

Editorial to selected papers from the 5th International Conference IMEKO TC16

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Section: EDITORIAL

Citation: Jorge C. Torres-Guzman, Tokihiko Kobata, Editorial to selected papers from the 5th International Conference IMEKO TC16, Acta IMEKO, vol. 7, no. 1, article 11, March 2018, identifier: IMEKO-ACTA-07 (2018)-01-11

Editor: Dušan Agrež, University of LJUBLJANA, Slovenia

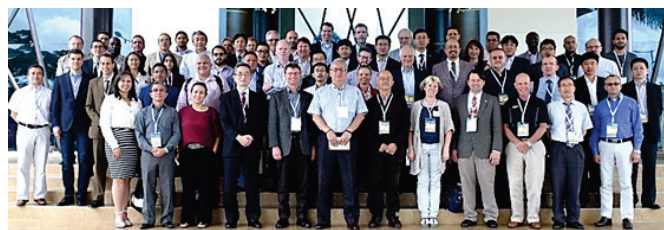
Received March 29, 2018; **In final form** March 29, 2018; **Published** March 2018

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1. INTRODUCTION

This section is centred on the 5th International Conference IMEKO TC16 which was held in the city of Pereira, Colombia on May 2017. The conference was performed in conjunction with the 6th International Conference of the CCM WG Pressure and Vacuum. The National Institute of Metrology (INM) Colombia organized these conferences.



The main objectives of these scientific events and contributions were to present the latest research, to stimulate information exchanges on current activities dedicated to the measurement, calibration and development of pressure and vacuum. The members of the IMEKO TC16 Board identified 8 valuable contributions presented in the Pereira events, for eventual publication in ACTA IMEKO. Their authors were invited to submit extended and updated versions of their selected papers. All of the authors that gave positive responses to this challenge started sending their extended papers to the ACTA IMEKO online submission system at middle of 2017. A great team of reviewers proceeded in successive stages, their task of assessing the papers and submitting their recommendations. The final list of 6 published papers in this issue is a high-quality exhibit of the papers submitted to our Conferences. All the reviewers involved in the process

contributed to improve the shape as much as the intrinsic content of the papers.

We invite you to continue and increase your partnership with ACTA IMEKO in all levels.

2. ABOUT TC16

The realization of the pressure scale comprises 18 decades, from 10⁻⁹ Pa to 10⁹ Pa, this is one of the reasons for which the applications of pressure measurement technology reach into many fields. One example is at the process industry, where all types of manometers and transmitters are found, to measure absolute, gauge and differential pressure. These devices are not only used for the measurement of pressure, but also to control the process. Practice shows that there is an increasing need to carry out international work to homogenize criteria, procedures and uncertainty evaluation to facilitate technical information exchange; to develop projects among groups from different nations; and to support measurements and calibrations for mutual recognition between country's National Metrology Institutes or Accreditation Bodies. This Technical Committee pursues this goal by the organization of different activities. The current members of TC16 are:

Dr. Tokihiko Kobata, Chairperson	Japan
Dr. Jay H. Hendricks, Vice Chairperson	USA
Dr. María Nieves Medina Martin, Scientific Secretary	Spain
Dr. Dominik Prazak, Scientific Secretary	Czech Republic
Dr. Jorge C. Torres-Guzman, Advisor (Past Chairman)	Mexico

Dr. Sam-Yong Woo	Republic of Korea
Dr. A. K. Bandyopadhyay	India
Prof. Giorgio Buonanno	Italy
Dr. Anita Calcatelli	Italy
Dr. Marcello Caravaggio	Italy
Mr. Tawat Changpan	Thailand
Mr. Michael D. Collins	United Kingdom
Mr. Alexandre Filipe da Silva Lourenco	Portugal
Dr. Alaa El-Din A. E. El-Tawil	Egypt
Dr. Peter Farar	Slovakia
Dr. John Greenwood	United Kingdom
Dr. Seung-Soo Hong	Republic of Korea
Dr. Karl Jousten	Germany
Dr. Rifat Kangi	Turkey
Dr. Alper Elkatmis	Turkey
Dr. Yasin Durgut	Turkey
Dr. Jean-Claude Legras	France
Dr. Gianfranco Molinar	Italy
Dr. Akira Ooiwa	Japan
Mr. Luiz Hemrique Paraguassu	Brazil
Dr. Wladimir Sabuga	Germany
Dr. Marina Sardi	Italy
Dr. Janez Setina	Slovenia
Mr. Schalk Smit	South Africa
Brian Yalisi	South Africa
Dr. Jiri Tesar	Czech Republic
Mr. Jos C. G. A. Verbeek	The Netherlands
Dr. Christian Wuthrich	Switzerland
Dr. Martin Wuest	Liechtenstein
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Mr. Mayckol J. Morales Castro	Colombia
Mr. Pengcheng Zhang	China
Prof. Davor Zvizdic	Croatia
Dr. Kenta Arai	Japan

Dr. Chris Sutton	New Zealand
Ms. Yanhua Li	China
Dr. In-Mook Choi	Republic of Korea
Mr. Pierre Otal	France
Dr. Fredrik Arrhen	Sweden
Mr. Hideaki Iizumi	Japan
Dr. Hiroaki Kajikawa	Japan
Mr. Martin Girard	USA
Mr. Michael Bair	USA
Mr. Jacob Ricker	USA
Dr. James A. Fedchak	USA
Mrs. Julia Scherschlight	USA
Mr. Aykurt Altintas	Denmark
Mr. Ambrose Okoth	Kenya
Mrs. Sari Saxholm	Finland

3. THE PAPERS

The papers included in this special section range from vacuum to high pressure, including barometric pressure. In addition, the papers present work performed experimentally as well as analytically. It is also important to note that their applications are at industrial level and at national metrology institute level.

We sincerely hope that all the contributions you will find in the next pages provide you with up-to-date information of your interest.

4. CONCLUSIONS

It was an honour for us to act as Guest Editors for a section of ACTA IMEKO, from the perspective of working for a high-profile scientific journal and to promote TC16's activities.

We have to highlight the quality and great flexibility of the electronic submission platform, the most valuable improvement recommendations and comments of the reviewers, the elevated standards for copyediting, proofreading and layout editing services of ACTA IMEKO.

We want to express our deepest gratitude and appreciation to the two Editors in Chief that work very hard to make this section possible, Prof. Paul P. L. Regtien and Prof. Dušan Agrež.