From the Highest to the Deepest

ISC 2006
FUKUOKA, JAPAN
27th August - 1st September, 2006

Second Circular
17th International Sedimentological Congress

Fukuoka Tower
Ohori Park
Yamagasa
Hakata Doll
Fukuoka International Congress Center
Hakata Bay Cruise

ISC 2006 FUKUOKA, Organising Committee
Website: http://www.isc2006.com, E-mail: isc2006-ec@or.knt.co.jp
Sponsored by: International Association of Sedimentologists
The Sedimentological Society of Japan
The Geological Society of Japan
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Registration Form-pull-out centre page

LATEST NEWS:
Please access our Congress Website, http://www.isc2006.com, regularly as it contains comprehensive information on all aspects of the Congress, such as travel and tourism, accommodation, announcements, special symposia, technical sessions, open symposium, short courses, workshops, social programme and field excursions.

Invitation

On behalf of the Organising Committee, we cordially invite you to attend the 17th International Sedimentological Congress 2006 in Fukuoka, Japan. First convened in Belgium 58 years ago, in 2006 the ISC will be held for the first time in Eastern Asia, in strong cooperation with the Japanese, Korean and Chinese sedimentological communities.

In Eastern Asia, rising mountain ranges and flat-lying plains with magnificent rivers face the world's largest ocean. Between deep-sea trenches, volcanic island arcs and marginal seas, sediments and sedimentary basins are found in a multitude of geological settings, from stable shelves, rifts and accretionary prisms to ocean basins with an extensive influence of tectonics and volcanic/seismic events. The ancient counterparts of these environments exposed on land will provide ample choice for field trips. Eastern Asia also offers insight into some of the oldest cultures and human societies on Earth, spanning more than 5000 years of history, in addition to the spectacular geology and geography.

Sedimentologists have been instrumental in finding and developing new energy and mineral resources during the last century. However, growing concerns about global climate change and the environmental impact of human activities pose new challenges and require innovative approaches to work for the survival of mankind and the sustainability of Planet Earth. As specialists dealing with the phenomena of the solid Earth, atmosphere and oceans, we are expected and challenged to contribute more for the sustainable future of mankind.

The Organising Committee will make every effort to provide excellent facilities for a comfortable and enjoyable scientific congress. We are honoured to host the 17th International Sedimentological Congress and are looking forward to seeing you in Fukuoka in 2006.

Ryo Matsumoto
Chairman, ISC2006 Organising Committee

Congress Venue

The 17th International Sedimentological Congress will be held during late August to early September 2006 in the Fukuoka International Congress Center (FICC). Located in Kyushu, the southernmost of Japan’s four main islands, Fukuoka is a modern commercial city, which served as a sea gateway to continental Asia during Japan’s early history.

The city can be readily reached by frequent flights from international airports in Tokyo, Osaka, Nagoya or Seoul or by the Shinkansen trains (see Fig. 1, page 37). The weather during the scheduled late-summer dates is usually fine with daytime temperatures around 30°C. Low-pressure systems sometimes result in rainy weather, for which the delegates should be prepared. Night-time temperatures range between 20 and 25°C with a pleasant sea breeze blowing in from Hakata Bay.
The Fukuoka International Congress Center is a recently completed, state-of-the-art facility situated on the waterfront of Hakata Bay, located about 1.5 km from the downtown area of Fukuoka. A convenient subway system connects the city centre with the Congress Center. The meeting rooms, where the oral and poster presentations will be held, are all adjacent to one another. PC projectors will be available in each lecture room.

The nearby waterfront park and adjoining “Hakata Bayside Place” with cafes, restaurants and small shops offer a pleasant environment to relax and meet with colleagues.

Although the Congress will be held in Japan, the emphasis of excursions will be on the sedimentology of Eastern Asia. In addition to the wide range of field excursions planned throughout Japan, a number of field excursions will be offered in other Eastern Asian countries and regions.

Congress Theme

From the Highest

to the Deepest

The Eastern Asian region, extending from the highest mountain ranges to the deepest ocean trenches, is the geologically most-active region on this planet. Enormous yields of sediment have created vast delta plains where more than 50% of the world’s population live. Out-board of the continental coastline lies a chain of volcanic arcs and subduction zones where interaction of the Earth’s interior and exterior is most intense. It can be argued that the area is the global centre of both active sedimentation and active interaction between human society and geological processes. The ISC2006 will provide a great opportunity to expand the scope of sedimentology in terms of the frontier of our discipline, the Earth System approach and relevance to society, from the highest quality to the deepest understanding. We invite friends worldwide to this significant scientific event.

Congress Schedule and Important Dates

> Important dates

Start of registration and abstract submission: 1st October 2005
Deadline for field excursions, short courses and workshops registration: 15th January 2006
Deadline for abstract submission: 28th February 2006
Deadline for Travel Grant application submission: 28th February 2006
Confirmation of field excursions: 28th February 2006
Notification of acceptance of abstracts: 15th April 2006
Notification of Travel Grant awards: 15th April 2006
Deadline for social programme: 1st May 2006
Deadline for reservation of accommodation: 1st May 2006
Deadline for payment of all fees: 1st May 2006

The final congress timetable will be posted on the Congress Website during June 2006.

Organising Committee

Chairman
Prof. Ryo Matsumoto (Univ. Tokyo)
Honorary Chairman
Dr Hakuyu Okada (Formerly Kyushu Univ.)
Vice Chairman
Dr Asahiko Taira (JAMSTEC-CDEX)

Secretary General
Dr Hiroki Matsuda (Kumamoto Univ.)

International Scientific Advisory Board, Chairman
Dr Asahiko Taira (JAMSTEC-CDEX)

Advisory Board, Chairman
Prof. Masaaki Tateishi (Niigata Univ.)

Programme Comm., Chairman
Dr Koichi Hoya (Shinshu Univ.)
Field Excursion Comm., Chairman
Prof. Makoto Ito (Chiba Univ.)
Short Courses and Workshops Comm. Chairman
Dr Hajime Naruse (Kyoto Univ.)
Publicity Comm., Chairman
Dr Yasufumi Iryu (Tohoku Univ.)
Local Organising Comm., Chairman
Dr Hiroki Matsuda (Kumamoto Univ.)

30th August 2006 Short Courses, Workshops and
Mid-Congress Field Excursions
31st August 2006 AM Special Symposia/Technical Sessions
PM General Assembly
Evening Gala Dinner
1st September 2006 AM/PM Special Symposia/Technical Sessions
2nd - 7th September 2006 Post-Congress Field Excursions
Registration

> Registration

**On-line Registration** is easy and convenient. The registration site will be open in the Congress Website, http://www.isc2006.com, on 1st October 2005. You can also complete **Registration form** at the centre of this Circular and send to the address below by mail or fax;

ISC2006 Secretariat Office

Shuwa-Okaichimachi Bldg. 8F, 4-27-5, Taito, Taito-ku, Tokyo 110-0016 JAPAN

e-mail: isc2006-cc@or.knt.co.jp, FAX: +81-3-5807-3019

> Congress registration fees

**On or before 1st May, 2006**

Registration fees: ¥30,000

¥10,000 (Students and accompanying persons)

Abstract submission fee: ¥12,000 (per one abstract)

(* Abstract submission fee must be paid at the submission of abstract)

**After 2nd May, 2006**

Registration fees: ¥40,000

¥15,000 (Students and accompanying persons)

**Cancellation policy:** Cancellation of registration should be notified in writing to the ISC2006 Secretariat Office by e-mail, fax or letter.

- Cancellation on or before 1st May 2006: full refund
- Cancellation on or before 1st July 2006: 50% refund
- Cancellation after 2nd July 2006: no refund

> Payment

All payments can be made in Japanese Yen (¥). The prevailing exchange rate in June 2005 is: US$1=¥ 110, EURO€ 1 = ¥ 135. Payment of fees must accompany all registrations. No registration will be confirmed until payment is received. Payment can be made by the following methods: credit cards (Visa, Master Card, American Express, Diners Club and JCB Card) and bank transfer. In **On-line Registration** you can pay via credit card. Those who prefer to send the **Registration form** via mail or fax can pay via credit card or bank transfer.

- **via credit card:** Please fill in the card details on the registration form, Section 10.
- **via bank transfer:** Please transfer registration fee into the congress bank account:

  **Name of Bank:** SUMITOMO MITSUI BANKING CORPORATION
  **Branch:** USHIKU BRANCH (Branch number 012)
  **Saving Account Number:** 4025618
  **Name of Account:** KOKUSAITAISEIKAIIGI KEIRITANTOU NANAYAMA FUTOSHI

You must send via mail or fax a proof of payment with the registration forms to the ISC2006 Secretariat Office.

Abstract Submission

> Abstract submission

Each abstract must be submitted by the person who is going to make the oral or poster presentation (presenter). Each presenter may submit several abstracts for oral and poster presentations in Technical Sessions. Abstract submission fee (¥12,000) is for each abstract. Therefore, if you submit several abstracts, you must pay the amount of fee equivalent to the number of abstracts submitted.

**Submission procedure:** There are two ways to submit abstracts: (a) by an On-line submission on the Congress Website as an attachment of a PDF file of the abstract or (b) by sending a Windows (any version) or Mac formatted disk or CD containing the abstract, together with a printed copy, to the ISC2006 Secretariat Office. We strongly recommend using the on-line submission method. On the Congress Website, click on “Abstract Submission” and log in with your Username and Password, received at the registration. Click on “Submit” and check if your data are correct. After clicking on “Confirm”, the system will automatically issue your Username and Password, which are necessary to activate the submission process. You will also receive confirmation of your Username and Password by e-mail. A template of abstract can be down loaded from the Congress Website. For further detailed instruction concerning submission of abstracts, please refer to the Congress Website or contact the ISC2006 Secretariat Office.

**NOTE:** Delegates who intend to submit abstracts must pay the abstract submission fee at the time of submission of their abstracts. No abstract will be reviewed and included in the abstract volume until the payment of the fee is received. Delegates will be notified of acceptance of this abstract by 15th April 2006. If any abstracts are rejected by reviewers, the abstract submission fee paid in advance will be refunded.

> Format of abstracts

Abstract is limited to one A4-size page, text only without any figures or tables.

**General Layout:** top, bottom, left and right margins are 37 mm, 19 mm, 20 mm and 20 mm, respectively.

**Title:** Upper and lower case, left adjust. Times, 14pt **bold.**
Contributors’ name: Type in all caps, left adjust. Times, 11pt.
Affiliation: Upper and lower case, left adjust, and occupying a single line. Times, 10pt italic. Numbered superscripts should be used to indicate the affiliation of each contributor. E-mail address can be added in parenthesis, at the end of the corresponding contributor’s affiliation.
Main text: Single-spaced text using Times 10pt in two columns of 82.5mm width and 241 mm in length with 5.3 mm separation. If section headings are used, type in all caps using Times 10pt bold, left adjust. If subsection headings are used, type using Times 10 pt bold, upper and lower case, left adjust.
References: Reference style should generally conform with the “Notice to Contributors” located on the inside back-cover of *Sedimentology* – except, references should be numbered, and when referring to a reference in the text, place the corresponding reference number in square brackets [1]. References should be listed in numerical order, in 9pt font (do not use bold text), at the end of the abstract under a section heading entitled “REFERENCES.”

Oral presentation
Each speaker will be allocated 15 minutes for his or her oral presentation, plus five minutes for questions. Each lecture hall has one screen and one PC projector. Delegates who wish to use PC projectors must prepare their talks as a Power Point presentation, and copy the presentation to a CD or a USB memory. The Congress organiser will provide PC laptop computers equipped with CD-ROM drives running Windows and Mac. Delegates who wish to use a 35 mm slide projector or an overhead projector are required to inform the ISC2006 Secretariat Office in advance.

Poster sessions
Posters must be no larger than 0.9 m (width) x 2.1 m (height). Delegates will be allocated times to present their posters.

