



President's Message



A lot has happened over the past few weeks.

ARSI has been working constantly since 2006 to change the regulations (set several decades ago) which govern amateur radio licensing and which hampered the growth of the hobby in India.

One such process, which was not part of any regulation, but an executive order, was the requirement for all applicants to be security cleared by the Intelligence Bureau of the Government of India. This particular requirement was probably instituted by the British who may not have wanted Indians to possess radio licenses and be able to communicate at will worldwide.

We have been arguing that this requirement has no relevance in this day and age when mobile phones are available to anyone and calls can be made to any part of the world. We also argued that radio is the most transparent of communications and easily monitored by anyone having a radio set. We also said that any terrorist is unlikely to study for, pass an exam and apply for a license when he could operate clandestinely without any license. While everyone agreed that this could be rescinded, no

one wanted to bell the cat, so to say, and actually sign off on the scrapping of the requirement.

We had written to almost all the Home Ministers who occupied the chair and even to the current Prime Minister who had declared on taking office that he wanted to abolish all antiquated regulations

Finally with pressure being applied through many sources, someone in the PM's office, decided to act on my letter to the PM written in 2014 and in consultation with the Ministry of Home affairs and the Telecom Ministry, scrapped the requirement for Indians and foreign nationals who apply for an amateur radio license. This became effective on 10th March 2016 and will speed up the grant of licenses hereafter. We hope that we will see a great number of new amateurs being licensed, but it is important that they become active also.

ARSI is now working on other issues that also need to be looked at, but it is a long process.

Frequency allocation is another area that is being addressed, but the whole process has to go through the **National Frequency Allocation Plan (NFAP)** before the particular band/frequency is released for amateurs, and this takes a lot of time. This is something that is not understood by many and leads to caustic comments by a small group on social media!!

ARSI conducted a very successful Hill Topping Contest when a large number of teams literally took to the hills to set up temporary stations and work stations on other hills and ground stations also. For the first time 6M was also used.

The National Field day will take place in a few weeks and it is expected that a large number of teams will participate.

These exercises / contests provide an opportunity for our amateurs to train themselves in setting up efficient temporary stations quickly and operate with emergency power etc. - all experience which will go a long way if they were to assist during emergencies.

The Hamfest 2016 is being planned in Mount Abu and details will be available on their website.

73, Gopal VU2GMN

From the Editor's desk



It is heartening to note that the antiquated regulations covering the issue of Amateur Radio Licences have been removed – thanks mainly to the efforts of our President. There have been cases in the past when the person waiting for his licence has lost interest in the hobby before the licence was issued. Why, I appeared for the exam. In 1962 and received my ticket in 1965!!

The band conditions have been 'so-so' with the solar activity at a record low. I really miss the crowded bands of yesteryears when I had to struggle and look for a vacant frequency to call CQ.

The VHF Hill-topping hasn't really caught on yet, hopefully in the future we hear contacts being made across the country. Analysing the logs of the hill topping each year will give us a good idea of appropriate locations for stations in case of any National emergency.

73 de Ganesh VU2TS



National Field Day 2016

The Field Day is an informal contest. It is organised to test the abilities of participants to set up stations and operate from field locations. This is a critical skill-set which needs development in order to have a well-trained pool of operators ready to head out in times of an emergency, set up stations quickly and demonstrate traffic handling capability. It also doubles up as a training exercise for future IOTA, DXpedition, or Multi-op contest operations.

