

International Conference “Corrosion and Scale Inhibitors. To the Memory of I.L.Rozenfeld”

The 100th anniversary of I.L.Rozenfeld, one of the creators of corrosion inhibitor science, will occur on August 22, 2014.

I.L.Rozenfeld belongs to the generation of physicochemists who created the foundations of corrosion and metal protection science. His contribution to the resolution of many practical corrosion-related issues is hard to overestimate. A special place in his studies belonged to the theory and practice of metal protection by inhibitors. Problems of corrosion inhibitors were the subject of his doctoral dissertation that later formed the basis of his monograph titled “Metal corrosion retardants in neutral media,” the first one in the world literature, which even now remains one of the best books on the subject.

I.L.Rozenfeld was among the first to understand the importance of metal corrosion protection by inhibitors that become ever more important from year to year in various fields of technology. His studies on the mechanisms of action of inorganic corrosion inhibitors resulted in development of scientific foundation of their application in various aqueous systems and for protection of metals from atmospheric corrosion. I.L.Rozenfeld was also the first to check the idea of combined protection of metals involving simultaneous use of corrosion inhibitors and metal cathodic polarization. It is still relevant now that ecological restrictions dictate the necessity of developing an anti-corrosion method with minor concentrations of corrosion inhibitors.

Much success was also gained under the guidance of I.L.Rozenfeld in the creation of efficient volatile inhibitors of atmospheric corrosion and in studies on mechanisms of their action. Considerable attention in these studies was also given not only to a search for inhibitors with predefined properties but also to development of ingenious methods and forms of their application. As a result, new classes of versatile volatile inhibitors were created that provide efficient protection of a broad range of ferrous and non-ferrous metals.



I.L.Rozenfeld always paid much attention to the creation of inhibitors capable of protecting oilfield equipment in hydrogen sulfide containing environments from corrosion, hydrogen absorption, and stress corrosion fracture. He was among the first to notice an important feature of the action of hydrogen sulfide corrosion inhibitors, namely, their effect on the structure and growth of iron sulfide films, *i.e.*, modification of the sulfide film by inhibitors. These studies played a significant role in the shaping of contemporary concepts on steel protection from hydrogen sulfide corrosion.

I.L.Rozenfeld was one of the pioneers in studies and developments on inhibited polymer coatings. New electrochemical methods for determination of the properties of paint coatings were developed under his leadership. Studies on improvement of their protective properties by means of inhibitors were successfully carried out.

I.L.Rozenfeld was given the Willis Rodney Whitney Award and was elected a member of the Saxonian Academy of Sciences for his outstanding achievements and development of corrosion science.

A vast scientific heritage remained after I.L.Rozenfeld. He has published over 250 scientific papers, eight monographs translated into many languages, and 38 author's certificates. He prepared scores of scientists who successfully continue to develop his scientific ideas.

I.L.Rozenfeld was a broadly educated person with phenomenal working ability. He demanded much of himself and of his colleagues who highly valued and respected him as a prominent scientist and person.

The Frumkin Institute of physical chemistry and electrochemistry (where I.L.Rozenfeld has been working from 1946 to 1980), in collaboration with Gubkin Russian State University of Oil and Gas, will hold international conference "Corrosion and Scaling Inhibitors. To the Memory of I.L.Rozenfeld" in Moscow, October 14 – 17, 2014, dedicated to his 100th anniversary. The International Journal of Corrosion and Scale Inhibition (IJCSI) provides informational support of the Conference and invites its readers to participate in it.

The conference will cover all aspects of the theory and practice of metal protection by inhibitors. The working languages of the Conference are Russian and English. It is planned to issue the conference materials in printed and electronic form. Some of the materials will be published in IJCSI. Abstracts of presentations no larger than one page, containing neither drawings nor list of references, shall be submitted before May 30, 2014. Full-text versions of the presentations shall be submitted before August 30, 2014. The formatting requirements are similar to those for papers submitted to IJCSI. Please send all materials shall be sent to iccsi@mail.ru. The arrangement fee for participation in the conference is 150 USA Dollars.

On behalf of the Editorial Board: Yu. I. Kuznetsov, N. N. Andreev and S. S. Vesely