Technical Details

Language
The language of the Congress will be English, and no translation facilities will be available.

Congress programme
- Special symposia (see page 7)
- Technical sessions (see page 8)
- Open symposium (see page 11)
- Short courses and workshops (see page 11)
- Field excursions (see page 14)
- Social programme (see page 33)
- Exhibition (see page 36)

Special Symposia
The following special symposia will run during the Congress. These symposia focus on specific and frontier themes and consist of invited oral presentations only. If you intend to have a presentation related to the symposium theme, please submit the abstract to the related technical session.

Theme 1: Tectonics, climate, and sedimentation
SS1-1 Sedimentation in and around magmatic arcs in relation to tectonics and volcanism
Conveners: C. Bushy (UCSB) and K. Kiminami (Yamaguchi Univ.)
SS1-2 Monsoons and the Himalaya: tectonics-climate and land-ocean linkages
Conveners: P. Clift (Univ. Aberdeen), H. Zheng (Tongji Univ.) and R. Tada (Univ. Tokyo)
SS1-3 Continental margin sedimentation and deep-water sedimentary systems
Conveners: O. Martenssen (Norsk) and K. Hoyanagi (Shinsha Univ.)

Theme 2: Environmental sedimentology and human society
SS2-1 Coastal environments and human activity
Conveners: S. Goodbred (Vanderbilt Univ.), S. Chun (Chonnam Nat. Univ.), A. Bartholomae (Senckenberg Inst.) and Y. Saito (GSJ/AIST)
SS2-2 Catastrophic sedimentary processes: mechanisms and hazard mitigation
Conveners: F. Nanayama (GSJ/AIST), K. Ikebara (GSJ/AIST) and S. Kiyokawa (Kyushu Univ.)

Theme 3: New targets and innovation in resource sedimentology
SS3-1 Gas hydrates: origin, exploration and resource potential
Conveners: T. Collett (USGS), C. Paull (MBARI) and R. Matsumoto (Univ. Tokyo)
SS3-2 3D seismic technology for exploration and sediment body analysis
Conveners: H. Posamentier (Anadarko) and O. Takano (JAPEX)

Theme 4: Evolution of the biosphere and geosphere
SS4-1 Microbial processes and products in sedimentary systems
Conveners: J. McKenzie (ETH) and A. Kano (Hiroshima Univ.)
SS4-2 Boundary events and global change
Conveners: M. Tucker (Univ. Durham) and Y. Kakova (Univ. Tokyo)

Theme 5: Frontiers in sedimentology
SS5-1 Role of sedimentology in Earth drilling projects
Conveners: A. Taira (JAMSTEC), H. Kudrass (BGR), P. Delany (UCSC), A. Mix (Oregon St. Univ.), W. Soh (JAMSTEC) and N. Suzuki (Hokkaido Univ.)
SS5-2 Extraterrestrial sedimentology
Conveners: H. Miyamoto (Univ. Tokyo) and G. Ori (Univ. G. d'Annunzio)
SS5-3 Integrated strata analysis
Conveners: C. Nittouer (Univ. Washington), S. Berne (IFREMER), J. Syvitski (INSTAAR) and Y. Saito (GSJ/AIST)

Technical Sessions
All participants are invited to submit abstract for oral and poster presentations.
Theme 1: Siliciclastic depositional systems and sequence stratigraphy
Conveners: D. Nummedal (CSM), A. Schaefer (Univ. Bonn), A. T-S Lin (Nat. Central Univ.), T. Sakai (Shimane Univ.) and K. Hoyaanagi (Shinsyu Univ.)
TS1-1 Glacial depositional systems
TS1-2 Aeolian systems
TS1-3 Lacustrine and fluvial systems
TS1-4 Barrier island and estuarine systems
TS1-5 Delta and fan delta systems
TS1-6 Shelf and shallow marine systems
TS1-7 Resedimentation and deep-water sedimentary systems
TS1-8 Sea-level changes and sequence architectures

Theme 2: Carbonates and evaporites
Conveners: W. Pillar (Graz Univ.), G. Cabioch (IRD), D. Chen (Chinese Acad. Sci.), H. Matsuda (Kumamoto Univ.) and Y. Iryu (Tohoku Univ.)
TS2-1 Carbonate sediments: environments and processes
TS2-2 Carbonate diagenesis, geochemistry and hydrogeochemistry
TS2-3 Daily to decadal environmental records in skeletal carbonates
TS2-4 Dolomite and dolomitization
TS2-5 Depositional processes and climatic records of freshwater carbonates
TS2-6 Microbialites
TS2-7 Evaporites

Theme 3: Sedimentary processes: experiments, simulations and field observations
Conveners: J. Southard (MIT), G. Parker (Univ. Illinois), Y. Miyata (Yamaguchi Univ.), T. Muto (Nagasaki Univ.) and M. Yokokawa (Osaka Inst. Tech.)
TS3-1 Physical processes of sedimentary structures
TS3-2 Shallow-marine processes and sedimentation
TS3-3 Density flow processes and sedimentation
TS3-4 Experimental stratigraphy

Theme 4: Basin analysis and numerical modeling
Conveners: C. Bushy (UCSB), C. Paola (Univ. Minnesota) and O. Takano (JAPEX)
TS4-1 Tectonics and sedimentation
TS4-2 Sedimentation in rift basins
TS4-3 Sedimentation in strike-slip and forearc basins
TS4-4 Basin analysis and stratigraphic modelling

Theme 5: Petrology, mineralogy and geochemistry of sediments
Conveners: S. Cristelli (Univ. Calabria), H. Yoon (Korea Polar Res. Inst.), M. Kametaka (GSJ/AIST) and K. Yoshida (Shinsyu Univ.)
TS5-1 Sandstone petrology: provenance and diagenesis
TS5-2 Clay mineralogy and geochemistry
TS5-3 Siliceous and phosphatic sediments
TS5-4 Ironstone and metalliferous sediments
TS5-5 Inorganic geochemistry and chemostratigraphy

Theme 6: Volcano-sedimentology
Conveners: J. White (Univ. Otago), U. Martin (Würzburg Univ.), K. Nemeth (Massey Univ.) and K. Kano (GSJ/AIST)
TS6-1 Eruptions and tephra dispersal on land and under the sea
TS6-2 Sector collapse, avalanches and lahars
TS6-3 Calderas and volcaniclastic sediments
TS6-4 Facies models in volcanic settings: volcanoes and hydrothermal systems

Theme 7: Marine geology and sedimentology
Conveners: K. Ikebara (GSJ/AIST), M. Li (BIO/GSC) and K. Arai (GSJ/AIST)
TS7-1 Marine sediments and sedimentology
TS7-2 Sediments and sedimentary processes on continental shelves
TS7-3 Particle transport processes in the marine environment; from suspended/sinking particle to sediment
TS7-4 Cold seeps, gas hydrates and related phenomena: past and modern

Theme 8: Palaeontology and sedimentology
Conveners: G. Pemberton (Univ. Alberta), H. Ando (Ibaraki Univ.) and Y. Kondo (Kochi Univ.)
TS8-1 Fossil records in stratigraphic framework
TS8-2 Ichnotaxonomy and sedimentary facies
TS8-3 Palaeoecology, taphonomy and sedimentary records
TS8-4 Microfossil and organic records for sedimentary environment analyses

Theme 9: Environmental and applied sedimentology
Conveners: K. Kashima (Kyushu Univ.), F. Nanayama (GSJ/AIST) and T. Ueki (GSJ/AIST)
TS9-1 Environmental sedimentology
TS9-2 Holocene stratigraphy and sedimentation
TS9-3 Tsunami, storm hazards and related sediments
TS9-4 Landslides, liquefaction and gravity flow
TS9-5 Flood hazards and related sediments

Theme 10: Resource sedimentology
Conveners: H. Arato (Teikoku Oil Co.), A. Mizobe (Teikoku Oil Co.), T. Nakanishi (INPEX) and O. Takano (JAPEX)
TS10-1 Hydrocarbon deposits; coal, petroleum and gas
TS10-2 Organic sedimentology and geochemistry
TS10-3 placer deposits and aggregate resources

Theme 11: Palaeoclimatic and sedimentation
Conveners: Y. II Lee (Seoul Nat. Univ.), S. Ji (NGLAS), L. Jansa (BIO/GSC), T. Sakai (Kyushu Univ.) and H. Fakasawa (Tokyo Met. Univ.)
TS11-1 Lake sediment information and environmental change
TS11-2 Sedimentary record of deep marine Cretaceous: an archive of palaeoceanography, palaeoclimate and global tectonics
TS11-3 Palaeoclimate of the Cretaceous in Asia
TS11-4 Palaeoclimate of the Cenozoic Asia
TS11-5 Sediment record on palaeoceanography and palaeoclimatology
Theme 12: Sedimentology: past, present and future
Conveners: G.M. Friedman (formerly President, IAS), H. Okada (formerly President, SSJ), H. Machiyama (JAMSTEC), O. Takano (JAPEX) and K. Hoyaanagi (Shinsha Univ.)
TS12-1 History of sedimentology
TS12-2 New technology for sediment analysis
TS12-3 IODP and ICPD: new horizon of sedimentology
TS12-4 Extraterrestrial Sedimentology: techniques and interpretations

Open Symposium
The Organising Committee is planning to have an Open Symposium related to the Sumatra earthquake and tsunami in the Indian Ocean and tsunami-related sedimentology for the general public. The symposium will be held in the afternoon of Sunday 27th August, prior to the Congress. Details will be announced on the Congress Website in due course.

Short Courses and Workshops
Deadline: 15th January 2006
The following short courses and workshops will be offered during the Congress, depending on responses.

Short courses and workshop registration procedure: Registration in advance is required for all short courses and workshops in view of the preparation required, although there is no cost for SC 3. We strongly recommend using on-line registration. On the Congress Website, click on “Short Courses & Workshops” and log in with your Username and Password. In case you do not have Internet access, please complete the registration form at the centre of this Circular and send it by mail or fax to the ISC2006 Secretariat Office.

Fees: The fee includes lecture notes but does not cover lunches. In SC 6, the fee does not include accommodation and transportation to/from Kochi. Delegates need to make their own transport arrangements to/from Kochi.

NOTE: WS 1, WS 2 and SC 5 will be held prior to the Congress. A desk for these participants will be opened at 9:00 am on the 4th floor of FICC before the opening of the official registration desk. Delegates will also be able to collect items for the short courses and workshops.

