French-Japanese Week on Disaster Risk Reduction
日仏防災イベント週間
Tokyo & Sendai, October 2-8, 2017
In Japan and in France, natural risks threaten population and strategic facilities such as power plants and public transport networks. This is why it is important to understand these risks in order to prevent them and minimize their damage.

Scientific cooperation is a key element to tackle this issue that deals with various scientific fields. In this regard, the Third United Nations World Conference on Disaster Risk Reduction, held in Sendai in 2015, was an important milestone that built an international framework for the disaster risk reduction. In this context, France and Japan could foster their cooperation in order to better understand disaster risk by sharing their scientific outcomes.

Hence this week aims to gather French and Japanese scientists from various fields around:
- **A symposium** aiming to present the main actors and topics of the French-Japanese cooperation on disaster risk reduction on Monday, October 2nd.
- **Several workshops** held in Japan during the same week from Tuesday, October 2nd to Thursday, October 5th.
- **Visits** in Japan of tsunami-affected areas as well as facilities and institutions on Friday, October 6th (*by invitation only*), open campus of Tohoku University on October 7-8.

**Organizers:**
- Embassy of France in Japan
- Bureau français de la MFJ – UMIFRE 19 (日仏会館フランス事務所)

**Co-organizer:**
- Fondation Maison franco-japonaise (公益財団法人日仏会館)

Regarding general information, please contact: dr2017@ambafrance-jp.org
- Mrs. Aki SATO, Assistant
- Mr. Pierre FEUARDANT, Project Manager
- Mr. Sébastien CODINA, Team Leader

*For registration and information regarding a specific workshop, please contact the organizers (see next pages).*
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<th>Venue</th>
<th>Event</th>
<th>Organizers</th>
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<td>Monday, October 2</td>
<td>MFJ Auditorium</td>
<td>Symposium on French-Japanese cooperation on disaster risk reduction</td>
<td>Embassy of France in Japan, Bureau français de la MFJ – UMIFRE 19</td>
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<tr>
<td></td>
<td>Embassy of France</td>
<td>MUOGRAPHERS 2017 General assembly <em>(by invitation only)</em></td>
<td>The University of Tokyo, ERI, BRGM, INFN, INGV, INAF, Wigner RCP, Sheffield University, CNRS, Kansai University</td>
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<td></td>
<td>Residence of France</td>
<td>Reception at 18:45 <em>(by invitation only)</em></td>
<td>Embassy of France in Japan</td>
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<tr>
<td>Tuesday, October 3</td>
<td>MFJ Auditorium</td>
<td>Sedimentary signature of tsunamis</td>
<td>Université Clermont Auvergne, IRIDeS, IPGP</td>
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<td></td>
<td>MFJ 601</td>
<td>Workshop on earthquakes and triggered hazards</td>
<td>BRGM, DPRI</td>
<td>9</td>
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<tr>
<td></td>
<td>MFJ 501</td>
<td>Disaster management and health emergencies</td>
<td>Mines Alès, University of Nîmes, CHU Grenoble Alpes</td>
<td>10</td>
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<td></td>
<td>AORI</td>
<td>Mega-earthquakes in subduction zones: insights from fossil examples exhumed onland</td>
<td>University of Orléans, Universities of Kagoshima and Tokyo, AIST</td>
<td>11</td>
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<tr>
<td></td>
<td>ERI</td>
<td>Monitoring of active processes in seismic and volcanic zones</td>
<td>IPGP, ERI</td>
<td>12</td>
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<tr>
<td>Wednesday, October 4</td>
<td>MFJ Auditorium</td>
<td>France-Japan Tsunami and Disaster Risk Reduction Workshop</td>
<td>University of Lyon, Tohoku University</td>
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<td></td>
<td>MFJ 509</td>
<td>Tsunami in the Atlantic and the English Channel: Definition of the effects through numerical modelling (TANDEM) Workshop</td>
<td>CEA with TANDEM project partners and JMA</td>
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<td></td>
<td>MFJ 601</td>
<td>GéNéPi project workshop – mediation information system to support crisis management</td>
<td>GéNéPi project partners</td>
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<td></td>
<td>MFJ 501</td>
<td>Workshop on GPR measurement of active faults and tsunami sediments (PM)</td>
<td>IPGS, Tohoku University</td>
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<td></td>
<td>RTRI</td>
<td>Earthquake engineering: soils, structures and Soil-Structure Interaction <em>(by invitation only)</em></td>
<td>IFSTTAR, RTRI (internal meeting)</td>
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<td>ERI</td>
<td>Monitoring of active processes in seismic and volcanic zones</td>
<td>IPGP, ERI</td>
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<td>Thursday, October 5</td>
<td>MFJ Auditorium</td>
<td>Workshop on the prediction of non-linear soil behavior</td>
<td>SEISM, IFSTTAR, CEREMA, DPRI</td>
<td>18</td>
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<tr>
<td></td>
<td>MFJ 601</td>
<td>Knowledge and vulnerability in the Fukushima nuclear disaster (AM)</td>
<td>CNRS, Université de Lille</td>
<td>19</td>
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<td></td>
<td>MFJ 501</td>
<td>Crisis, Breaks and new Dynamics in post 3.11 Japan (CBD311), UMIFRE 19 (MFJ) (PM)</td>
<td>Bureau français de la MFJ – UMIFRE 19</td>
<td>20</td>
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<td>MFJ 501</td>
<td>Workshop on subsurface electromagnetic measurement</td>
<td>Tohoku University</td>
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<td>IRIDeS</td>
<td>France-Japan Tsunami and Disaster Risk Reduction Workshop (PM)</td>
<td>University of Lyon, Tohoku University</td>
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<td></td>
<td>IRIDeS</td>
<td>Reception at 18:30 <em>(by invitation only)</em></td>
<td>IRIDeS</td>
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<tr>
<td>Friday, October 6</td>
<td>Sendai, Tagajo</td>
<td>IRIDeS tour, field trip <em>(by invitation only)</em></td>
<td>Tohoku University</td>
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<td>October 7-8</td>
<td>Sendai</td>
<td>Tohoku University open campus</td>
<td>Tohoku University</td>
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## Symposium on French-Japanese cooperation on Disaster Risk Reduction

<table>
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<th>Date and duration</th>
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<tbody>
<tr>
<td>Monday, October 2\textsuperscript{nd} (one day)</td>
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<td>10:00 am to 6:00 pm</td>
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<tr>
<td>Auditorium of the Maison franco-japonaise (日仏会館)</td>
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<th>Organizers</th>
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<tbody>
<tr>
<td>Embassy of France in Japan</td>
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<tr>
<td>Bureau français de la MFJ – UMIFRE 19（日仏会館フランス事務所）</td>
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<table>
<thead>
<tr>
<th>Contact and registration</th>
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<tr>
<td>Free of charge</td>
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<tr>
<td>Online registration: <a href="http://drr.science-japan.org">http://drr.science-japan.org</a></td>
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<tr>
<th>Event abstract</th>
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<tr>
<td>Disaster Risk Reduction is a very broad field with a lot of different disciplines in hard sciences and human sciences. Both France and Japan are subject to natural disasters and benefit from an excellent and active research and numerous actors aiming to mitigate their impact. The purpose of this symposium is, for the main actors of this research landscape, to present their fields of research and their French-Japanese cooperation.</td>
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<td>See program on the next page for more information.</td>
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# Symposium on French-Japanese cooperation on Disaster Risk Reduction

