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### Alexander Dmitrievich Garnovskii On the occasion of your 75th birthday

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## Alexander Dmitrievich Garnovskii On the occasion of your 75th birthday



- Born on August, 30, 1932.
- Dr Habilitation (“*Doctor in Chemical Sciences*”) 1972.
- Professor of the Rostov State University since 1974.
- Head of the Department of the Chemistry of Coordination Compounds of the Research Institute of Physical and Organic Chemistry of Rostov State University.
- Full Member of the Russian Academy of Natural Sciences and New York Academy of Sciences.
- Recognized Russian chemist (citation index for 1986–2007 is 2911).
- Laureate of State Award (1989).
- Chugaev’s Award of Russian Academy of Sciences (2003).
- Author of more than 800 publications including 11 monographs and 69 reviews.
- Valued member of the Editorial Board of the *Journal of Coordination Chemistry*.

As a specialist in coordination and heterocyclic chemistry, Professor Garnovskii has generated and systematized ideas on the types of organic ligand systems and metal complexes, as well as methods for their synthesis [1, 2].

He has developed a rational design of acyclic (Schiff bases of  $\beta$ -aminoketones [3–5]) and cyclic (azoles and azines [6–8]) azomethine ligands. In this work, N-, O-, S-, Se- and Te-donor centers and their combinations were varied, as well as aliphatic, aromatic,

heterocyclic substituents and analogous fragments at the C=N bond, annelated to chelate-forming groups. Taking into account the nature of metal salts or zero-valent metals and conditions of synthesis (chemical or electrochemical, different solvents) allowed regio- and stereo-controlled synthesis of five or six-membered *trans*- (N,N and N,O) and *cis*-planar (N,S), tetrahedral (N,N and N,O), penta- and hexa-dentate (N,N,N; N,N,O; N,O,O; N,N,S; N,N,Se; N,N,Te; N,O,S; N,O,Se and N,O,Te) structures.

On the basis of the Principle of Hard and Soft Acids and Bases (R. Pearson, USA), he formulated and widely used the concept of competitive coordination to explain a variety of coordination modes of metals in complexes of hard and soft ligands with N, O, S, Se, and Te donor centres [1, 9]. He offered and developed ideas on standard and non-standard coordination modes of chelating ligand systems and stabilization of uncommon tautomeric forms of ligating systems (azomethines and azoles) under complexation with metals [10, 11]. He has elaborated a new approach in search and creation of magneto-active [12] and luminescent [13] metal complexes of azomethine and azole ligands. He has carried out a series of investigations on synthesis of coordination compounds under conditions of interfacial friction (tribochemical synthesis) and, on this basis, obtaining patented effective additives for lubricant materials [1].

Under Professor Garnovskii's supervision, 3 Dr Hab. and 32 PhD theses have been successfully presented. He lectured on coordination and physical chemistry for graduate and post-graduate students of the Department of Chemistry of Rostov State University and his lectures on coordination chemistry were invited at universities of USSR and Russia (Moscow, Leningrad, Kiev, Tbilisi, Baku, Tashkent, Kishinev) and abroad: in Germany (Berlin, Dortmund), Spain (Santiago de Compostela), Slovakia (Bratislava), Poland (Warsaw), Mexico (Monterrey), North Korea (Pyongyang) and Turkey (Erdene).

He is co-author of the textbook "*Coordination Chemistry*" and editor of the Russian version of a monograph J.W. Steed, J.L. Atwood "*Supramolecular Chemistry*", Chichester: J. Wiley. 2002. Scientific consultant of special issues of the Russian Chemical Journal and author of publications in "*Chemical Encyclopedia*" dedicated to problems of coordination chemistry.

Numerous original articles of A.D. Garnovskii are cited in the following main publications.

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