2015 SIM TFMWG Workshop and Planning Meeting Agenda

Horario/Time	Duración/Duration	Title	Presenter			
Tuesday, January 27, 2015						
8:30 – 9:00	30 minutos 30 minutes	Bienvenida y presentación del CENAMEP	Director of CENAMEP			
		Welcome to CENAMEP presentation				
Day 1 - Basic Concepts and Calibration and Measurement Techniques						
9:00 – 9:10	10 minutos 10 minutes	Introduction to Meeting and Discussion of Agenda	Michael Lombardi, NIST			
9:10 – 10:00	50 minutos 50 minutes	Conceptos generales de la metrología de tiempo y frecuencia	Michael Lombardi, NIST			
		Introduction to Time and Frequency Metrology				
10:00 – 10:30	30 minutos 30 minutes	Coffee Break				
10:30 – 12:00	90 minutos 90 minutes	Basic Laboratory Calibrations Calibrations of Stopwatches/Timers	Raul Solis and Luis Mojica, CENAMEP			
		Calibrations of Tachometers				
12:00 – 1:00	60 minutos 60 minutes	Lunch				
1:00 - 2:30	90 minutes	Introduction to Frequency Measurements medición de frecuencia • mediciones directas / Direct measurements with counters • mezcla de frecuencia / single mixer frequency measurements • doble mezcla de frecuencia / double mixer frequency measurements	Francisco Jiménez, CENAM			
2:30 – 3:00	30 minutos 30 minutes	Coffee Break				
3:00 – 3:45	45 minutos	Introduction to Atomic Clocks and	Mauricio Lopez,			

	45 minutes	How They Work	CENAM
		RubidiumCesiumHydrogen Maser	
3:45 – 5:00	75 minutos 75 minutes	Análisis estadístico de mediciones Statistical analysis of measurements • Desviación de Allan / Allan deviation • Deviación modificada de Allan / Modified Allan deviation • Desviación temporal / Time deviation	Mauricio Lopez, CENAM
		day, January 28, 2015	
•		ns, Time Scales, CMCs, and Disseminat	
8:30 – 9:00	30 minutos 30 minutes	The Role of Science and Research in Panama	Jorge Morta, National Secretary of Science and Technology in Panama
9:00 –10:15	75 minutos 75 minutes	 GPS and common-view time transfer Introduction to GPS The SIM Time Network Contributing to Coordinated Universal Time (UTC) Receiver calibrations in SIM region (Group 1 and Group 2) Traceability 	Michael Lombardi, NIST
10:15 – 10:30	15 minutos 15 minutes	Coffee Break	
10:30 – 11:15	45 minutos 45 minutes	Building an Ensemble Time Scale from Multiple Atomic Clocks	Ricardo de Carvalho, ONRJ
11:15 – 12:00	45 minutos 45 minutes	 The SIM Time Scale Contributing Labs Non-contributing Labs SIMT disciplined oscillators 	Mauricio Lopez, CENAM

12:00 – 1:00	60 minutos	Lunch		
	60 minutes			
1:00 - 1:45	45 minutos	CMCs and the BIPM Key	Raul Solis,	
	45 minutes	Comparison Database	CENAMEP	
1:45 – 2:15	30 minutos	Preparing Calibration Service	Marina Gertsvolf,	
	30 minutes	Procedures and Validation	NRC	
		Methods in Support of CMCs		
2:15 – 2:30	15 minutos	Group discussion about quality	Michael Lombardi,	
	15 minutes	systems, CMCs, and reviewing	NIST (moderator)	
		CMCs from other NMIs		
2:30 - 3:00	30 minutos	Coffee Break		
	30 minutes			
3:00 - 4:00	60 minutos	Time Dissemination - Distributing	Francisco Jiménez,	
	60 minutes	the Laboratory Time to the	CENAM	
		Nation's Citizens		
		 The Network Time Protocol, 		
		distributing the national time		
		through NTP		
		 Other forms of time 		
		dissemination (telephone,		
		radio, web clocks, etc.)		
4:00 – 4:30	30 minutos	Auditing Time System Service in	Mario Fittipaldi, ONRJ	
	30 minutes	Brazil		
		hursday, January 29, 2015		
		Working Group and Reports from the Labo		
8:30 – 9:30	60 minutos	The Future of Time and Frequency	Mauricio Lopez,	
	60 minutes	Measurements, including new	CENAM	
		advances in atomic clocks		
9:30 – 10:30	60 minutos	Open group discussion about	Michael Lombardi,	
	60 minutes	future projects and future	NIST (moderator)	
		direction of the SIM Time and		
		Frequency Metrology Working		
		Group		
10:30 – 11:00	30 minutos	Coffee Break		
	30 minutes			
11:00 – 12:00	60 minutos	Open group discussion about	Michael Lombardi,	
	60 minutes	future projects and future	NIST (moderator)	
		direction of the SIM Time and		
		Frequency Metrology Working		
		Group		
12:00 – 1:00	60 minutos	Lunch		
	60 minutes			
1:00 - 4:50	Each presenter will have 15 minutes, but the presentations can be shorter.			
	Presenters can provide general background information about their institution in			
	addition to describin	ng their time and frequency related activitie	s. We encourage	

	group discussion	and questions during all presentations	
		Antigua and Barbuda Lab Report	
		Argentina Lab Report	
		Bolivia Lab Report	
		Brazil Lab Report	
		Canada Lab Report	
		Columbia Lab Report	
2:45 – 3:00	Break		
		Costa Rica Lab Report	
		Dominican Republic Lab Report	
		Ecuador Lab Report	
		El Salvador Lab Report	
		Guatemala Lab Report	
		Guyana Lab Report	
		Jamaica Lab Report	
		Mexico Lab Report	
		Panama Lab Report	
		Paraguay Lab Report	
		Peru Lab Report	
		St. Kitts and Nevis Lab Report	
		St. Lucia Lab Report	
		Trinidad and Tobago Lab Report	
		United States Lab Report	
		Uruguay Lab Report	
4:50 - 5:00		Closing Remarks and Discussion	
5:00 - 6:00		Tour of CENAMEP	