

SIM

Update to the RLMO Round Table

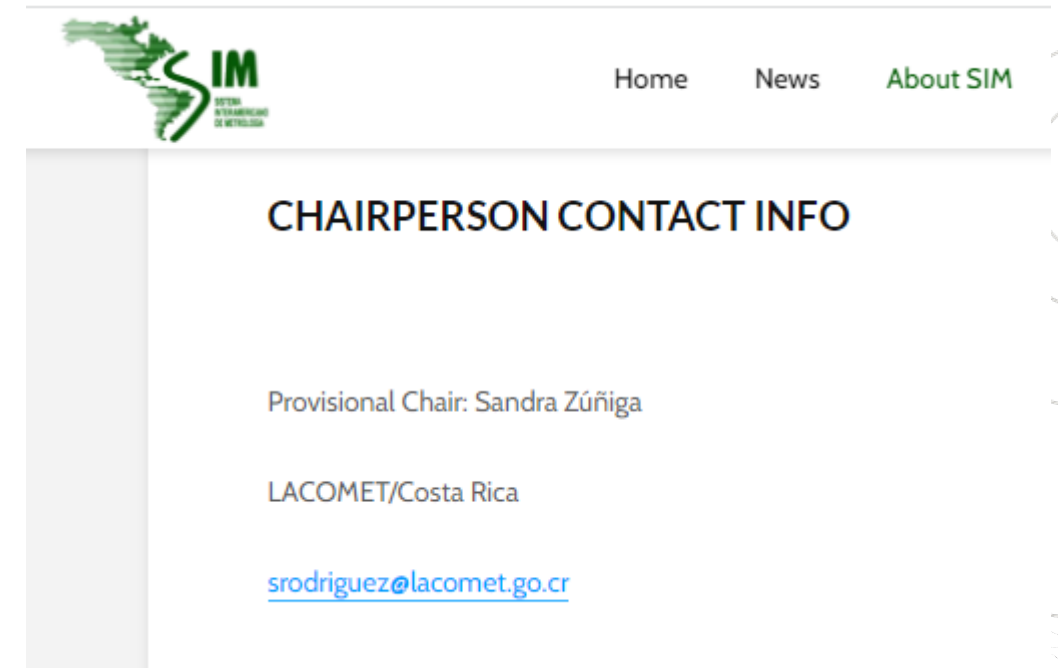
Sandra Rodríguez Zúñiga
SIM – MWG 11 Legal Metrology
SIM Legal Metrology Working Group
Chair Leader of the Legal Metrology
Department of the Costa Rican Metrology Laboratory

RLMO Interim Round Table Meeting- Sept 26, 2023



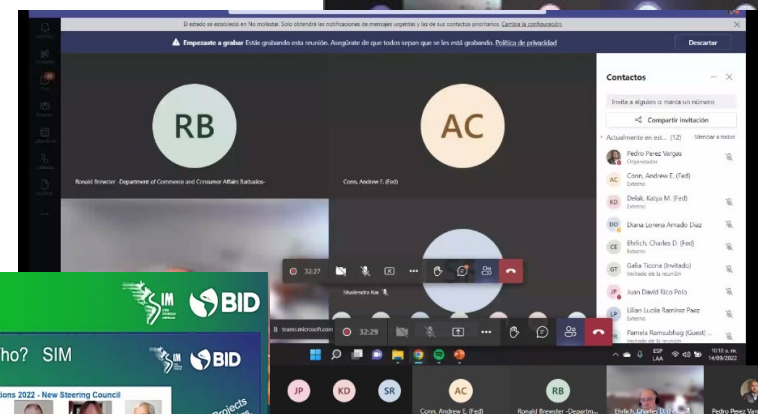
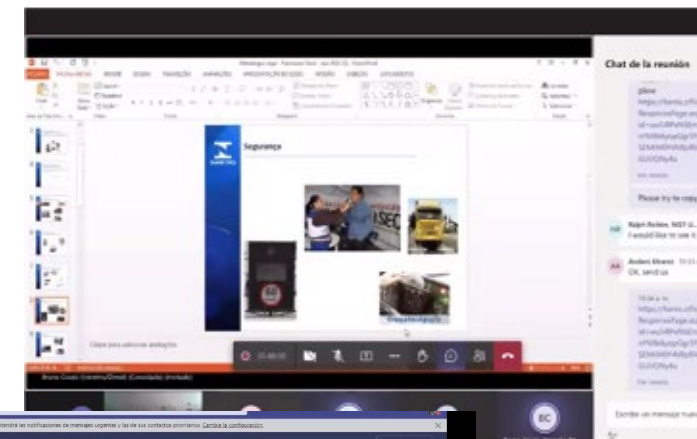
Main update: Change in Chair

- Because the SIC status within SIM, according to SIM rules and Council decision, Pedro Perez cannot continue serving as the MWG11 Chair.
- MWG11 Chair responsibilities

A screenshot of the SIM website showing the 'CHAIRPERSON CONTACT INFO' section. The header includes the SIM logo and navigation links for 'Home', 'News', and 'About SIM'. The main content area lists the 'Provisional Chair: Sandra Zúñiga' from 'LACOMET/Costa Rica' with the email address srodriguez@lacommet.go.cr.

