

## XXVI International Chugaev Conference on Coordination Chemistry and VII International Symposium "Design and Synthesis of Supramolecular Architectures"

The XXVI International Chugaev Conference on Coordination Chemistry was held on October 6 to 10, 2014, in Kazan. The Conference was organized by the N. S. Kurnakov Institute of General and Inorganic Chemistry of the RAS, A. E. Arbuzov Institute of Organic and Physical Chemistry of the RAS, and Kazan (Volga Region) Federal University with participation of the D. I. Mendeleev Russian Chemical Society and Scientific Council of the RAS for Inorganic Chemistry and was supported by the Government of the Tatarstan Republic and the Russian Foundation for Basic Research.

The Conference was devoted to 170 years of the discovery of ruthenium, the only chemical element of the Periodic Table discovered in Russia, by Karl Claus, Professor of Kazan University. This anniversary fitted well in the series of events dedicated to 210-year anniversary of Kazan University in which the world known Kazan chemical school was formed and developed and to 80-year anniversary of the N. S. Kurnakov Institute of General and Inorganic Chemistry of the RAS.

More than 200 reports were presented at the Conference by scientists from Russia, Azerbaijan, Belarus, France, Germany, Italy, Israel, Kazakhstan, Kyrgyzstan, Mexico, Moldova, Portugal, Tadjikistan, UK, Ukraine, and Uzbekistan.

The Conference was attended by 450 scientists, including more than 20 members of Academies of Sciences of Russia and Ukraine and more than 250 Doctors of Science and Ph.Ds. The III Youth Workshop Conference "Physicochemical Methods in the Chemistry of Coordination Compounds", in which young scientists presented more than 50 oral reports and 105 posters, was held at the Chugaev Conference.

Plenary lectures at the Chugaev Conference were delivered by prominent Russian and foreign scientists. The subject matter of the presented reports covered important issues such as new methods for the synthesis of coordination compounds; complex formation mechanisms and intermediates; theoretical aspects of the coordination chemistry; structure and properties of coordination compounds; reactions of ligands in the inner coordination sphere of metal complexes; catalysis by metal complexes; bioinorganic and supramolecular chemistry; and coordination chemistry of ruthenium.

The Conference was accompanied by the VII International Symposium "Design and Synthesis of Supramolecular Architectures", which was devoted to the vigorously developing chemistry of supramolecular compounds and assemblies and to related areas: nanotechnology and design of new

materials. The Symposium program included plenary and invited lectures, oral reports, and posters. Short oral communications were presented by young scientists and a poster session was held. The reports of young scientists were evaluated by a commission.

The Symposium covered the fundamental and applied problems of supramolecular chemistry, which are studied most intensively both in Russia and abroad. The key functions of supramolecular structures include molecular recognition, chemical interaction, and transport of substrate molecules. In combination with polymolecular assembly, this opens up the way to the design of data processing and storage devices and signal generation devices functioning at the molecular level (molecular wires, switches, sensors, and so on). Calixarene chemistry received a lot of attention at the Symposium. It is noteworthy that the number of publications in this field doubles every three years. The number of patents also increases, which clearly indicates that the interest in these compounds is not purely academic and theoretical but also practical.

The Symposium was attended by 130 Russian and foreign scientists from the major research centers developing the studies in supramolecular chemistry. The Russian supramolecular chemistry school was represented by top researchers from almost all research centers engaged in supramolecular chemistry problems: Moscow, Kazan, Novosibirsk, St.-Petersburg, Ekaterinburg, Ufa, Ivanovo, and Chernogolovka. The plenary lectures were delivered by prominent foreign scientists and Russian specialists, in particular, Professor M. W. Hosseini (Université de Strasbourg, France); Professor M. Schröder (University of Nottingham, UK), Professor Hans Jörg Schneider (Saarbrücken, Germany), Corresponding Member of the RAS I. S. Antipin, and Corresponding Member of the National Academy of Sciences of Ukraine V. I. Kal'chenko (Kiev, Ukraine). The invited reports were presented by Academician A. I. Konovalov, Professors A. Varnek, S. Ferlay, V. Bulach, and J.-M. Planeix (Strasbourg, France), Corresponding Member of the RAS S. P. Gromov (Moscow), and Professors O. A. Fedorova, S. Yu. Zaitsev, and S. Z. Vatsadze (Moscow). Also, 18 oral reports and 99 posters were discussed.

The papers based on proceedings of the XXVI International Chugaev Conference on Coordination Chemistry and the VII International Symposium "Design and Synthesis of Supramolecular Architectures" are being published in the journals *Russian Chemical Bulletin* (No. 8 and No. 10, 2015) and *Russian Journal of Inorganic Chemistry* (No. 7, 2015).