Date: April 16th and 17th, 2016

Duration: 24 Hours (1200 IST on Saturday to 1200 IST on Sunday)

Exchange: RST + Serial Numbers (001, 002, 003) + State (2 letter abbreviations from States and Union Territories) E.g. 599 035 UP (CW or Data) or 59 045 TN (SSB)

Bands: 160, 80, 40, 20, 15, 10, 6, 2 metre bands only (No WARC Bands - 30, 17, 12m)

Modes: CW /SSB/ FM/ Data

Categories: Portable / Fixed (home stations)

Power Level: General Grade: Maximum up to 100w on HF and 25w on VHF

- Restricted Grade: Maximum up to 50w on HF and 10w on VHF

Rules and FAQ: Access here

<http://arsi.info/resources?download=54%3Afd2016>

Register: Click the URL to use the Google form to register for Field Day 2016

<http://goo.gl/forms/YscWvog1Ur>

Logs: Please send your electronic logs to logs@arsi.info by 25th April, 2016.

Paper logs must reach the Contest Manager by May 15th, 2016 via ordinary post only. Address: Deepak Pathak, PO Box 9730, Mumbai 400066

THE VU CONTEST GROUP

In order to foster the growth of new contesters, the VU Contest Group was started by a few VU regular contesters with the objective of:

- having a common 'contest club' identity;
- sharing ideas (and sometimes equipment) to aid each other's scores;
- hone contest operating skills of old and new ops alike; and
- bring in newer ops by introducing them to serious contesting.

VU Contest Group is an informal group and has no formal offices or office bearers. Contest scores submitted by VU-CGers are increasing year after year as we focus on competitive skills development.



VU2WE and VU2CDP at AT5R

We took the first step by operating a major 48 hour contest with two rookie ops being watched over by their relatively older peers. It was a field day style operation and a summary is presented below.

There will be other VU Contest Group operations where we will typically bring in 1-2 newer ops to share whatever we have learnt over the years.



CQWW-WPX-Contest-SSB

Call: AT5R

Operator(s): VU2PTT VU2NKS VU2CDP VU2SGW VU2WE

Station: AT5R

Class: M/2 HP

QTH: Rangaon Beach, Vasai, Maharashtra

Loc: MK69ji

Operating Time (hrs): 48

Summary

| Band | QSOs |
|--|------|
| 160: | -- |
| 80: | -- |
| 40: | 255 |
| 20: | 369 |
| 15: | 869 |
| 10: | 246 |
| Total: | 1739 |
| Prefixes = 765 | |
| Total Score = 4,046,850 | |
| Club: VU Contest Group | |
| Comments: | |
| We planned this operation to test out a field location for probable future contest use and also to bring in newcomers who haven't been exposed to the rigours of 48 hour, multi-op contesting. | |
| Antennas were VDAs for 20,15,10m and a 1/4 wave vertical with elevated radials installed near the | |

high-tide mark. Radios were two K3s with 400w out from KPA-500 amps powered off a 5KVA diesel generator; switching was via a KK1L band-decoder. Everything worked well.



Propagation was rather average. The NA opening experienced on 15m at local evening was absent on Sunday. 20m didn't yield much and was rather noisy most of the time. We even experienced some crazy one way propagation on 20m with s-9 signals who CQed in our face but couldn't hear us. Few hours later they dropped to near s-1 but went in the log with one call! We got some unsolicited remarks about being loud. Weird.

10m didn't open to NA and not many signals from EU. But we did work some SA which helped. 40m showed some early promise but i guess WPX SSB isn't everybody's favourite contest. By Sunday evening, we didn't have many left to work.

Conditions aside, it was a good experience as we operated at will and did not follow any operating schedule. A more relaxed environment makes operating fun. We thought we had a remote location but it turned out that the place sees

enough people on a weekend. We had many locals come and inquire about our goings-on but not everyone seemed to grasp what we conveyed. We all had a good laugh about it post contest.

ARSI VHF Hilltop contest 2016

The 4th edition of the VHF Hill top Contest saw enthusiastic participation from many hams even though the activity, yet again, remained largely confined to the southern part of the country. This year ARSI got permission for stations who decided to operate from outdoors. A total of 15 applications were submitted to WPC but eventually only 8 stations managed to get on air because of various reasons. Despite the high number of participants, the number of stations who submitted logs was low. From the logs received, one can count at least 50 stations who got on air during the contest and worked at least one station. However they chose to not submit a log which does impact log checking. The results of the event are still being compiled at the time of writing this and will be published shortly.

