



The IARU Region 3 Newsletter

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A word from the Chairman

Work continues towards our objectives for WRC 2019 and several meetings have been held where IARU was represented.

A major change in approach was a Matrix system being introduced with specific responsibilities being taken up by individuals on the team. This was done as it was felt that our efforts WRC 2015 could have been better coordinated, and more effective. Harmonisation of efforts related to the proposed 50 MHz band in Region 1 is the main objective for WRC 2019.

A few weeks ago, I attended the Triennial conference of IARU Region 2 which was held in Vina del Mar in Chile, South America. IARU R3 Director Shizuo Endo accompanied me. It was a well-attended conference, with most of the proceedings in Spanish (simultaneous translation to English). Many important decisions were arrived at and full details are available on the R2 webpage.

Just prior to the conference, the Administrative Council met. A major decision was the objective of trying to work out the Branding of IARU and the three regions to display a somewhat unified presentation to visitors to the webpages and even developing a standard set of visiting cards in all regions. Presently each individual designs his or her own card and it is a fragmented presentation to the public.

Our region, as usual, had more than their share of natural disasters and radio amateurs were at the forefront of relief operations providing vital emergency communications support.

We need to improve on the work of our several committees and the Chairmen of the committees are working towards that.

My personal good wishes to all radio amateurs and their families for a happy, Prosperous, and I think more importantly, Healthy 2017 and the years to come.

Gopal VU2GMN

Change in IARU Secretary

Rod Stafford, W6ROD, has retired as IARU Secretary after seven years of service in that position. The IARU Constitution provides that the member-society serving as the International Secretariat, i.e. the ARRL, shall designate the Secretary. The ARRL Board of Directors has designated David Sumner, K1ZZ, to replace Mr. Stafford as Secretary effective 15 October 2016.

Mr. Sumner has served in this capacity twice previously, from 1982 to 1989 and from 1999 to 2009, while employed by the ARRL to manage its headquarters. Now retired from employment, he joins the other IARU officers and Administrative Council members in serving as a volunteer.

IARU President Tim Ellam, VE6SH, has appointed Mr. Stafford as Emergency Communications Special Advisor. In this capacity he will represent the interests of the IARU and the global amateur radio community in the Development Sector of the ITU and will offer advice and counsel on matters relating to emergency and disaster response communications.

Happy Birthday, ITU Radio Regulations (1906 – 2016)

On Monday, December 12, the ITU paid tribute today to 110 years of international cooperation among its members states on the ITU Radio Regulations, an international treaty for governing the use of the radio-frequency spectrum and satellite orbits for ubiquitous wireless communications

The ITU Radio Regulations ensure interference-free operations of radiocommunication systems and provide all countries with equitable access to the radio spectrum - a scarce natural resource that does not distinguish between national borders and needs to be harmonized globally.

Houlin Zhao, ITU's Secretary-General, said, "ITU is proud to proclaim the 110th anniversary of the ITU Radio Regulations as a success story of international cooperation through consensus building among its member states with the inestimable support of telecommunication industry partners. With the growing complexity of our interconnected world and ubiquity of wireless systems, it is now more important than ever to maintain the pace and efficiency of radiocommunication conferences to ensure the timely and responsive evolution of this precious instrument. The ITU Radio Regulations are now more important than ever."

Starting with the signing in Berlin on 3 November 1906 of the first International Radio Telegraph Convention, which brought together 30 maritime states, the Radio Regulations have grown with 110 years of revisions and innovations into the 5-volume treaty of 2000 pages of the 2016 edition. They now cover more than 40 different radiocommunication services and frequencies ranging from 9 kHz to 3000 GHz, with internationally agreed governing principles and regulations on which the rights and obligations of ITU's 193 Member States to use the spectrum and satellite orbit resources are based. The objective is that these scarce resources be used efficiently and equitably, **free of harmful interference**.