**Auditorium of Maison franco-japonaise (日仏会館)**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Presentation</th>
<th>Organism/Project</th>
<th>Speaker</th>
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</table>
| **Chair:** Sébastien CODINA  
Scientific Attaché, Embassy of France in Japan | 10:00 | Welcome address                                                             | Bureau français de la MFJ – UMIREF 19           | Cécile SAKAI                    |
|         | 10:10 | Overview on French-Japanese cooperation on DRR                              | Embassy of France                               | Pierre FEUARDANT                 |
|         | 10:15 | Sendai Framework for Disaster Risk Reduction                                | UNISDR Office in Japan                          | Yuki MATSUOKA                   |
|         | 10:35 | Observatories and monitoring systems                                         | IPGP                                            | Anne LE FRIANT                  |
|         | 10:55 | Fluid circulations along the seismogenic zone: insights from natural examples and relationship with earthquake cycle | Universities of Kagoshima and Orléans           | Yujin KITAMURA / Hugues RAIMBOUR |
|         | 11:15 | Monitoring of slow earthquakes – Possible connection to huge earthquakes     | ERI                                             | Kazuhige OBARA                  |
|         | 11:35 | Imaging, sampling and monitoring subduction seismogenic zone                 | JAMSTEC                                         | Shuichi KODAIRA                 |
|         | 11:55 | Effect of a weak periodic modulation on earthquakes                          | ENS Paris/ERI                                   | Takahiro HATANO                 |
|         | 12:15 | Ground Penetrating Radar (GPR) and its applications                          | Tohoku University / IPGS                        | Maksim BANO / Motoyuki SATO     |
|         | 12:35 | Tsunamis in the Atlantic and the English Channel - Definition of the effects through numerical modeling | TANDEM                                          | Hélène HEBERT                   |
|         | 12:55 | Lunch                                                                        |                                                 |                                  |
| **Chair:** Jean-Paul MONTAGNER  
Professor at IPGP | 14:20 | Landslides in urban residential slopes induced by strong earthquakes in Japan | BRGM / DPRI                                     | Toshitaka KAMAI                 |
|         | 14:40 | Can large cities be designed as earthquake shields?                          | IFSTTAR                                         | Jean-François SEMBLAT           |
|         | 15:00 | Improving the seismic risk analysis for nuclear facilities safety            | SINAPS@                                         | Catherine BERGE-THIERRY          |
|         | 15:20 | A cross-disciplinary approach to risk assessment and management in Univ Grenoble-Alpes | Univ. Grenoble Alpes                             | Sandrine CAROLY / Céline CHOLEZ |
|         | 15:40 | Mediation Information system to support agility of crisis management         | GéNéPi                                          | Frédéric BENABEN                 |
|         | 16:00 | Coffee break                                                                 |                                                 |                                  |
|         | 16:20 | Protection from nuclear disaster and production of knowledge: the Fukushima case | CNRS-Clersé-University Lille 1                  | Thierry RIBAULT                  |
|         | 16:40 | Disaster management and health emergencies                                   | Mines Alès / University of Nîmes                 | Gilles DUSSERRE                 |
|         | 17:00 | Lyon Urban School: new approaches to the urban vulnerability                | University of Lyon                               | Michel LUSSAULT                  |
|         | 17:20 | Universitès role for Sendai Framework on DRR: actions of IRIDeS, Tohoku University | Tohoku University/IRIDE$S$                      | Fumihiko IMAMURA                 |
|         | 17:40 | Panel discussion and questions                                                |                                                 |                                  |
|         | 17:55 | Closing remarks                                                              | Embassy of France                               | Sébastien CODINA                 |

**Urban risk and social impact**

**Chair:** Fumihiko IMAMURA  
Director of IRIDeS

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[5]
Muographers 2017 General assembly *(by invitation only)*

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<td>Monday, October 2(^{nd}) (one day)</td>
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<tr>
<td>Embassy of France in Japan</td>
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<td>Minamiazabu, 4-11-44, Minato, Tokyo 106-8514</td>
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<tr>
<td>The University of Tokyo/ERI</td>
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<tr>
<td>Istituto Nazionale di Fisica Nucleare (INFN)</td>
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<tr>
<td>Istituto Nazionale di Geofisica e Vulcanologia (INGV)</td>
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<tr>
<td>Istituto Nazionale di Astrofisica (INAF)</td>
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<tr>
<td>Wigner Research Centre for Physics of the Hungarian Academy of Sciences</td>
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<td>Sheffield University</td>
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<td>CNRS: National Scientific Research Center</td>
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<td>Kansai University</td>
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<td>Geological and Mining Research Bureau (BRGM)</td>
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<tr>
<td>Contact person : Hiroyuki Tanaka (The University of Tokyo/ERI): <a href="mailto:ht@virtual-muography-institute.org">ht@virtual-muography-institute.org</a></td>
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<tr>
<th>Event abstract</th>
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<td>The Muographers 2017 General Assembly will bring together European and Japanese researchers to give presentations about the use of elementary particles, muons, to investigate the structure inside volcanos (&quot;muography&quot;). Other examples of the use of this technique, such as the imaging of the interior of historic architecture, carbon capture and storage, caves and other targets, along with a unique educational outreach program with art, will be also presented. Muography is an exciting technological innovation that utilizes basic physics to address major societal hazards. The conference will begin with two brief introductory talks by a Japanese and a European expert. They will outline what muography is, and how it can provide insights into understanding volcanoes and other difficult to access large structures. The talks will emphasize the successful collaborations that have occurred between Europe and Japan, including projects focused on famous volcanoes such as Mount Vesuvius and Sakurajima and the Egyptian Cheops pyramid.</td>
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| A memorandum of understanding between Earthquake Research Institute and the French Geological and Mining Research Bureau will be signed. |

| The program of both events is available here. |
The program of these three days will include 15 workshops organized by French and Japanese actors on numerous domains such as geology, seismology, crisis management, health emergencies, volcanology, modeling, human sciences, etc.

Registration mandatory at http://drr.science-japan.org
Identifying and quantitatively characterizing tsunami deposits in order to better understand tsunami flow dynamics and to estimate the magnitude of past tsunamis is one of the key challenges of tsunami science. During the workshop on the “Sedimentary signature of tsunamis”, different topics will be addressed through scientific communications and discussions: new methods for characterizing tsunami deposits; advances in numerical modeling of sediment transport (including boulders) by tsunamis; linking observations of tsunami flows inland and deposits (insights from recent tsunamis); inverse modeling of past tsunamis from the characteristics of their deposits.

