

WMD 2016 in the Russian Federation

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Each year a Regional Metrology Organisation, selected on a rotating basis and usually approved by the JCRB Meeting, consults its members and identifies a National Metrology Institute to work together with the BIPM and the OIML on the poster design for the World Metrology Day (WMD). The team for the WMD-2016 was selected following this chain: COOMET – Russian Federation – Rosstandart – VNIIMS. The project was fulfilled by VNIIMS last December. So, we started the WMD-2016 in 2015. The poster has three logos – BIPM, OIML and VNIIMS.

In May 17-19, 2016, at Moscow's VDNKh Exhibition Center the 12th Moscow International Innovative Forum and the Trade Show «Accurate Measurements – the Basis of Quality and Safety» -2016, dedicated to the World Metrology Day (WMD), took place. The Innovative Forum was organized under the Government's special decree stating the holding of annual Forums dedicated to the World Metrology Day marked on May 20th. Among the Forum organizers were the Ministry of Industry and Trade of the Russian Federation, the Federal Agency on Technical Regulating and Metrology (Rosstandart). The support was also provided by the Russian Government, the Chamber of Commerce and Industry of the Russian Federation and the representatives from the CIML, CIPM, and COOMET.

At the opening ceremony of the Forum the following officials took part: **G.S. Nikitin**, first deputy Minister of Industry and Trade of the Russian Federation; **A.V. Abramov**, Head of the Federal Agency on Technical Regulating and Metrology; **K.V. Leonidov**, Director of Department of state policy on technical regulation, standardization and assurance of measurement uniformity at the Ministry of Industry and Trade; top officials **B.M. Potemkin and S.S. Golubev** from Rosstandart; **V.A. Gapanovich**, senior vice-president for innovative development – Chief engineer of JSC RZhd (Russian Railways); **A.N. Lotsmanov**, first deputy Head of the Committee of the Russian Union of Industrialists and Entrepreneurs (RSPP) for technical regulation, standardization and conformity assessment; **V.N. Krutikov**, COOMET President; **D.A. Kuznetsov**, deputy director of the Department of state policy in technical regulation, standardization and assurance of measurement uniformity of Minpromtorg of Russia; **R.A. Rodin**, Head of Department of Metrology of Rosstandart; **I.G. Zimin**, Head of the Forum directorate and representatives of major enterprises and research institutions, Metrological Institutes and state Regional Centres for Standardization, Metrology and Tests, and others.

Gleb Nikitin gave a welcome address, saying that "All aspects of industrial development in our country are connected with measurements. The industrial progress is in principle impossible

without the infrastructure which ensures measurement accuracy, which is so much important since it provides the basis of trust between and among players. Only based on confidence can technology transfer and implementation of new developments be realized”.

There were 5 specialized exhibitions held within the Forum. These are:

MetrolExpo-2016 – 12th Exhibition of measuring instruments and metrological support;

Control&Diagnostics-2016 – 5th Exhibition of industrial equipment and devices for technical diagnostics and expertise;

ResMetering-2016 – 5th Exhibition of technological and commercial accounting of power resources;

LabTest-2016 – 4th Exhibition of analytical devices and laboratory equipment of industrial and scientific designation;

PromAutomatic-2016 – 4th Exhibition of software and equipment for industrial automation.

The Exhibition sections had a business program consistent with **the First All-Russia Congress of Metrologists and Instrument-Makers** held under the motto «Measurements in a Dynamic World». Within The Congress conducted:

- **a plenary session** «State and perspectives of the development of metrology and instrument- making industry»
- **discussion of industrial metrology issues** in three sections:

High-accuracy measurements in radio engineering and radio electronics, optico-physical measurements

Uniformity of measurements and industrial metrology; control instrumentation and automatics; test diagnostic equipment

Industrial metrology, quality infrastructure, accounting of power resources

- **Round tables and workshops** with representatives of the companies, participants in the Exhibition

The main objectives of the Forum are as follows:

Establishment of an international platform for communication and promotion in the field of cooperation in the Russian Measurement System (RMS) in order to meet the needs of the country and society in high-precision measurements;

Consolidation of efforts in developing domestic instrument-building;

Increasing the effectiveness of the RMS;

Improvement of normative documents in the field of metrology and instrumentation with consideration of modern international trends.