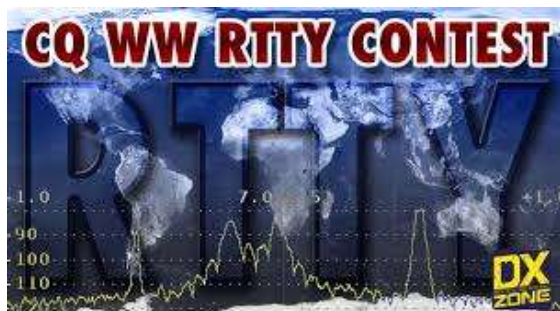
Feedback from participants was solicited after the contest and quite a few responses were received, both via the ARSI Yahoogroup and also via individual emails. One important area of focus remains increasing participation of members in ARSI contests. Not too long ago members would complain about the lack of activities by ARSI. We now find that very few members participate in events which are open to all VU amateurs. The response to the National Field Day is also tepid which is intriguing since it is not a competitive event and is also scheduled right before World Amateur Radio Day for increased visibility of the hobby. A solution must be found to increase participation in on-air activities so that operating skills do not rust!

The ARSI Calendar will also be updated to include another new event in light of the announcement by IARU for setting aside a day exclusively for QRP. Details of this will be firmed up and published on the website in the next few weeks. With a calendar of events published in advance, we hope members will plan their participation in these events and also encourage others to do so.

**73 de Deepak VU2CDP Contest & Awards
Manager – ARSI**

CONGRATULATIONS ARE IN ORDER!

The 2015 edition of CQWW contests saw a big uptick in VU participation with record number of logs submitted. The results for RTTY and SSB have been published. Some notable performances are listed-



- **VU2LBW** #1 in VU in Single Op High Power All Band category with a score of 537,300 pts
- **VU2DED** #1 in VU in Single Op Low Power All Band category with a score of 54,960 pts
- **VU2MUD** #1 in VU in Single Op High Power 15m (Assisted) category with a score of 25,915 pts.

Read more at

<http://www.cqwwrtty.com/scoresry.htm>
<http://www.cqww.com/scoresph.htm>



- **VU2PAI #1** in VU in Single Op High Power All Band category with a score of 3,033,835 pts (#9 Asia)
- **VU2RCT** #2 in VU in Single Op High Power All Band category with a score of 2,201,642 pts (#12 Asia)
- **VU2DED #1** in VU in Single Op Low Power All Band category with a score of 220,616 pts

PUNE, MAHARASHTRA

ANTENNA WORKSHOP AT COEP - PUNE

The evening of Wednesday 10th Feb 2016 was most exciting for budding Hams at Govt College of Engineering (COEP) Pune. In spite of busy schedule of exams, club members gathered in Seminar Hall to listen OM Dosu Paymaster VU2NP more popularly known as NAYA PAISA - most experienced old timer and young at heart though he is 84.

The Antenna workshop started with Introduction to "Swayam " micro satellite developed by COEP students. OM Girish Baj gave power point presentation explaining details of Swayam.

Swayam will be launched by ISRO in the last week of April 2016

The COEP Satellite (SWAYAM) project is aimed at developing a reliable bidirectional communications platform on the Ham Bands.

The team has established a fully functional Ground Station in the premises with up link and down link capability in both the 434-438 MHz (UHF) as well as the 144-148 MHz (VHF) bands.

The Ground Segment includes an array of 2 crossed Yagi antennas for the 434-438 MHz band and a simple Yagi Uda and Potato Masher antenna for the 144-148 MHz range. Indian Hams can start preparations for monitoring Swayam.