Session 1: Sedimentary records of palaeo-tsunamis

- 9:15-9:45 Yuichi Nishimura: Contribution of paleo tsunami study to seismic hazard assessment in Hokkaido.
- 9:45-10:15 Yuki Sawai: Pre- and post-2011 attempt to anticipate unusually large tsunamis along the Japan trench.
- 10:15-10:45 Daisuke Ishimura: Progress of historical and paleo-tsunami deposit research on the Sanriku Coast after the 2011 Tohoku tsunami.
Session 2: Methodological developments

- 13:30-14:00 Yasuhiro Takashimizu: Spatial distribution of sedimentary characteristics of the 2011 Tohoku-oki tsunami deposits, Minami-Soma city, Japan.
- 14:00-14:30 Tetsuya Shinozaki: Prospects for geochemical techniques in tsunami research.
- 14:30-15:00 Simon Falvard & Raphaël Paris - X-ray microtomography of tsunami deposits: new insights into depositional processes from 3 dimensional, high resolution data.
- 15:00-15:30 Daisuke Sugawara: Assessing tsunami source and magnitude information using sediment transport modeling.

Session 3: Discussion (16:15-18:00)

- 16:15-16:45 Paris R: Perspectives of research on tsunami deposits.
- 16:45-17:15 Goto K: Contribution of paleotsunami research to the risk assessment.
**Workshop on earthquakes and triggered hazards**

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<tr>
<td>Tuesday, October 3rd</td>
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<td>1:00 pm – 5:00 pm</td>
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<tr>
<td>Maison franco-japonaise (日仏会館) Room 601</td>
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<tr>
<th>Organizers</th>
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<tbody>
<tr>
<td>Geological and Mining Research Bureau (BRGM)</td>
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<tr>
<td>Gilles Grandjean: <a href="mailto:g.grandjean@brgm.fr">g.grandjean@brgm.fr</a></td>
</tr>
<tr>
<td>Kyoto University/DPRI (Disaster Prevention Research Institute)</td>
</tr>
<tr>
<td>Shinichi Matsushima: <a href="mailto:matsushima@sds.dpri.kyoto-u.ac.jp">matsushima@sds.dpri.kyoto-u.ac.jp</a></td>
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<tr>
<td>French-Japanese Symposium on Earthquakes and Triggered Hazards was held in September 2015, organized by BRGM (Geological and Mining Research Bureau) and DPRI (Disaster Prevention Research Institute, Kyoto University). BRGM and DPRI have been collaborating on several aspects of earthquakes and triggered hazards and signed a Memorandum of Understanding in 2013. In this workshop, we will have presentations related to earthquakes and triggered hazards, such as earthquake source, strong ground motion, site effects, landslides, tsunamis that have been updated or newly obtained since the symposium in 2015.</td>
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<tr>
<td>11:00 – 11:05 Welcome</td>
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<tr>
<td>Gilles GRANDJEAN (BRGM)</td>
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<tr>
<td>11:05 – 11:30 Surface ruptures associated with the 2016 Kumamoto earthquake</td>
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<tr>
<td>Masayuki YOSHIMI (Geological Survey Japan, National Institute of Advanced Industrial Science and Technology)</td>
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<tr>
<td>11:30 – 11:55 Rupture process and near-fault ground motions of the 2016 Kumamoto earthquake, Japan</td>
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<td>Kimiyuki ASANO (DPRI)</td>
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<td>11:55 – 12:20 Generation mechanism of large-scale fissures in the Aso valley accompanied with 2016 Kumamoto earthquake - Relationship to subsurface structure -</td>
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<tr>
<td>Issei DOI (DPRI), Toshitaka KAMAI, Satoshi GOTO, Ryokei AZUMA, Takahiro OHKURA, Hidehiko MURAO, and Kenji MIMA</td>
</tr>
</tbody>
</table>
12:20 – 12:45 Building damage survey of the 2016 Kumamoto earthquake
   Takuma SAEKI (National Research Institute for Earth Science and Disaster Resilience)
12:45 – 14:15 Lunch Break
14:15 – 14:40 Landslides and rock falls induced by seismic events - An overview in France and Europe -
   Gilles GRANDJEAN (BRGM)
14:40 – 15:05 The sub-bottom archaeological sites of Lake Biwa (Japan) - Lessons for the modern water-front region on earthquake disaster -
   Toshitaka KAMAI (DPRI)
15:05 – 15:30 Tsunami induced by earthquakes, historical and modeling approaches
   Anne LEMOINE (BRGM)
15:30 – 16:00 Coffee Break
16:00 – 16:25 Lateral heterogeneity of subsurface structure inferred from directionally dependent microtremor horizontal-to-vertical spectral ratios
   Shinichi MATSUSHIMA (DPRI)
16:25 – 16:50 Inferring shake-maps and post-earthquake situational awareness with Bayesian networks
   Pierre GEHL (BRGM)
16:50 – 17:25 Discussions
17:25 – 17:30 Closing
   Shinichi MATSUSHIMA (DPRI)
Disaster management and health emergencies

Date and duration
Tuesday, October 3rd (one day)

Place
Maison franco-japonaise 日仏会館 Room 501

Organizers
Mines d’Alès
Gilles Dusserre: gilles.dusserre@mines-ales.fr
Université de Nîmes
CHU Grenobles Alpes

Language
English without translation

Registration
http://drr.sciences-japan.org

Event abstract
Europe and Japan have made progress in preparing disasters and large scale emergencies, although gaps remain in some key areas (incident command, standardized approaches, etc.).

Moreover, a significant issue faced by front line responders has been the significant increase of the number and type of potential scenarios they must be prepared to handle. The workshop dedicated to Disaster management and health emergencies will try to handle some features of health emergency domains (lessons learnt, training, simulation, response of medical teams and humanitarian actions).

Program

8:30 – 9:00 Welcome

9:00 - 9:20 Decision making during health emergencies – The use of lessons learnt
Cécile L’Héritier, Gilles Dusserre, Sébastien Harispe, Abdelhak Imoussaten et Benoit Roig
Centre de Recherche LGI2P/Ecole des mines d’Alès, Site EERIE,
Parc scientifique G. Besse, 30035 Nîmes cedex 1, France
Université de Nîmes, Rue du Dr Georges Salan, 30000 Nîmes

9:30 – 9:50 Disaster management and community-based integrated care system
Ken Osaka, Kemmyo Sugiyama (International Research Institute of Disaster Science,
10:00 – 10:20 Lessons in post-disaster mental health issues - Longitudinal alterations of mental health conditions among communities affected by the Great East Japan Earthquake Ayako Sato, Hiroaki Tomita (Tohoku Medical Megabank Organization / International Research Institute of Disaster Science, Tohoku University)

Break

11:00 – 11:20 Master of Science Damage (Disaster management and environmental impact)
Gilles Dusserre, Serge Bastide, Karine Weiss

11:30 – 11:50 Personal safety during field hospital deployment
Rillard Didier, Cadiere Axelle, Roig Benoit
Université de Nîmes, Rue du Dr Georges Salan, 30000 Nîmes