Short Courses
SC 1: Physical processes of sediment transport and primary sedimentary structures
> Lecturer: J. B. Southard (MIT)
> Contents: Overview of physical processes of sediment transport and development of primary sedimentary structures. Topics to be covered: fluid forces on sediment particles; turbulent flows over sediment beds; unidirectional and oscillatory flows; threshold of sediment movement; transport of particles; bed configurations; and sediment gravity flows. Emphasis will be on basic concepts, results from laboratory experiments and field studies, and applications to the ancient sedimentary record. Participants will receive lecture notes.
> Date: 30th August, 9:00 - 17:00 (6 hrs)
> Minimum participants: 15
> Maximum participants: 70
> Cost: ¥ 5,000 (¥ 3,000 for students)

SC 2: Biomineralization and microbialites - Frontiers in carbonate sedimentology
> Lecturers: J. Reitner and G. Arp (Univ. Göttingen)
> Contents: Geological significance and theory of organo- and biomineralization. Theoretical introduction to sampling, sample preparation and analysis (fixation, embedding, sectioning, various microscopic techniques, fluorescence in situ hybridization). Practical exercises using light and fluorescence microscopy of recent/fossil microbialites and biofilms (e.g., cold seep carbonates, tufa biofilms, microbialites of reefs, and highly-alkaline lakes). Numerical modeling of microbial biomineralization (hydrochemistry and stable isotopes).
> Date: 30th August, 9:00 - 17:00 (6 hrs)
> Minimum participants: 10
> Maximum participants: 70
> Cost: ¥ 5,500

SC 3: Experimental stratigraphy: research and educational tools for academia and industry
> Lecturers: C. Paola (Univ. Minnesota), T. Muto (Nagasaki Univ.) and O. Takano (JAPEX)
> Contents: Major results of experimental stratigraphic research, how experiments are designed and set up, what equipment and supplies are needed, and illustrations of exercises for classes and industrial short courses. Experimental methods will include fluvial, shallow-marine and deep-marine (density and mass flow) processes. Participants will receive lecture notes and a CD.
> Date: 30th August, 9:00 - 17:00 (6 hrs)
> Minimum participants: 10
> Maximum participants: 70
> Cost: Free

SC 4: Quaternary carbonates around the Ryukyu Islands - sedimentary facies and sea level changes
> Lecturers: Y. Tsuji (JOGMEC), Y. Iryu (Tohoku Univ.), K. Sugihara (Fukuoka Univ.) and H. Matsuda (Kumamoto Univ.)
> Contents: Quaternary carbonate deposits comprising reefal and deeper water facies, occur around the Ryukyu Islands, southwestern Japan. The reefs consist of coralliferous limestone in which more than 100 species of hermatypic corals are recognized, and deeper water facies consist of rhodoliths and larger foraminifera limestones. The contents of this short course will be (1) Introductory lectures on present-day and Quaternary carbonates around the Ryukyu Islands, (2) Observations of marine sediments and core samples, as well as thin sections, and (3) Sedimentological analyses of the carbonate succession and palaeontological examination of fossil assemblages for reconstructing sea-level changes. This short course is intended to provide a facies model applicable to Cenozoic carbonates and is related to Field Excursions A12, B12 and B13.
> Date: 30th August, 9:00 - 17:00 (6 hrs)
> Minimum participants: 5
> Maximum participants: 20
> Cost: ¥ 5,000 (¥ 3,000 for students)
**SC 5:**  
Optimal modelling of depositional environments by integration of subsurface geological and geophysical information

**Lecturers:** S. Lang (Adelaide Univ.), T. Nakanishi (INPEX) and Paradigm Geophys. Corp.

**Contents:** The integration of sequence stratigraphy, sedimentology, modern and ancient analogues, well data and seismic data analysis to build a variety of depositional environment models for subsurface successions. Leading edge application of 3D seismic data visualization and its application for depositional modelling of subsurface. Application of an optimal modeling of depositional environment to estimate spatial arrangement of reservoir and seal rocks for petroleum explorations. Exercises on well and seismic data.

**Date:** Part I: 27th August, 10:00 - 18:00 (6 hrs), Part II: 30th August, 9:00 - 17:00 (6 hrs)

**Minimum participants:** 10  
**Maximum participants:** 40

**Cost:** ¥ 9,900

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**SC 6:**  
Marine core description & physical property measurements

**Lecturers:** K. Kodama (Kochi Univ.) and W. Soh (JAMSTEC)

**Contents:** Practical exercises and basic lectures on physical properties and non-destructive measurements of real cores. Overview and the basic lectures using advanced instruments including X-ray CT scanner, multi sensor core logger (MSCL), digital image scanner, and XRF core analyser. Laboratory tour for all research sections employed by the Integrated Ocean Drilling Program (IODP) will be also held. We will organise a workshop discussing new ideas related to analysis methods for continuously cored sediment.

**Date:** 2nd - 4th September (3 days); laboratory tour: 3 hrs, practices: 2 days, workshop: 5 hrs

**Place:** Center for Advanced Marine Core Research, Kochi University, Kochi  
(http://www.kochi-u.ac.jp/marine-core/index.html)

**Minimum participants:** 10  
**Maximum participants:** 30

**Cost:** ¥ 3,000

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**Workshops**

**WS 1:**  
Sequence stratigraphy: a review and look forward

**Organiser:** R. Steel (Univ. Texas at Austin)

**Contents:** In this workshop we will explore a range of new viewpoints on sequence stratigraphy including Holocene coastal changes, tidal systems revisited, delta vs accommodation-dominated shelves, autostratigraphy, and process change in sequences. Contributions for discussion from R. Dalrymple, S. Porebski, C. Paola, F. Masuda, S. Yoshida, M. Ito and T. Muto.

**Date:** 27th August, 10:00 - 18:00 (6 hrs)

**Minimum participants:** 20  
**Maximum participants:** 70

**Cost:** ¥ 2,800

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**WS 2:**  
Sediment gravity flow deposits: major advances over the last 10 years and remaining problems

**Organisers:** G. Parker (Univ. Illinois), H. Naruse (Kyoto Univ.), R. Hiscott (Memorial Univ. Newfoundland) and F. Masuda (Kyoto Univ.)

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**Field Excursions**

**Deadline:** 15th January 2006.

The following field excursions are on offer (see Fig. 3A & B, pages 39 & 40). There are pre-, post- and mid-congress excursions, designated by “A”, “B” and “C” prefixes, respectively.

**Field excursion registration procedure:** We strongly recommend using on-line registration. On the Congress Website, click on “Field Excursions” and log in with your Username and Password. In case you do not have Internet access, please complete the forms at the centre of this Circular and send it by mail or fax to the ISC2006 Secretariat Office. Delegates should preferably select one or two back-up excursions in case their first choice is oversubscribed or cancelled. Places will be allocated strictly on a first-come first-paid basis, based on replies received electronically or by post the conference organisers, and full payment being received.

In the event that an excursion is under-subscribed, that excursion may be cancelled at the sole discretion of the organisers. If your first preference is already fully booked, you will be allocated your second choice if available. You will be refunded if your excursion is cancelled or no other choice available. In the event that you are allocated a second or third choice excursion, you will be asked to pay any difference due. Any credit will be refunded if you are placed on an alternative excursion that is less costly than your first choice.

**Rendezvous time and details:** Excursion leaders will communicate with successful participants on confirmation of their participation, final details or possible changes. If you have any special meal requirements, please contact excursion leader in advance.

**Excursion fees:** Excursion fees include accommodation plus transportation during the excursions. Concerning meal costs, please check the information in each excursion. The excursion fee does not cover items such as alcoholic beverages, telephone calls, laundry, gratuities, and any other personal items. Fees do not include the travel costs of delegates to starting points of excursions, which is the delegate’s responsibility. For pre-congress excursions, delegates need to make their own transport arrangements to travel to Fukuoka, if the excursion ends elsewhere.

**Cancellation:** In case a delegate cancels a field excursion booking, the following will be applicable:

- On or before 1st May 2006  - full refund
- On or before 1st July 2006  - 50% refund
- After 2nd July 2006  - no refund

Weather: The season will be late summer. Summers in Japan, except in the northern part of Japan, are very hot and sticky. Temperature during the daytime can be higher than 30°C. Showers may be expected. Further, typhoons may approach Japan islands in late summer. Therefore, hats and sun protection is strongly advised for all excursions and you are advised to be prepared for rain and wind. Whereas you may feel some coolness during nights and cloudy-rainy days in the northern part of Japan. Please check the weather information of the excursions carried out in this region.

Gear: Most of field excursions will be operated under normal field conditions. You are advised to prepare for reasonable fitness and strong hiking boots, outdoor clothing, raincoat or umbrella, hat, sunglasses, sun screen lotion and back pack.

Pre-Congress Field Excursions

FE-A1: Shallow to offshore marine bio- and lithofacies changes along basin transect and Cenomanian-Turonian oceanic anoxic event in Cretaceous Yezo forearc basin, central Hokkaido

> Leaders: H. Ando (Ibaraki Univ.; ando@mx.ibaraki.ac.jp), T. Hasegawa (Kanazawa Univ.), H. Hirano (Waseda Univ.) and Y. Hikida (Nakagawa Mus. Nat. Hist.)

> Description: We focus on the Cretaceous to Paleocene forearc basin sediments, called the Yezo Group in central Hokkaido. We observe depositional facies and biofacies changes along a basin transect in the Mikasa and Yubari areas. Shallow-marine sedimentation in the western basin margin can be recognized as the uppermost Albian to Turonian Mikasa Formation and the Campanian-Maastrichtian Hakobuchi Formation. The eastern contemporaneous offshore facies called the Saku Formation consists of mudstone and turbidite facies and abundantly contains various kinds of well-preserved ammonites. The Cenomanian-Turonian OAE horizon can be traced by chemostratigraphy. We can also see a cold-seep limestone block recently discovered in a mudstone facies in the Nakagawa area in north Hokkaido.

> Duration: 5days. Wednesday 23 August - Sunday 27 August 2006
> Start and End: New Chitose Airport (Start: 12:30 am, 23 Aug., End: 2 pm, 27 Aug.)
> Transportation: Mini-bus  > Accommodation: Hotel  > Meals: Fee includes all meals.
> Weather: In Hokkaido, it is generally cool and less humid, therefore, very comfortable even in mid-summer. Participants are recommended to bring a light sweater, because they may experience the autumn air in the morning. The temperature ranges from 30 to 10°C. It may suddenly drop to less than 10°C in the early morning after mid-August.
> Degree of difficulty: Shoes and lower legs will become wet because of walking along and across a knee-high water stream on the second day. Long trousers are recommended.
> Minimum number of participants: 5  > Maximum number of participants: 20
> Cost: ¥ 65,000

FE-A2: Fluvial architecture within the Palaeogene braid delta drainage systems, northeast Japan (Pacific Coast); their sequence stratigraphy and facies analyses

FE-A3: Influence of tectonic and eustatic sea-level changes on sedimentation: Change in depositional processes of the Cenozoic Oga Peninsula, NE Japan

> Leaders: M. Shirai (Ocean Res. Inst., Univ. Tokyo; shirai@ori.u-tokyo.ac.jp) and T. Shiraishi (Akita Univ.)

> Description: Drastic deformation of the eastern coast of the Sea of Japan (the East Sea) allows Cenozoic sediments to be exposed on the Oga Peninsula, Akita Prefecture. Particularly, the middle to late Pleistocene shallow marine to non-marine sedimentary cycles are observed at the Anden coast as a result of a combination of eustatic sea-level change, tectonic movement, and sedimentation. We mainly observe sedimentary cycles at the Anden Coast and visit some sites around the Oga Peninsula, which show geologic history of the peninsula closely related with development of the Sea of Japan since Miocene.

> Duration: 3 days, Friday 25 August - Sunday 27 August 2006
> Start and End: Akita Airport and JR Akita Sta. (Akita Shinkansen)
> Transportation: SUX  > Accommodation: Hotel with Japanese style room
> Meals: Fee includes breakfasts and dinners. Lunches are not included.
>Weather: It will be very hot at the coast under the summer sunshine, whereas you may feel some coolness during nights and cloudy-rainy days. The temperature range can be from 20 to 35°C.
> Degree of difficulty: We climb semi-consolidated sandy cliffs. Sturdy footwear is necessary. Be prepared for sun, rain, wind, cool-to-hot temperatures (20-35°C), and the possibility of biting insects.
> Special preparation: If possible, please take your hammers. Scrapers, an important tool for observation of Quaternary sandy sediments, are provided.

> Leaders: K. Yagishita (Iwate Univ.; yagi@iwate-u.ac.jp) and J. Komatsubara (GSJ/AIST)

> Description: Two extensive conglomeratic braid deltas were formed along the Palaeogene Pacific Coast, northeast Japan. One is the Eocene-Oligocene Iwaki Formation, south of Sendai, and the other is the Oligocene Minato Formation, north of Sendai. Both the formations developed along the western (landward) margin of the Pacific forearc basin. Fabric and structure of the conglomerates give us some clues to understand complexities of small-scale fluvial topographies, such as a small channel dissecting the longitudinal bar. Variations of fluvial channels (their scale and internal structures) with their stratigraphic levels clearly relate to the rate of sea-level changes during the basin evolution. Comparison of several facies inland, particularly broadly developed floodplain sediments, with those of shallow marine fine sediments along the basin margin enables us to establish an excellent chronostratigraphic correlation.

