

International Symposium on Terrestrial Electromagnetic Environment (Hayakawa Symposium)

May 21, 2010

Organized by

**Graduate School of Informatics and Engineering,
The University of Electro-Communications**

Sponsored by

The University of Electro-Communications

Scientific Programme

Registration

09:10 a.m. – 09:55 a.m.

Opening remarks Prof. Y. Hobara

09:55 a.m. – 10:00 a.m.

Scientific Session I (10:00 a.m. – 11:30 a.m.)

Chair person: Prof. O.A. Molchanov

10:00 a.m. – 10:30 a.m.

Q-bursts generated by gamma-burst.

Prof. A.P. Nickolaenko

Senior Scientist, Dept. of Remote Sensing, Usikov, Inst. of Radio Phys. and Electronics, NAS of the Ukraine, Kharkov, Ukraine.

10:30 a.m. – 11:00 a.m.

Hypothetical consideration on the mechanism of microwave emission due to material destruction

Prof. T. Takano

Japan Aerospace Exploration Agency (JAXA) and Dept. of Electronics and Computer Science, Nihon Univ., Japan.

11:00 a.m. – 11:30 a.m.

Analysis of electromagnetic fields in inhomogeneous media by Fourier series expansion methods-The case of a dielectric constant mixed a positive and negative regions

Prof. T. Yamazaki

Dept. of Electrical Engineering, College of Science and Technology, Nihon Univ., Japan.

Tea break (11:30 a.m. – 11:45 a.m.)

Scientific Session II (11:45 p.m. – 01:15 p.m.)

Chair person: Prof. A.P. Nickolaenko

11:45 a.m. - 12:15 p.m.

ULF/ELF/VLF electromagnetic waves for precursory phenomena on the earthquakes observed at Chubu University

Prof. K. Ohta

Dept. of Electronics and Information Engineering Electrical and Electronic Engineering, Chubu Univ., Japan.

12:15 p.m.- 12:45 p.m.

Observation of ionospheric response to total solar eclipse of 22 July, 2009 at Agra

Prof. B. Singh

Professor & Head, CSIR Emeritus Scientist, Dept. of Electronics & Communication Engineering, Faculty of Engineering & Technology, R.B.S. College, Agra, India.

12:45 p.m.- 01:15p.m.

Seismo-Electromagnetics

Prof. M. Hayakawa

Emeritus professor, Advanced Wireless Communications Research Center and Research Station on Seismo Electromagnetics The Univ. of Electro-Communications, Japan.

Lunch (01:15 p.m. – 02:00 p.m.)

Scientific Session III (02:00 p.m.– 03:40 p.m.)

Chair person: Dr. M. Parrot

02:00 p.m.- 02:30 p.m.

Best of DEMETER

M. Parrot

Director of research, PI of Demeter satellite mission, Laboratoire de Physique et Chimie de l' Environnement et de l' E space (LPC2E), CNRS, Orleans, France.

02:30 p.m.- 02:50 p.m.

Mission proposal for seismo-ionospheric precursor research: ELMOS constellation

Mr. T. Kodama

Earth Observation Research Center (EORC), JAXA, Japan.

02:50 p.m. - 03:10 p.m.

Ionospheric turbulence linked to energetic seismic activity
observed by a low-altitude satellite

Prof. Y. Hobara

Dept. of Communication Engineering and Informatics, and Director of Research Station on Seismo Electromagnetics, Univ. of Electro-Communications, Japan.

03:10 p.m.- 03:40 p.m.

Seismo-electromagnetics as new field of
geoscience: Russian support of Frontier research in Japan

O.A. Molchanov

Chief Scientist, Russian Acad. of Sci, Institute of the Earth Physics; Director, R&D Center, GEOSCAN International Agency.

Tea break (03.40 pm – 03:55 pm)

Scientific Session IV (03:55 p.m.– 05:45 p.m.)

Chair person: Prof. B. Singh

03:55 p.m.-04:25 p.m.

MAGDAS project at SERC for litho-space weather

Prof. K. Yumoto

Director Space Environment Research Center (SERC), Dept. of Earth and Planetary Sciences Faculty of Sciences, Kyusyu Univ. Japan.

04:25 p.m.-04:55 p.m.

ULF electromagnetic signatures possibly associated with crustal activity

Prof. K. Hattori

Dept. of Earth Sciences, Graduate School of Sciences, Chiba Univ. Japan.

04:55 p.m.-05:15 p.m.

As to development of earthquake EM sensor system

Mr. Saito

Private Scientist

05:15 p.m.-05:45 p.m.

Winter thunderstorm activity in Japan

Prof. K. Michimoto

National Defence Academy of Japan, President of Society of Atmospheric Electricity of Japan.

05:45 p.m.-05:50 p.m.

Closing remarks

Symposium Dinner (07:00 pm – 09:00 pm) at Suihassen (酔八仙)

(Chinese restaurant in Tobitakyu)

*Limited shuttle service available between UEC and the restaurant.