

**ARRL Technical Relations  
MEETING & CONFERENCE MONITOR  
2017**

**JULY**

July 31-August 4  
August 7 - 9

31<sup>st</sup> Meeting of CITEL PCC.I (Mexico City)  
ARRL/IARU R2 Amateur Radio Administration Course (Mexico City)

**AUGUST**

**SEPTEMBER**

September 1 - 2  
September 19-28  
September 25-28

IARU R2 Executive Committee (EC) (Guayaquil)  
ITU-R Task Group 5/1 WRC-19 Agenda Item 1.13 (Abu Dhabi)  
ITU Telecom World 2017 (Busan) (skip)

**OCTOBER**

October 2 – 6  
October 3-11  
October 9-20

USTTI ARAC (Newington)  
ITU-R Working Party 5D (Munich) (skip)  
2017 World Telecommunication Development Conference (WTDC-17)  
(Buenos Aires)  
LXXII FMRE National Convention (Cancun Quintana Roo)(skip)

October 5 – 7

**NOVEMBER**

November 6-21  
November 21 - 22  
November 17 – 19  
November 23  
November 23 – 30  
November 27-December 1

ITU-R Working Parties 5ABC + Study Group 5 (Geneva)  
ITU-R Inter-regional Workshop for WRC-19 (Geneva)  
FRACAP 2017 (Guatemala) (skip)  
[U.S. Thanksgiving Holiday](#)  
ITU-R Working Parties 1ABC + Study Group 1 (skip)  
39<sup>th</sup> Meeting of CITEL PCC.II (Barranquilla, Colombia)

**DECEMBER**

December 12-14

33<sup>rd</sup> Meeting of COM/CITEL (Dominican Republic)

**2018**

First quarter of 2018

7<sup>th</sup> Assembly of CITEL (Argentina)

**JANUARY**

January 17-26  
January 31-February 7

ITU-R Task Group 5/1 (TBD)  
ITU-R Working party 5D (Korea)

## FEBRUARY

## MARCH

March 2018

CITEL PCC.II (TBD)

## APRIL

April (TBD)  
April 18-27  
April 26

32<sup>nd</sup> Meeting of CITEL PCC.I (TBD)  
ITU Council 2018 + last meeting two days before PP-18  
International “Girls in ICT” Day

## MAY

May 2-11  
May 21 – 31

ITU-R Task Group 5/1 (PROPOSED DATES)  
ITU-R Working Parties 5ABC + Study Group 5 (Geneva)

## JUNE

June 4 – 13  
June 13-20  
June 25-July 6

ITU-R Working Parties 1ABC + Study Group 1 (Geneva)  
ITU-R Working Party 5D (Location TBD)  
ITU-T Study Group 5 (Geneva)

## JULY

## AUGUST

August (TBD)

33<sup>rd</sup> Meeting of CITEL PCC.I (TBD)

## SEPTEMBER

September 3-12  
September 15-30

ITU-R Task Group 5/1 (PROPOSED DATES)  
ITU Telecom World

## OCTOBER

October 2018  
October 3-10  
October 29-November 16  
October (TBD)  
October (TBD)

CITEL PCC.II  
ITU-R Working Party 5D (TBD)  
2018 ITU Plenipotentiary Conference (Dubai)  
USTTI ARAC (Newington) (to be confirmed)  
FMRE National Convention

## NOVEMBER

## DECEMBER

December (TBD)

34<sup>th</sup> Meeting of COM/CITEL (Dominican Republic)

**2019**

June 10-20	ITU Council 2019
October 28-November 22	WRC-19 (Geneva or Egypt) + CPM
October 22-25	Radiocommunication Assembly 2019 (Geneva)
October (TBD)	USTTI ARAC (Newington) (to be confirmed)
Fall	FMRE National Convention
Fall	FRACAP

## 2020

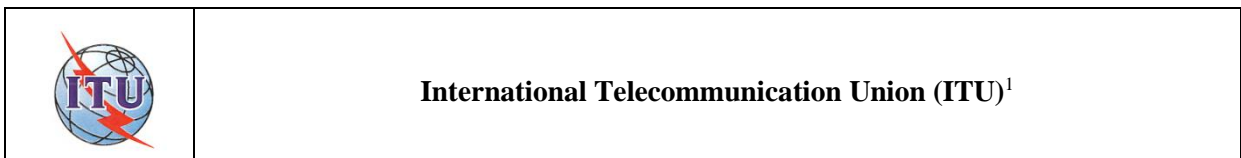
May 27-June 5	ITU Council 2020
October (TBD)	USTTI ARAC (Newington) (to be confirmed)
Spring/fall	CITEL PCC.I (2x)
Spring/fall	CITEL PCC.II (2x)
Dec	COM/CITEL
Spring/fall	ITU-R WP 5ABC + SG 5 (2x)
Spring/fall	ITU-R WP 1ABC + SG 1 (2x)
Fall	FMRE National Convention
Fall	FRACAP

### ARRL Technical Relations participation at International Meetings

The following meetings will require ARRL participation.