Since 1906, 38 World Radiocommunication Conferences have revised the ITU Radio Regulations to respond to technological and social development. The 2016 version was adopted by the World Radiocommunication Conference 2015 (WRC-15). As with previous versions, it was adopted by consensus, which is the guarantee that this treaty as it evolves, will continue to be reflected in national legislations and enforced by national governments.

ITU

2016 ITU Radio Regulations released

The 2016 ITU Radio Regulations have been released. They are available as a free download via the ITU website, in English and five other languages

"Following the successful completion of the World Radiocommunication Conference 2015, I am pleased to announce the issue of the ITU Radio Regulations, edition of 2016 which will come into force for all the signatory parties on 1 January 2017," said François Rancy, Director of the ITU Radiocommunication Bureau.

"This global treaty known as the ITU Radio Regulations, and upon which mobile communications and all other uses of the wireless

technology internationally depend, is celebrating its 110th anniversary," said ITU Secretary-General Houlin Zhao. "An incredible success story!"

"I look forward to welcoming the ITU membership to the celebrations in honour of the 110th anniversary of the Radio Regulations, which will take place during the World Radiocommunication Seminar (WRS-16) being held in Geneva from 12 – 16 December 2016."

You can download your copy of the ITU Radio Regulations via <https://www.itu.int/pub/R-REG-RR-2016>

ITU

IARU continues preparations for WRC-19

IARU's prime roles are to work in the areas of spectrum privileges (gaining or retaining spectrum for the amateur radio services) and spectrum protection (making sure that our spectrum remains available for use and free from serious man-made interference).

To do this we work in the international standards bodies (CISPR, CENELEC and ETSI), the Regional Telecommunications Organisations around the world (eg CEPT, CITEL, APT, ATU) and of course ITU. The ITU is the United Nation's specialised agency for telecommunications. Its Web Site contains a considerable amount of material and documentation of interest to the amateur service, much of which can be downloaded from <http://www.itu.int>.

In the last month, IARU representatives have attended the CEPT Electronic Communications Committee (ECC) – the policy-making body of CEPT, one of the many CEPT committees at which IARU is present. IARU was also present at ITU Working Parties under Study Group 5, whose remit is to study matters relating to terrestrial radiocommunication services, which includes the amateur service. WP5A is working to prepare for the World Radiocommunication Conference in 2019 with a focus which includes the Amateur Radio Services. At its November meeting it:

- Completed revisions to Recommendation ITU-R [M.1732](#) dealing with parameters to be used in sharing studies regarding the compatibility of amateur service operations with other radio services mainly in the 50 – 54 MHz band. It also generated four liaison statements to other groups. "Liaison statements" are the ways in which working parties alert each other to matters of common interest,
- Continued work on the sharing and compatibility studies required for WRC-19 agenda item 1.1 which addresses an amateur allocation in ITU Region 1 in common with those already available in Regions 2 and 3 in the band 50 – 54 MHz. Sharing studies consider the criteria under which spectrum can be shared between differing radio services,
- Addressed other WRC-19 agenda items which could impact the amateur service,
- Updated the WP5A Webpage information document "Guide to the use of ITU-R texts relating to the amateur and amateur-satellite services",
- Reviewed liaison statements from other ITU Working parties on topics of relevance to the amateur services and generated some liaison statements itself.

IARU will continue to be active in ITU and Regional Telecommunications Organisations as preparations advance for the next

World Radio Conference in 2019. The coming weeks will see IARU participating in CEPT's Conference Preparatory Group for WRC-19 and in its Project Team meetings.

IARU R2 Emergency Communications Workshop

The second IARU Region 2 Emergency Communications Workshop was held October 11, 2016 in Viñadel Mar, Chile in conjunction with the IARU Region 2 XIX General Assembly

The event featured speakers on topics that relate to international issues facing Amateur Radio's response to emergencies and disasters.

The discussion, both inside and outside the workshop, focused on the themes discussed in the first workshop as well as new focus area to address in IARU Region 2.