12:30 End of morning session

12:30 – 14:00 Lunch break

14:00 – 14:20 Lessons learned from Tsunami in 1933
Dr Takashi FUJITA
PhD FACS, Trauma and Resuscitation Center, University OF TEIKYO , JAPAN

14:30 -14: 50 Time courses of patient load at hospitals in the setting of previous Mass Casualty Incident in Japan: using mass-balance dynamic simulation model.
Pr Naoto MORIMURA
PHD, Professor and chair, Department of Acute Medicine Graduate School of Medicine, The University of Tokyo, JAPAN

15:00 – 15:20 Novel indicator of the degree of medical demand-supply imbalance at each hospital in a disaster setting: Introduction of the Risk-Resource-Ratio score.
Pr Naoto MORIMURA, PHD, Professor and chair, Department of Acute Medicine Graduate School of Medicine, The University of Tokyo, JAPAN

15:30 – 15:50 In-hospital management of massive admission of severe trauma patients: the crucial role of surgeon's formation.
Pr Catherine ARVIEUX, Dr Sandrine BARBOIS, Dr Julio ABBA
CHU Grenoble-Alpes , University Grenoble Alpes (UGA), France

16:00 – 16:30: Conclusions
*All presentations will be followed with 10 min of questions
Mega-earthquakes in subduction zones: insights from fossil examples

Date and duration
Tuesday, October 3rd (1 day)

Place
Atmosphere and Ocean Research Institute, the University of Tokyo, room 217
5-1-5 Kashiwanoha, Kashiwa, Chiba 277-8564 JAPAN
(15 minutes bus from TX Kashiwanoha-Campus station)

Organizers
The University of Tokyo/AORI
Asuka Yamaguchi: asuka@aori.u-tokyo.ac.jp
University of Orléans
Hugues Raimbourg: hugues.raimboug@univ-orleans.fr

Language
English without translation

Registration
http://drr.science-japan.org

Event abstract

The mega-earthquakes that occur episodically along subduction margins are a major natural hazard, which requires a lot of research effort to be focused on the conditions favoring their generation along the plate interface. The recent development of geodetic and seismological monitoring has highlighted the great variability in time and space of the way slip occurs along the plate interface. The great challenge is therefore now to understand why the plates interface, in some instances, creeps aseismically or, in other ones, rupture during mega-earthquakes.

For this purpose, fossil subduction zones now exhumed onland, such as the Shimanto Belt in Japan, provide the access to the deep portions of plate interface that cannot be reached in modern margins.

Using fossil examples, the purpose of this session is to provide a comprehensive description of the whole range of deformation processes that are operative along the plate interface and of their controlling factors. It implies to combine various approaches, including structural geology, geochemistry and rock deformation experiments.

Great emphasis should be put in particular on the interpretation of fossil deformation structures in terms of slip properties and on their correspondence with modern processes. Another point of focus includes the analysis of the various strain weakening processes, especially those related to the fluid.
10:30 Gaku Kimura "Tectonics of Northern/Southern subbelt boundary fault in the Shimanto Belt" (30min)

11:00 Rina Fukuchi "Tectonic evolution of the Nankai accretionary prism at off-Kumano region" (30min)

11:30 Hiroaki Koge "Sandbox experiment simulating subduction of horst-graben structure of Japan Trench" (20min)

(Lunch break)

13:00 Ryota Hasegawa "Geochemical anomalies along the Nobeoka Thrust" (20min)

13:20 Yui Kouketsu "Application of carbonaceous material Raman geothermometer to fault rocks" (30min)

14:00 Yujin Kitamura "Raman spectroscopic analysis of carbonaceous materials within fault rocks from Aki Tectonic Line and Okitsu melange" (20min)

14:20 Asuka Yamaguchi "Raman spectra of carbonaceous materials within the black fault rocks in Kodiak accretionary complex" (20min)

14:40 Hugues Raimbourg "Aseismic vs. seismic deformation along the plate interface, the insight from fossil examples" (30min)

(coffee break)

15:30 Kohtaro Ujiie "Detection of frictional heating on faults using Raman spectra of carbonaceous materia" (30min)

16:00 Kiyokazu Oohashi "A structural traverse across the Shimanto belt in western Shikoku, Japan" (30min)

16:30 Olivier Fabbri "Paleo-asperities frozen along a major fault zone in Alpine Corsica ophiolites: Implications on present-day subduction zone intermediate-depth seismicity" (30min)

17:15 General discussion

18:00 Conference dinner
# Monitoring of active processes in seismic and volcanic zones

## Date and duration

Tuesday, October 3\textsuperscript{rd} to Thursday, October 5\textsuperscript{th} (3 days)

## Place

Earthquake Research Institute, University of Tokyo  

## Organizers

IPGP  
The University of Tokyo/ERI

## Language

English

## Registration

[http://drr.science-japan.org](http://drr.science-japan.org)

## Event abstract

This workshop is organized in the framework of the longstanding scientific collaboration between ERI (Tokyo) and IPG (Paris). These workshops are held every two years, alternatively in Japan and France during the last decade. They enable to take stock of ongoing collaborative projects, to launch new scientific projects and to discuss the exchange of scientists, PhD students and post-docs.

In 2017, the workshop will be focused on the monitoring of active processes in seismic and volcanic zones.
Tsunami and DRR Innovation Workshop

Date and place

One day on Wednesday, October 4th at the Maison franco-japonaise (日仏会館) Auditorium
Afternoon of Thursday, October 5th in Sendai,
Field trip on Friday, October 6th in Sendai (by invitation only).

Organizers

Tohoku University/IRIDeS
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University of Lyon/INSA
Jean-Yves CAVAILLE: jean-yves.cavaille@insa-lyon.fr
Tohoku University/FRI
Tetsuo SHOJI: tshoji@fri.niche.tohoku.ac.jp

Language

English without translation

Registration

http://drr.science-japan.org

Program: http://www.fri.niche.tohoku.ac.jp/workshop2017/program.html

Workshop in Tokyo

The purpose of this interdisciplinary workshop is to report and advance our understanding, mitigation and response to disasters caused by tsunami and other natural disasters. The first part of this workshop will bring French and Japanese collaborators of the Tohoku-Lyon Tsunami Workshop Series (2012, 2013, 2014 and 2015) held alternatively at the universities of Lyon and Tohoku. Their preventatives will report on their ongoing research and most recent discoveries. The second part of this workshop will depart from the sole field of tsunami research to contribute more broadly to the fields of natural disaster science, crisis management and disaster digital archives. For this section, leading researchers from France and Japan will be discussing the current projects and future initiatives that may contribute to the application of the Sendai Framework for Disaster Risk Reduction.