> Duration: 5days. Monday 21 August - Friday 25 August 2006
> Start and End: Sendai Intl. Airport (Start: 2pm, 21 Aug., End: 5pm, 25 Aug.)
> Transportation: Mini-bus or SUV  > Accommodation: Hotel
> Meals: Fee includes breakfasts and lunches. Dinners are not included.
> Degree of difficulty: The Iwaki and Minato formations are separated fields. We will spend a mid-day for transportation and sightseeing.
> Minimum number of participants: 3  > Maximum number of participants: 14
> Cost: ¥ 82,000
FE-A4: Glacioeustatic signals and sequence architecture of the Pliocene-Pleistocene forearc basin-fill sucessions on the Boso Peninsula, central Japan

> Leaders: M. Ito (Chiba Univ.; mito@faculty.chiba-u.jp), H. Okazaki (Nat. Hist. Mus. Chiba) and T. Saito (Niigata Univ.)
> Description: This field excursion is designed to discuss sequence-stratigraphic signatures of high-frequency oscillation of glacioeustasy and palaeoceanographic changes in a mid-latitude sea during Pliocene and Pleistocene times. In this excursion, onshore outcrops of the Shinmosa and Kazusa Groups on the Boso Peninsula will mainly be examined. We will focus our discussion on (1) glacial-and-interglacial variations in sedimentation patterns of a barrier-island succession, (2) transition from highstand to falling-stage facies organization of a shelf-and-coastal succession, (3) millenial- and shorter-term stratigraphic cyclocities of a shelf succession, (4) deep-water expression of falling- and lowstand stage sedimentation, and (5) lateral variation in sedimentation pattern from canyon, through channel, to lobe of falling-stage submarine-fan sucessions.
> Duration: 3 days. Tuesday 23 August (early morning) - Friday 25 August (evening) 2006 (Assemble at a hotel near Narita Intl. Airport in the evening or night of 22 August.)
> Start: Hotel near Narita Intl. Airport > End: JR Chiba Sta. (Sobu Line)
> Transportation: SUV > Accommodation: Hotel (downtown of Chiba City)
> Meals: Fee includes breakfasts and lunches. Dinners are not included.
> Degree of difficulty: Normal
> Minimum number of participants: 5 > Maximum number of participants: 20
> Cost: ¥ 45,000

FE-A5: Reconstruction of submarine volcanoes in an arc-arc collision zone, central Japan

> Leaders: K. Amano (Ibaraki Univ.; kazuo@mx.ibaraki.ac.jp) and A.J. Martin (Quintessa Ltd.)
> Description: The South Fossa Magna (SFM), central Japan is an active arc-arc collision zone between the Honshu arc (main Japanese island) and the Izu-Bonin arc. The first collision occurred at 12Ma, about the same time as the opening of the Japan Sea and spreading of the Shikoku basin. The SFM consists of: (1) ancient submarine volcanoes belonging to the palaeo-Izu-Bonin arc, and (2) trench-fill sediments associated with each arc-arc collision. Outcrops of both will be observed in the context of collision tectonics, with particular focus on unresolved formation mechanisms of peperites, subaqueous pyroclastic flow and subaqueous debris flow deposits.
> Duration: 4 days. Tuesday 22 August - Friday 25 August 2006
> Start: JR Kofu Sta. (Chuo Line) > End: JR Shin-Fuji Sta. (Tokaido Shinkansen)
> Transportation: Mini-bus. > Accommodation: Traditional Japanese inn (ryokan)
> Meals: Fee includes all meals.
> Degree of difficulty: Normal, but may have to enter cool streams.
> Minimum number of participants: 5 > Maximum number of participants: 20
> Cost: ¥ 80,000

FE-A6: Large-scale gravelly foreset beds: gravelly spit vs. gravelly delta, Aichi and Shizuoka, central Japan

> Leader: Y. Hiroki (Osaka Kyoiku Univ.; hiroki@cc.osaka-kyoiku.ac.jp)
> Description: The main purpose of this excursion is to compare the sedimentary facies, grain fabrics and palaeocurrent patterns of the large-scale gravelly foreset beds between a gravelly spit and a gravelly delta. Day 1: A mixed sand and gravel beach-shoreface facies (Hosoya Sand, Atsumi Group) and the large-scale gravelly foreset beds of a gravelly spit (Higashikobane Gravel, Atsumi Group). Day 2: The gravel foreset beds of fluvial and a spit within an estuary-fill (Ikebe Gravel, Atsumi Group). The large-scale gravelly foreset beds of a delta (Ogasayama Formation). Day 3: A beautiful historical site of Sho-gun Tokugawa (Kunouzah-Toshogu shrine). The large-scale gravelly foreset beds of the Nogoya Formation: delta or spit?. Day 4: Gravel beach on a recent gravelly spit (Mihono-Matsubara).
> Duration: 4 days. Wednesday 23 August - Saturday 26 August 2006
> Start: JR Toyohashi Sta.(Takaido Shinkansen) > End: JR Shizuoka Sta. (Takaido Shinkansen)
> Transportation: Mini-bus > Accommodation: Hotel
> Meals: Fee includes breakfasts, lunches and one dinner.
> Degree of difficulty: Normal, sometimes walk in bush and on muddy grounds.
> Minimum number of participants: 5 > Maximum number of participants: 20
> Cost: ¥ 60,000

FE-A7: Sediment mobilization features in Tertiary fore-arc basins of Shimanto Terrane in Kii Peninsula

> Leaders: H. Suzuki (Doshisha Univ.; hsuzuki@mail.doshisha.ac.jp) and K. Hisatomi (Wakayama Univ.)
> Description: This excursion visits excellent outcrops of sediment mobilization features in Eocene and Miocene fore-arc basins constructed on accretionary complex of Shimanto Terrane, along the southern coast of Kii Peninsula. On the first day, we will observe sedimentary features developed in the Miocene Tanabe Group, which is a shallower fore-arc basin sediments. Following outcrops will be visited; 1) sedimentary features and soft-sediment deformation of storm- sand-sheets, 2) sedimentary features of tidal deposits, 3) excellent exposures showing internal structure of large scale shale diapirs formed by multiphase injection. On the second day, we will visit several excellent exposures of sediment mobilization features of the Palaogene Muro Group, which is a deeper fore-arc basin. Following outcrops will be visited; 1) excellent outcrop of olistostrome bed (rock-fall deposits), 2) early folding associating sand injection along radial axial fractures of fold, 3) wavy- wrinkled sandstone-dike swarms, which show plume markings at the time of fracturing just before sand injection.
> Duration: 2 days. Saturday 26 August - Sunday 27 August 2006 (Assemble at a hotel in Wakayama city in the evening or night of 25 August.)
> Start: Hotel in Wakayama city > End: JR Wakayama City Sta. (Hanwa Line: early evening of 27 August)
FE-A8: Modern and geohistorical tsunamites in central Japan
> **Leaders:** T. Shiki (shikit.hi@circus.ocn.ne.jp), T. Haraguchi, T. Tachibana and Y. Tsuji
> **Description:** This field excursion will aim at showing two different types of tsunamites, together with various seismsites, in the fields near Nagoya City. 1. Tsunami deposits surged in the Recent coastal lakes and marshes at two locations, near Lake Hamana, Shizuoka Prefecture and Owase city, Mie prefecture. These deposits were investigated to clarify the history and the recurrence time of the tsunamis induced by the trench-type earthquakes, which occurred periodically off the southwestern Japanese coast. Investigation by use of geoslice and short corer will be demonstrated there; 2. Sedimentary facies of the Miocene upper bathyal tsunamites and seismsites which crop out at a narrow sea-side, and their situation in the Miocene sedimentary sequence developed in Chita Peninsula, south of Nagoya. Rounded giant boulder, imbricated conglomerates, fluidized sands, etc. will be observed on the sea-side outcrop.
> **Duration:** 3 days. Friday 25 August - Sunday 27 August 2006
> **Start:** JR Nagoya Sta. (Takaido Shinkansen) or Chubu Intl. Airport  > **End:** JR Nagoya Sta.
> **Transportation:** Bus  > **Accommodation:** Semi-European type hotel with Tatami room and bath
> **Minimum number of participants:** 20  > **Maximum number of participants:** 40
> **Cost:** ¥ 45,000
> **Note:** Bus will start early morning of 25th August. Participants are requested to arrange accommodation for 24th night by themselves. Participants should arrive in Fukuoka by the evening or early night of 27th (the Registration day of Fukuoka ISC).

FE-A9: Shimanto Belt in Shikoku Island: Tectonics and sedimentation in Cretaceous to Miocene accretionary complex
> **Leader:** Y. Hashimoto (Kochi Univ.; hassy@cc.kochi-u.ac.jp)
> **Description:** The Shimanto belt is one of the best studied accretionary complexes in the world. Basic data are abundant, such as lithology, age, thermal history, and deformation structures. Especially in Shikoku, we have great outcrops along coastline to investigate deformation and sedimentary structures. In this field trip, it is planned to observe Cretaceous Shimanto belt, which has melanges composed of blocks of terrigenous and oceanic materials surrounded by shale matrix, and to observe Miocene Shimanto belt, which represents relatively undeformed terrigenous sedimentary rocks such as conglomerate and monoclinic alteration of sandstone and mudstone cut by sand dikes.
> **Duration:** 3 days. Thursday 24 August - Saturday 26 August 2006
> **Start and End:** Kochi Ryoma Airport  > **Transportation:** Mini-bus

> **Accommodation:** Hotel  > **Meals:** Fee includes all meals
> **Degree of difficulty:** On first day, we will walk along some dangerous coastline. Sturdy shoes required.
> **Minimum number of participants:** 5  > **Maximum number of participants:** 20
> **Cost:** ¥ 40,000

FE-A10: Hot-springs in eastern Kyushu and their related sedimentation and microbial processes
> **Leaders:** A. Kano (Hiroshima Univ.; kano@geol.sci.hiroshima-u.ac.jp) and C. Takashima (Hiroshima Univ.)
> **Description:** This excursion will focus on several hot-springs in eastern Kyushu and observe various types of deposits and associated microbial facies. In Beppu, which is one of the most famous hot-spring areas in Japan, we will visit open-air spas with fascinating water colors, and see iron, sulfide, and alunite precipitates. We will stay a night there and an optional tour for bathing will be available. We will also visit carbonate and relatively low-temperature springs in Nagayu, and there we will see calcitic travertine associated with sulfate reduction.
> **Duration:** 2 days. Saturday 26 August - Sunday 27 August 2006
> **Start:** JR Hakata Sta., Fukuoka  > **End:** FICC (returned before ice breaker)
> **Transportation:** Bus  > **Accommodation:** Standard Spa-hotel
> **Meals:** Fee includes breakfast and dinner. Lunches are not included.
> **Degree of difficulty:** Normal  > **Note:** Swimsuit might be useful to bring.
> **Minimum number of participants:** 5  > **Maximum number of participants:** 25
> **Cost:** ¥ 25,000

FE-A11: Modern tidal processes and combined-flow bedforms in a mesotidal sandy flat, Ariake Bay, Kyushu
> **Leader:** Y. Makino (Ibaraki Univ.; makino@mx.ibaraki.ac.jp)
> **Description:** Highlight of this field trip is an excellently developed rhythmic sand bar system in Ariake Bay, showing the largest tidal flat in Japan. The sandy flat at Okoshiki beach, Ariake Bay, is dominated by strong waves in winter and the sands are transported landward. During low tide, the sands are transported seaward by currents through troughs between rhythmic bars twice a day. The morphology of rhythmic bars is preserved for a long time on the balance of above-mentioned sand transportation. A one-hour lecture on the history of Ariake Bay and Kumamoto Plains, short coring at Ariake Bay, and a historical tour of the Kumamoto Castle will be also included.
> **Duration:** 1 day. Sunday 27 August 2006, 7:00 AM to 8:00 PM
> **Start and End:** FICC  > **Transportation:** Bus  > **Meals:** Fee includes lunch.
> **Degree of difficulty:** Sneakers are good for walking on the sandy flat. Mudflat is hardly developed in this area, so it is a pleasant environment for research.
> **Minimum number of participants:** 20  > **Maximum number of participants:** 40
> **Cost:** ¥ 6,000 (Fee includes bus transportation, admission fee, lunch and snacks)

FE-A12: Pleistocene reef complex deposits and Holocene raised coral reefs in the Central Ryukyus
> **Leaders:** T. Yamada (Tohoku Univ.; yamada@dges.tohoku.ac.jp) and K. Sasaki (Kanazawa Gakuin Univ.)