OM Dossu (VU2NP since 1960) started the workshop with Importance of antenna basics wavelength, and covered wire and beam Antennas, like Yagi Uda, and their various

parameters like Directivity, Front-to-Back Ratio (F/B Ratio), Effective Radiated power, Power Gain, The Decibel, Antenna Efficiency, Signal-to-Noise, Ratio, Resonance, Reactance, Standing Wave Ratio (SWR), "Q" of an Antenna, selection of Coaxial Cable as an antenna feeder, Its Impedance criticality for maximum RF power transfer.



OM Dossu focused on his favour rite Cubical Quad and explained it in details. The club members appreciated the scale model developed by Dossu and its mechanism for bringing it down for maintenance.



OM Dossu also covered the topic Balun in details and explained its need. The most important topic Dossu conducted was Maintenance of Antennas which is not covered by any text book. He shared and gave lot of tips on Antenna maintenance.

The Antenna workshop ended with vote of thanks and group photo of club members. Regards,

Vilas Rabde +91 9822502078 VU2VPR-145.5 MHz, Skype: vilasrabde

DDS controlled Direct Conversion Receiver (DCR) Workshop in Pune

The PUNE HAMS & AMATEUR RADIO CLUB conducted a workshop to assemble DDS controlled Direct Conversion Receiver (DCR) under the guidance of VU2ASH / ASHOK JOSHI who is fondly referred to as "Radio Dada" by the youngsters at the PUNE HAMS & AMATEUR RADIO CLUB, Hi.



Many newcomers assembled the sets successfully.



The Pune Ham Club and Amateur Radio Monthly EYEBALL QSO was held on **Sunday 10th January 2016** morning at the usual **Balgandharva Rangamandir Canteen on Jangli Maharaj Road near Deccan Gymkhana in Pune.**

The group met outside the cafeteria and spent a few moments in silence as a sign of respect to VU2EN – Kishor Kelkar (Kelkar Kaka) who became a silent key on January 2, 2016.

Remembering Kelkar, Shriniva-VU2SFJ who is a glider pilot at the Gliding Center Pune spoke of Kelkar as an excellent brass pounder Amateur Radio operator who taught him CW when he was preparing as a youngster for his Amateur Radio license.



He spoke of the excellent protocol that Kelkar followed while transmitting on the air and while making a QSO. He further added that many would possibly not be aware that Kelkar in his younger days was an excellent glider pilot who had extensively flown Glider Aircrafts both in Bangalore and in Pune. He spoke of Kelkar as an excellent aero modeler, a excellent craftsmen, more importantly an excellent human being.

VU3JFG/Aniket who got his Ham Radio ticket just a year back and is yet to acquire a HF Radio had visited VU2ASH / Ashok Joshi on 25th of December 2015 in order to work on 40m HF. That day was the first time he had a QSO on HF and his first QSO with Kelkar. He narrated the way Kelkar tried to make him comfortable on the air and on the air itself he gave him a few tips on how to operate on HF effectively.

Dilip Bapat as a short wave listener who is from Alibaug and was at the meeting spoke of his experience of Kelkar. He spoke of the clarity with which Kelkar spoke on the air even at the age of 84 years, of his sense of humor on the air and of the excellent signal quality that he would transmit. He even played some of the QSOs of Kelkar that he had recently recorded from the 7.130Mhz morning net.

VU2UPQ/Udaya spoke of Kelkar as a family man, who even at the age of 84 years of age, besides other times, made it a point to take his wife out for a long drive in the car every Sunday evening.

After paying respects to Late VU2EN the group moved into the cafeteria.

Once in the cafeteria VU3JFG /Aniket Vaidya shared with the group information about his recently acquired Diamond RH770 antenna for his VHF hand held radio. VU3GUS / Suresh Gupta had brought to the meeting his recently purchased hand held radio showed it to the group and members present helped him to get familiar with its operation.



