

Il'ya Iosifovich Moiseev (to his eightieth anniversary)

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March 15, 2009 is the 80th birthday of Il'ya Iosifovich Moiseev, Academician of the Russian Academy of Sciences, Professor of the Gubkin State Academy of Oil and Gas, scientific leader of the Laboratory of Metallocomplex Catalysis of the Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, an outstanding scientist in the area of physical and coordination chemistry.

The fundamental investigations of I.I. Moiseev in the field of homogeneous metallocomplex catalysis, coordination chemistry of transition metals, and the mechanisms of liquid-phase reactions are widely known. The key role belongs to his classical works on the synthesis and study of the palladium coordination compounds. Unique and nowadays widely used all over the world principles for design of catalytic systems have been developed on the basis of these works. In particular, the modern processes for the production of

acetaldehyde and vinyl acetate from ethylene (this reaction was named after Moiseev), allyl acetate from propylene, and formic acid from CO and water were created on this foundation. He also conducted classical studies on the kinetics and mechanism of industrially important catalytic reactions of acetylene hydration, oxidation, oxidative esterification, and epoxidation and isomerization of olefins.

I.I. Moiseev synthesized for the first time the class of nanosized gigantic palladium clusters and found their catalytic activity in the industrially significant reactions of oxidative acetoxylation, carbonylation, hydrogenation, isomerization, and disproportionation. His studies provided new approaches to the activation of small molecules, and he discovered the new methods for the selective oxidation of alkenes and alkanes and synthesis of anhydrides by the oxidative dehydration of carboxylic acids. The new homogeneous catalytic reac-

tion of hydrogen peroxide transformation into ozone was discovered and the mechanism of reactions of hydroperoxide oxidation of anthracene, alkenes, and perfluoroalkenes and molecular nitrogen to nitrous oxide was determined under the leadership of I.I. Moiseev.

I.I. Moiseev founded the Institute of Fundamental Problems of Chemical Processing of Natural Gas at the Gubkin State Academy of Oil and Gas, where new efficient catalysts for ethylene, carbon oxide, and hydrogen production from methane were proposed and methods for the protection of fuels and oils from oxidation using metallocomplex additives were developed.

I.I. Moiseev is an author of more than 570 scientific works, including fundamental monographs " π -Complexes of Palladium in the Liquid-Phase Oxidation of Olefins" and "Inhibition of Chain Oxidation by Metal Complexes" and more than 80 author's certificates of the USSR and foreign patents.

I.I. Moiseev actively participates in teaching of highly qualified specialists and performs lecture courses at the Gubkin State Academy of Oil and Gas. He also worked as an invited professor in universities of Italy, the Netherlands, and Germany. He educated tens of candidates and doctors of science, and his scientific school occupies leading positions in the Russian and world science. He permanently performs plenary lectures at the international and all-Russia conferences on catalysis, coordination chemistry, and carbene chemistry. I.I. Moiseev is a member of the International Coun-

cil of the International Symposia on Homogeneous Catalysis and International Conferences on Organometallic Chemistry. I.I. Moiseev is the Deputy Editor-in-Chief of the "Kinetics and Catalysis" journal and a member of editorial boards of several most authoritative journals. From 1988 to 2006 he was the Deputy Editor-in-Chief of "Russian Journal of Coordination Chemistry."

I.I. Moiseev carries out a considerable scientific organization work. He is the Vice-President of the Mendeleev Russian Chemical Society, the scientific leader of the Institute of Fundamental Problems of Chemical Processing of Natural Gas at the Gubkin State Academy of Oil and Gas, and the supervisor of the Program of Basic Research of the Presidium of the Russian Academy of Sciences "Chemical Aspects of Power Engineering."

I.I. Moiseev was awarded the State Prize of the Russian Federation in the area of science and technology, A.P. Karpinskii Prize, Triumf Prize, the Major Prize of the MAIK "Nauka/Interperiodika," the Silver Metal of the Royal Chemical Society (Great Britain), and the right to perform a cycle of lectures "Century Lecture" at the universities of Great Britain. He was selected as Academician of the Academia Europaea (London), Academia Scientiarum et Artium Europaea (Vienna), and Academy of Sciences, Arts, and Literature (Paris).

The editorial board and editorial office of the Journal heartily wish Il'ya Iosifovich good health and further creative success.