Meetings

- March 14, 2023 SIM MWG 11
- SIM WEEK INM Colombia
May, 23 -26 2023



- OIML D 31 General Requirements for measuring instruments controlled by software.
- Energy meters training -Brasil
- Fundamentals of Metrology. Bahamas, Belize, Costa Rica, Dominican Republic, Guyana, St. Vincent and the Grenadines, Panama, Paraguay, Trinidad and Tobago, and Uruguay. NIST

- Training in Korea for Legal Metrology Technicians
 - Legal Metrology System
 - Technical visits: manufacturers and in-field inspectors



- **TRIANGULAR COOPERATION JOINT WORKSHOP** Project for Strengthening Legal Metrology Capacity of the National Metrology Institute of Costa Rica



Activities

Fuel dispensers

NAWI

regulation

Electric meters

Activities - OIML

- TC 6 / p 6 New publication: R87 prepackage template
- Metrological control of prepackage products
- Publication in Bulletin

LEGAL METROLOGY INSPECTION AND SURVEILLANCE WORKING GROUP				6102	
METROLOGICAL CONTROL REPORT OF PREPACKAGED PRODUCT CONTENT - MASS					
PRODUCT IDENTIFICATION					
Name:	Jamón RICA CHEF			Presentation:	BOLSA
Is the product ready to be sold?	Yes ☒	No ☐	Nominal Quantity:	1500 g	
Lot number (sample):	L42266940004523979			Expiration date:	28-nov-21
Where verification is carried out:	1. PACKING POINT ☒		2. POINT OF SALE / DISTRIBUTION		
Were samples selected after the final packer checkpoint? Yes ☒ No ☐					
Did the samples pass all the metrological and quality controls established by the researcher? Yes ☒ No ☐					
2. SAMPLE SIZE					
N: LOT SIZE (according to information provided by the investigated, when the verification is carried out at the place of distribution and / or commercialization)					
N LOT SIZE ACCORDING TO ONE (1) HOUR OF PRODUCTION (in accordance with the information provided by the investigated, when the verification is carried out at the place of packing): 964					
n: SAMPLE SIZE (According to ANNEX I. DETAILED SAMPLING PLANS. OIML R87): 98					

6. CONCLUSIONS / RESULTS TECHNICAL REPORT			
a. In the sample there should not be a higher number of units with deficiency greater than the tolerable difference allowed (TT).			
It must be observed that: Number of non-conforming units ≤ Acceptance number for Error 1T (5)			
b. There should be no inappropriate prepackages in the sample that have a T2 error.			
It must be fulfilled that: Number of non-conforming units ≤ Number of acceptance for Error 2T (0)			
NOMINAL QUANTITY	NUMBER OF PRODUCTS OUT OF SPECIFICATION	PRE-PACKAGING ALLOWED WITH ERROR	CONCLUSION
1500 g	$O_{non} - 1T$ 0	5	LOT ACCEPTED
	$O_{non} - 2T$ 0	0	
a. The average real content must be equal to or greater than the nominal content, this is determined by evaluating the value of e_{ave} like this:			
i) If the condition is met: $e_{ave} \geq 0$ the rule is fulfilled for the average.			
ii) If not, if the condition is met: $e_{ave}/s + SCF < 0$ the inspection lot is rejected.			
iii) Otherwise the inspection lot is accepted.			
CONCLUSION			
i) Value of $e_{ave} = 24.07$	Meets $e_{ave} \geq 0$?	YES	LOT ACCEPTED
ii) Value of $e_{ave}/s + SCF =$ not apply	Meets $e_{ave}/s + SCF < 0$?	NO	(Not apply)

RLMO FEATURE: SIM

Smart meters: The Brazilian point of view of legal metrology

JUAN CARLOS MATEUS SÁNCHEZ
Technology Researcher,
National Institute of Metrology, Quality and
Technology – INMETRO, Brazil
Direction of Legal Metrology / Sector of Electrical
Quantities Measurements

RLMO FEATURE: SIM

Status of legal metrology in the SIM Region

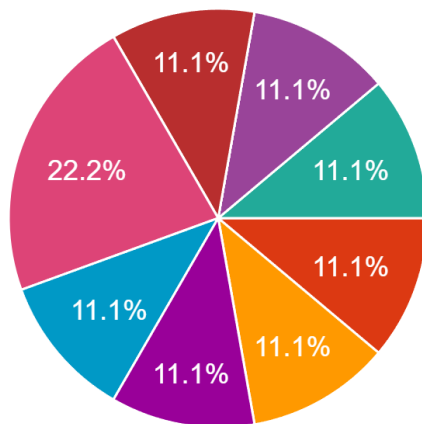
PEDRO PÉREZ¹
JUAN CAMILO DURÁN²
LINA GARAVITO³



MLWG 11 Information Update

What working group would you or a colleague like to be in?

9 respuestas



- NAWI
- Prepackaged
- Electricity meters
- Drinking water meters
- Fuel supplies
- Health: sphygmomanometer thermom..
- Digitization
- Smart meters
- Documents traduction
- Sound meters
- A mi me gustaria pertenecer principalmente al grupo de "Prepackaged", sin embargo, tambien me gustaria participar en los grupos de: NAWI, Electricity meters, Drinking wat...
- Prepackaged, Sound Meters, NAWI, Smart Meters, Electricity Meters

CENAME Guatemala
INACAL Perú
INEN Ecuador
INTI Argentina
LATU Uruguay
SLBS Saint Lucia
GNBS Guyana

Metrology for Digital Transformation

THB (Temperature Humidity Bias)
Evaluation System



- Capacity Building by Regional Exchange of Knowledge
- R&D Pilot Projects
 - DCC
 - Developing a low-cost THB with digital criteria
 - Advance on what “ Remote calibrations” can be
- Development of Integrated Platforms for Metrological Services
- Regional public Good Proposal for Handling and Evaluate PT and Regional KC supported on the cloud