

Program

June 26 (Thu.)

[10:30-10:45] Opening at Four Seasons Hotel Tokyo

10:35-10:45 **Opening Remarks**

Shuhei Okubo (Director of Earthquake Research Institute)

[10:45-12:10] Introductory

10:45-11:00 **Review of Volcano Science at Mt. Asama Volcano**

- Magma Supply Path beneath Mt. Asama and Resemblance of Seismic Activities and Density Profiles between before and after the 2004 Eruption -

Minoru Takeo (Director of Volcano Research Center, Earthquake Research Institute, the University of Tokyo)

11:05-11:35 **Atmospheric Neutrinos**

Thomas K. Gaisser (University of Delaware/ Spokes person of IceCube)

11:40-12:10 **Montagne Péleé (Martinique) and Soufrière (Guadeloupe):**

Possible Test Beds for Muon Tomography in French Volcanoes.

Situation, Recent Eruptions, Detector Development, Inversion Methods.

Albert Tarantola (Institut de Physique du Globe de Paris)

Lunch Break (12:10-13:40)

[13:40-15:20] Muon Radiography

13:40-14:10 **Cosmic-Ray Muon Radiography of Volcanoes**

Hiroyuki K.M. Tanaka (Earthquake Research Institute, the University of Tokyo)

14:15-14:45 **Muon Radiography Expected from Volcanology**

Izumi Yokoyama (Hokkaido University)

14:50-15:20 **Plastic Scintillator for Muon Radiography**

Yasushi Yamashina (C.I. Industry)

Coffee Break (15:20-15:50)

[15:50-16:55] Neutrino Radiography

15:50-16:20 **Geophysical Impact of Neutrino Radiography using IceCube: Insight by Seismic Tomography**

Nozomu Takeuchi (Earthquake Research Institute, the University of Tokyo)

16:25-16:55 **Muon Reconstruction in IceCube: Status and Future**

Kotoyo Hoshina (University of Wisconsin, Madison)

18:00-20:00 **Reception at Bamboo Room**

June 27 (Fri.)

[10:00-12:15] Future Prospects

10:00-10:30 **High Energy Neutrinos to See Inside the Earth**

Gennaro Miele (Università degli Studi di Napoli Federico II)

10:35-11:05 **Perspectives for the Radiography of Vesuvius by Cosmic Ray Muons**

Paolo Strolin (Università degli Studi di Napoli Federico II)

Coffee Break (11:05-11:20)

11:20-11:50 **Structure of the Mount Vesuvius Volcano from Geophysical Exploration**

Maurizio Vassallo (Università degli Studi di Napoli Federico II)

11:55-12:15 **Future Collaboration of Magnetotelluric and Cosmic-Ray Muon Measurements in Volcanic Research**

Takao Koyama (Earthquake Research Institute, the University of Tokyo)

Conclusion

12:20-12:30 **Concluding Remarks**

Albert Tarantola (Institut de Physique du Globe de Paris)