

In Memoriam

Yuriy Borisovich Paderno (1932–2005)



This issue of the *Journal of Solid State Chemistry* containing the proceedings of the 15th International Symposium on Boron, Borides and Related Materials is dedicated to the memory of Professor Yuriy B. Paderno, late Head of the Rare Earth Refractory Compounds Laboratory in the I.N. Frantsevich Institute for Problems of Materials Science of the Academy of Sciences of the Ukraine in Kiev. Yuriy Paderno died on May 12, 2005.

Born on September 3, 1932, in Shchurovo, Moscow region, Russia, Yuriy Paderno graduated in Physics from the Kiev Polytechnic Institute in 1955, and in the same year he joined the Institute for Problems of Materials Science of the Academy of Sciences of the Ukraine. There he worked for more than 50 years, earned his doctoral degree in Technical Sciences in 1962, and became Head of the Rare Earth Refractory Compounds Laboratory in 1970.

Objects of his wide field of scientific work were the synthesis of compounds, thin-film technology, crystal and electronic structure, and physical and chemical properties and application of alkali and rare earth metal borides and of the borides, carbides and silicides of transition metals. During the last years his main interest was the single-crystal growth of refractory compounds and directional crystallization of eutectic composite nonoxygen ceramic materials. In connection with the preparation of single

crystals of the highest quality, for which Yuriy Paderno's group is well-known worldwide, during the last years he took a particular interest in solving the fundamental question of structural defects, which play an important role in boron compounds, and their influence on the solid state properties.

Yuriy Paderno was the author and co-author of more than 500 scientific publications, including 6 monographs and reference books. His collaboration in many national and international projects was highly regarded. He received various important national awards. As early as 1968 he was appointed a member of the International Scientific Committee of Boron, Borides and Related Compounds, and in 1997 he became Honorary Professor of the Shandong Technical University in Jinan, China.

We have lost an outstanding scientist and excellent partner in national and international cooperation. Everyone who knew Yuriy Paderno will have pleasant memories of his kind, reliable, and straightforward personality.

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