Topics covered the use of Winlink, SATERN support for Salvation Army disaster response, the role of ITU, developing operator and communications skills, AREDN mesh networking technology for disaster response, and emergency communications response in Venezuela.

Dr. Cesar Pio Santos, HR2P, provided an overview of emergency communications activities in IARU Region 2 since the last workshop in 2013. Mike Corey, KI1U, briefed attendees on the findings from the 2013 Emergency Communications Workshop in Cancun.

The availability of platforms such as Google Hangout, Skype, and similar virtual meeting programs make it possible to connect those in IARU Region 2 involved with Amateur Radio emergency communications. This could allow for coordination, training, and preparedness networking. Additionally, it may provide a means for youth participation in virtual emergency communications workshops.

Traditional means of Amateur Radio communication, such as voice and CW, are vital to our ability to provide emergency communications in IARU Region 2. We must encourage the development of operator skills through on air activity and continued training. Additionally, due to new and emerging communications needs, we must encourage the wide use of new technologies -radio email such as Winlink, mesh networking protocols like that presented by AREDN, weak signal modes, and improved health and welfare messaging – so to meet the needs of served agencies.

The IARU Region 2 Emergency Coordinators will explore the possibility of an online emergency communications resource library to be made available to IARU Region 2 member societies and Amateur Radio emergency communications enthusiasts.

Download the full press release from <http://www.iaru-r2.org/wp-content/uploads/Press-Release-English.pdf>

IARU Region 2

HFsat will have 21 to 29 MHz transponder

US Naval Academy students are planning an amateur radio CubeSat carrying an HF transponder as well as 2m APRS

They are working with Bill N6GHZ on the HF transponder card which will provide a bandwidth of 30 kHz, the frequencies are currently 21.4 MHz uplink and 29.42 MHz downlink. Doppler shift will be reduced to less than 2 Hz per second by using an inverting transponder.

The satellite will be gravity gradient stabilized by its long full size 10 meter band halfwave HF dipole antenna with tip masses. Read more about HFsat at <http://aprs.org/hfsat.html> IARU satellite frequency coordination page <http://www.amsat.org.uk/iaru/>

AMSAT

Radio hams to help administration during national calamity

Web India 123 News reports radio amateurs in Puducherry and adjoining districts of Tamil Nadu have offered all help to the District Administration in case of any Natural Calamity or emergency

Ham Radio operators could maintain communication links when conventional means have failed during monsoons. On October 31 District Collector Satyendra Singh Dursawat chaired a meeting of ham operators in his chamber as part of the preparations of the North-East monsoon.

The meeting decided to enlist their services so as to maintain communication from disaster sites to the Control Room of Department of Disaster Management. Assistant Director (Engineering) Ilangovan of All India Radio and officials of the Department of Disaster Management participated in the discussion. A total of 20 amateur radio operators attended the meeting.

Source <http://news.webindia123.com/news/Articles/India/20161031/2981125.html>

ARSI reports cyclone Vardha hit the Southern areas of India, centring on Chennai in the first week of December 2016. Winds in excess of 150 kph were experienced and over 150,000 trees uprooted and communications disrupted. Most roads were either completely or partially blocked by fallen trees and it took several days for the roads to be cleared. Several casualties were also reported, and severe damage to property. Radio amateurs assisted in relief work during and after the storm.

ARSI

Recovery efforts continue after disaster

Typhoon Haima which hit the north of the Philippines has left a path of debris, destroyed infrastructure, damaged homes (46,000) and businesses, affected agriculture and fishing, plus resulted in flooding and landslides. This is how the United Nations Office for the Coordination of Humanitarian Affairs (OCHA) described the latest of this year's 12 storms to hit the archipelago.

The Philippine Amateur Radio Association (PARA) was ready for Haima, having activated its HERO net on 7.110 MHz for the earlier Typhoon Sharika on Luzon Island. That Category 3 Typhoon moved westward and weakened quickly.

