### Scientific Programme

**Wednesday, September 23: Day 1**

**Session 1: Earthquakes and Tsunami**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:30 - 9:00</td>
<td>Reception</td>
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<td>9:00 - 9:20</td>
<td>Introduction and welcome talks (ERI &amp; IPGP) Claude JAUPART- Kenji SATAKE(?)&lt;br&gt;chair: Giovanni Occhipinti</td>
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<tr>
<td>9:20 - 9:40</td>
<td>Kenji SATAKE: Historical and geological evidence of recurrent earthquakes and tsunamis in subduction zones</td>
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<td>9:40 - 10:00</td>
<td>Jennifer WEIL- ACCARDO &amp; Nathalie FEUILLET: Secular relative sea-level changes recorded by coral microatolls: implications for Lesser Antilles megathrust seismic behaviour</td>
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<td>10:00 - 10:20</td>
<td>Takashi FURUMURA: Slab guided high-frequency wave and development of anomalously large intensity during deep events</td>
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<td>10:20 - 10:50</td>
<td>Poster session: short introduction (Poster will be hanged up during the whole workshop)</td>
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<td>10:50 - 11:10</td>
<td>Coffee Break&lt;br&gt;chair: Takashi Furumura</td>
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<td>11:10 - 11:30</td>
<td>Giovanni OCCHIPINTI: Tohoku-Oki 2011: what we learn about Tsunami detection by ionospheric sounding</td>
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<td>11:30 - 11:50</td>
<td>Clément NARTEAU: Dependence on stress for the statistics of granular avalanches and earthquakes</td>
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<td>11:50 - 12:10</td>
<td>Takeshi IIDAKA: Stress field in the Tohoku region estimated from shear-wave splitting analysis</td>
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<td>12:10 - 12:30</td>
<td>Martin VALLEE: Seismo-geodetic inversion of the rupture process of the Gorkha earthquake (Nepal, 2015/04/25, Mw=7.9)</td>
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<td>12:40 - 14:00</td>
<td>Lunch&lt;br&gt;chair: Martin Vallée</td>
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<td>14:00 - 14:20</td>
<td>Claudio SATRIANO - Natalia POIATA: Imaging seismic sources through multi-scale seismic antenna analysis</td>
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<td>14:20 - 14:40</td>
<td>Junichi FUKUDA: Imaging the spatiotemporal evolution of slow slip events using GPS time series data</td>
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<td>14:40 - 15:00</td>
<td>William FRANK &amp; N. SHAPIRO: Exploring the slow-slip cycle in Guerrero through low-frequency earthquakes</td>
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15:00 - 15:20 Harsha BHAT: Incorporating realistic physics in modeling earthquakes
15:20 - 15:40 Tea/Coffee Break

chair: Junichi Fukuda

16:30 - 16:50 Makiko OTANI: A fast computation method and its application to earthquake modeling
16:50 - 17:10 Anne MANGENEY: Observation and simulation of Landquakes
17:10 - 17:30 General Discussion of session 1

18:30-21:00 Dinner Buffet at IPGP - IPGP Orchestra

Thursday, September 24: Day 2

Session 2: Volcanology

chair: Yosuke Aoki

9:00 - 9:20 Minoru TAKEO: Long-period seismic signals and volcanic gas at Asama volcano
9:20 - 9:40 Anne le FRIANT & Georges BOUDON: Submarine record of volcanic island construction and collapse in the Lesser Antilles: First scientific drilling of submarine volcanic island landslides by IODP Expedition 340
9:40 - 10:00 Mie ICHIHARA: A linear relation between powers of seismic and infrasonic eruption tremor and magma discharge rates
10:00 - 10:20 Patrick ALLARD: Gas precursors of volcanic eruptions and relationship with geophysical signals
10:20 - 11:20 Coffee Break- Poster session

chair: Patrick Allard

11:20 - 11:40 Steve TAIT, Edouard KAMINSKI Guillaume CARAZZO: Dynamics of Volcanic Umbrella Clouds
11:40 - 12:00 Yosuke AOKI: Lithosphere-atmosphere-ionosphere coupling excited by an explosive eruption
12:00 - 12:20 Florent BRENGUIER: The high susceptibility of volcanic regions of Japan to seismic shaking
12:20 - 12:40 Satish SINGH: Trans-Atlantic Imaging of the Lithosphere-Asthenosphere Boundary: A Dream Comes True
12:40 - 13:00 General discussion of session 2
13:00 - 14:00 Lunch

