SIBERIAN AEROSOLS

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Dear colleagues, this issue has been prepared based on materials of the 15th Siberian Aerosol Workshop devoted to the 100th anniversary of the Mie theory, which is the basis for the majority of works on optics of aerosol up to now.

Historical reviews were presented at the workshop along with present-day achievements concerning problems of femtosecond radiation with a discrete medium.

In view of the development of works on nanoparticles, a surge in interest in new methods for their diagnostics and the calculation of compound particles, including those with an internal ordered structure, was noted. At the same time, the participants noted that the use of previously developed calculation methods for such objects can result in a dubious conclusion in experimental data interpretation without understanding the ranges of their applicability.

Recently, living systems have become of growing interest. At the workshop, a number of biology reports were presented among works on aerosol–gas bonds. In this connection, we plan to add a new line, “Environmental Chemistry, Aerosol–Gas Bonds, Biota and Its

Influence on Atmospheric Processes,” in the work of the following workshop in 2009.

It is necessary to note that the development of the Siberian Branch, Russian Academy of Sciences integration projects promoted the cooperation of many research groups working in different fields. Hence, the effective work of round tables on the projects’ subjects was organized within the 15th Siberian Aerosols Workshop.

Among the positive trends in our work, we should note an increasing number of young participants and oral reports presented by young scientists.

Another positive moment is an increase in the number of papers of a high scientific level presented for this topical issue. Constraints on journal volume do not allow for the publishing of all of the appreciated papers. But I pledge that they will be published in the next issues of 2009.

I hope that our informal research community joined by the Siberian Aerosols Workshop will keep a constructive job climate in the future.

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