All these can help generate financial mechanisms to support and promote innovations.

The objective of the Congress was presented in the Program which was aimed at facilitating constructive dialogue between manufacturers and consumers of measuring instruments, demonstration of achievements of innovating engineering, and ~~at expose the necessity of~~ good coordination of all activities in instrument engineering.

The Plenary session of the First Congress of Metrologists and Instrument-Makers was headed by CIML Member Dr. Sergey Golubev, Rosstandart Deputy Head; Dmitry Kuznetsov, Deputy Director of MIT Department, responsible for metrology; COOMET President Prof. Vladimir N. Krutikov; CIPM Member Dr. Fyodor Bulygin; Prof. Alexander Yu. Kuzin, VNIIMS Director; and CIML Member of Honour Lev K. Isaev, Vice-president of the Metrological Academy.

The main event at the Plenary Session was a speech made by the Deputy Head of Rosstandart Sergey Golubev. It was an extensive report on the Strategy on Development of Assurance of Measurement Uniformity System in the Russian Federation: 2025.

The infrastructure of the Russian Measurement System, as part of the Global System, will get further development both in terms of material and managerial aspects. More attention will be paid to the challenges of legal metrology, including the State metrological control, to monitoring of the actual state of assurance of measurement uniformity especially in the fields covered by State government regulation. The key and supplementary comparisons of the National measurement standards within the framework of the CIPM MRA and traceability problems (because there exist two approaches – one is through calibration and the other through verification, the latter is traditional in Russia) are additional areas for investigation. Other important tasks are concerned with the transfer of measuring technologies to industry. The presented Strategy is supposed to be adopted by the Government soon.

Another issue discussed at the Session was interaction between metrology and instrument-making industry. The Congress accepted the corresponding Resolution. The Congress of Metrologists and Instrument-Makers is an authoritative All-Russian Conference on ensuring the uniformity of measurements. It was decided to convene the Second Congress next year, as an event to mark the next WMD. The moderators at the Congress and the Discussion panels were the heads of federal ministries, agencies and institutions. The audience, which numbered well over 1200, included representatives of different organizations of Russia:

- The Ministry of Energy
- The Ministry of Internal Affairs
- Federal Space Agency
- Federal Environmental, Industrial and Nuclear Supervision Service
- State Atomic Energy Corporation

- Russian Technologies State Corporation
- Russian Corporation of Nanotechnologies
- Russian Railways (RZhD)
- Russian Engineering Union etc.

The Forum three days' work was covered by 5 TV companies (VGTRK, TV-Centre, RZD-TV, InterFax, Business of Moscow) and more than 40 specialized mass media.

The final day of the Forum, May 19th, witnessed awarding ceremonies praising the winners in the All-Russian Exhibition Competition Program «For Uniformity of Measurements»-2016. The winners were chosen by the Commission for Competition of «Rostest-Moscow».

The objective of the contest was certification of different types of measuring instruments – devices and equipment for diagnostics, testing and analysis – to conform their high metrological characteristics and quality, as well as rewarding of the most interactive booths and active participants of the Congress of Metrologists and Instrument-Makers.

The following top executives took part in the awarding ceremony: Sergey Golubev from Rosstandart, Dmitry Kuznetsov from the Ministry of Industry and Trade, Igor Zimin, Head of the Forum directorate, A.B. Puchkov, Exhibition Director. Among those present were representatives from different companies – participants of the Forum and Exhibition, directors of Russian Metrology Institutes and Regional Centres for standardization, metrology and testing, and others.

The Competition Commission, based on the conclusions of experts from «Rostest-Moscow», assigned the “Quality Mark” to 22 measuring instruments, 52 competitors were awarded with Gold Medals, and 5 with Platinum Medals.

Diplomas were awarded to 45 Regional Centers and 7 Metrological Institutes for their active participation in the Exhibition program of the Forum.

In his closing speech, Deputy Head of Rosstandart Sergey Golubev congratulated everybody on the coming World Metrology Day, and wished good luck and dynamic development.

OFFICIAL SITE OF THE FORUM

www.metrol.expoprom.ru