At the 6th December, 2015 eyeball qso, it was decided to have a workshop and to build the DDS controlled DCR (Direct Conversion Receiver) developed by VU2ASH / Ashok Joshi. Mohan Paralkar / VU2MMJ had volunteered to procure the components for the workshop on behalf of the group. He shared the details of what was purchased with the group. Udaya/ VU2UPQ informed the group that the PCB boards ordered by VU2ASH would be delivered in a week. Hence it was possible to hold the workshop in the month of February 2016.

Eyeball QSOs planned for first Sunday of every month.

The February meet was held on Sunday,7th February 2016 at the MQTH of VU2UPQ / Udaya Patil off M. G. Road in the Pune Cantonment area.

There was a discussion on the VHF HillTop contest that was in progress on that day and about the preparations needed in order to participate in the contest. Although only one team from the club consisting of VU3MXE and VU3JFG had registered for the contest from Pune this year, it was decided to chalk out a plan in advance so that more teams from the club participate in this event next year. VU2ASH/ Ashok suggested that after this current DCR workshop, we should now plan on a 2m Yagi and Quad antenna workshop in the coming months that would help in the preparedness for such events.

After some light refreshments and tea VU2ASH / Ashok Joshi started with the first module of the DCR workshop where in he introduced the circuit board the components and the method of construction of the DCR. He said that the Direct Conversion Receiver Designed by him is a 4 band auto switching direct conversion receiver and has been named ASHDCR2. It uses a AD 9850 DDS VFO and can be used to receive signals on 7, 14, 21, 28mhz bands. While elaborating its used he said that it is an excellent tool for upcoming Ham Radio enthusiasts and short wave listeners. The assembly of this kit will help in understanding electronic components and take us back to basic electronics. He spoke of how, with the help of this radio, he listen to qso's and monsters the bands when ever he is traveling out of town .

12 kits of the necessary components including the specially designed PCB Board were made available to those who had registered for the workshop. The participants had been asked to carry their own soldering stations and tool kits. Since there were some more individuals besides the 12 who were interested in the workshop and had came to attended the first module of the workshop, it was decided to procure 8 more kits.

The next module of the workshop has been planned for 21st February 2016 and there after every fortnight till the 4 modules are complete.

Tnx: DE VU2UPQ / Udaya Patil
MOB: 9823026567 On Air: 7.130mhz (8.15 am Rag-chew net)



GWALIOR, M.P.

Amateur Radio Club Gwalior had a meeting of with AZAD-1 Satellite team in Bhopal on December 2, 2015. The discussion took place regarding the Nano Satellite project in MNIT Bhopal. OM Manmohan SWL from Bhopal who is waiting for his ticket was with me. It was decided to provide guidance to the students for AZAD - 1 Satellite project. Further, it was proposed to conduct A.S.O.C. exam in MNIT college, Bhopal soon. After all it was a nice meeting and some fruitful output is expected soon.

73 de Jayu S. Bhide VU2JAU Gwalior.

HAM Radio activity in VITM

Vikrant Institute of Technology and Management Gwalior will be having their own HAM Radio club station soon under the able guidance of OM Jayant S. Bhide VU2JAU. To motivate the students and enhance the knowledge in electronics, a workshop on Mobile Solar charger was conducted. Total 38 students participated in the workshop and made their Solar mobile chargers. All were tested and found ok. OM Sumit Agrawal SWL briefed students about the working of solar charger.



Students were very happy to see their own home brewed product.





Mr. Rathore Director and Mrs. Richa Verma Registrar inspected personally and were satisfied to see the progress of students. OM Jayu S.Bhide VU2JAU gave some tips of good soldering, it was a great success. Soon one more club station will be on the air from Vikrant College, Gwalior.

Best wishes from all of us! Ed/

S.I.R.T. Bhopal and Amateur Radio Club Gwalior, M.P.

To establish a mutually beneficial relationship built on academic and scientific cooperation. Amateur Radio Club, Gwalior and Sagar Institute of Research & Technology, Bhopal signed an MOU. Areas of cooperation between the institutes include the exchange of students, publications, academic programs and preparation of research projects, mainly concerning Wireless Communication and Satellite communication.