Roberto Vicencio DU1VHY reports that HERO was ready as Super Typhoon Haima smashed into the northern Philippines with winds gusting to over 300 kph and forcing thousands to flee.

The frequency of 7.110 MHz was used as Typhoon Sharika when its wind and rainfall made its presence known in the area of Luzon Island. No sooner had TC Sharika passed through the area of Luzon Island, eyes were on Typhoon Haima, that increased in intensity with winds gusting to over 300 kph. Roberto DU1VHY reports that HERO net with 130 stations gave weather, power and flooding reports.

Other ham groups like the United Methodist Amateur Radio Club (UMARC) sent members led by DV1YIN, to travel north to the province of Isabela.

The OCHA reported that the United Methodist Communication and the Philippine Amateur Radio Association provided solar generator sets to local radio amateurs in Isabela

Its latest report it said: "Considering the limited access to other communication channels, the use of ham radio is being used to support affected communities to communicate with their loved ones and provide feedback to their evolving needs."

The team of DV1YIN, DW1YMJ and DV1XWK took more than 10 hours by road to reach Santiago City, Isabela, and immediately via HF radio contact advised that power had been cut and phone coverage was intermittent.

Most areas in Cagayan had limited access to communication, with electricity expected to take three weeks to be restored. The army, police, the Red Cross and other humanitarian agencies are in the area. The communication task was big, with affected families with essential ready access information from the local government units and humanitarian agencies.

The Far East Broadcasting Company continues to air information it has to affected communities and provide updates on the ongoing response in the Isabela, Cagayan, Aurora Provinces.

*Chairman
IARU Region 3 Disaster Communications Committee*

WIA STEM Symposium - a good result

Initiated by the Wireless Institute of Australia (WIA), the symposium identified where Amateur Radio and the WIA can contribute to the Science, Technology, Engineering and Maths (STEM) program, being promoted by the Federal Government.

Hosted by the Canberra Amateur Radio Club on November 19, it had 24 people attend to discuss seven presentations and a further 12 papers of suggestions, ideas and concepts. WIA Vice President Fred Swainston VK3DAC says the breadth of ideas and suggestions was immense.

Among them were a Portable Radio Telescope, a software defined radio (SDR) dongle, a space camp, radio wave propagation demonstration, Cubesat possibilities, building relationships with other STEM groups, maker/science fairs, and career entry. Fred VK3DAC noted that a number of groups were already involved by making young Australians interested in STEM subjects. In particular, the symposium explored how Amateur Radio, and radio amateurs, can contribute to STEM by using their specialized talents through mentoring and coordinating interesting leading-edge activities.

A thoughtful robust discussion occurred leading towards a focused outcome to greatly lift awareness and participation. Fred VK3DAC says the WIA will continue to support existing programs wherever possible and further develop some programs or projects.

The symposium suggested that National as well as State and Territory coordinators be used to link with STEM programs as part of an overall WIA plan and strategy.

It was agreed by the participants that a network be established to further programs and projects and new members to this network are most welcome. There were 42 expressions of interest in the symposium received and all in the network will receive more information.

The STEM initiative has support from related industries, and teachers of STEM looking for some hands-on help from knowledgeable and skilled radio amateurs.

WIA

IARU Region 3 Directory

Official R3 Directory. Further information can be found on the Region 3 website: <http://iaru-r3.org/secretariat/>

Society Update Officials and Contact Information

A request is extended to all Region 3 Society Liaison Officers or other responsible officers to ensure that all details about their society is up to date on the listings shown at <http://iaru-r3.org/> under member societies. Some details have not been amended or updated for a number of years and have non functional data.

Current details can be forwarded to the Secretary of Region 3 for updating of the web information.

Newsletter details:

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Region 3 Societies can submit articles for inclusion to the next bulletin by 30th March 2017.

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IARU Region 3

