



12th International Symposium on Deep Seismic Profiling of the Continents and their Margins



THE UNIVERSITY OF TOKYO

September 24 - 29, 2006
Shonan Village Center, Hayama, Japan



3rd Circular

On behalf of the Earthquake Research Institute (ERI) at The University of Tokyo, the Japan Agency for Marine-Earth Science and Technology (JAMSTEC) and the National Institute for Earth Science and Disaster Prevention (NIED), the Organizing Committee of the 12th International Symposium on Deep Seismic Profiling of the Continents and their Margins welcomes you to the Shonan Village Center, Hayama. We thank all participants for attending the meeting, and wish you to enjoy the conference and your stay in Japan.

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SCIENTIFIC PROGRAM

All oral and poster presentations concern deep seismic techniques for imaging and constraining the structure, composition and tectonics of the continental lithosphere. The focus of the scientific program will be on studies of the Earth's crust and lithosphere using the full range of seismic imaging methods, and on the integration of these studies with other geophysical techniques (e.g., MT and passive seismology) and geological data.

Science Themes

1. Japan Session
 Outlines of geophysical features and geological evolution of Japanese islands (Key note only).
2. Active Continental Margins

Including results from subduction zones, accretionary complexes, forearc basins, volcanic island arcs, back arc basins / ridges and vertical transform orogens. Including, but not limited to, reflection, refraction and OBS studies in these terrains.

3. Intra-continental Collision and Accretion

Continent-continent collisional belts. Involving crustal thickening, heating and internal deformation, the dynamics at the crust-mantle interface, and faults and fault zones which may define major discontinuities.

4. Continental Rifts and Basins

The geometry of rift basins, their extensional fault systems, bounding faults and internal structures. Also including features of the underlying layered lower crust.

5. Passive Continental Margins

Focusing on the geometry of passive margins (symmetrical or asymmetrical) their internal faults, the role of the middle / lower crust, the amount and distribution of extension on a crustal and lithospheric scale, deformation (pure shear versus simple shear). Including, but not limited to, reflection, refraction and OBS studies in these terrains.

6. Integrated Multidisciplinary Case Studies

Case studies that show the use of the wide angle range of seismic imaging studies that have been coupled with other disciplinary techniques. These techniques include, but are not limited to, magneto-telluric studies, potential field surveys, geochronological studies, thermo-mechanical modeling and rock properties analysis. The seismic imaging can include a range of techniques including ‘high-resolution’ surveys, passive and active source surveys, two- and three-dimensional tomography studies.

7. The Continental Mantle

Studies of the deep lithosphere using the range of seismic techniques available. Also including studies involving mantle xenoliths and the core, and addressing issues such as nature of Moho, intra-mantle reflections and mantle characteristics.

8. Numerical Modeling of Heterogeneity and Anisotropy

Forward and inverse modeling of seismic attributes; synthetic seismogram modeling, and other numerical techniques.

9. Innovative Seismic Acquisition and Processing Techniques.

Those topics related to data collection and processing. Covering deep seismic survey design, 3D deep seismic data collection and processing, full wave-field recording and processing, wide-angle surveys and three component data. Including topics such as the meaning of deep reflectivity, differences between vertical-incident and wide-angle data sets, velocity differences, imaging steep faults, improving single/noise and active and passive sources.

10. Seismic Investigations Related to Mineral Resources and Volcano-plutonic System

The role of deep seismic surveys in understanding the role of the deeper crust in mineral and energy distribution. Including issues involving global metallogeny, geodynamics and ore deposit evolution, beyond oil exploration – the basement, mineral deposits and seismic studies. Also addressing the fundamental issues of imaging and modeling of field systems.

11. Subduction Structures of Megathrust Zones (sponsored by JAMSTEC and NIED)

Seismic images at the subduction megathrust zones from reflection and wide-angle reflection/refraction surveys, and tomography studies. Addressing the detailed mapping of the source areas of megathrust earthquake.