> **Description:** Middle to late Pleistocene reef deposits (the Ryukyu Group) extend on Toku-no-shima. They formed responding to two cycles of sea-level changes. The carbonate rocks are divided in four facies and their configuration and stratigraphic succession correspond well with spatial and depth distribution of the reef biota and associated sediments around the present-day Ryukyu Islands. In this excursion, we will observe such stratigraphic and sedimentological features of the Ryukyu Group. A series of Pleistocene and Holocene coral reef terraces formed on Kikai-jima due to the high uplift rate of ~1.7 mm/yr. We will examine litho- and biofacies of postglacial (Holocene) and interglacial (MIS-3) reef deposits in a subtropical-temperate transition region.

> **Duration:** 5 days. Wednesday 23 August - Sunday 27 August 2006

> **Start and End:** Kagoshima Airport

> **Transportation:** Airplanes and mini-bus

> **Accommodation:** Hotel

> **Degree of difficulty:** Hard-soled shoes and long pants are needed for climbing cliffs and walking around on the Holocene coral reef terraces.

> **Minimum number of participants:** 4

> **Cost:** ¥ 150,000

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**FE-A13:** Lower and Upper Paleozoic sequences in the Taebeaksan Basin, mideastern part of the Korean Peninsula

> **Leaders:** Y.K. Kwon (KIGAM; kyk70@kigam.re.kr), H.S. Lee, J. Woo, Y.J. Shim, S-b. Lee and K.Imseong (Seoul Nat. Univ.)

> **Description:** The Korean peninsula represents an important tectonic link between eastern China and the Japanese Islands, leading to an enhanced geologic interest in paleogeographic reconstruction and tectonic evolution of northern Asia. The Taebeaksan Basin, bounded by the Okcheon fold belt, consists of Lower Paleozoic carbonate-siliciclastic shallow marine platform sequences of Joseon Supergroup, which unconformably overlies Upper Paleozoic non-marine and marine siliciclastics of Pyeongan Supergroup. The field trip will provide a good opportunity to understand the Lower Paleozoic platform and the Upper Paleozoic paralic or fluvial basin evolution under high-order eustatic changes. The trip will also clarify sedimentological and palaeontological similarities and differences from Paleozoic sequences in North- and South-China blocks. Finally, we will discuss hypotheses on tectonic history of Korean peninsula and suture zone between North- and South-China blocks.

> **Duration:** 5 days. Tuesday 22 August - Saturday 26 August 2006

> **Start and End:** Incheon Intl. Airport

> **Transportation:** SUV or Mini-bus

> **Weather:** Mostly sunny days, but should bring a rain coat

> **Accommodation:** Hotel

> **Minimum number of participants:** 10

> **Cost:** ¥ 72,000

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**FE-A14:** Cretaceous non-marine basins in the Korean Peninsula: Yongdong, Kyroken, Eumsung, Kongju, and Haenam basins

> **Leaders:** W.H. Ryang (Chonbuk Nat. Univ.; ryang@chonbuk.ac.kr), B.C. Kim (Korean Inst. Geosci. Mineral Res.), H.R. Jo (Andong Nat. Univ.) and S.B. Kim (Korea Nat. Oil Corp.).

> **Description:** In the southern part of the Korean Peninsula, a series of small-scale Cretaceous non-marine basins occurs within a narrow and long zone bounded by Jurassic to Late Cretaceous NE-SW trending oblique-slip faults. The fault pattern with rhombohedral basin shape indicates that these basins were formed by sinistral strike-slip fault movements. The basins are commonly characterized by fining-upward sedimentary fills that are thick relative to the basin size. The basin-fills show characteristic filling styles of alluvial, fluvial, lacustrine sequences, reflecting different basinal setting. We will stay in one of the ancient cities of Joseon Dynasty.

> **Duration:** 5 days. Tuesday 22 August - Saturday 26 August 2006

> **Start:** Incheon Intl. Airport

> **Transportation:** SUV or Mini-bus

> **Weather:** Mostly sunny days, but should bring a rain coat

> **Accommodation:** Hotel

> **Minimum number of participants:** 10

> **Cost:** ¥ 27,000

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**FE-A15:** Fan-delta systems in Pohang Basin and interaction of braided streams and volcanics in the Janggi Basin

> **Leaders:** I.G. Hwang (KIGAM; ighwang@kigam.re.kr), M.Y. Choe (KORDI), J.J. Bahk (KIGAM) and J.W. Kim (Daewoo International)

> **Description:** Various sedimentary facies, bed geometry and architectures of fan-delta systems in the Miocene Pohang Basin can be observed. Here, coarse clastic sediments were deposited in alluvial fan, braided stream, shallow marine, gigantic Gilbert-type forested, bottomset, slope apron and basin plain environments. Apart from the sedimentary facies, we will observe tectonic control on the evolution of fan-delta systems. In the Janggi Basin (Early Miocene), participants can see the interaction of volcanics and braided stream during the early stage of back-arc spreading. Participants can also see many cultural aspects of ancient Korea. We will visit one of the ancient capital cities of Korea, Kyeongju City (from BC2 to AD10 century).

> **Duration:** 5 days. Tuesday 22 August - Saturday 26 August 2006

> **Start:** Kimhae Intl. Airport, Busan

> **Transportation:** SUV or Mini-bus

> **Weather:** Mostly sunny days, but should bring a rain coat

> **Accommodation:** Hotel

> **Minimum number of participants:** 10

> **Cost:** ¥ 72,000

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**FE-A16:** Tidal flats in the western coast of Korea: estuarine, embayed and open-coast intertidal flats and subtidal sand ridges

> **Leaders:** S.S. Chun (Chonnam Nat. Univ.; sseun@chonnam.ac.kr), J.K. Kim (Chonnam Nat.
> **Description:** Various types of intertidal flat are well developed in the western coast of Korea, in which tidal range is macrotidal (6-9 m) and is not sheltered from winter storm (non-barred). Participants can observe very wide estuarian intertidal flats (one is deltaic estuarius and the other is typical estuarius), embayed muddy and sandy types and typical open-coast sandy tidal flats including tidal beach. Leaders will present short courses on the Cretaceous sedimentology of small-pull-apart, non-marine basins during the trip. We can see excellent footprints of various dinosaurs and oldest shorebirds. We will also visit a province famous for traditional Korean foods and long cultural history (ca. 2,000 years). Participants can enjoy beer on Ferry Boat bound to Fukuoka.

> **Duration:** 5 days. Tuesday 22 August - Saturday 26 August 2006
> **Start:** Incheon Intl. Airport  
> **End:** Busan Harbour or Kimhae Intl. Airport
> **Transportation:** SAV or Mini-bus  
> **Accommodation:** Hotel
> **Weather:** Mostly sunny days, but should bring a rain coat
> **Meals:** Fee includes all meals.  
> **Degree of difficulty:** Normal
> **Minimum number of participants:** 10  
> **Maximum number of participants:** 20
> **Cost:** ¥ 72,000

**FE-A17** High-frequency cycles in the Tertiary siliciclastic strata of the South China Sea margin exposed in NW Taiwan

> **Leaders:** Neng-Ti Yu (Nat. Hsinchu Teacher's Coll.; yun99199@mail.nhctc.edu.tw) and P.B. Yuan (Nat. Sun Yet-sen Univ.)
> **Description:** Taiwan comprises a collisional orogen located at the southeastern edge of the China continental margin. Exposed in the orogenic belts are Tertiary siliciclastic strata, which display various orders of depositional cycles, possibly related to global sea-level fluctuations. The Tertiary deposits were accumulated in a rift basin at the South China Sea margin in which numerous similar basins remain deeply buried. The excursion is designed to observe the stratigraphic architecture, facies characteristics, and parasequence stacking patterns of these Tertiary strata in northwestern Taiwan. We will visit the Oligocene successions along the North Coast, which consist of shoreline and offshore deposits. The lower parasequences display a drastic change of upward-deepening trend in paleobathymetry, whereas the upper ones show a drastic change of upward-shallowing trend. To the southwest of the North Coast and along the North Cross Island Highway, we will visit the eocene Oligocene outcrops that exhibit proximal depositional settings. The excursion is scheduled to conclude at visiting upper Miocene to Pliocene strata in the western foothills of the mountain belt, which manifest million-year-scale depositional sequences.

> **Duration:** 3 days. Wednesday 23 August - Friday 25 August 2006
> **Start and End:** Nat. Taiwan Univ., Taipei (Start: 8 am, Aug. 23; End: 6 pm, Aug. 25)
> **Transportation:** SAV or Mini-bus  
> **Accommodation:** Hotel
> **Weather:** Mostly sunny days, but should bring a rain coat
> **Meals:** Fee includes all meals.  
> **Degree of difficulty:** Normal
> **Minimum number of participants:** 15  
> **Maximum number of participants:** 20
> **Cost:** ¥ 30,000

**Post-Congress Field Excursions**

**FE-B1** Dolomitization of Permian seamount type carbonates and Triassic Jurassic deep-sea bedded cherts, Kuzuu area, central Japan

> **Leaders:** H. Matsuda (Kumamoto Univ.; hmat@sci.kumamoto-u.ac.jp) and Y. Yanagimoto (JAPEX)
> **Description:** In the Kuzuu area, central Japan, Permian, Triassic and Jurassic strata are widely distributed and are composed of carbonate-dominated sheets and chert-dominated sheets. The Middle Dolostone Member of the Middle Permian Nabezama Formation within the carbonate-dominated sheets has a maximum thickness of around 130 meters and the dolostone originated from dolomitization of seamount-capped reeval limestone. The dolomitization is closely related to the Kuzuu unconformity between the Nabezama and Narian Nagaami Formation, and, therefore, is best explained by mixed-water model. Chert-dominated sheets comprise Spathan to Toracian ribbon radiolarian chert and Late Jurassic (?) sandstone. The radiolarian chert deposited on pelagic deep ocean bottom has been intensively folded and is now exposed close to shallow carbonate and elastic rocks by the accretion. In this field excursion, we will focus on the occurrence and genesis of Permian carbonate rocks deposited on a seamount situated far away from continents.

> **Duration:** 2 days. Saturday 2 September - Sunday 3 September 2006
> **Start End:** Haneda Intl. Airport, Tokyo  
> **Transportation:** Mini-bus or SUV
> **Accommodation:** Hotel
> **Degree of difficulty:** Normal. Hard shoes and long pants are needed to walk in quarries.
> **Minimum number of participants:** 6  
> **Maximum number of participants:** 20
> **Cost:** ¥ 30,000

**FE-B2** Izu-Oshima, Hakone and Fuji volcanoes and their eruptive products

> **Leaders:** O. Oshima (Musashi Inst. Tech.; o.oshima@jcom.home.ne.jp), M. Tsukui (Chiba Univ.), Y. Kawanabe (SGI/AIST) and M. Takahashi (Niho Univ.)
> **Description:** A special interest of this excursion is in young (recent - late Pleistocene) volcanic products. Visiting three famous active volcanoes in central Japan, we will closely observe fresh pyroclastic rocks and lava flows, their mode of deposition, near-vent structures, and topography of volcanic bodies. Main objects or localities follow: (1) Izu-Oshima Volcano: The youngest 1986 eruption products inside and outside the caldera. The central cone Miharayama and the summit crater. Alternation of scoria and ash fall layers on the middle - lower slopes. Lateral craters and cones, and phreatomagmatic eruption products. (2) Hakone Volcano: The main stratovolcano, composite caldera, central cones, and their related products. (3) Fuji Volcano: The wide-spread 864 lava flow on the NW lower slope, pyroclastic deposits on the E flank, the youngest lateral crater on the SE middle flank, and the beautiful landscape.

