

10th International Seminar "Low-frequency wave processes in space plasma"

First Announcement

General Information

10th International Seminar "Low-frequency wave processes in space plasma" will be held on the base of boarding house Zvenigorod of RAS (Russian Academy of Sciences) from 12 to 15 November 2007. This Seminar is a continuation of the series of seminars devoted to studies of low-frequency wave phenomena held since 1968. Up to 1991, the Seminar was an All-Union event and was carried out in different cities of the country: Moscow (1968), Kaliningrad (1973), Apatity (1974), Tbilisi (1977), Murmansk (1979), Zvenigorod (1983), Yakutiya (1985), Limanchik, Rostov on the Don (1988), Moscow (1991). One of the pioneers of low-frequency wave studies Yakov Iosifovich Likhter was the initiator and permanent driver of conducting these Seminars. He also played a large part in organizing the cooperation in satellite and ground-based low-frequency studies within the framework of Commission for the scientific collaboration of the Academies of Sciences of the former socialist countries on the complex problem "Planetary Geophysical Studies" (KAPG). The Organizing and Program Committees of the 10th Seminar include many progeny and former colleagues of Ya. I. Likhter, and one of the sessions of Seminar will be devoted to his memory.

Traditionally, the main focus of previous Seminars was the discussion of wave phenomena in VLF frequency band. The scope of the 10th Seminar is essentially enlarged to include the whole spectrum of wave events in ULF and ELF bands. The reason for this is the common electrodynamics of low-frequency wave processes, essential similarity in mechanisms of wave-particle interaction, and close experimental methods in use.

Seminar Program

The program of Seminar assumes the discussion of generation, propagation and interaction with near-Earth plasma of low-frequency (LF) electromagnetic waves in ULF-ELF-VLF frequency bands and includes the following questions:

1. Mechanisms of generation of LF emissions.
2. Propagation of LF waves and resonance phenomena in near-Earth plasma.
3. Reflection, scattering, and transformation of waves in the ionosphere and the magnetosphere.
4. Nonlinear wave processes in LF band.

5. Resonant interaction of LF waves with energetic particles.
6. Lower-frequency emissions and seismic activity: possible mechanisms of connection.
7. LF transmitter signals and LF antennas.
8. Results of satellite and ground-based low-frequency studies and planned experiments.
9. Equipment and processing methods for LF measurements.
10. Laboratory modeling of LF wave phenomena.

In the course of Seminar, review lectures on modern trends in ULF-ELF-VLF studies will be given. Also, in the framework of Seminar a contest of reports by young scientists will be held.

Organizing and Program committees of Seminar

Organizing committee

Larkina V.I. (IZMIRAN) - Chair
Shklyar D.R. (IKI RAN / IZMIRAN) - Vice-chairman
Kapustina O.V. (IZMIRAN)
Krikunova T.S. (IZMIRAN)
Legen'ka A.D. (IZMIRAN)
Osin A.I. (IZMIRAN)

Program committee

Shklyar D.R. (IKI RAN / IZMIRAN) - Chairman
Larkina V.I. (IZMIRAN) - Scientific Secretary
Balikhin M. (UK)
Burinskaya T.M. (IKI RAS)
Demekhov A.G. (IAP RAS)
Kleimenova N.G. (IPE RAS)
Kopytenko Yu.A. (SPbB IZMIRAN)
Mogilevskii M.M. (IKI RAS)
Molchanov O.A. (IPE RAS)
Mullayarov V.A. (ICP SB RAS)
Polyakov S.V. (RRI)
Pokhotelov O.A. (IPE RAS)
Rodger C.J. (University of Otago, New Zealand)
Titova E.E. (PGI KB RAS)
Trakhtengerts V.YU. (IAP RAS)

Location and accommodation

Seminar will be held in a picturesque place of the Moscow region on the shore of Moscow River in the boarding house "Zvenigorod". Participants in the Seminar will be placed (at will) in single or double rooms. The cost of stay, which includes three-time nourishment, is 1300 RUB (single room) and 1150 RUB (double room) per day. The way of getting to the boarding house will be given in the Second Announcement and also placed on the Seminar website.

Registration fee

Registration fee (which includes welcome party) is 1000 RUB for participants and 500 RUB for accompanying persons.

Working languages and presentations

During the Seminar, equal use of two working languages: Russian and English is possible, with no interpretation provided, which assumes the knowledge of both languages by all participants in the Seminar. While all oral reports may be presented in any of two languages, slides should be written in English if the report is presented in Russian. Slides should represent the content of report as fully as possible.

Registration of participants and abstracts

Please, inform the Organizing committee about your intent to participate in the work of Seminar at electronic address

vlf2007@izmiran.ru

The rules and terms of abstract presentation will be sent to potential participants in the Seminar in the Second announcement and also placed at the Seminar website

<http://www.izmiran.ru/~vlf2007>

Contacts

Electronic address: vlf2007@izmiran.ru

Website: <http://www.izmiran.ru/~vlf2007>