ITU Plenipotentiary 2018/ITU Council  
 WP 5ABCD, SG 5, TG 5/1  
 WP 1ABC and SG1  
 PCC.I, PCC.II, COM/CITEL, ASSEMBLY  
 FMRE, FRACAP

The amateur and amateur satellite services have to continuously defend Amateur Radio allocations and to avoid being blindsided at each step along the path toward a possible allocation action. The World Radiocommunication Conference (WRC) calendar drives the process.




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<sup>1</sup> ITU-R groups in which we participate:

- ◆ Radiocommunication Advisory Group (RAG), advises the Director on management of the radio sector

### **ITU-R Study Group 5 (SG 5)**

**(Terrestrial Services - Systems and networks for fixed, mobile, radiodetermination, amateur and amateur-satellite services.)**

Four Working Parties (WPs) carry out the studies on Questions assigned to Study Group (SG) 5 and one Task Group (TG 5/1) conduct studies to prepare for WRC-19.

### **ITU-R Working Party 5A (WP 5A)**

**(Land mobile service *excluding* IMT; amateur and amateur-satellite service)**

Working Party 5A is our “home” within the ITU-R Study Groups. WP 5A meets between five to ten working days; SG 5 meets for two days typically. Internationally, WP 5A is divided into smaller groups - key to us is WG 5A – 1 (amateur services). ARRL also participates in other meetings to learn who may be interested in our frequencies and to keep abreast of new technologies.

### **ITU-R Working Party 5B (WP 5B)**

**(Maritime mobile service including the Global Maritime Distress and Safety System - GMDSS; the aeronautical mobile service and the radiodetermination service)**

WP 5B is responsible for studies related to the maritime mobile service, including the Global Maritime Distress and Safety System (GMDSS), the aeronautical mobile service and the radiodetermination service, including both radiolocation and radionavigation services. It studies communication systems for the maritime mobile and aeronautical mobile services and radar and radiolocation systems for the radiodetermination service.

### **ITU-R Working Party 5C (WP 5C)**

**(Fixed wireless systems; HF systems in the fixed and land mobile services)**

WP 5C is responsible for studies related to fixed wireless systems and HF systems in the fixed and land mobile services. It studies performance and availability objectives, interference criteria, RF channel/block arrangements, system characteristics and sharing feasibility. (Note that for fixed wireless access (FWA) systems, work related to public access systems for potentially large deployment coverage is carried out in WP 5A.)

### **ITU-R Working Party 5D (WP 5D)**

**(IMT Systems)**

WP 5D is responsible for the overall radio system aspects of International Mobile Telecommunications (IMT) systems, comprising the IMT-2000, IMT-Advanced and IMT for 2020 and beyond. Working Party 5D will essentially use the same process utilized in the development of IMT-Advanced. WP 5D will define

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- ◆ Study Group 1 (spectrum management and monitoring), also its Working Parties 1A (spectrum engineering) and 1B (spectrum administration)
  - ◆ Study Group 5 (Terrestrial Services - Systems and networks for fixed, mobile, radiodetermination, amateur and amateur-satellite services.)
  - ◆ Study Group 6 (broadcasting) and Working Party 6E (terrestrial emissions)
  - ◆ Study Group 7 (science services), Working Party 7C, (earth exploration-satellites), 7D (radio astronomy) and 7E (conference preparation)
  - ◆ Study Group 9 (fixed service) and Working Party 9C (HF fixed)
  - ◆ Conference Preparatory Meeting (CPM)
  - ◆ Special Committee for Regulatory and Procedural Matters

in detail the performance requirements, evaluation criteria and methodology for the assessment of new IMT radio interface.

Working Party 5D also plans to hold a workshop in late 2017 that will allow for an explanation and discussion on performance requirements and evaluation criteria and methodology for candidate technologies for IMT-2020 that has been developed by WP5D, as well as to provide an opportunity for presentations by potential proponents for IMT-2020 in an informal setting.