> **Duration:** 5 days. Sunday 3 September - Thursday 7 September 2006
> **Start:** At about 10:00 at the pier and/or airport of Izu-Oshima Island (You can reach the island either by boat or airplane by your choice, leaving Tokyo at about 8:00.)
> **End:** Main terminal stations or your hotel in Tokyo.  
> **Transportation:** SUV and boat
> **Accommodation:** Hotel and/or guest house  
> **Meals:** Fee includes all meals.
> **Degree of difficulty:** Normal. Hard shoes are recommended to walk on craggy and sparse surfaces of pyroclastic rocks and lava flows.

> **Minimum number of participants:** 6       > **Maximum number of participants:** 17

> **Cost:** ¥ 74,000

> **Note:** Spaces in a boat and rent-a-car(s) are limited. Please minimize your belongings, leaving large luggage in your hotel in Tokyo. Boat or air fare to Izu-Oshima island from Tokyo is not included in the excursion fee. (The fare is subject to change. In spring 2005, high-speed jet boat is about ¥ 6,400 and air fare is about ¥ 11,000.)

**FE-B3:** Large-scale post-eruptive volcaniclastic resedimentation and its fluvial, geomorphic and environmental responses: the Numazawako eruption (Ska) and its aftermath, northeast Japan

> **Leaders:** K. Kataoka (Niigata Univ.; kataoka@g.niigata-u.ac.jp) and A. Urabe (Niigata Univ.)

> **Description:** Numazawa volcano, northeast Japan, most recently erupted about 5,000 years ago and emplaced large volume of ignimbrite. The voluminous ignimbrite choked the drainage of a major river and made huge impoundment of water behind. Finally, the ignimbrite dam lake resulted in outburst and breakout flood. The widespread resedimented volcaniclastic material and burial of archeological sites by the flood deposits imply the scale of catastrophic volcano-hydrologic hazards during that time. In the field trip, we will observe primary pyroclastic deposits, supra- and pro-ignimbrite laharc deposits and related geomorphic features. We focus on the breakout flood deposits, spatio-temporal volcaniclastic facies changes, and fluvial, geomorphic and environmental responses to the eruption.

> **Duration:** 4days. Saturday 2 September - Tuesday 5 September 2006

> **Start and End:** JR Niigata Sta. (Joetsu Shinkansen) and/or Niigata Airport

> **Transportation:** Mini-bus or SUV       > **Accommodation:** Hotel

> **Meals:** Fee includes all meals

> **Degree of difficulty:** Normal. Full sleeve shirts and long pants are preferred for bush walk.

> **Minimum number of participants:** 5       > **Maximum number of participants:** 15

> **Cost:** ¥ 60,000

**FE-B4:** Sedimentary successions and petroleum geology of a back-arc to arc-arc junction basin: submarine-fan to fluvial systems and depositional sequences of the Neogene Niigata-Shiritsu inverted rift basin, Northern Fossa Magna, central Japan

> **Leaders:** O. Takano (JAPEX; takano-o@rc.japex.co.jp), M. Tateishi (Niigata Univ.) and H. Arato (Teikoku Oil Co.)

> **Description:** The Neogene Niigata basin in Northern Fossa Magna is located in an intra-arc to backarc setting in the junction zone between the northeast and southwest Japan arcs, and originated from a failed rift related to the backarc opening of the Japan arcs during Early to Middle Miocene time and subsequently was converted to a compressional basin. This basin contains oil and gas fields, which yield approximately two thirds of Japanese domestic oil and gas production. This field trip aims to observe 1) syn-rift, post-rift and basin inversion successions in consideration of tectonic influences on changes in depositional systems, 2) facies and depositional architecture of topographically confined turbidites in the basin inversion phase, 3) high-frequency depositional sequences developed in shallow-marine, delta, fan-delta and fluvial systems, and 4) hydrocarbon reservoir and source rocks with some oil and gas production facilities.

> **Duration:** 3 days. Saturday 2 September - Monday 4 September 2006

> **Start:** Arrivals at Niigata Airport and JR Niigata Sta. (Joetsu Shinkansen)

> **End:** JR Nagaoka Sta. (Joetsu Shinkansen), JR Niigata Sta. and Niigata Airport

> **Transportation:** SUV       > **Accommodation:** Hotel or inn-style hotel

> **Meals:** Fee includes all meals

> **Degree of difficulty:** Normal

> **Minimum number of participants:** 4       > **Maximum number of participants:** 25

> **Cost:** ¥ 45,000

**FE-B5:** Sedimentation on the arc-arc collision zone in central Japan

> **Leaders:** K. Hoyanagi (Shinshu Univ.; hoya101@gipac.shinshu-u.ac.jp ) and A. Omura (Ocean Res. Inst., Univ. Tokyo)

> **Description:** This trip will focus on the depositional systems and sequence of architectures in the sedimentary basins, which were formed by backarc spreading and collision of the arcs in the Miocene time. Central Japan is now situated on the junction of the NE and SE Japan arcs. The Miocene and Pliocene strata in this area were deposited in a wide variety of sedimentary environments, such as slope, shelf, nearshore and fluvial. Turbidite sedimentation and prerogation vs. aggradation processes of the fan-delta were controlled by tectonic subsidence of the basins and uplift of the hinterlands. But the third- to fourth-order (0.3- to several-million-year duration) depositional sequences were affected by sea-level changes. Attendees will observe the records of basin subsidence, hinterland uplift, and sea-level changes from the outcrops in this area. After the Congress, you will have the opportunity to enjoy fresh, cool air and the beautiful scenery of the mountain range.

> **Duration:** 3 days. Sunday 3 September - Tuesday 5 September 2006

> **Start:** JR Matsumoto Sta. (JR Chuo Line) and Hotel Buena Vista Matsumoto

> **End:** JR Nagano Sta. (Nagano Shinkansen) and JR Matsumoto Sta.

> **Transportation:** SUV or bus       > **Accommodation:** Western style hotel

> **Meals:** Fee includes breakfasts and lunches. Dinners are not included.

> **Degree of difficulty:** Long pants and hiking boots are recommended.

> **Minimum number of participants:** 5       > **Maximum number of participants:** 25

> **Cost:** ¥ 35,000

**FE-B6:** Early Triassic to Middle Jurassic radiolarian chart sequence in the Inuyama area, central Japan: a record of pelagic deep-sea environments before and after a boundary event

> **Leader:** Y. Kakuwa (Univ. Tokyo; kakuwa@chianti.c.u-tokyo.ac.jp)

> **Description:** Radiolarian chart is one of the typical constituents of ancient accretionary prisms, and preserves a record of deep-sea pelagic environment. Triassic to Jurassic radiolarian chart is well exposed on the riverbank of the Kiso River where radiolarian biostratigraphy is well established. Following items related to the special symposium
“Boundary events and global changes” are the main targets of this trip. (1) Recovery interval of the Permian-Triassic mass extinction event during the Early Triassic. (2) Lithologic change across the Triassic-Jurassic boundary. (3) Conspicuous black shale interbed of Toarcian anoxic event. Characteristic features of accretionary complex are also observable such as: (4) Lithologic change from the pelagic radiolarian chert to sandstone via hemi-pelagic radiolarian mudstone, and (5) Repeated slices of intensively folded and faulted strata.

Duration: 2 days. Saturday 2 September - Sunday 3 September 2006
Start: Central Japan Intl. Airport
End: Central Japan Intl. Airport or Inuyama Sta. (Nagoya Railway)
Transportation: S.U.V. > Accommodation: Japanese style hotel (room will be shared)
Meals: Fee includes all meals > Degree of difficulty: Normal
Minimum number of participants: 4 > Maximum number of participants: 10
Cost: ¥ 33,000

FE-B7: Lake Biwa: Modern and ancient environments in relation to tectonics during the last 400 ka
Leaders: K. Takemura (Kyoto Univ.; takemura@bep.vgs.kyoto-u.ac.jp) and F. Kumon (Shinshu Univ.)
Description: Lake Biwa is the biggest and oldest lake in Japan, and its sediments record the sedimentary environments and climate over 2 Ma. The balance between active fluvial sedimentation and faulting still keep it as deep as 100 meters at its maximum. This trip will focus on the modern and ancient sedimentation of Lake Biwa controlled by active tectonics and palaeoclimates. The trip will end in Kyoto, and you can also enjoy exotic sightseeing in an ancient Japanese city.
*Visit to Lake Biwa Museum to review the overall features of Lake Biwa
*Short cruise on Lake Biwa (tentative)
*Active fluvial sedimentation of Ado River or Hino River
*Active faults along the western coast of the lake
*Katata Formation; ancient lake sediments exposed on land
*a brief visit to a famous temple, Mit-dera or Hei-zen Enryaku-ji at Otsu City
Duration: 2 days. Saturday 2 - Sunday 3 September 2006
Start and End: JR Kyoto Sta. (Tokaido Shinkansen; Start: 8:00am, 2 Sept., End: 17:00, 3 Sept.)
Transportation: Mini-bus > Accommodation: Hotel
Meals: Fee includes breakfast and dinner. Lunches are not included.
Degree of difficulty: Normal
Minimum number of participants: 5 > Maximum number of participants: 25
Cost: ¥ 30,000

FE-B8: Uppermost Jurassic limestone mounds and the recent tufa deposits in southern Shikoku Province
Leaders: A. Kano (Hiroshima Univ.; kano@geol.sci.hiroshima-u.ac.jp), F. Shiraishi and Y. Kakizaki (Hiroshima Univ.)
Description: Torinosu Limestone is the most prominent Mesozoic limestone in Japan, and typically exposed in the southern Chichibu Terrane of the southwestern Shikoku. It occurs as mounds enclosed with mudstone, and contains reef-forming metazoans (stromatoporoids and corals) and calcified microbes. On the first day, we will visit a mound, which discharges carbonate water, and observe a recent freshwater carbonate tufa exhibiting annual laminations. Here, on the 2nd and 3rd days, we will see stratigraphy within some mounds, which show some biological structures and terrigenous-carbonate sequence.
Duration: 3 days. Saturday 2 September - Monday 4 September 2006
Start: Matsuyama Airport
Transportation: Bus > Accommodation: Standard hotel
Meals: Fee includes all meals > Degree of difficulty: Normal
Minimum number of participants: 2 > Maximum number of participants: 25
Cost: ¥ 35,000

FE-B9: Transgressive successions from siliciclastic shelf to basin in the Cretaceous Himenoura Group
Leader: T. Komatsu (Kumamoto Univ.; komatsu@sci.kumamoto-u.ac.jp) and H. Naruse (Kyoto Univ.)
Description: The Upper Cretaceous Himenoura Group is widely distributed in the Amakusa Islands, Kyushu, Japan. The lower part of Himenoura Group consists mainly of fluvial, shoreface and shelf deposits, and is characterized by various scaled channel structures. The middle part of the group is dominated by marginal basin and slope deposits, such as turbidites, debris flow and slump deposits, and contains abundant allochthonous shallow marine molluscan fossils. In the upper part, turbidite complex is interpreted as submarine channel and levee systems. We will have the opportunity to examine the Cretaceous shallow to deep marine facies containing well exposed sedimentary structures. Especially, various turbidites are excellently preserved.
Duration: 3 days. Saturday 2 September - Monday 4 September 2006
Start and End: FICC > Transportation: Ship, mini-bus and/or S.U.V
Accommodation: Hotel (western and Japanese style) > Meals: Fee includes all meals
Degree of difficulty: Normal. But several steep rocky coasts.
Minimum number of participants: 8 > Maximum number of participants: 18
Cost: ¥ 29,000

FE-B10: 29Ma Sequence boundary in forearc-trench and back-arc basins of Kyushu Island
Leader: T. Sakai (Kyushu Univ.; taka@geo.kyushu-u.ac.jp), K. Khin (Fuj Indust. Co. Ltd) and H. Okada
Description: Large-scale sea-level falling at mid-Oligocene (29Ma) is documented well as marked sequence boundaries in various clastic successions of the Tertiary basins in Kyushu: the proto-Japan Sea back-arc basin in north Kyushu, shelf-basin in west Kyushu, and deep-marine fore-arc basin in south Kyushu. This trip transects Kyushu from north to south and observes a variety of concurrent sequence boundary of the 29 Ma and sequence-stratigraphic frameworks of Tertiary basins in different basin settings. We will...
observe also the sedimentation of hyperpycnites related to paleo-Huangfe River and late Miocene collision of Kyushu-Palau Ridge, and will examine the tectonic evolution of the Tertiary basins along the active margin.

