

WORKSHOP AGENDA

MONDAY 5TH NOVEMBER 2007

18.30 – 22.00 : **Welcome Party at TOPAS Galeria Hotel**

TUESDAY 6TH NOVEMBER 2007

08.00 – 08.30 : **Registration**

08.30 – 08.35 : Introductory Speech
Djedi S. Widarto, Chairman of the IWSEP2007, LIPI

08.30 – 09.15 : **OPENING CEREMONY**
(Chairperson: Organizing Committee)

Welcome Address : Adi Sadewo Salatun, Chairman of LAPAN

Opening Address : Hery Harjono, Deputy Chairman for Earth Sciences, LIPI

Address : Abdul M. Masdar, President of Indonesian Association of Geophysicists

Address : Seiya Uyeda, EPRC, Tokai University, Japan

09.15 – 09.30 : Break

Keynote Speech

(Chairperson: Jacques Zlotnicki, National Scientific Research Centre, France)

09.30 – 10.00 : Present status and strategy of short-term earthquake prediction
Seiya Uyeda (EPRC, Tokai University, Japan)

10.00 – 10.30 : Seismo-electromagnetic: Review
Masashi Hayakawa (The Univ. of Electro-Communication, Tokyo)

Session-A : Space mission for early warning and monitoring earthquake

Chairperson: Jann-Yenq Liu

10.30 – 11.00 : The DEMETER mission: Objectives and first results of the statistical Analysis (Michel Parrot)

11.00 – 11.30 : The capability of COMPASS-2 space mission to study the ionosphere disturbances related to seismic, meteo and human activity (Yu.Ya Ruzhin et al.)

11.30 – 12.00 : A proposal for mini/small satellite mission for earthquake study (Koichiro Oyama et al.)

12.00 – 13.00 : LUNCH

13.00 – 14.00 : **POSTER SESSION**

Session-B: Electromagnetic monitoring-1

Chairperson: Djedi S. Widarto

- 14.00 – 14.30 : Electromagnetic investigations on volcanoes: Application to Soufrière (Guadeloupe, France) and Taal (Philippines) volcanoes (Jacques Zlotnicki et al.)
- 14.30 – 14.50 : Landslide monitoring using electromagnetic approach (Y. Tojo et al.)
- 14.50 – 15.10 : The characteristics of the geoelectric field around the Beijing area preceding Wen'An Ms5.1 earthquake (Ma Qinzhong)
- 15.10 – 15.30 : Electrokinetic effect in seismo-electric phenomena: A research of Complex Physics Group, Institute of Technology Bandung (Harry Mahardika et al.)
- 15.30 – 15.45 : Break

Session-C: Lithosphere-Atmosphere-Ionosphere Coupling-1

Chairperson: Birbal Singh

- 15.45 – 16.05 : Ionospheric preseismic perturbations observed for Mediterranean Earthquakes of 1999 – 2001 (Irina E. Zakharenkova et al.)
- 16.05 – 16.25 : Ionospheric effect of earthquakes as determined from ground based TEC measurement and satellite data (Vikram Singh et al.)
- 16.25 – 16.45 : A morphological study of Total Electron Content from GPS data and it's variation with magnetic storms and earthquakes (Vishal Chauhan et al.)
- 16.45 – 17.05 : Spatial distribution of ionospheric disturbances observed by GPS-TEC and NmF2 prior to large earthquakes (M. Nishihashi et al.)
- 17.05 – 17.25 : Anomalous variation in Total Electron Content (TEC) associated with earthquakes (Om Prakash Singh et al.)

WEDNESDAY 7th NOVEMBER 2007**Session-D: Electromagnetic monitoring-2**

Chairperson: Masashi Hayakawa

- 08.30 – 09.00 : Space Weather and Seismo-Electromagnetics (Kiyohumi Yumoto et al.)
- 09.00 – 09.20 : Equatorial electro jet dynamics during simulated solar magneto-hydrodynamic storm (Bambang Setiahadi)
- 09.20 – 09.40 : Magnetic fields induced by tsunami (Yuri A. Kopytenko et al.)