### **ITU-R Task Group 5/1 (TG 5/1)**

#### **(WRC-19 agenda item 1.13)**

WRC-19 agenda item 1.13

*“to consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution 238 (WRC-15)”*,

Task Group 5/1 will conduct the sharing studies required for the IMT above 24.25 GHz agenda item at WRC-19 (the non-sharing work will be conducted in Working Party 5D).

- all involved parties in frequency bands and services mentioned in Resolution 238 (WRC-15) are invited to actively participate, as the responsible group for WRC-19 agenda item 1.13;
- with regards to spectrum needs, technical and operational characteristics including protection criteria, and deployment scenarios for the terrestrial component of IMT by 31 March 2017;
- that the technical characteristics including protection criteria for existing services allocated in, or adjacent to, the bands identified in *resolves to invite ITU-R 2* of Resolution 238 (WRC-15);
- the development of draft Conference Preparatory Material (CPM) text under WRC-19 agenda item 1.13 and that it will submit such text directly to the CPM-19.

### **ITU-R Study Group 1 (SG 1)**

#### **(Spectrum Management)**

Spectrum management principles and techniques, general principles of sharing, spectrum monitoring, long-term strategies for spectrum utilization, economic approaches to national spectrum management, automated techniques and assistance to developing countries in cooperation with the Telecommunication Development Sector.)

Three Working Parties (WPs) carry out studies on Questions assigned to Study Group

(SG) 1:

WP 1A Spectrum engineering techniques

WP 1B Spectrum management methodologies and economic strategies

WP 1C Spectrum monitoring

The goals of ITU-R Working Parties 1A, 1B and 1C activities are to develop and maintain

ITU-R Recommendations, Reports and Handbooks relevant to spectrum engineering

techniques, spectrum management fundamentals and spectrum monitoring,

respectively.

#### **ITU-R Working Party 1A (WP 1A)**

##### **(Spectrum engineering techniques)**

Spectrum engineering techniques, including unwanted emissions, frequency tolerance, technical aspects of sharing, spectrum engineering, computer programs, technical definitions, Earth-station coordination areas and technical spectrum efficiency. Working Party 1A addresses bands from 275 GHz and above.

Issues that impact Amateur Radio in WP 1A include Wireless Power Transmission (WPT), the coexistence of telecommunication systems with wires and radiocommunication systems and related matters, including power line telecommunications (PLT) and smart grids.

Question ITU-R 210-3/1 addresses “Wireless power transmission (WPT) and related issues” and will be dealt by ITU-R WP1A and WP1B. The main areas of work to be studied are:

- Under what category of spectrum use should administrations consider WPT: ISM\*, or other? (\*Industrial, scientific, medical)
- What radio frequency bands are most suitable for WPT?
- What steps are required to ensure that radiocommunication services are protected from WPT operations?

Wireless Power Transmission (WPT) has been identified as “Urgent studies required in preparation for the World Radiocommunication Conference 2019” (Resolution 958 WRC-15).

1) Studies concerning Wireless Power Transmission (WPT) for electric vehicles:

- a) to assess the impact of WPT for electric vehicles on radiocommunication services;
- b) to study suitable harmonized frequency ranges which would minimize the impact on radiocommunication services from WPT for electrical vehicles.

These studies should take into account that the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO) and the Society of Automotive Engineers (SAE) are in the process of approving standards intended for global and regional harmonization of WPT technologies for electric vehicles.

2) Studies to examine:

- a) whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. **18.1**;
- b) the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management program, in accordance with Resolution ITU-R 64 (RA-15).

3) Studies on the technical and operational aspects of radio networks and systems, as well as spectrum needed, including possible harmonized use of spectrum to support the implementation of narrowband and broadband machine-type communication infrastructures, in order to develop Recommendations, Reports and/or Handbooks, as appropriate, and to take appropriate actions within the ITU Radiocommunication Sector (ITU-R) scope of work.

### **ITU-R Working Party 1B (WP 1B)**

#### **(Spectrum management methodologies and economic strategies)**

Spectrum management fundamentals, including economic strategies, spectrum management methodology, national spectrum management organization, national and international regulatory framework, alternative approaches, flexible allocations and long-term strategies for planning. The results of the WPT studies will be treated in the draft CPM Report to WRC-19 as issue 9.1.6 under WRC-19 agenda item 9.1. WP 1B is the responsible group for this agenda item, while WP 1A, WP 5B and WP 6A have been identified as contributing groups.

