



The 8^h International Conference **MEASUREMENT 2011** is organized by the Institute of Measurement Science of the Slovak Academy of Sciences, Bratislava, Slovakia.

MEASUREMENT 2011

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Preface

*We find no sense in talking about something unless we specify how we measure it;
a definition by the method of measuring a quantity is the one sure way
of avoiding talking nonsense ...*

Sir Hermann Bondi (1919 – 2005)

The words of Austrian astronomer who lived in the United Kingdom and managed also the European Space Research Organization (predecessor of the European Space Agency) wittily underline the important role of measurement in science and everyday life that has been stressed by many outstanding thinkers since ancient times.

Being aware of this fact, the international conferences MEASUREMENT have been always focused on new developments in measurement science, on advances in measuring methods and their practical implementations in measuring devices.

Following this tradition also the 8th International Conference MEASUREMENT 2011 is devoted to the disciplines of measurement science, metrology, and selected application areas and covers topics from theoretical problems of measurement, measurements of physical quantities and measurements in biomedicine. It will include also such actual themes as measurements in micro- and nano- dimensions or measurements using imaging techniques. The main aim of the Conference is to continue in passing and exchanging of know-how in measurement among scientists and experienced specialists but also to contribute to education of young students and investigators. That is why also this time the competition for Young Investigator Award was announced and is sponsored by the conference organizers.

As usual, the conference is organized by the Institute of Measurement Science, Slovak Academy of Sciences with valuable support of several co-organizers and technical sponsors. Representatives of them contributed to preparation of the conference program and proceedings.

Since 1997 every two years the conference participants from many countries inside and outside of Europe are guests of the beautiful conference center in the Smolenice Castle that offers its comfortable environment for scientific talks, fruitful working discussions and friendly relaxation moments.

I hope that also the 8th international conference on measurement will come into history as a high quality scientific and pleasurable social event. The editors of these proceedings also believe that the book reflects the high professional level of the conference, will be of help for all its readers and will become a valuable quoted reference in measurement science.

Milan Tyšler
Conference Chairma