12. Seismic Investigations for Disastrous Earthquake Areas (sponsored by NIED, ERI and JAMSTEC)
Results from seismic investigation in disastrous earthquake areas. Imaging and mapping of source and active faults and regional characterization in disastrous earthquake areas by seismic surveys using active and passive sources.
13. Classic Transect (sponsored by IGCP 474 project)
The process of documentation and description of ‘Classic’ seismic transects throughout the world. Covering issues including ‘what are their characteristics’ and ‘what we have learnt from them’.
14. Japan Transect (poster session only)
Results of seismic imaging and geological surveys in Japan to traverse Japanese islands from trench to back arc. The seismic imaging with high-resolution surveys, passive and active source surveys, two- and three-dimensional tomography studies. This is a poster session only.

Oral Presentations

Program of oral presentation is [click here.](#)

All talks will be held in the auditorium (at the Conference floor, see the map of Shonan Village Center). The time allotted to each presentation is 20 minutes including the short questions (except for Japan session).

Audio-visual equipment

The Conference Center is equipped with one projector for digital computer presentations (e.g., Powerpoint), one 35 mm slide projector, one overhead projector and two screens.

Speaker ready room

A room in the Conference Center is available for pre-projection. Speakers should bring the file containing their talk to a meeting organizer in the pre-projection room via CD or memory stick. Speakers presenting in the morning should hand in their file at least a day before their presentation. Speakers presenting in the afternoon should hand in their file before the beginning of lunch break.

Poster displays

Posters will be displayed in the Conference Center. All posters are allocated one side of 2.40 m width x 1.20 m height board (The exact size of the poster board is 2.40m x 0.9m, however a poster with a size of 2.40 m width x 1.20 m height can be displayed). Poster presentations will be held in two periods. In Poster Session 1, posters should be put up on Monday 25th morning and must be taken down before 22:00 on Tuesday 26th. In Poster Session 2, posters should be put up on Wednesday 27th morning and must be taken down before 12:00 on Friday 29th. Poster presenters may locate their poster board by their number in the program.

Ad hoc meetings and presentations

Following previous Symposia as in Mont-Tremblant/2004, it is also our aim to stimulate debate on key points that can have important influence in our future research. Therefore, three special interest group discussions have been planned. Anyone wishing to raise additional topics for discussion should contact one of the conference organizers before dinner on the Monday night.

Monday 25, 20:00-21:30 Seismic investigations in Asia: upcoming efforts and opportunities for collaborations (Hiroshi Sato and David Okaya).

Tuesday 26, 20:00-20:30 Next and Future Meetings (Organizing Committee)
20:45-22:00 TopoEurope and EuroArray (Hans Tybo)

Wednesday 27, 21:30-23:00 Organizing the next CCSS workshop (Colin Zelt and John Hole)

The subject of our meeting would be to discuss plans for organizing the next "CCSS" workshop (Commission on Controlled-Source Seismology). This meeting has been going for many years and is the "techniques" meeting for the deep seismic community. J. Hole and C. Zelt organized the previous workshop in 2003 (<http://crust.geol.vt.edu/hole/ccss/>) and they need to find someone (or group) who would be interested to host the next meeting.

Thursday 28, 20:15-22:00 IGCP474 Business Meeting (Bruce Goleby)

IGCP Project 474, "Images of the Earth's Crust & Upper Mantle" is aimed at providing ready access to seismic images of the Earth's basement geology, deep crust and upper mantle, with interpretations of these data contributing to more informed debate on tectonic processes, the natural environment, natural hazards and the sustainable use of natural resources. IGCP Project 474's seismic images of the Earth's basement geology, deep crust and upper mantle are available via its web site <http://www.earthscrust.org/>. This business meeting will discuss IGCP Project 474 future plans.

Publication of meeting volume

The Organizing Committee has made preliminary arrangements with the publisher of Elsevier journal *Tectonophysics* for a Special Symposium Proceedings issue. This issue will be similar to those already published from previous Symposia. In order to ensure the widest dissemination of the results presented in this Symposium we strongly encourage the participants to publish their presentations.

All those planning to submit a paper to the Proceedings Volume will be asked to indicate the probable authorship and title during the meeting.

Because the time to publication is controlled mainly by the speed on initial submission and because we wish to publish the volume one year after the meeting, we require the papers be submitted no later than December 15th. All manuscripts will undergo rigorous external review, following the standard *Tectonophysics* procedure.