> Duration: 5 days: Saturday 2 September - Wednesday 6 September 2006
> Start and End: FICC > End: Miyazaki Airport and JR Miyazaki Sta. (Nippou Line)
> Transportation: First day is the one-day trip by mini-bus. Days 2-3 leave Fukuoka and move to Sasebo by mini-bus. We will return to Fukuoka until the evening of the 3rd day. Days 4-5 leave Fukuoka and move to Miyazaki by JR train and to Nichinan by mini-bus.
> Accommodation: Hotel (2 and 4 Sept., Fukuoka; 3 Sept., Sasebo; 5 Sept., Miyazaki)
> Meals: Fee includes all meals
> Degree of difficulty: Normal. Short distance walking along coasts will be required.
> Minimum number of participants: 5 > Maximum number of participants: 25
> Cost: ¥ 70,000. (Fee does not include accommodation and meal of the first and third nights (2 and 4 Sept.), when the participants will stay in Fukuoka.)

FE-B11: Sedimentation and tectonics of the Tertiary delta to basin successions in the Tsushima Islands, off northwestern Kyushu

> Leaders: T. Nakajo (Osaka Mus. Nat. Hist.; nakajo@mus-nh.city.osaka.jp), J. Komatsubara (GSJ/AIST) and Y. Yamaguchi (Hiroshima Univ.)
> Description: The Tsushima Islands, located between the Eurasia Continent and Japanese Islands, are chiefly underlain by the Tertiary Tsaiho Group intruded by the Miocene igneous rocks. The group has a thick clastic succession, which is more than 5000 m thick, and deposited in delta to basin environments in relation with the opening of the Japan Sea. The strata are well exposed in sea-cliffs around the islands. Main topics of the excursion will include: 1) Thick succession of deltaic to shelf deposits is demonstrated in relation to the sea level changes controlled by tectonic movements; 2) Slumped beds and associated deposits in slope to basin environments related to a rapid subsidence of the basin; 3) Sedimentary facies of deltaic succession represented by deposition in an interaction between fluvial and tidal processes.

> Duration: 3 days. Sunday 3 September - Tuesday 5 September 2006
> Start and End: Izuhara Port or Tsushima Airport (Start: 3 September, morning)
> Transportation: Mini-bus or SUV > Accommodation: Hotel
> Meals: Fee includes all meals > Degree of difficulty: Normal. But several rocky coast walks will be needed.
> Minimum number of participants: 8 > Maximum number of participants: 18
> Cost: ¥ 50,000

FE-B12: Quaternary reef development in Okinawa-jima, the Ryukyu Islands

> Leader: Y. Iryu (Tohoku Univ.; iryu@iges.tohoku.ac.jp)
> Description: The aim of this excursion is to visit and observe the Pleistocene deposits (0.12 to 1.45-1.65 Ma) formed in coral reefs and associated shelves of the Ryukyu Islands, southwestern Japan. Although located at the northern limit of coral reef distribution in the Pacific, the islands are surrounded by vigorous coral reefs. Also Pleistocene coral reefs extend on these islands forming terraces up to 200 meters in elevation. As the Ryukyus have been uplifted since the late middle Pleistocene, we can observe deep fore-reef deposits as well as reef-core facies at onland outcrops. The fore-reef deposits are characterized by an abundance of rhodoliths and larger foraminifera such as Cyclostephanus and Operculina. More than 100 species of hermatypic corals occur from the shallow-water coral limestone.

> Duration: 4 days. Sunday 3 September - Wednesday 6 September 2006
> Start: Port of Naha, Okinawa > End: Naha Airport
> Transportation: Mini-bus or coach > Accommodation: Hotel
> Meals: Fee includes breakfast and lunch. Dinners are not included.
> Degree of difficulty: Normal
> Minimum number of participants: 5 > Maximum number of participants: 15
> Cost: ¥ 51,000

FE-B13: Coral zonation on fringing reefs in the Ryukyu Islands

> Leaders: K. Sugihara (Fukuoka Univ.; sugihara@fukuoka-u.ac.jp) and T. Nakamori (Tohoku Univ.)
> Description: Although the Ryukyu Islands (Ryukyus) are located at relatively higher latitudes (24°-29°N) compared with the major coral reef provinces, these islands are fringed by active reefs, because the warm Kuroshio Current flows along the Islands. The coral communities in the Ryukus can be characterized by co-existence of tropical fauna and those at the northern limit for coral reef formation in the Central Indo-Pacific. Knowledge on the distributions of substrate topography and coral communities within the reefs is important to reconstruct palaeoenvironments of the Quaternary reef deposits. In this excursion, we will visit the fringing reefs in Ishigaki Island, southwestern part of the Ryukus, where clear zonations of the reef topography and coral communities can be observed.

> Duration: 3 days. Saturday 2 September - Monday 4 September 2006
> Start and End: Ishigaki Airport, Okinawa
> Transportation: Mini-bus or coach > Accommodation: Hotel
> Meals: Fee includes breakfast only. > Degree of difficulty: Normal
> Other Instructions: A set of snorkeling (wetsuit, mask, fin, snorkel, and boots) is needed. You can rent the diving gears at shops for divers in Ishigaki City. Please note that the excursion cost does not cover any fee for the rental gear.
> Minimum number of participants: 5 > Maximum number of participants: 8
> Cost: ¥ 30,000
> Note: Ishigaki Island is often hit by typhoons in summer. Please note that this excursion will be cancelled if a typhoon is approaching to the island during the excursion.

FE-B14: Depositional processes and evolution of hydromagmatic volcanoes on Jeju (Cheju) Island, Korea

> Leaders: Y.K. Shin (Gyeonsang Nat. Univ.; yksohn@gsnu.ac.kr) and K.H. Park (Korea Inst. Geosci. Min. Res.)
> Description: Dozens of Quaternary hydromagmatic volcanoes (tuff rings and tuff cones) occur along the coast of Jeju Island, Korea. Some of these volcanoes provide excellent sea cliff exposures from which a variety of depositional processes in hydromagmatic volcanoes
can be interpreted, including dry to wet pyroclastic surges, Surteyan fallouts and grain flows, debris flows, slide/slumps, and post-eruptive resedimentation processes. Exposures of pyroclastic surge deposits in two tuff rings are especially renowned for their lateral continuity, from which proximal-distal evolution of pyroclastic surges could be inferred. These hydromagmatic volcanoes also provide an opportunity to assess the role of substrate lithology and hydrology in the formation of various morphologies and structures of hydromagmatic volcanoes.

> **Duration:** 5 days. Saturday 2 September - Wednesday 6 September, 2006
> **Start and End:** Jeju (Cheju) Intl. Airport
> **Transportation:** SUV or mini-bus
> **Accommodation:** Hotel
> **Weather:** Mostly sunny, but should bring a rain coat
> **Degree of difficulty:** Normal
> **Minimum number of participants:** 10
> **Maximum number of participants:** 30
> **Cost:** ¥ 72,000

**FE-B15** Tectonics and sedimentation of the active Taiwan mountain belt

> **Leaders:** Hao-Tsu Chu (Central Geol. Surv.; chht@linx.moeagcs.gov.tw), Wen-Shan Chen (Nat. Taiwan Univ.) and A. Tien-Shun Lin (Nat. Central Univ.)
> **Description:** The island of Taiwan is located on the active convergent boundary between the Philippine Sea plate and the Chinese continental margin. The collision between the Luzon volcanic arc and the Chinese continental margin has caused intense crustal thickening and shortening in the rising mountain range. The mountain building process is very much alive and can be well illustrated by the rugged topography, rapid uplift and denudation, young tectonic landforms, active faulting, and numerous earthquakes. The field excursion provides an opportunity to overview the tectonics and sedimentation of the Taiwan mountain belt in both the Central Range and the Coastal Range. Trip to the active plate suture of the longitudinal valley between the Chinese continental margin (Central Range) and the Luzon volcanic arc (Coastal Range) will provide a good occasion to realize the active mountain building processes.

> **Duration:** 5 days. Sunday 3 September - Thursday 7 September 2006
> **Start and End:** Leader Hotel Taipei (Start: 8:30 am, Sept. 3, End: 6 pm, Sept. 7)
> **Transportation:** SUV or mini-bus
> **Accommodation:** Hotel
> **Weather:** Mostly sunny, but should bring a rain coat
> **Meals:** Fee includes all meals.
> **Degree of difficulty:** Normal
> **Minimum number of participants:** 15
> **Maximum number of participants:** 30
> **Cost:** ¥ 66,000

**Mid-Congress Field Excursions**
All mid-congress field excursions will be operated on Wednesday 30 August, 2006. Fee includes lunch.

**FE-C1** Cretaceous lake deposits (Kannon Group) and the Kitakyushu Museum of Natural History & Human History, northern Kyushu

> **Leaders:** T. Sakai (Kyushu Univ.; taku@geo.kyushu-u.ac.jp), H. Okada, Y. Yabumoto and A. Fuji (Kitakyushu Mus. Nat. Hist. Human Hist.)
> **Description:** This excursion has two aims: to examine sedimentary processes and environments of Early Cretaceous non-marine sediments, called the Kannon Group, typically exposed in the Kitakyushu area and to visit the Kitakyushu Museum of Natural History & Human History to observe fossils collected from the Kannon Group and its general display system. The Kannon Group (late Valanginian to early Albanian) correlated with the Kyongsang Supergroup in the Korean Peninsula is subdivided into the lower Wakino Subgroup (about 1,300 m thick) characterized by the alluvio-fluvial, marginal, and off-shore lacustrine deposits and the upper Shimonoseki Subgroup (about 3,000 m thick) characterized by the volcanogenic facies. We will mainly observe the Wakino deposits.

> **Start and End:** FICC
> **Transportation:** Bus
> **Minimum number of participants:** 10
> **Maximum number of participants:** 40
> **Degree of difficulty:** Normal
> **Cost:** ¥ 6,000

**FE-C2** Sequences and sedimentary structures of tidal- and wave-influenced shelf in the Oligocene Ashiya Group, Kyushu, Japan

> **Leaders:** N. Sakakura (Kyoto Univ.; sakakura@kuerrs.kyoto-u.ac.jp), T. Sato and F. Masuda (Kyoto Univ.).
> **Description:** This one-day trip will visit the wave-tide influenced shelf deposits of the Oligocene Ashiya Group in north Kyushu. We will particularly focus on two topics, (1) wave to tide change in coast-prograding succession and (2) tidal deposits recording tidal cyclicities. The wave-tide influenced deposits represent the sedimentary cycle, which consists of the transgressive sandstone (2–12 m thick) and the coast-prograding succession (10-80 m thick). The succession passes from wave-dominated shelf deposits into tide-dominated sub- and inter-tidal deposits. The tidal deposits exhibit lenticular and flaser bedding in addition to cross-stratified sandstone. The lenticular and flaser bedding records clearly three tidal cyclicities, such as flood-ebb, neap-spring and diurnal inequality.