### **ITU-R Working Party 1C (WP 1C)**

#### **(Spectrum Monitoring)**

Spectrum monitoring, including the development of techniques for observing the use of the spectrum, measurements techniques, inspection of radio stations, identification of emissions and location of interference sources.



## Inter-American Telecommunication Commission (CITEL)<sup>2</sup>

- ◆ CITEL PCC.II (radiocommunications including broadcasting) mirrors the ITU Plenipotentiary Conference, CPM and WRC-19 preparations
- ◆ Rapporteurship on disaster prevention, response and mitigation – **Chair: USA (ARRL)**
- ◆ COM/CITEL meets once each year - critical to continue to participate in this exclusive management body.
- ◆ CITEL ASSEMBLY meets every four years. It is the highest body within CITEL and will meet in 2018.

### Permanent Consultative Committee – I

#### (Telecommunications/Information and Communication Technologies) (PCC.I)

Permanent Consultative Committee I (PCC.I) serves as the advisory body of CITEL in the area of telecommunications/ICTs, especially with regard to matters of telecommunication/ICT policy, regulatory aspects, standardization, cybersecurity, international Internet-related public policy matters—insofar as those matters involve telecommunication networks or ICT infrastructure—, universal service, economic and social development, environment and climate change, infrastructure development, and new technologies.

### Rapporteurship on disaster prevention, response and mitigation – Chair: USA (ARRL)

This Rapporteurship, Chaired by the United States (**Chairman: Jon Siverling/ARRL**) is a part of the Working Group on Development (WGD). The Rapporteurship provides a unique opportunity to promote Amateur Radio throughout the Americas; and to ensure continued support by administrations of Amateur Radio. The Rapporteurship supports disaster preparedness and serves as a means for Member States to channel their telecommunication needs regarding natural disaster early warning, mitigation and relief

### Permanent Consultative Committee – II (Radiocommunications) (PCC.II)

The CITEL Permanent Consultative Committee II: Radiocommunications (PCC.II) typically meets twice each year. The 27<sup>th</sup> Meeting of PCC.II will be hosted by Colombia June 27 – July 1, 2017 in Bogota to continue preparations for WRC-19. The 28<sup>th</sup> Meeting is scheduled for September 19 – 23, 2016; venue TBD.

Impact to Amateur Radio: \*all\* Americas regional proposals for world conferences are developed in PCC.II.

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<sup>2</sup> CITEL is the regional telecom organization for the Americas, part of the Organization of American States (OAS), with secretariat in Washington, DC

- ◆ Jon Siverling participates in CITEL as a member of the US Delegation
- ◆ IARU Region 2 is a recognized observer, usually represented by an Area Director
- ◆ The CITEL Assembly is the highest body and will meet in 2018
- ◆ COM/CITEL, its executive committee, usually meets annually
- ◆ Permanent Consultative Committee I (Telecommunications/Information and Communication Technologies) (PCC.I) meets 2 or 3 times annually
- ◆ Permanent Consultative Committee II (Radiocommunications) (PCC.II) meets twice annually; three times in years with a World Radiocommunication Conference

### **Procedure for Mutual Recognition of CITEL IARP and CEPT Licenses**

ARRL continues to promote Member States to adopt the International Amateur Radio Permit (IARP).

### **CITEL Working Group to Prepare for the ITU Conferences**

The CITEL Working Group to Prepare for Conferences is the responsible group to prepare Inter American Proposals (IAPs) for World Conferences, to include World Radiocommunication Conferences, World Telecommunication Development Conferences, and the Plenipotentiary. This is where consensus is reached on agenda items which are then submitted to the ITU as regional proposals.

Impact to Amateur Radio: formation of positions and proposals for the Americas region are developed here. Once regional consensus is reached for each agenda item, the Inter American Proposal (IAP) is sent to the ITU. Proposals that favor Amateur Radio positions must be developed in this Working Group and support developed for favorable proposals sought from Member States throughout the process leading up to world conferences.

### **FMRE National Convention**

The Mexican Federation of Radio Amateurs

(Spanish: *Federación Mexicana de Radio Experimentadores* or FMRE)

### **FRACAP**

Federation of Radio Amateurs of Central America and Panama

(Spanish: *Federación de Radio Aficionados de Centro América y Panamá* or FRACAP)

FRACAP is the largest gathering of Radio Amateurs representing all of Central America.