MEETING INFORMATION

Venue

Shonan Village Center is located near the center of Miura Peninsula with its scenic views of Mt. Fuji and an overlook onto Sagami Bay. See <http://www.shonan-village.co.jp> for more details about the venue. It is 50 km from Tokyo and 2.5-hour from Tokyo (Narita) International Airport by direct train. In late September, expect a nice early autumn season and temperatures in the high 20° C during the day and about 17° C at night.



Hotel facilities

An 18-meter indoor heated pool is free of charge. Please bring your own swimming cap.

Internet access is available by LAN at guest rooms and by wireless LAN at the Lobby (1F) and the Conference floor. **Please bring your own Ethernet cable for the usage in a guest room.**

Meeting timetable

From 24th to 29th September 2006

DAY	MORNING	AFTERNOON	EVENING
Sunday 24th			Icebreaker party
Monday 25th	Oral session Japan Session	Oral & Poster session	Poster session and cash bar
Tuesday 26th	Oral session	Oral & Poster session	Poster session and cash bar
Wednesday 27th	Oral session	Excursion to Kamakura + Dinner	
Thursday 28th	Oral session	Oral & Poster session	Poster session and cash bar
Friday 29th	Oral session	Check-out by noon. End of Symposium	

Meals

All meals will be served at the restaurant of the Shonan Village Center, except Wednesday's Dinner which will be served at a restaurant in Kamakura city.

Meal hours are:	Breakfast	07:00-08:15
	Lunch	12:00-13:00 (except Wednesday 12:20-13:00)
	Dinner	19:00-20:00

*You will need to present your nametag (see in your Registration packet) for every meal.

Refreshment breaks

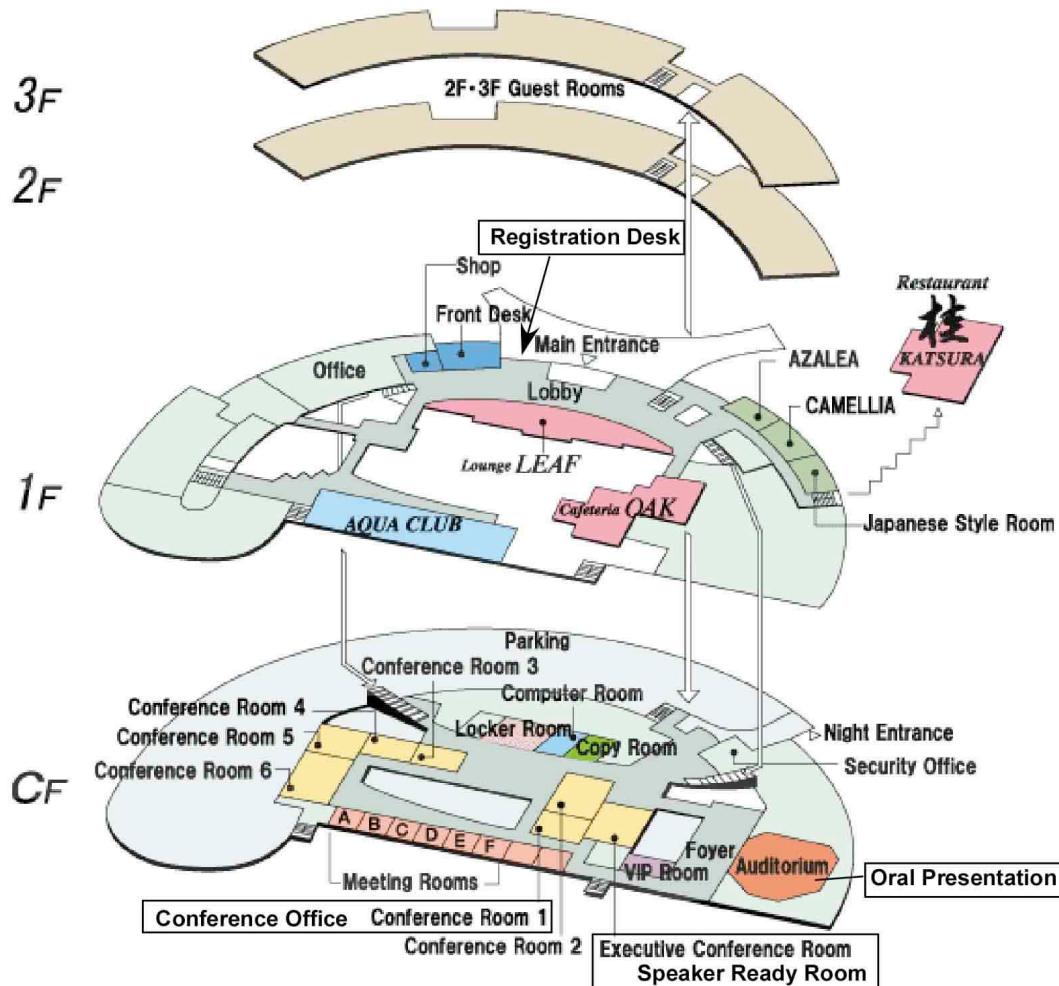
Coffee, tea and refreshments will be served at the Conference Center during coffee breaks. An open cash bar will also be available during the poster sessions.

