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Publisher *Taylor & Francis*

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## International Journal of Polymeric Materials

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713647664>

## The Workshop on Prediction and Insurance of the Capacity for Work of Polymeric Materials

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**To cite this Article** Zaikov, G. E. and Polishchuk, A. Ya.(1994) 'The Workshop on Prediction and Insurance of the Capacity for Work of Polymeric Materials', *International Journal of Polymeric Materials*, 27: 1, 105 – 106

**To link to this Article:** DOI: 10.1080/00914039408038297

**URL:** <http://dx.doi.org/10.1080/00914039408038297>

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## The Workshop on Prediction and Insurance of the Capacity for Work of Polymeric Materials

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*(Received June 10, 1994)*

The Workshop on Prediction and Insurance of the Capacity for Work of Polymeric Materials was held on December 7, 1992 in Moscow. The Workshop was organized by the “Polysert” Centre of Institute of Chemical Physics (ICP) of the Russian Academy of Sciences (this is now Russian Academy of Sciences) together with Russian House of Knowledge, Moscow Institute of Aviation Technology (MIAT) and “Plastic” State Company. About 150 participants represented 20 Research Centres of the former USSR.

Opening remarks of the Chairman of Workshop Professor V. Vinogradov (MIAT) dealt with problems which would be proposed to discuss. He emphasized high level of present theory of aging of polymers, huge amount of experimental data, and good facilities for modern study of this problem. All of this is the basis for high-quality research of the problem of Prediction and Insurance of the Capacity for Work of Polymeric Materials.

Professor Vinogradov indicated that the main aims of Workshop were communication between organizations, discussion of problems should be solved, and financial aspects of providing of scientific research.

The lecture of Professor Karpukhin concerned with the scientific development of the certification of quality of polymeric materials. The importance of such certification is caused by the wide variety of application of polymers and corresponding problems of ecology.

To ensure the solution of aforesaid problem the database system regarding materials and compounds was developed in the Centre of Synthetic Materials and reported by Doctor Papirova.

Dr. A. Pomerantsev (ICP) informed about facilities of personal computers and their applications for study of physicochemical processes of aging. Dr. Pomerantsev described the system of “Kinetic Trunk” which enable to interpret kinetic measurements, to select typical kinetic, mechanical, and diffusive models, to estimate unknown parameters, to analyze statistical data, etc.

Dr. Goncharenko (MIAT) described new approach to estimation of quality of polymeric materials, while new physical methods of evaluation of quality and certification of non-metallic materials were reported in the lecture of Dr. Kvacheva (Institute of Aviation Industry).

The effect of the technological stress on the capacity for work of polymer articles was considered in the lecture of Professor Vinogradov.

Dr. Sudarushkin made information about new technological equipment, which provides high level of quality of plastic goods.

New methods of estimation and prediction of the light stability of plastics were reported in details in lectures of Dr. Belikov and Dr. Almaeva from "Plastic" State Company.

The cooperative effect of stress and liquid aggressive media on the high density polyethylene was described by Professor Valiotti ("Plastic").

The results of climatic tests of the wide variety of polymeric and textile materials were generalized in the lecture of Dr. Anisimova (Moscow Textile Academy).

Besides lectures mentioned above other ones also are represented in proceedings of Workshop.

Participants of the Workshop reached some conclusions which were based on the discussion of problems of prediction of the capacity for work of polymeric materials.