Session 3: Global and Planetary Seismology

chair: Kiwamu Nishida

14:00 - 14:20 Hitoshi KAWAKATSU: Lithosphere/asthenosphere system of "normal" oceanic mantle
14:20 - 14:40 Barbara ROMANOWICZ: Numerical wavefield computations and global seismic tomography: insights on mantle plumes
14:40 - 15:00 Nozomu TAKEUCHI: Seismic Tomography by Statistical Approach
15:00 - 15:20 Nobuaki FUJI: Towards waveform inversion with small boxes
15:20 - 15:40 Tea/Coffee Break

chair: Nobuaki Fuji

15:40 - 16:00 Eleonore STUTZMANN: The composition of broadband seismic noise
16:00 - 16:20    Kiwamu NISHIDA: Microseisms: Teleseismic body-wave microseisms from a distant storm
16:20 - 16:40    Jean-Paul MONTAGNER: Prompt gravity signal associated with earthquakes detected by superconducting gravimeter.
16:40 - 17:00    Akito ARAYA: Broadband seismic and geodetic observation using long-baseline laser strainmeters
17:00 - 17:20    Philippe LOGNONNE: The InSight Mars seismometer and Geophysical Observatory.
17:20 - 18:00    General discussion of session 3
19:30-22:00     Dinner Restaurant

Friday, September 25: Day 3
10:00 - 10:30    Coffee Break
10:30 - 13:00    Meeting of Working Groups WG1 (Earthquake & Tsunami), WG2 (Volcanology), WG3 (Global & Planetary Sciences)
13:00 - 14:00    Lunch
14:00 - 16:00    Plenary session: General Discussion and Conclusions

Saturday, September 26: Optional Day
Exchange meeting between students from ERI and IPGP

Poster Session:

Yukihiro NAKATANI: Automated detection method for interplate aftershocks of the 2011 Tohoku earthquake using ocean bottom seismometer network
Loic VIENS: Toward complete extraction of basin-scale Green's functions from the ambient seismic field recorded by MeSO-net stations
Osamu SANDAMBATA: Step-wise temporal change in the frequency-amplitude distribution of volcanic long period tremors at Aso volcano
Yifei WU: A high resolution normal mode solution, synthetic tsunami waveform and characterization of tsunami sources in Japan Sea
Yu TAKAGI: Theoretical computation of internal co-seismic deformation in a spherical earth
Yo KANNO: Sawtooth wave-like pressure change and cyclic out-gassing observed in laboratory experiment
Agnès CHOUNET: Systematic characterization of Radiated Energy and Static Stress Drop of Global Subduction Earthquakes from Source Time Functions Properties
Navid HEDZAJIAN: A Study of the Link Between Seismic Anisotropy and the G Discontinuity Based on LPO Modeling in Oceanic Basins
Kevin JUHEL: Prompt earthquake detection based on transient gravity signals.
Taichi KAWAMURA: Enigmatic Deep Moonquakes: Their Source Mechanism and implication for the lunar thermal mode
Alessandro MAZZULLO: Anisotropic Tomography around La Reunion Island from Surface waves
Satish MAURYA: Surface Wave Tomography of the Indian Continent.
Hélène MIALLOT: Normal modes Hum on Mars
Virgile RAKOTO: Inversion of Tsunami waveform and height using ionospheric observations.
Maria SAADE: Monitoring of seismic anisotropy at the time of 2008 Iwate-Miyagi earthquake.
Céline VIDAL: Degassing budget of the 1257 A.D. plinian eruption of Samalas (Lombok, Indonesia)