- 09.40 – 10.00 : Magnetotelluric resistivity imaging of the shallow conductive layer and its implication to the highly damaged zone due to May 2006's Yogyakarta earthquake (Djedi S. Widarto et al.)
- 10.00 – 10.20 : Crustal displacement of the 2 April 2007 Solomon earthquake Mw8.1 Observed by differential SAR interferometry (A. M. Lubis et al.)
- 10.20 – 10.40 : Break

Session-E: Electromagnetic monitoring-3

Chairperson: Michel Parrot

- 10.40 – 11.10 : Some results of recent joint Japan-Russia research on seismo-Electromagnetic and related phenomena (Oleg Molchanov)
- 11.10 – 11.30 : ULF/ELF magnetic phenomena possibly associated with the 2004 Sumatra earthquakes (Katsumi Hattori et al.)
- 11.30 – 11.50 : Seismo-electromagnetic signatures possibly related to the Sumatra Megathrust earthquakes of 26 December 2004 and 28 March 2005 (Sarmoko Saroso et al.)
- 11.50 – 12.10 : Coastal geophysical instruments for ULF magnetic location of the forthcoming strong earthquake ($M \geq 5$) zone in the ocean and system tsunami warning (Yuri A. Kopytenko et al.)
- 12.10 – 13.00 : LUNCH
- 13.00 – 14.00 : **POSTER SESSION**

Session-F : Lithosphere-Atmosphere-Ionosphere Coupling-2

Chairperson: O. Molchanov

- 14.00 – 14.30 : Consumption of photoelectron energy due to enhanced electron density: Effect of the westward electric field (Koichiro Oyama et al.)
- 14.30 – 14.50 : Increases in radon exhalation and changes of atmospheric electric parameters accompanying percolation process in crust (Yasutaka Omori et al.)
- 14.50 – 15.10 : Change in meteorological and atmospheric parameters associated with Sumatra earthquake of December 26, 2004 (Eddy Hermawan)
- 15.10 – 15.30 : Monitoring of the existence of high intensity geomagnetic anomaly pattern along the Java trench: First year results (Determination of geomagnetic anomaly variations to predict tectonic earthquakes occurrence in the subduction zone (Teti Zubaidah et al.)
- 15.30 – 15.45 : Break

Session-G: Lithosphere-Atmosphere-Ionosphere Coupling-3

Chairperson: Sarmoko Saroso

- 15.45 – 16.15 : Precursors and co-seismic signatures in the ionosphere associated with the 2004 M9.3 Sumatra earthquakes (Jann-Yenq Liu)
- 16.15 – 16.35 : The atmosphere VHF radio emission as precursor of earthquakes (Yu.Ya Ruzhin et al.)
- 16.35 – 16.55 : Possible anomalous signature associated with the 2007 off-shore mid Niigata earthquake observed by interferometer (N. Ohno et al.)
- 16.55 – 17.15 : Ionospheric total electron content variations observed before earthquakes: possible physical mechanism and modeling (A.A. Namgaladze et al.)
- 17.15 – 17.30 : **Discussion:** Ways and Possibilities for International Cooperation
Chairperson: Katsumi Hattori
- 17.30 – 17.45 : Closing Address by Mr. Bambang Tejasukmana, Deputy Chairman of Aerospace Science, Assesment and Information, LAPAN

POSTER PRESENTATION

- P01. Application of geoelectric method in possibility of the source of geomagnetic anomaly area in Lombok island (Bulkis Kan ata et al.)
- P02. A case study of equatorial ionosphere variability associated with strong Earthquakes (Irina E. Zakharenkova et al.)
- P03. On the attenuation of seismogenic emissions in the earth crust (Raj Pal Singh)
- P04. Observation of ultra low frequency (ULF) bursts as precursors of earthquakes at Agra, India (Vinod Kumar Kushwah et al.)
- P05. VHF anomalous propagation possibly associated with the 2007 off-shore mid Niigata earthquake observed by interferometer (N. Ohno et al.)
- P06. Development of database system for space early warning at LAPAN (Bachtiar Anwar)
- P07. Electromagnetic monitoring for crustal activity in Indonesia (Katsumi Hattori et al.)
- P08. Electromagnetic approach to monitor landslide process (Y. Tojo et al.)
- P09. Ionospheric perturbations prior to a strong earthquake in the Indonesian region (Kalpana Malhotra et al.)
- P10. Ionospheric TEC Anomaly Associated with Earthquakes in Indonesia (Sarmoko Saroso et al.)
- P11. Evidences showing sudden variations of electromagnetic spectrum during seismicity in the ionosphere (Abhishek Shrivastava al.)

- P12. Interaction of unstable modes of ionospheric plasma and modes of neutral Atmosphere (Yu. G. Rapoport et al.)
- P13. Electromagnetic imaging of Andaman-Nicobar region: Preliminary results (Gautam Gupta et al.)
- P14. Planetary electromagnetic waves (PEMW) in the ionosphere and possible effect of equatorial anomaly (Yu. G. Rapoport)
- P15. Magnetotelluric resistivity imaging of the shallow conductive layer and its implication to the highly damaged zone due to May 2006's Yogyakarta earthquake (Djedi S. Widarto et al.)

THURSDAY 8TH NOVEMBER 2007

Excursion to Guntur and Papandayan Volcanoes, Cipanas Hotsprings in Garut Regency, West-Java Province

07.00 AM Lobby at Topas Galeria Hotel