Daily announcements

Program changes and any other announcements will be posted beside the front desk in the lobby of the Shonan Village Center.

Conference office

The Conference Office is in the Conference Room 1 of the Conference floor. It will be staffed by members of the Organizing Committee, normally from 13:15 – 14:00 and from 18:00 – 19:00.



Social and tourist activities

On Sunday evening (19:30-21:30) there will be an Icebreaker party at the Shonan Village Center.

On Wednesday afternoon (after lunch) there will be an excursion to visit the city of Kamakura. This excursion includes a tourist trip around the city and a conference dinner.

Half-day field excursion

On Wednesday 27th, we plan a bus trip to Kamakura City. On the way to Kamakura, we can observe the hills consist of Neogene fore arc sediments. Kamakura served as the political center of Japan for 150 years beginning in 1192. This trip takes you to the most spectacular spots within Kamakura City, such as the Great Buddha in Kotokuin Temple, Hase Kannon Temple, etc.



REGISTRATION INFORMATION

Registration deadline is September 16, 2006.

All prices are in Japanese yen (100 JPY=0.87 USD, 0.75 EUR on March 10, 2006)

Conference registration

For registration, click [here](#). (It is available by September 16, 2006.)

Registration from the scientists who lives in the countries, which requires VISA to visit Japan will not be accepted.

Registration Fees (JPY)

Participants	45,000 JPY
Students	25,000 JPY
Accompanying person	12,000 JPY

*Registration includes: abstract volume; participation in all sessions; twice-daily coffee-breaks; social events (e.g. icebreaker and a half-day trip) and shuttle from nearest railway station (Zushi Station) to Conference center.

Accommodation registration

Accommodation registration is over. Limited number of rooms is available. Please ask to Seismix 2006 staff by e-mail. E-mail address: hanzawa@shonan-village.co.jp

Excursion registration

Cost of the excursion is 50,000 JPY. It includes transportation, hotel accommodation, field guide, and most meals. We can accept small number of participants. Please ask to Seismix 2006 staff by e-mail. E-mail address: hanzawa@shonan-village.co.jp

Post-symposium Field Excursion: (Saturday, September 30 - Monday, October 2) Active Tectonics in the Izu-Tanzawa Collision Zone

The Izu-Bonin Arc on the Philippine Sea Plate is now colliding against the Honshu Arc on the Eurasian Plate, forming the Izu-Tanzawa Collision Zone several tens of kilometers west of Hayama. The vigorous tectonic activities in this zone are represented by fault movements, volcanisms, and seismicities at present. It has also created spectacular landforms there. We will visit several areas to observe and discuss these tectonic features, using recent seismic reflection/refraction studies. Schedule of field excursion, click [here](#)



LOGISTICAL AND ADMINISTRATIVE INFORMATION

Registration and Check-in

The registration office will be allocated at the Hotel reception. Check-in will be available from Sunday 24th at 15:00.

Methods of payment

The Conference Organizers accept only payments in Japanese yen (JPY) by Visa, MaterCard or American Express. Please see each registration form.

