



Editorial

Paul Regtien

Measurement Science Consultancy (MSC), Julia Culpstraat 66, 7558 JB Hengelo (OV), The Netherlands

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Corresponding author: Paul Regtien, e-mail: paul@regtien.net

This issue of Acta IMEKO comprises the third set of articles that are based on papers presented at the XX IMEKO World Congress, Busan, Republic of Korea, 9–12 September, 2012. The issue includes the extended and updated versions of papers from TC3 (Measurement of Force, Mass and Torque) and TC16 (Pressure and Vacuum Measurement). The remaining submissions from this World Congress to be published by Acta IMEKO will appear in the forthcoming issue.

This edition starts with eight research papers on force, mass and torque measurements (TC3). The first one deals with the proposed new SI and the consequences for mass metrology. The next two papers discuss models for a checkweigher and a dynamic torque calibrator, respectively, and they are followed by a paper on an improved force standard machine. Calibration systems for torque are presented in the next two contributions and, in a subsequent paper, the effect of humidity on torque

transducers is discussed. The last contribution from TC3 is about a multi-component facility for torque and force.

Four articles from TC16 follow on equipment for pressure and vacuum measurements: a pressure balance piston, capacitive diaphragm gauges, pressure measuring multipliers and finally a discussion on rarefied gas flow in pressure and vacuum measurements.

The issue closes with an advertisement from HBM, a contributor to the Confederation. Advertising is open for other supporting members.

We would like to thank all those who have contributed to this issue: authors, reviewers, copyeditors, layout editors and journal managers. Special thanks go to the Section Editors Yon-Kyu Park (TC3) and Jorge Torres-Guzman (TC16).

We hope you enjoy this issue.