

## 2017 SIM Time and Frequency Working Group workshop and meeting

### Agenda

#### DAY 1 (Monday, 2017-10-23): WORKSHOP

Time	Duration	Theme	Speaker
8:00 – 8:30	30 minutes	Register of participants	
8:30 – 9:00	30 minutes	Welcome to INM	Director of INM
9:00 – 9:10	10 minutes	Introduction of the agenda	Raul Solis
9:10 – 10:00	50 minutes	Introduction to Time and Frequency metrology concepts	Diego Luna
10:00 – 10:30	30 minutes	Break	
10:30 – 11:00	30 minutes	Introduction to Time and Frequency references	Dr. Mauricio Lopez
11:00 – 12:00	60 minutes	The Global Positioning System and Satellite Time Transfer	Michael Lombardi
12:00 – 13:00	60 minutes	Lunch	
13:00 – 14:00	60 minutes	Statistical Analysis of the measurements: ADEV and TDEV, linear analysis.	Dr. Mauricio Lopez
14:00 – 15:00	60 minutes	Ensemble of Time Scales	
15:00 – 15:30	30 minutes	Break	
15:30 – 16:30	60 minutes	SIM Time Network and SIM Time Scale	Nélida Muñoz

DAY 2 (Tuesday, 2017-10-24): WORKSHOP

Time	Duration	Theme	Speaker
8:30 – 9:15	45 minutes	Signal generation and measurements in time and frequency.	Raul Solis
9:15 – 10:00	45 minutes	Traceability and uncertainty P1	Raul Solis
10:00 – 10:30	30 minutes	Break	
10:30 – 11:15	45 minutes	Traceability and uncertainty P2	Raul Solis
11:15 – 12:00	45 minutes	Case study 1	Liz Hernandez / Nelson Bahámon
12:00 – 13:00	60 minutes	Lunch	
13:00 – 14:00	60 minutes	Time and Frequency calibrations P1	Liz Hernandez / Nelson Bahámon
14:00 – 15:00	60 minutes	Time and Frequency calibrations P2	Liz Hernandez / Nelson Bahámon
15:00 – 15:30	30 minutes	Break	
15:30 – 16:30	60 minutes	Time and Frequency calibrations P3	Liz Hernandez / Nelson Bahámon
Parallel training course			
8:30 – 16:30	8 hours	Homologación de criterios SIM para la realización de evaluaciones por pares y actualización de criterios ISO/IEC 17025	Gabriela de la Guardia

DAY 3 (Wednesday, 2017-10-25): WORKSHOP

Time	Duration	Theme	Speaker
8:30 – 9:00	30 minutes	Case study 2	Liz Hernandez / Nelson Bahámon
9:00 – 9:30	30 minutes	Time and Frequency calibration and dissemination laboratory requirements.	Raul Solis
9:30 – 10:00	30 minutes	Break	
10:00 – 10:40	40 minutes	Time and Frequency Traceability in emerging technologies P1	Raul Solis
10:40 – 11:20	40 minutes	Time and Frequency Traceability in emerging technologies P2	Dr. Mauricio Lopez
11:20 – 12:00	40 minutes	Time and Frequency Traceability in emerging technologies P3	Dr. Mauricio Lopez
12:00 – 13:00	60 minutes	Lunch	
13:00 – 13:40	40 minutes	Time and Frequency Traceability in emerging technologies P4	Dr. Marina Gertsvolf
13:40 – 14:20	40 minutes	Time and Frequency Traceability in emerging technologies P5	Michael Lombardi
14:20 – 15:00	40 minutes	Preparing Calibration Service Procedures and Calibration Methods in Support of CMCs	Dr. Marina Gertsvolf
15:00 – 15:30	30 minutes	Break	
15:30 – 17:00	90 minutes	GPS calibrations for UTC contributing labs, according to the BIPM Guidelines	Dr. Stefania Romisch
Parallel training course			
8:30 – 12:00	4 hours	Homologación de criterios SIM para la realización de evaluaciones por pares y actualización de criterios ISO/IEC 17025	Gabriela de la Guardia

DAY 4 (Thursday, 2017-10-26): WG MEETING

<b>Time</b>	<b>Duration</b>	<b>Theme</b>	<b>Speaker</b>
8:00 – 8:30	30 minutes	Words of welcome to the meeting and planning session and Chair WG report	Raul Solis
8:30 – 9:00	30 minutes	50th anniversary of the adoption of the atomic definition of the second and the future of the time unit	Dr. Mauricio Lopez
9:00 – 9:30	30 minutes	CCTF in MRA Guidelines	Dr. Mauricio Lopez
9:30 – 10:00	30 minutes	Break	
10:00 – 10:30	30 minutes	Presentation of SIM Guidelines for Time and Frequency	Raul Solis
10:30 – 12:00	90 minutes	Group planning (Round table, period 2018 – 2019)	All participants
12:00 – 13:00	60 minutes	Lunch	
13:00 – 15:30		Report of laboratory activities P1 (period 2015 – 2017)	All participants
15:30 – 15:45	30 minutes	Break	
15:45 – 16:50		Report of laboratory activities P2 (period 2015 – 2017)	All participants
16:50 – 17:00	10 minutes	Closing remarks and discussion	All participants