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Foreword

During the week of June 1-5, 1998, an International Symposium entitled Space Plasma Studies by In-Situ and Remote Measurements was held in Moscow. The meeting was organized by the Space Research Institute of the Russian Academy of Sciences and sponsored by the Russian Foundation for Basic Research, the Max-Planck Institut für Aeronomie, the United States Air Force European Office of Aerospace Research and Development, and the Copernicus Gesellschaft e.V.

The Symposium was dedicated to the 80-th anniversary of the birth of Prof. K.I. Gringauz, who was a pioneer of in-situ space plasma studies and who discovered the Earth's plasmasphere and the solar wind (see opening paper).

The program committee for the Symposium included space plasma specialists of six countries: Galeev A.A. - chair, Axford W.I., Baranov V.B., Gombosi T.I., Lemaire J., Luhmann J., Ness N.F., Panasyuk M.I., Riedler W., Rosenbauer H., Slavin J., Szego K., Verigin M.I., Yeroshenko Ye.G., and Zelenyi L.M.

The local organizing committee of the Symposium was formed mainly of staff members of the host institution: Verigin M.I. - chair, Afatkina I.N., Afonin V.V., Antonova E.E., Breus T.K., Burinskaya T.M., Yermolaev Yu.I., Gdalevich G.L., Klimov S.I., Kotova G.A., Sorokina T.M., and Vaisberg O.L.

The main aim of the Symposium was to provide a wide forum for Russian and Western specialists to discuss the state of the art in our knowledge of the solar system plasma, current trends in the development of new tools to study plasma in space, and future perspectives of space plasma physics in the XXI century.

Approximately 150 participants attended and some 100 oral contributions were presented. The talks were based on space/in-situ and ground/remote based plasma measurements, and on the results of theoretical analysis. The program of the Symposium covered the following topics:

- Magnetospheric plasma processes and structures;
- Ionosphere / inner magnetosphere studies;
- Physical processes in the solar wind;
- Solar wind interaction planets and comets.

About 40% of talks are included in the present volume.

Last but not least, we would like to thank the following colleagues for serving as referees of one or more of the papers:

V. Afonin	S. Klimov	I. Prutensky
E. Antonova	N. Kontor	A. Sadovski
E. Belen'kaya	G. Kotova	V. Stolpovsky
V. Bezrukikh	A. Kropotkin	O. Trubachev
T. Burinskaya	V. Kurt	L. Tverskaya
M. Deminov	S. Kuznetsov	M. Verigin
A. Dmitriev	N. Lotova	I. Veselovsky
N. Erokhin	S. Markovski	Yu. Yermolayev
Yu. Galperin	Yu. Mikhailov	Ye. Yeroshenko
G. Gdalevich	N. Nikolayeva	G. Zastenker
E. Gorchakov	N. Pissarenko	L. Zelenyi

Chair of the Program Committee

A.A. Galeev

Chair of the LOC

M.I. Verigin