Workshop at Sendai

The participants in this workshop will be invited to travel to the region of Tohoku for a tour of the newly established IRIDeS as well as the tsunami-affected areas. Together, the participants will discuss the progress of IRIDeS and the local governments in the reconstruction of Tohoku. We invite all interested parties to contact us for further information and proposals for the workshops and Tohoku study-tour.
Wednesday, October 4th, 2017 Maison Franco-Japonaise 日仏会館 in Tokyo

- 9:30-12:00
  - Welcoming the Tsunami and DRR Innovation WS by Tetsuo SHOJI, Jean-Yves CAVAILLE, and Fumihiko IMAMURA
  - Session 1 Fluid dynamics of tsunami and structure for energy dissipation
- 14:00-16:00
  - Session 2 Detection, Alert, and real-time monitoring
- 16:30-18:30
  - Session 3 Safety at nuclear power plan in Japan and France
  - Session 4 Crisis management and reconstruction

Thursday, October 5th, 2017 At IRIDeS of TU, Sendai (by invitation only)

- 16:00-18:30
  - BBB (build back better) at IRIDeS meeting hall
- 18:30-
  - Banquet at IRIDeS
TANDEM Workshop
Tsunamis in the Atlantic and the English Channel: Definition of the effects through numerical modelling

Date and duration

Wednesday, October 4th and Thursday, October 5th (2 days)

Place

Maison franco-japonaise (日仏会館) Room 509

Organizers

CEA with partners from TANDEM and Japan Meteorological Agency/Meteorological Research Institute
Hélène Hébert (CEA): helene.hebert@cea.fr
Anne Loevenbruck (CEA): anne.loevenbruck@cea.fr

Language

English without translation

Registration

http://drr.science-japan.org

Event abstract

In the aftermath of the Tohoku tsunami, the French government launched research initiatives to better identify the tsunami hazard on the French coastlines of the Atlantic Ocean and English Channel, where nuclear facilities have been operated since about 30 years. The TANDEM project (2013-2017) gathers geologists, geophysicists, numerical modelers in cooperation with Japanese scientists to draw lessons from the 2011 tsunami and to propose hazard levels in France.

The workshop will address the following issues:
- the validation of numerical models to characterize tsunami hazard,
- the influence of the uncertainties on the parameters used in the modeling,
- the lessons to be drawn from the Tohoku-Oki tsunami (2011), through detailed coastal studies in Japan (impact, interaction with the infrastructures...),
- the application of the methods on the French coastlines, in order to better estimate the effects of rare tsunamigenic sources (nearby landsliding, distant and local earthquakes),
- the current challenges on Tsunami Warning in operational context (Japan / France).
Wednesday October 4th 2017

9:00   Welcome address and introduction to the TANDEM workshop  H. Hébert (CEA)

■ WP3 – Numerical study of the Tohoku-Oki tsunami

9:30   Scope and overview of the WP3       A. Loevenbruck (CEA)
9:50   Simulation of the Tohoku-Oki tsunami  M. Le Gal (OIST)
10:10  Tsunami model based on moving mesh approach on the sphere: application to the Tohoku tsunami  M. Ricchiuto (INRIA)

10:30  Coffee break

11:00  Tohoku-Oki 2011 Tsunami high-resolution modeling and sensitivity to the rupture complexity: Kamaishi and Sendai areas  S. Le Roy (BRGM)
11:20  Numerical study of tsunami undular bore impacts on a composite breakwater: the case of the Port of Soma  S. Abadie (UPPA)
11:40  Numerical study of tsunami flooding over coastal levees during the 2011 Tohoku tsunami  T. Shimozono (The University of Tokyo)
12:00  Tohoku tsunami results  K. Satake (The University of Tokyo)
12:20  Discussion

12:40  Lunch break

■ WP1 – Numerical models for tsunami hazard studies

14h00  Overview of the WP1 work  S. Abadie (UPPA) & M.Ricchiuto (INRIA)
14h20  Comparative evaluation of numerical codes  S. Le Roy (BRGM)
14h40  Accurate tsunami simulations solving the shallow water equations with effects of Boussinesq dispersion, elastic loading and sea water density stratification  T. Baba (Tokushima University)

■ WP2 – Sensitivity and uncertainty studies

15h00  Numerical study of tsunami undular bore overtopping  S. Abadie (UPPA)
15h20  Uncertainty analysis: the global framework developed by IRSN for defining flood hazard  C.-M. Duluc (IRSN)

15:40  Coffee break

16h10  Building a tsunami database of AZGBR fracture zone for the French Atlantic Coast throw an uncertainty propagation study  V. Bacchi (IRSN)
16h30  Global sensitivity analysis for historical tsunamis  R. Pedreros (BRGM)
16h50  Lisbon 1755 event: contribution of contemporary testimony in Lesser Antilles for earthquake source characterization  A. Lemoine (BRGM)
17:10  Discussion
Thursday October 5th 2017

9:00 Welcome

- **WP4 – Tsunami hazard along the French Atlantic and Channel coasts**

9h30 Analysis of the tsunami hazard in the French Atlantic Coast induced by the AZGBR fracture zone V. Bacchi (IRSN)

9h50 Tsunamis in the Atlantic and Channel Seas: low to moderate risk associated with seismic sources P. Heinrich (CEA)

10h10 Historical observations and tsunamis modelling heights at French coasts (English Channel and Bay of Biscay) : seismic and landslide sources A. Lemoine & R. Pedreros (BRGM)

10:30 **Coffee break**

11h00 Evaluation of landslides related hazards (French Atlantic margin) R. Silva Jacinto (IFREMER)

11h20 Landslide generated tsunamis off the Atlantic margin P. Heinrich (CEA)

11h40 Ongoing simulations in the Canary Islands (EDF)

12h00 Contribution of seismic motion to earthquake loading for gravitational instabilities P. Traversa (EDF)

12h20 Dispersive model of tidal propagation in the Garonne River A. Filippini (INRIA)

12:40 Discussion

13:00 **Lunch break**

- **Current challenges on Tsunami Warning in the Japanese and French operational contexts**

14:10 Update of JMA tsunami warning system and procedures since 2011 S. Harada (JMA)

14:30 DONET instrumentation and data for tsunami warning system E. Araki (JAMSTEC)

14:50 Tsunami simulation method initiated from waveforms observed by ocean bottom pressure sensors for real-time tsunami forecast; Applied for 2011 Tohoku Tsunami Y. Tanioka (Hokkaido University)

15:10 CENALT warning system H. Hébert (CEA)

15:30 **Coffee break**

16:00 Rapid magnitude estimation of tsunami earthquakes and detectability of submarine landslide by seismic data A. Katsumata (MRI)

16:20 Near-real time earthquake information and tsunami estimation system for Indonesia, Philippines and Chile regions N. Pulido (NIED)

16:40 Protection Policy and Evacuation Planning against Tsunami in Japan T. Arikawa (Chuo University)

17:00 Discussion
French GéNéPi Project Workshop – mediation Information System to support crisis management

Date and duration

Wednesday, October 4th (one day)

Place and access

Maison franco-japonaise (日仏会館) Room 601

Organizers

GéNéPi consortium
Frederick Benaben: frederick.benaben@mines-albi.fr
Audrey Fertier: audrey.fertier@mines-albi.fr

Language

English without translation

Registration

http://drr.science-japan.org

Event abstract

The GéNéPi project deals with a methodological and technological support for crisis management. The project is based on a use-case regarding the Loire flood. It covers: (i) preparation and prevention phases (time dimension), (ii) coordination of heterogeneous actors (horizontal dimension) and (iii) management levels (vertical dimension).