Sagar Institute of Research & Technology, Bhopal and Amateur Radio Club Gwalior, M.P. promotes research and realizes collaborative projects, giving priority to interdisciplinary works. On this event from SIRT, ED. Dr. Prashant Jain & from **Amateur Radio Club** Shri. Jayant S. Bhide, Amateur Radio Club, Gwalior, M. P. were present for signing the MOU. Director SIRT Dr. Akhilesh R. Upadhyaya and Dy. Director Dr. D.K. Mudaiya were also present on the above event.



On this occasion Er. Sanjeev Agrawal (Chairman SGI) and Dr. Prashant Jain (Executive Director) Congratulated Dr. Akhilesh R. Upadhyaya (Director SIRT) and told that this MOU will be beneficial for students as well as young researchers of both the organization.

Best wishes from the ARSI

Eastern India Science & Engineering Amateur Radio Demonstration at Fair 2016.

A demo of amateur radio was conducted successfully at The Eastern India Science and Engineering Fair held in Kolkata between 12th and 16th January 2016. The event was held at the BIRLA INDUSTRIAL & TECHNOLOGICAL MUSEUM. Hundreds of visitors dropped by the HAM RADIO stall at the fair – a printed leaflet was provided, giving all the information on what is amateur radio, how to become a ham, and so on.





The event was conducted by OM Mohammadd Ariff VU2HRF and OM Sumit Shanker Dey VU2BCC.

ASOC Exams held at Vikrant Institute of Technology and Management, Gwalior

For the first time in an Institute like VITM, Gwalior, ASOC exam was conducted on 16 and 17 March 2016. It was a great occasion where all the faculty members of the Institute, appeared in the exam. We are also happy to quote that the people like Director, Secretary, and Registrar along with admin officer took special interest and also appeared in the exam. Total 44 members took part in the ASOC exam including General and Restricted Grade.

In the meantime, the VITM College has already received a call sign VU2VGD which will be inaugurated soon. A VHF station has already been set up with a 5/8 wave vertical antenna and tested with another station at about 70 kms away successfully.

On 16th, only theory exam was conducted for both the class of exams. While on 17th March 2016 Morse receiving and sending exam was conducted.



We are happy that the administration of the institute who took special interest in organizing the exam. They all are planning to for a staff net on the air after getting the HAM Radio license.

Gwalior Amateur Radio club is very happy to promote the hobby in one of the most prestigious institutions of Gwalior.

73 - de Jayant S. Bhide VU2JAU.

Hearty congratulations to VITM and the GARC Ed/

ASOC Exams held at Datia M.P.

Another feather in Amateur Radio Club Gwalior as HAM Radio exam was organized in Datia about 70 Kms. From Gwalior. The District Magistrate of Datia shown special interest in HAM Radio activity and so asked all those in the administration to appear in the exam. Total 34 forms for Rstricted Grade were filled up and 29 appeared in the HAM Radio exam.

The D.M. of Datia shows special interest in all the activities of HAM Radio which will be very useful to the Datia district during Navaratri mela under Datia Disaster Management. It has taken a very serious effect after two incidences took place few years back where about 200 people lost their lives due to mis-communication, so D.M. is very keen to work on Disaster Communication in the area.

Gwalior HAMS are looking after the communication system in the area and controlling all the important points where disasters are expected. The HAM Radio exam was conducted under DDMA so they all will be licensed and trained operator to reduce the load of all Gwalior HAMS.

In the morning of 18 March 2016 a training on HAM Radio exam was organized for all 30 candidates by Jayant S. Bhide VU2JAU who reached in Datia on 17 evening. The ASOC exam took place in the afternoon at 3.00 p.m. All the candidates appeared only for restricted grade.

