

Il'ya Iosifovich Moiseev Is 80

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On March 15, 2008, Il'ya Iosifovich Moiseev, a full member of the Russian Academy of Sciences, Professor of the Gubkin State University of Oil and Gas, Scientific Supervisor of the Laboratory of Metal Complex Catalysis at the Kurnakov Institute of General and Inorganic Chemistry (Russian Academy of Sciences), and Deputy Editor-in-Chief of the journal *Kinetika i Kataliz*, celebrated his 80th birthday.

Moiseev is known worldwide, a great name in physical and coordination chemistry and one of those who laid the foundations of present-day metal complex catalysis. The main areas of his research are homogeneous catalysis, the coordination chemistry of transition metals, and mechanisms of liquid-phase reactions. His name is associated with pioneering works in homogeneous catalysis by transition metal compounds.

Moiseev was the first to synthesize a number of novel coordination compounds (π -allyl complexes) and various cluster compounds, including giant clusters and heterometallic complexes of palladium and platinum. He has developed original principles of catalytic system design, which are used worldwide today, and, based on these principles, has created high-efficiency catalysts for hydrocarbon oxidations. He has discovered selective alkene and alkane oxidation reactions, low-temperature alcohol dehydration via a carbene mechanism, the oxidative dehydration of carboxylic acids, and the homogeneous catalytic conversion of hydrogen peroxide into ozone. He has carried out classical studies in the kinetics and mechanisms of commercially important catalytic reactions, namely, acetylene hydration and olefin oxidation, oxidative esterification, epoxidation, and isomerization.

The works of Academician Moiseev have provided a basis for the modern vinyl acetate and acetaldehyde synthesis technology by ethylene oxidation; for formic acid synthesis from CO and water; and for the environmentally friendly synthesis of 2-ethylanthraquinone, the key component of the catalytic system used in hydrogen peroxide production from hydrogen and oxygen.

Moiseev is the author of over 500 scientific works, including the fundamental monographs *π -Kompleksy palladiya v zhidkofaznom okislenii olefinov* (Palladium π -Complexes in Liquid-Phase Olefin Oxidations) and *Ingibirovanie tsepnogo okisleniya kompleksami metallov* (Inhibition of Chain Oxidation by Metal Complexes), and a holder of 80 inventor certificates and patents. The scientific school founded by Moiseev has



educated a large cohort of highly skilled specialists. Moiseev himself has been the supervisor of dozens of candidates of sciences and doctors.

Moiseev is an active science manager. He is Vice-President of the Mendelev Russian Chemical Society, Scientific Supervisor of the Research Institute of Fundamental Problems of Natural Gas Processing at Gubkin State University of Oil and Gas, and Manager of the Fundamental Research Program "Chemical Aspects of Power Engineering" of the Presidium of the Russian Academy of Sciences.

Moiseev is an active member of the editorial boards of leading Russian and foreign journals. He is Deputy Editor-in-Chief of *Kinetika i Kataliz* (*Kinetics and Catalysis*) and a member of the editorial councils of the journals *Doklady Akademii Nauk*, *Uspekhi Khimii*, *Koordinatsionnaya Khimiya* (*Russian Journal of Coordination Chemistry*), *Mendelev Communications*, *Journal of Molecular Catalysis*, *Catalysis Letters* and *Topics in Catalysis*, *Chemical Technology*, and the Cen-

tral European Journal of Chemistry and a member of the advisory boards of the International Symposium on Homogeneous Catalysis and the International Conference on Organometallic Chemistry.

Moiseev's contribution to science is highly esteemed by the world scientific community. The scientist was elected Full Member of Academia Europaea (London); Academia Scientiarum et Artium Europaea (Vienna); and the Academy of Sciences, Arts, and Literature (Paris). He is constantly invited to deliver plenary lectures at international and all-Russia confer-

ences on catalysis, coordination chemistry, organoelement chemistry, petroleum chemistry, and carbene chemistry. He is the Centenary Lecturer of the Royal Society of Chemistry (United Kingdom). He was awarded the State Prize of the Russian Federation, the Karpinskii Prize, and the Triumph Prize and Silver Medal from the Royal Society of Chemistry.

The editorial board of *Kinetika i Kataliz* and Moiseev's colleagues heartily congratulate this scientist on his 80th birthday and wish him sound health and great success in his creative work.