GéNéPi aims at defining the lifecycle of a mediation information system according to three abstraction layers. The business layer deals with knowledge gathering (regarding the crisis, partners’ capacities, risks, doctrines) and collaborative process deduction. The technical layer provides a solution to orchestrate these collaborative processes. The agility management layer deals with the monitoring of the response in order to detect potential requirements for adaptation and to suggest adaptation mechanisms to deal with the dynamicity of the crisis.

The workshop will be based on presentations and demonstrations of the contributions of the project (after three years) and discussions about adjustments and perspectives.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>09:00-09:30</td>
<td>Context of the GéNéPi Project (Commandant Florent Courrèges / Frederick Benaben)</td>
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<td>09:30-10:00</td>
<td>Business use-case of the Project (Helene Dolidon)</td>
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<td>Big-Picture of GéNéPi (Frederick Benaben)</td>
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<td>10:30-11:00</td>
<td>Break</td>
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<td>11:00-12:00</td>
<td>Live demo / video (Audrey Fertier, Chihab Hanachi, Nicolas Boissel-Dallier)</td>
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<td>12:00-12:30</td>
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<td>12:30-14:00</td>
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<td>14:00-14:30</td>
<td>Gathering of information - Theoretical description (Audrey Fertier)</td>
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<td>14:30-15:00</td>
<td>Deduction of Behavior - Theoretical Description (Chihab Hanachi)</td>
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<td>15:00-15:30</td>
<td>Behavior orchestration - Theoretical Description (Nicolas Boissel-Dallier)</td>
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<td>15:30-16:00</td>
<td>Break</td>
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<td>16:00-16:30</td>
<td>Agility feature - Theoretical description (Frederick Benaben)</td>
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<tr>
<td>16:30-17:00</td>
<td>Conclusion and perspectives (Commandant Florent Courrèges / Frederick Benaben)</td>
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<tr>
<td>17:00-17:30</td>
<td>Wrap-up and complementary questions</td>
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Workshop on GPR measurement of active faults and tsunami sediments

Date and duration

Wednesday, October 4th (13:30 – 18:20)

Place

Maison franco-japonaise (日仏会館) Room 501

Organizers

Motoyuki Sato (Tohoku University/CNEAS): sato@cneas.tohoku.ac.jp
Maksim Bano (IPGS): Maksim.Bano@unistra.fr

Language

English

Registration

http://drr.science-japan.org

Program: English | Japanese

Event abstract

Investigation of active faults is important in understanding the events that occurred many years ago, but at the same time the knowledge can be used for understanding the mechanism of natural disasters and further prediction. Ground Penetrating Radar (GPR) is one of subsurface exploration techniques, which is quite effective for understanding near surface geophysical conditions. Recently, GPR has been applied for active fault surveys, however, it is still very challenging, because most of the active fault is not very shallow for GPR surveys. In this workshop, we invite specialists in GPR survey and introduce the field survey results for discussion. The case studies also include Tsunami sediments, which is important in understanding the history of geological structure after earthquake and tsunami.

Program

Workshop on GPR measurements of active faults and tsunami sediments
Organized by Motoyuki Sato (Tohoku Univ), Maksim Bano (IPGS/Strasbourg Univ.)

4th October (13:00~18:20)

(1) 13:00 - 13:10
Introduction

(2) 13:10 - 13:50
GPR measurements to assess the characteristics of active faults in Mongolia
(3) 13:50 - 14:30
Fault Mapping at the Confluence of the Aga River and the Tadami River - Japan - using Ground Penetrating Radar
○Maksim Bano (Strasbourg Univ.)

(4) 14:30 - 14:55
Application for GPR survey to faults in Mogod Earthquake in central Mongolia
○Gomez Christopher (Kobe U.) • Kataoka Kyoko (Niigata U.)

(5) 14:55 - 15:20
Interpretation of GPR survey of subsurface layer structure of the west coast fault zone at Aomori bay
○Tsogtbaatar Amarsaikhan • Motoyuki Sato (Tohoku Univ.)

(6) 15:40 - 16:20
GPR survey for paleotsunami research
○Kazuhisa Goto • Hiraku Takeda (Tohoku Univ.) • James Goff (UNSW) • Hideaki Matsumoto (Tohoku Gakuin Univ.) • Daisuke Sugawara (Museum of Natural and Environmental History, Shizuoka)

(7) 16:20 - 17:00
Distribution of paleo-tsunami deposits in the eastern Taiwan using Ground Penetrating Radar
○Mamoru Nakamura, Masaya Sokei (Univ. Ryukyu) How-Wei Chen (NCU)

(8) 17:00 - 17:40
Eroded Coastal Dune and Deposits in North Sumatra (Indonesia) following the 2004 Boxing Day Tsunami - a Geophysical Approach
○Gomez Christopher (Kobe U.) • Lavigne Franck (Sorbonne U.) • Wassmer Patrick (U. Strasbourg)

(9) 17:40 - 18:20
Delineation of Tsunami Deposites by an Array GPR System "Yakumo"
○Hai Liu (Xiamen Univ.) • Honghua Wang (Guilin Univ. of Technology) • Motoyuki Sato (Tohoku Univ.)
Workshop on subsurface electromagnetic measurement

Date and duration
Thursday, October 5th (9:30 – 17:35)

Place
Maison franco-japonaise (日仏会館) Room 501

Organizers
Tohoku University/CNEAS (Center for Northeast Asian Studies)
Motoyuki Sato: sato@cneas.tohoku.ac.jp

Language
English

Registration
http://drr.science-japan.org

Program: English | Japanese

Event abstract
This is a biannual conference, focused on subsurface electromagnetic measurements and its applications. GPR is one of the important topics, but not limited to it. Presentations on Innovative idea for subsurface electromagnetic measurement techniques, applications are welcome. Presentation in English is recommended.

More information on the Technical Committee
Web site for paper submission

Program
Workshop on Subsurface Electromagnetic Measurements
Organized by Motoyuki Sato (Tohoku University)

5th October

GPR system (09:00～10:40)

(10) 09:00 - 09:25
Development of Non-Destructive Inspection Sensor for Wooden Structures (7) -- Demonstration Test of 3D Imaging in Wooden House Wall Model --
○Yasunari Mori, Takayoshi Yumii, Yumi Asano, Kyoji Doi (MES), Christian Kotyama, Yasishi litsuka, Kazunori Takahasi and Motoyuki Sato (Tohoku Univ)

(11) 09:25 - 09:50
POLARIMETRIC IMAGING of FULL POLARIMETRIC GPR
○Xuan Feng・Qi Lu（Jilin University）

(12) 09:50 - 10:15
Acoustic wave transducers as Ground Penetrating RADAR cooperative targets for sensing applications
○Jean-Michel Friedt（FEMTO-ST/CNEAS）・David Rabus（SENSeOR SAS）・Gilles Martin（FEMTO-ST）・Gwenhael Giovec Merou（SENSeOR SAS）・Frederic Cheroux（FEMTO-ST）・Motoyuki Sato（CNEAS）