**All payments, for both registration and board and lodging must be received in full by the registration deadline on June 23.

Cancellations and refunds

Registration fees will only be refunded if the notice of cancellation is received in writing before the registration deadline (June 23). Refunds for cancellation requests received in writing after June 23 will be determined based on whether your room/board package can be resold. In any event, the cancellation fee is 10,000 JPY to cover commitments entered by the Organizing Committee on your behalf. No refunds will be made for cancellation request received after August 23.

Travel to/from the symposium

Detailed explanation, [click here](#) (pdf file).

By JR Sobu-Yokosuka Line Rapid Train('Airport Narita'). Get off at Zushi Station. (2 hours 30 mins. approx. from Narita Airport).

By JR Narita Express. Change at Yokohama Station to JR Yokosuka Line. Get off at Zushi Station (2 hours approx. from Narita Airport).

From JR Zushi Station take Keikyu Bus (No. 16). Get off at Shonan Kokusaimura Center Mae. (30 mins. approx.). The organizing committee will arrange shuttle bus from nearest railway station (Zushi Station) to Conference center.

Detailed information of the transportation from Narita Airport to the conference center will be uploaded before the symposium.

Travel information is available from this URL.

http://www.shonan-village.co.jp/english/link_index.html

HEALTH INSURANCE

Emergency medical care of Japan is very expensive. Therefore we strongly recommend you to purchase traveler's health insurance before coming to Japan.

NEXT AND FUTURE MEETINGS

Scientists willing to host the 13th or later International Symposium on Deep Seismic Profiling in 2008 must communicate their interest, with estimated costs, to the Organizing Committee before the evening of Monday September 25, at the 12th Symposium. An announcement will be made at the Symposium Dinner.

SPONSORS

We acknowledge with thanks the financial support of:

Japan Society for the Promotion of Science,
InterMARGINS,
Earthquake Research Institute, the University of Tokyo (ERI)
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
National Research Institute for Earth Science and Disaster Prevention (NIED)
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JGI, Inc.
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Japan Continental Shelf Survey Co.Ltd.
Hanshin Geological Engineering Co. Ltd.
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Hakusan Corporation

*Financial support from the IGCP 474 was spent for discount the registration fee of students and for the support of travelling cost of invited presenters in the Classic Transect session.



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International Association of Seismology and Physics of the Earth's Interior (IASPEI)
International Lithosphere Program (ILP)

Japan Geoscience Union
Seismological Society of Japan
Geological Society of Japan



ORGANIZING COMMITTEE

Contact address: seismix2006@eri.u-tokyo.ac.jp

Takaya Iwasaki (Chair: Earthquake Research Institute, The University of Tokyo)
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-0032, Japan

iwasaki@eri.u-tokyo.ac.jp, Tel. +81(3)5841 5708; fax +81(3)5689 7234

Yoshiyuki Kaneda (Vice Chair: Japan Agency for Marine-Earth Science and Technology)

Tanio Ito (Vice Chair: Chiba University)

Hiroshi Sato (Secretary in general: ERI, The University of Tokyo)

Shuichi Kodaiara, Narumi Takahashi (Japan Agency for Marine-Earth Science and Technology)

Takashi Iidaka, Naoko Kato (ERI, The University of Tokyo)

Kiyoshi Ito (Kyoto University)

Masaki Kanao (National Institute of Polar Research)

Takanobu Yokokura (National Institute of Advanced Industrial Science and Technology)

Keiji Kasahara (National Institute for Earth Science and Disaster Prevention)

Secretariat

Yuko Izaki (Secretary: ERI, The Univ. of Tokyo)

Sumiko Ogino (Web design, The Univ. of Tokyo)

Advisory Committee

Mizuho Ishida* (National Institute for Earth Science and Disaster Prevention)

*Present affiliation JAMSTEC

Kiyoshi Suyehiro (Japan Agency for Marine-Earth Science and Technology)

Naoshi Hirata (ERI, The University of Tokyo)

Takeshi Ikawa (GEOSYS, Inc)

Youichi Ohta (Japan Petroleum Exploration Co., Ltd)

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