeed may no longer be relevant," he continued. "That is not to say that some are not enthused with what we all hold as the core of our hobby, such as contesting or operating generally. I fear, though, that we need to look at what will attract

the new generations to Amateur Radio and make sure we promote Amateur Radio as meeting their needs, rather than promoting the historical view of what Amateur Radio has to offer."

Read the full ARRL story at <http://www.arrl.org/news/iaru-president-traditional-aspects-of-ham-radio-may-not-be-attractive-to-newcomers>

GEO Quarterly magazine available for download

The September PDF of the weather satellite magazine **GEO Quarterly** produced by the Group for Earth Observation now available for free download

The Group for Earth Observation's aim is to enable amateur reception of weather and earth imaging satellites that are in orbit or planned for launch in the near future.

GEO recently changed from a paid subscription to an optional sign-up to the GEO-Subscribers Yahoo group.

Download September 2017 GEO Quarterly at <http://www.geo-web.org.uk/gequarterly.php>

Jamboree on the Air - Jamboree on the Internet

The event is held the third weekend of October – 20th, 21st & 22nd October 2017 – Celebrating 60 Years Connecting Scouts.

Stations operating JOTA are requested to send reports with pics for publication in HRN. Thanks



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