



# Editorial

## Paolo Carbone

University of Perugia, Italy

---

**Section:** EDITORIAL

**Citation:** Paolo Carbone, Editorial, Acta IMEKO, vol. 5, no. 1, article 1, April 2016, identifier: IMEKO-ACTA-05 (2016)-01-01

**Editor:** Paolo Carbone, University of Perugia, Italy

**Received** April 25, 2016; **In final form** April 26, 2016; **Published** April 2016

**Copyright:** © 2016 IMEKO. This is an open-access article distributed under the terms of the Creative Commons Attribution 3.0 License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

**Corresponding author:** Paolo Carbone, email: Paolo.Carbone@unipg.it

---

Dear Reader, this first issue in 2016 of ACTA IMEKO contains a set of interesting papers associated to IMEKOFOODS 2014, the first IMEKO event on metrology in the area of food and nutrition (see the following editorial by the guest editor Claudia Zoani). Two other papers from the 2015 IMEKO World Congress and two technical notes complete this issue.

N. Medina, J. De Vicente and J. Robles author the first paper originating from the IMEKO World Congress. This paper deals with magnetic effects in the realization of a primary standard for dynamic force calibration. The effect of magnetic fields on the sensitivity of the force transducer was characterized and measured using various configurations and detailed experimental setups. Practical solutions were suggested to minimize the influence of these fields on the measured data.

H. Kjikawa and T. Kobata author the second paper originating from the 2015 World Congress. It deals with the calibration of a pressure gauge. A new method is proposed that is expected to be precise and low-cost. The paper contains both theory and experimental results.

Two technical notes conclude this issue. The first one is authored by D.M.Toma et al. It deals with marine observations of sea temperature, level of acidification and noise pollution. It describes the process of quality assurance needed to guarantee the validity of data, so that they have the quality required for the purpose justifying their collection.

A. Maina, I. Veldman and H. Ploug author the last technical note. It reports the results obtained in a trilateral comparison regarding vibration. Three laboratories were involved: the Kenya Bureau of Standards, the National Metrology Institute of South Africa and Brüel & Kjær Calibration Laboratory. Results of the comparison are precisely detailed, along with the characteristics of the procedure adopted to measure and manage the transfer standard.

I wish you a fruitful reading of this first issue of ACTA Imeko in 2016!