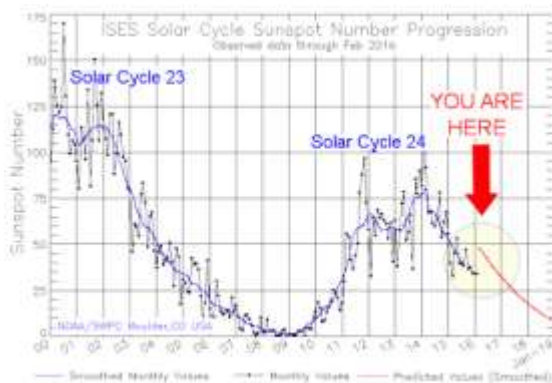


After the exams everybody was happy to see the way exam was conducted and special thanks to D.M. for very serious about HAM Radio. Hope to have 100% success in the exams!

Hearty congratulations to Jayant VU2JAU – keep up the good work!! Ed./

SOLAR CYCLE CRASHING

The 11-year sunspot cycle #24 is crashing. For the past two years, the sunspot number has been dropping as the sun is transiting from Solar Max to Solar Min. Fewer sunspots means there are fewer solar flares and coronal mass ejections (CMEs). As the explosions subside, we consider the sun is "quiet."



But how quiet is it, really? A widely-held misconception is that space weather stalls and becomes uninteresting during periods of low sunspot number. In fact, by turning the solar cycle sideways, we see that Solar Minimum brings many interesting changes. For instance, the upper atmosphere of Earth collapses, allowing space junk to accumulate around our planet. The heliosphere shrinks, bringing interstellar space closer to Earth. And galactic cosmic rays penetrate the inner solar

system with relative ease. Indeed, a cosmic ray surge is already underway.

So it is Goodbye sunspots, and Hello deep-space radiation! And looks like Goodbye to long haul DX on HF bands too..

Tnx: www.spaceweather.com

Radio Marathon INVENTORS TELECOMMUNICATION

March 16 to June 16, 2016

The international scientific-educational radio marathon "Inventor TELECOMMUNICATION" has been established by the **Russian Geographical Society** with the support of radio clubs and amateur radio operators in Russia to call attention to the personalities who played a prominent role in the history of telecommunications.

The purpose of the international radio marathon "Inventor TELECOMMUNICATION" is to transfer to radio amateurs all over the world, a body of knowledge of the history of telecommunications, development outlook, the ability to individual creative solutions for self-learning, as well as the formation of humanistic values.

Knowledge of the history of telecommunications decides a world view, general cultural problem. After all means of communication were established efforts of many scientists, engineers, inventors of all developed countries of the world. Communications World international, and with it humanity is beginning to overcome the accumulated hostility and mistrust between the peoples.

Special days of activity for this radio marathon will be:

16-March-Birthdate-of-A.S.-Popov.

18-April-World-Day- of Amateur Radio.

7 May - Honouring the Russian physicist Alexander S. Popov.

17 May - World Information Society Day. (Previously called International Telecommunications Day).

Award Rules: The inventors of the telecommunications
March-16-to-June-16-2016

You may earn several diplomas and awards of the international amateur scientific and educational diploma program "Inventor TELECOMMUNICATION" by conducting radio contacts (SWL OK) from 16 March (00 UTC) to 16 June (00 UTC) of 2016 by contacting special event stations using the prefix RT, the number 73, with a prefix that contains the initials of the individual being honoured, "XX" for their contribution as Inventors of Telecommunication.

