



El Marqués, Qro., August 29, 2025

15th meeting of the CCAUV and its working groups

CENAM's recent publications on AUV

2025

- Aldo A. Garcia, Carolina H. Ruiz, Carlos G. Hernandez, Ciro Sanchez, Cristy Sánchez, Hugo Gasca, Isaac Ruiz, Itzel D. Mendoza, José E. Culma, Olman Ramos, Oscar R. Monzalvo, Rubén D. Gil, Susana Sainz. Collaborative innovation in digitalization for the monitoring of environmental conditions of NMI's in the SIM region. ScienceDirect-ELSEVIER-MEASEN_101820-Volume 38, Supplement, May 2025.
- Triantafillos Koukoulas, Lixue Wu, Timothy Hodges, Isaac Montesdeoca Hof, Quitze Bracho Maganda, Manuel Gonzalez and Raphael St-Gelais. Overview on the effects of accelerometer characteristics and optical interferometer configurations for low frequency vibration calibration. 31st International Congress on Sound and Vibration, Incheon, Korea. 06-11 July 2025.
- Aldo García. Automation in calibration process using DCC, primary to secondary labs. 5th International DCC Conference-2025.
- Aldo García. Pilot Metrology Cloud with IOT sensor Networks THB for SIM region. FORUM-MD Workshop on Metrology for Complex Sensor Networks-2025

2024

- Iris Mariela, Aldo Garcia. Analysis of three Methodologies for characterization of triaxial accelerometers type MEMS. ScienceDirect-ELSEVIER-MEASEN_101757-2024.
- Jon Geist, Hany Metry, Aldo Adrián García, Arturo Ruiz Rueda, Giancarlo Barbosa Micheli, Ronaldo da Silva Dias and Michael Gaitan. Improved Analysis for intrinsic properties of triaxial accelerometers to reduce Calibration Uncertainty. MDPI-Michomachines-2024.



- Thomas Bruns, Leonard Klaus, Na Yan and Manuel A Gonzalez. Ultra-low frequency calibration of broadband seismometers using a tilt table. *Metrologia*, Volume 61, Number 5. 23 September 2024.
- Manuel A Gonzalez, Arturo Ruiz. Dynamic calibration of acquisition cards used in vibration measurements, contribution of the theoretical and real resolution in the uncertainty budget. *Measurement: Sensors*. May 2025.
- Alfonso Coterá, D. Guevara, L. Niño, C. Galván, J. Echeverría, Aldo García, Armando L, E. Martínez, Itzel Dominguez. Use case of digital calibration certificate implementation at VW Mexico. PTB DCC-Conference 2024.
- Aldo García. DCC-Formula in calibration process. 4th International DCC Conference-2024.
- Aldo García. Cloud Technologies for the Integration of sensor networks IoT devices developed by SIM NMI's- IMEKO 2024 XXIV World Congress.

2023

- Osvaldo Llamas Llamas. Development of the measurement and calibration methods for a PU type sound Intensity probe (*Desarrollo del método de medición y calibración de la sonda de intensidad acústica tipo PU*). Simposio de Ruido. V Nacional y III Latinoamericano. Cd. de México, 7-8 September 2023.
- Dominique Rodrigues, Erling Sandermann Olsen, Osvaldo Llamas, Danuta Dobrowolska, Zemar M Defilippo Soares, Wan-Ho Cho, Christian Hof, Chris Thomas, Laurence Dickinson, Keisuke Yamada, Hironobu Takahashi, Riaan Nel10, Peter Hanes, Enver Sadıkoğlu, Sergey Kolesov and Dmitrii Golo vin. Final report on the key comparison CCAUV.A-K6. Published 20 January 2023. *Metrologia*, Volume 60, Number 1A.
- Oscar Ramos-Monzalvo, Carlos Galvan-Hernandez, Aldo Adrián García, José Armando Lopez, Hugo Gasca. Dynamic Web Tool for Generating DCC. 3rd International DCC Conference-2023
- Carlos Galvan-Hernandez, Itzel Dominguez, Aldo Adrian García, Hugo Gasca, Oscar Monzalvo. Using a spreadsheet to generate XML base don XSD Schema. 3rd International DCC Conference-2023.