——— Break （25 min）———

Quantitative Measurement （10：40～11：55）

(13) 10:40 - 11:05
Preliminary Experiment of Sea Ice Thickness Measurement by Ground Penetrating Radar
○Masayoshi Matsumoto・Mitsunori Yoshimura（PASCO）・Kazuhiro Naoki・Kohei Cho（Tokai Univ.）

(14) 11:05 - 11:30
A practical approach for high-resolution pavement inspection with multistatic array GPR YAKUMO
○Li Yi（AIST）・Lilong Zou・Motoyuki Sato（Tohoku Univ.）

(15) 11:30 - 11:55
Nondestructive inspection of pavement by MIMO GPR "Yakumo"
○Lilong Zou・Motoyuki Sato（Tohoku Univ.）

Special Lecture （13：00～14：20）

(16) 13:00 - 13:40
Characterizing Peat Thickness Based on Common Mid Point (CMP) Ground Penetrating Radar -- A Preliminary Result --
○Djoko Nugroho・Lena Sumargana・Syafuddin・Galih Adinata・Marina c.g. Frederik・Agustin・Oni Bintoro（BPPT）

(17) 13:40 - 14:20
L- and S-band SAR backscatter modelling for lunar subsurface water ice detection
○Shiv Mohan・R d. Shah（MGSI）

Signal Processing and Modeling （14：20～16：20）

(18) 14:20 - 14:45
Unsupervised Adaptive PolSAR Land Classification System Using Quaternion Neural Networks
○Hyunsoo Kim・Akira Hirose（Tokyo Univ.）

(19) 14:45 - 15:10
2.5 Dimensional EM and seismic wave modelling
○Jian-guo Zhao（CUPB）・Bin Xiong（Guilin）

——— Break （20 min）———

(20) 15:30 - 15:55
Development of landmine visualization systems based on complex-valued self-organizing-map（CSOM）
○Akira Hirose（Tokyo Univ.）
Random noise de-noising and direct wave eliminating based on SVD method for ground penetrating radar signals
○Qi Lu · Xuan Feng · Cai Liu (Jilin University)

Case Studies (16:20~17:10)

Recent activities on archaeological survey by GPR
-- Case study in Inari-yama Kofun --
○Motoyuki Sato (Tohoku Univ.)

Diagnosing deterioration of tree trunks using GPR
○Ken Kajino, Kazunori Takahasi, Kunio Aono, Yayoi Asiba, Nobuaki Isizawa (OYO)

Railway Structures Inspection Method using G.P.R. -- Inspection precision improvement and improvement of the work efficiency for tunnel lining and railroad-bed --
○Hiroyuki Morishima(JRC), Tomoki Kuboshima (JR East)
Workshop on the prediction of non-linear seismic soil response

Date and duration

Thursday, October 5th (one day)

Place

Maison franco-japonaise (日仏会館) Auditorium

Organizers

French SEISM Institute: E. Foerster, F. Lopez-Caballero
Evelyne Foerster (CEA): Evelyne.FOERSTER@cea.fr
IFSTTAR: P.Y. Bard, L-F. Bonilla
CEREMA: J. Régnier, E. Bertrand
Kyoto University/DPRI: Prof. H. Kawase, Prof. Iai, Prof. Uzuoka, Prof. Tobita, Prof. Ueda, Prof. Matsushima
Prof. Shinichi Matsushima: matsushima@sds.dpri.kyoto-u.ac.jp

Language

English without translation

Registration

http://drr.science-japan.org

Event abstract

The PRENOLIN (PREdiction of NON-LINear soil behavior) benchmark is an international exercise, which ended in October 2015, and which aimed at verifying and validating multiple numerical simulation codes capable of predicting nonlinear seismic site response with various constitutive models. One of the main objectives of this project was the assessment of the uncertainties associated with nonlinear simulation of 1D site effects. The first verification phase (i.e., comparison between numerical codes on simple idealistic cases) was followed by a validation phase, consisting in comparing the predictions of numerical estimations with actual strong motion recordings obtained at well-known Japanese sites, selected within the Japanese KiK-net and PARI accelerometric networks, and being as close as possible to a 1D geometry (horizontal layers), with complete field and laboratory measurements. The benchmark involved about 21 teams and 23 different computational codes.

This workshop will be the occasion to present and discuss not only on numerical studies dedicated to non-linear soil behavior analyses, as obtained during the PRENOLIN benchmark, but also on empirical methods that may be used for such analyses.
8:45 – 9:00  Welcome

Session 1: Empirical and numerical approaches for seismic site response evaluation

9:00 - 9:25  PRENOLIN: International benchmark on 1D nonlinear site response analysis - validation phase exercise
Dr. Julie Regnier, CEREMA, France

9:30 - 9:55  Effects of soil spatial variability on seismic behavior of horizontally layered liquefiable ground
Prof. Kyohei Ueda, DPRI, Kyoto University, Japan

10:00 - 10:25  Comparing various numerical assumptions for 1D nonlinear site response analysis on real sites
Dr. Evelyne Foerster, Seism Institute, CEA Paris-Saclay, France

Coffee break

11:00 - 11:25  Direct modeling of material inhomogeneity of liquefiable natural deposits by effective stress analysis
Prof. Ryosuke Uzuoka, DPRI, Kyoto University, Japan

Dr. Julie Regnier, CEREMA, France

12:30  End of morning session

Session 2: Field and numerical approaches for soil-structure interactions assessment

14:00 - 14:25  A new macroelement-based approach to model the seismic response of shallow foundations.
Prof. Jean-François Semblat, IFSTTAR/GERS, France

14:30 - 14:55  Study on seismic response analysis of large-scale reinforced concrete structure using high-fidelity model and considering soil-structure interaction.
Mr. Hiroki Motoyama, ERI, Tokyo University, Japan

15:00 - 15:25  Seismic assessment of existing structures: Contribution of in-situ measurements by ambient vibrations in the design of numerical models
Dr. Cédric Desprez, IFSTTAR/MAST, France

Dr. Fernando Lopez-Caballero, LMSSMat, CentraleSupelec, France

16:00 – 16:25  From Soil-Structure Interaction to Site-City Interaction: application to a recent urbanized area in Rome (Italy).
Dr. Chiara Varone, ESITC & IFSTTAR, France

16:30 - 16:45  Conclusions of the workshop
Knowledge and Vulnerability in the Fukushima Nuclear Disaster

**Date and duration**
Thursday, October 5th
9h30-13h30

**Place**
Maison franco-japonaise (日仏会館) Room 601

**Organizers**
Doshisha University Kyoto
Bureau français de la MFJ – UMIFRE 19
Maison Franco-Japonaise

**Language**
English without translation

**Registration**
http://drr.science-japan.org

**Event abstract**
The French-Japanese scientific collaboration we developed from 2013 to 2016 is organized around two actions that schematically fall within three fields: social/economic and epistemological. These are two ways of approaching the question that motivates us and prompts international and interdisciplinary collaboration in this research: vulnerability and various modalities of responses to it in terms of protection in the context of the Fukushima nuclear disaster.

