



Report of the SIM WG9 to the 10th CCAUV Meeting BIPM, November, 2015

1. Introduction

The AUV activities of the NMI within SIM are coordinated in the SIM MWG9 and are briefly described in this report. In America 7 NMIs have activities and collaborate in AUV within SIM.

INDECOPI, which is the NMI of Peru, have established some facilities related with the calibration of sound level meters and acoustic calibrators. In 2014 INDECOPI had a training in CENAM for the calibration of sound level meters and sound calibrators.



Figure 1. Training on calibration of sound calibrators.
Left: Osvaldo Llamas (CENAM), Right: L. Palma (INDECOPI)

The Bucaramanga University, from Colombia, asked CENAM to make a proficiency testing on secondary calibration of accelerometers (according to ISO 16063-21) and on experimental determination of mechanical mobility (according to ISO 7626, Part 2 and Part 5).

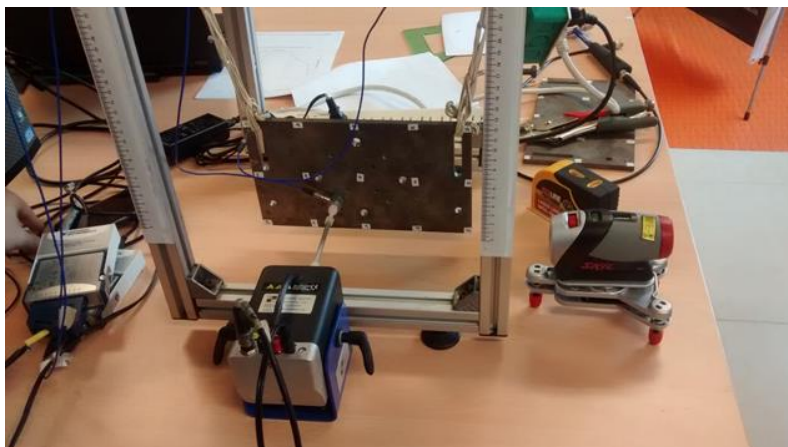


Figure 2. Experimental set-up to determine mechanical mobility.

2. SIM AUV Members

Country	NMI	Contact Person	Metrology Fields		
Canada	NRC	Dr. Lixue Wu	A	U	V
USA	NIST	Dr. Michael Gaitan	A	U	V
Mexico	CENAM	Mr. Guillermo Silva Pineda	A	U	V
Peru	INDECOPI	Mr. Henry Dias	A	-	-
Colombia	INM	Mr. Gerardo Porrás Rueda	A	-	-
Brasil	INMETRO	Dr. Gustavo P. Ripper	A	U	V
Argentina	INTI	Ms. Lucia Taibo	A	-	V

3. Comparisons within SIM

Comparison ID	Artifact	Pilot	SIM Participants
SIM.AUV.A-S1	Pistonphones	CENAM	CA, US, MX, BR, AR
SIM.AUV.V-K1.1	Accelerometers	INMETRO	MX, BR
SIM.AUV.V-K2	Accelerometers	INMETRO	CA, US, MX, BR, AR
SIM.AUV.A-K5	Microphones	CENAM	MX, AR
SIM.AUV.V-S1	Accelerometers	CENAM	CA, US, MX, BR, AR

3.1. CC Comparisons with SIM participation (2013-2015)

Comparison ID	Artifact	Pilot	SIM Participants
CCAUV.V-K3	DC Accelerometers	NIM	MX, BR

4. Participation in groups for documentary standards

Organization	Technical Committee	Field
IEC	TC 29	Electroacoustics
ISO	TC 43	Acoustics
ISO	TC 108	Mechanical vibration, shock and condition monitoring

5. Peer Reviews and CMCs update

NMI	Peer Review
NRC	2014
INMETRO	2014
CENAM	2015