To earn the 7 different thematic classes you need to contact the following number of stations, indicating the international amateur radio digital code expression *:

1. Diploma "INVENTORS TELECOMMUNICATIONS: THE FIRST-COMMUNICATIONS»11-QSOs
2. Diploma "TELECOMMUNICATION INVENTORS: MAIL" 44-QSOs
3. Diploma "TELECOMMUNICATION INVENTORS: Telegraph"-55-QSOs
4. Diploma "INVENTORS TELECOMMUNICATIONS: TELEPHONE"-73-QSOs
5. Diploma "TELECOMMUNICATION INVENTORS: RADIO": 88-QSOs
6. Diploma "TELECOMMUNICATION INVENTORS: TELEVISION"-99-QSOs
7. Diploma "TELECOMMUNICATION INVENTORS: INTERNET":-161-QSOs

To earn the 3 different awards "INVENTORS TELECOMMUNICATION» PLAQUE and TROPHY you need to dial-the-following-number-of-QSOs

1. The award "Inventor TELECOMMUNICATION» PLAQUE:-200-QSOs
2. The award inventor TELECOMMUNICATION»TROPHY:-250-QSOs
3. The award "Inventor TELECOMMUNICATION" GLASS:-300-QSOs

The above wooden plaques for "Inventor TELECOMMUNICATION» PLAQUE & TROPHY are mounted on a metal base (weight: 0.5 kg, plaque – 23x30.5cm,-metal-19x26cm).

A-special-Glass-award"-INVENTORS TELECOMMUNICATION» features optical glass with laser engraving and gift-box-(weight:-0.5-kg).

Repeated QSOs / SWL with special radios RT 73 XX, dedicated to the great and well-known telecommunication inventors may be worked multiple time using various HF & VHF bands and different modes (telephone, telegraph, digital types) from March 16 to June-16-2016.

For radio stations that are located on separate continents of NA, SA, OC, AF, AS (with the exception of Russia and CIS countries) each contact is worth double points.

The observers (SWL) should send such reports to the monitoring report to the Organizing Committee.

All 7 thematic diplomas are issued solely in electronic form free of charge through the system automated system of HAMLOG RU which is located at: <http://rt73.hamlog.ru> . They will receive reports from all

participants which will be used to verify your contacts.

While the paper awards are free of charge, there will be a charge made for the Awards which are PLAQUES, TROPHY and GLASS. Contact sponsor for details to send to your country.

LIST OF PARTICIPATING STATIONS AND THE PERSONS BEING HONORED:

| | |
|---|--|
| 1. RT73AP Alexander Stepanovich Popov | 42. RT73LF Lee de Forest |
| 2. RT73SM Samuel Finley Breese Morse | 43. RT73JB Logue John Baird |
| 3. RT73NT Nikola Tesla | 44. RT73CW Sir Charles Wheatstone |
| 4. RT73ES Ernst Werner Siemens | 45. RT73FS Francisco de Salva |
| 5. RT73TE Thomas Alva Edison | 46. RT73EK Ernst Ernst |
| 6. RT73HH Henry Rudolf Hertz | 47. RT73LL Leonid Labutin |
| 7. RT73GM Guglielmo Marconi | 48. RT73AS Adolf Slaby |
| 8. RT73JG Johann Carl Friedrich Gauss | 49. RT73ML Malone Loomis (Mahlon Loomis) |
| 9. RT73AV Alessandro Giuseppe Antonio Anastasio Volta | 50. RT73SH Hasegawa Sako, JA1MP . |
| 10. RT73AA Andre-Marie Ampere | 51. RT73CC Claude Chappe |
| 11. RT73MF Michael Faraday | 52. RT73HE Hans Christian Orsted |
| 12. RT73JM James Clerk Maxwell | 53. RT73PS Pavel Schilling |
| 13. RT73DH David Edward Hughes | 54. RT73JF Sir John Ambrose Fleming |
| 14. RT73OL Sir Oliver Joseph Lodge | 55. RT73JD John Frederick Daniel |
| 15. RT73WC William Crookes | 56. RT73CS Karl August Steynhel |
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Note: #64 Sir Jagadish Chandra Bose - RT73BJ

(Tnx: OM Arasu VU2UR)

TID-BITS

Holly Bevan N3MB, of Maryland USA celebrates 100th birthday! 100-year-old Holly Bevan chats on the ham radio every morning from 6 to 9 a.m. She keeps a meticulous logbook every ham radio conversation.

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