Our action n°1 is: Protection and Vulnerability: Public Policies and the Variety of Responses to Disaster. The central question to which this research action aims is: what kind of human protection can be conceived and enacted in situations of total vulnerability? A. Gonon (Prof. Doshisha University Kyoto) will give an analytical perspective of the concept of vulnerability and the way it is used in the Fukushima disaster context. C. Asanuma-Brice (MFJ-Clersé-CNRS) will present the housing policy and its impact on the management of population in Fukushima.

Our action n°2 is: Knowledge, Society, and Democracy After Fukushima. This research action is directed toward the place of information and knowledge in nuclear society, and it aims to bring out the articulation between information/knowledge and human protection. S. Goto (Prof. University Fukushima) will discuss the ways the public is informed and educated after the nuclear disaster; while T. Ribault (CNRS-University Lille1) will show how we can mobilize the concept of production of ignorance to better understand the non-protection of the population in the Fukushima nuclear disaster context.
Program

9h30 – 9h45: Welcoming

9h45 – 11h30: Session 1. Protection and vulnerability: public policies and variety of responses to the disaster

9h45 – 10h30: Anne Gonon (Doshisha University Kyoto): Vulnerability and protection in question in Fukushima

10h30 – 10h45: Break

10h45 – 11h30: Cécile Asanuma-Brice (MFJ-Clersé-CNRS): Managing population through the housing policy in Fukushima

11h30 – 13h: Session 2. Knowledge, Societies and Democracies after Fukushima

11h30 – 12h15: Shinobu Goto (Univ. Fukushima): Informing and Educating the public after the Fukushima nuclear disaster

12h15 – 13h: Thierry Ribault (Clersé-CNRS-Univ. Lille: The production of ignorance in the context of the Fukushima nuclear disaster: what are we talking about?

13h – 13h30: Discussion and conclusion.
Date and duration
Thursday, October 5th
14h30-18h

Place
Maison franco-japonaise (且仏会館) Room 601

Organizers
Doshisha University Kyoto
Bureau français de la MFJ- UMIFRE 19
CNRS

Language
English without translation

Registration
http://drr.science-japan.org

Event abstract
“Crisis, Breaks and new Dynamics in post 3.11 Japan” team has been set up in 2017 as a new research axis of the Umifre19 at the Maison Franco-Japonaise of Tokyo, with a CNRS special financial support. Supervised by Remi Scoccimarro (Geographer), in association with Anne Gonon (Sociologist), this team aims to bring together social scientists working on issues raised by the March 11 disaster. We’re focusing both on tsunami and nuclear questions, aiming to understand what led to 3.11 disasters, its non-technical teachings, as well as evaluating the choices made to rebuild these areas.

Program
14h – 14h05
Opening: From natural hazard to social production of disasters
(A. Gonon and R. Scoccimarro)

14h05-14h35
“Facing urban vulnerability in an Anthropocene world.”
Michel Lussault, Pr, ENS Lyon – EVS

14h35-15h05
“Urban and regional planning in 3.11 disaster areas: Finally remodeling the Japanese archipelago?”
Rémi Scoccimarro, Asso. Prof. Toulouse Univ. - Research fellow UMIFRE 19 MFJ
15h05-15h35
“Environmental Law in Post 3.11 Japan: From Crisis to New Dynamics?”
Isabelle Giraudou, Asso. Prof., University of Tokyo - Ass. Researcher, UMIFRE 19

15h35 - 16h Break

16h00-16h30
“Rebuilding local economies and communities after disaster: experiences and teachings of 2007 Chuetsu Earthquake”
Tarô Taguchi, Ass. Prof., Tokushima University

16h30-17h00
“Restoring confidence to restore rural economy of Fukushima prefecture”
Nicolas Baumert, Ass. Prof. Nagoya University

17h00-1730
“Perceptions of nuclear power in the Japanese society before and after “Fukushima”
Tino Bruno, PhD candidate, Lyon 3 univ. / Ritsumeikan univ.

1730-1800 Discussion
Organizers:
- Embassy of France in Japan
- Bureau français de la MFJ – UMIFRE 19 (日仏会館フランス事務所)

Co-organizers:
- Fondation Maison franco-japonaise (公益財団法人日仏会館)

With the support of:
- Tohoku University - IRIDeS (International Research Institute of Disaster Science), FRI (Fracture and Reliability Research Institute) and CNEAS (Center for Northeast Asian Studies)

Workshop organizers and partners:
- AIST: National Institute of Advanced Industrial Science and Technology
- BRGM: Geological and Mining Research Bureau
- CEA: French Alternative Energies and Atomic Energy Commission
- CEREMA: National Center for Studies and Expertise on Risks, Environment, Mobility and Urban and Country Planning
- CHU (University Hospital Center) Grenoble Alpes
- CNRS: National Scientific Research Center
- Doshisha University
- GéNéPi: Granularity of the management levels in crisis context, ANR project which partners are the Ecole des Mines d’Albi, the CRICR, the CEREMA, the DDT45, the DREAL, EDF, InteropSys, the MTE and the University of Toulouse
- IFSTTAR: French institute of science and technology for transport, spatial planning, development and networks
- IMT: Institut Mines-Télécom
- IPGP: Paris Institute of Earth Physics
- IPGS: Strasbourg Institute of Earth Physics
- JAMSTEC: Japan Agency for Marine-Earth Science and Technology
- JMA: Japan Meteorological Agency
- Kagoshima University
- Kyoto University - DPRI (Disaster Prevention Research Institute)
- LIA HPRD: Joint International Laboratory on Human Protection and Response to Disaster between UMIFRE 19, Research Institute on Japan, CNRS, French Ministry of Foreign Affairs and University of Lille in France, University of Fukushima and University of Doshisha in Japan.
- RTRI: Railway Technical Research Institute
- SEISM Institute, a joint institute on seismic risk from Paris-Saclay University : CEA, EDF, CentraleSupelec, Ecole Normale Supérieure Paris-Saclay and CNRS
- TANDEM: Tsunamis in the Atlantic and the English ChaNnel Definition of the Effects through numerical Modeling, ANR project which partners are: CEA, BRGM, EDF, Ecole des Ponts ParisTech, JMA, University of Pau, IRSN, SHOM, INRIA, IFREMER and PRINCIPIA
- The University of Lille – CLERSE (Lille Center for Research and Studies on Sociology, Economics)
- The University of Lyon
- The University of Nîmes
- The University of Orléans
- The University of Tokyo - ERI (Earthquake Research Institute) and AORI (Atmosphere and Ocean Research Institute)
- UMIFRE 19: Research Institute on Japan, CNRS, French Ministry of Foreign Affairs.
- United Nations Office for Disaster Risk Reduction (UNISDR) Office in Japan
- Univ. Grenoble Alpes
- Université Clermont Auvergne – LMV (Laboratory Magmas and Volcanoes)