> **Start and End:** FICC
> **Transportation:** Bus
> **Minimum number of participants:** 10
> **Maximum number of participants:** 40
> **Degree of difficulty:** Sneakers and Sandals (easy approach)
> **Cost:** ¥ 10,000

**FE-C3** Unzen Volcano

> **Leader:** K. Watanabe (Kyushu Univ.; wat@mine.kyushu-u.ac.jp)
> **Description:** Unzen Volcano situated in the Shimabara Peninsula, Kyushu, Southwest Japan, initiated its activity about 500 ka. The volcano developed in the Unzen volcanic graben characterized by EW-trending normal faults. This volcano consists of thick lava flows/domes of mainly dacite in composition, and the collapsed materials. Two historical eruptions produced anandesite lava flow in 1663 and 1792, respectively. During the 1792 eruption, a large earthquake triggered a large-scale collapse of an old Mayuyama lava dome, then dry avalanche and the resultant tsunami took 15,000 people's lives. Fugen-dake, the main peak of Unzen Volcano, began to erupt on November 17, 1990 after 198 years of dormancy. Following a period of intense precursory activity, a new lava dome appeared at the bottom of Jigokuoato Crater in the summit region on May 20, 1991. Growth and repeated collapse of the
lava dome caused a large number of pyroclastic flows. Forty-three persons were killed by the violent pyroclastic flow generated on 3 June, 1991. Highlights of mid-congress field excursion will focus on the observation of the 1991-1995 lava dome and deposits of Unzen Volcano. Damaged and recovery areas and museum will be visited. Fumarolic area (Jigoku) and viewpoint of active faults will also be visited.

> Start and End: JR Hakata Sta. (Shinkansen side) > Transportation: Mini-bus or SUV
> Minimum number of participants: 10 > Maximum number of participants: 30
> Degree of difficulty: Normal > Cost: ¥6,000

**FE-C4:** Surface tufa and cave speleothem in Hiraodai, Northern Kyushu

> Leader: K. Urata (Tokyo Met. Univ.; k.urata_7-7mtk@nifty.com) and K. Yoshimura (Kyushu Univ.)
> Description: Hiraodai, situated in Kitakyushu city, is one of largest carbonate plateaus in Japan. The plateau consists mainly of crystalline carbonates originated from Palaeozoic reeval limestones and shows typical karst topography with many limestone caves. This excursion will focus on the occurrence and formation process of freshwater carbonates (surface tufa and cave speleothem) in Hiraodai. Detailed of this excursion, such as degree of difficulty, special gears for caving and so on, will be described on the Congress Website later.

> Start and End: FICC > Transportation: SUV or mini-bus > Meals: Fee includes lunch.
> Minimum number of participants: 5 > Maximum number of participants: 20
> Cost: ¥10,000

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**Social Programme**

**Deadline: 1st May 2006**

> **Ice-breaker party**

A welcome reception and ice-breaker cocktail party will be held on Sunday evening 27th August between 18:00 and 21:00 on the 5th floor at FICC. Delegates will be able to register and collect their Congress bags during this function. The cost of the ice-breaker is included in the registration fee.

> **Gala dinner**

The official gala dinner for the Congress will be a comfortable dinner at Hotel Umi-no-Nakamichi in the evening of Thursday 31st August. The cost per person is ¥10,000. Umi-no-Nakamichi is a tombolo between Genkai Nada (Japan Sea) and Hakata Bay and is a recreation area for citizens in Fukuoka. Delegates will be transported to and from the venue where traditional Japanese foods and drinks will be enjoyed, including traditional Japanese music, dancing and entertainment.

Hakata Bayside Place -- (Ferry; Welcome drink) -- Hotel (Gala Dinner) -- (Chartered Bus) - Hakata/Tenjin area

> **Accompanying members tours**

Several non-geological one-day tours will be offered throughout the week of the Congress, depending on interest levels. All tours will start at 9:00 at FICC and end at 17:00 at FICC. The costs include chartered bus for transportation plus lunch. The costs do not cover items such as alcoholic beverages and any other personal items. Please visit the Congress Website for advance details about these tours.

**SP 1:** Full day tour to Nagasaki

- Tuesday 29th August -
  - Sightseeing points: Oura Catholic Church, Glover Garden, Nagasaki Atomic Bomb Museum and so on.
  - Lunch: Chinese Food (Nagasaki China Town) 
  - Cost: ¥12,000

**SP 2:** Full day tour to Aso Volcano

- Wednesday 30th August and Friday 1st September -
  - Sightseeing points: Aso Volcano (the largest caldera in the world) and Kumamoto Castle
  - Lunch: Barbecue (Aso Farm Land) 
  - Cost: ¥12,000

**SP 3:** Full day tour to Arita and Imari

- Wednesday 30th August -
  - Sightseeing points: Kyushu Ceramic Museum, Imari City (the world-famous pottery city) and Hikiyama Float Exhibition Hall
  - Lunch: Japanese dishes (Imari City) 
  - Cost: ¥12,000

**SP 4:** Full day tour to Yoshinogari and Dazaifu

- Friday 1st September -
  - Sightseeing points: Yoshinogari Historic Restoration (the remains of 2300 year old Yayoi-style ancient Japan), Dazaifu Tenmang (the famous beautiful shrine for the God of Learning) and Kyushu National Museum (archaeological history of East Asia) and Yanagawa City (well-known canal city).
  - Lunch: Traditional eel dishes (Yanagawa City) 
  - Cost: ¥12,000

> **Gifts and mementos**

The Organising Committee is planning to prepare some official gifts and mementos, such as T-shirts and coffee mugs. Please check the Congress Website or Section 7 in the the Registration Form.

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**Accommodation**

**Deadline: 1st May 2006**

> **Hotels**

Below are the hotels that have been pre-booked for the Congress. All hotels are very comfortable and located in the downtown area of Fukuoka (see Fig. 4, page 41). It takes approximately 30 minutes by walk and 10-20 minutes by bus to FICC. All hotel bookings must be made through **On-line Registration or Registration Form** in order to obtain the Congress rate discount. The costs include room charge and tax and do not include any meals. You can see details about each hotel on the Congress Website.
Travel Grants

Deadline: 28th February 2006

> ISC2006 Travel grants

The Organising Committee will help participants mainly from developing countries to attend the Congress with a travel grant of up to ¥100,000 contribute towards travel cost to Japan and accommodation in Fukuoka. The Travel Grant will be given to successful applicants by the Congress chairman at the Congress. Therefore, applicants must pay the registration fee, abstract submission fee and any other fees by themselves prior to the Congress.

Application procedure: Those planning to apply for a Travel Grant are strongly recommended to submit a completed travel grant application form through the Congress Website no later than 28th February 2006, along with the Congress registration and abstract(s). Those who do not have Internet access may send the form by mail or fax to the ISC2006 Secretariat Office. The application form can be obtained from the Congress Website. In addition to the form, each applicant should arrange for his/her supervisor (Departmental Chairperson, Laboratory Head, etc.) to send separately a letter to the ISC2006 Secretariat Office. This letter should include the supervisor's assessment of:
- the applicant's qualifications
- how the applicant's attendance at the Congress will benefit his/her research and home institution
- the possibilities of the applicant receiving support from his/her home institution or country

This letter must arrive at the ISC2006 Secretariat Office by 28th February 2006.

Selection procedure: The Organising Committee will select as many grantees among the applicants as financial conditions allow. The Organising Committee will notify all applicants of the results by 15th April 2006.

> IAS grant

Further, students and young researchers may apply for IAS travel grants, on the condition that they are a member of the IAS and that they will present a paper at the Congress. For details on how to apply for travel grants, please visit the IAS website, http://www.iasnet.org/.

Exhibition

The Organising Committee invites commercial and educational exhibitors to display their products during the Congress. The exhibit hall will be laid out in sections containing standard booths (1.8m x 2.7m) or composite standard size booths at the choice of the exhibitors. Exhibition fee is ¥200,000 (Commercial) and ¥100,000 (Educational/non-profit) for a standard-sized booth. The fee includes the following items; booth sign, two spotlights, back and side walls, carpet, one table, two chairs, one wastebasket, 100 V/1500 W electricity and one complimentary full registration. For additional information, please visit the Congress Website or contact the ISC2006 Secretariat Office.

Travel Information

> Travel Agent

Kinki Nippon Tourist (KNT) is designated as an official travel agent for ISC2006. In order to obtain the Congress rate discount for accommodation and travel, all bookings must be made via the travel agent. The Travel Agent is also available to book and organise private trips within Japan and neighboring countries for delegates who wish to arrive before or stay on after the Congress:

ISC2006 travel desk (Kinki Nippon Tourist Co., Ltd.):
Mr Akiyo Tadokoro
isc2006travel-ec@or.knt.co.jp, FAX +81-3-5807-3019

During the Congress, a desk for the travel agent will be available in FICC.

> Visas

All overseas delegates are strongly advised to check with their nearest Japanese Diplomatic Mission or Embassy or travel agent on visa requirements. No visas are issued on arrival. This is particularly important for delegates participating in excursions in neighboring countries. The Embassy of each of these countries must also be consulted.

> Personal insurance
All delegates are advised to take out their own private medical cover and personal insurance for the duration of the Congress and accompanying field excursions.

> General information

**Climate:** Late August - early September is late Summer in Japan, the temperatures are usually between 25 and 32°C, while night temperatures will be 20 to 25°C in Fukuoka. Typhoons may approach Japan islands in late Summer, and you are advised to expect rain and wind, particularly if you are planning to participate in field excursions.

**Lunches:** Lunches are not included in the registration fee. You will find a variety of cafes and restaurants at nearby waterfront area, 5 minutes walk, and within FICC. Box lunches will also be available at the Congress site. Morning and afternoon tea/coffee are included in the registration fee.

**Electricity:** The electricity supply in Japan is 100 volts through 2-pin outlets. You can purchase adaptors in hardware stores.

**Bank:** Banking facilities are available near FICC and hotels.

**Telephone call:** International telephone box is available within FICC.

**Shopping:** Shopping facilities are available at the Hakata Bayside Place near FICC, where some shops, restaurants, fast food shops and convenience stores can be found.

**Time zone:** The time zone during August is: GMT +8 hours in Japan.

**Driving:** For driving in Japan, an international driver's licence is needed. Driving is on the left hand side of the road in Japan.

**Tax:** VAT (value added tax) of 5% is included in all goods purchased in Japan. Tourists can claim back this tax at the airport on departure. Ask any shop for details.

Waiver of liability
The Organising Committee have taken reasonable care in making arrangements for the Congress and field excursions. The organisers do not accept any liability and cannot be held liable for any loss or injury sustained by delegates, or for any unforeseen changes to the Congress programme. The Organising Committee reserves the right to cancel any event(s), excursion or technical session due to insufficient participation or interest, or for any unforeseen reason.
Fig. 3A  Field Excursions outside Japan

Fig. 3B  Field Excursions in Japan
Fig. 4 Fukuoka City Map
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Fukuoka is one of the principal and most vibrant cities of Japan, with a population of 1.40 million, and is the largest city on the island of Kyushu, the most southerly of Japan’s main islands. It is an exciting, modern city which has not forgotten its past. It was, at one time, the second capital city of old Japan in the period before the 10th Century A.D. Therefore, there are many enjoyable historic sites and related exhibitions of the long history of Fukuoka to visit. The principal ones are listed below:

1) *Itazuke Yayoi-no-mura:* This was a village in the Yayoi Period (2nd Century B.C. to 3rd Century A.D.) which is characterized by rice-farming.

2) *Korokan Historical Museum:* Showing the ruins of an official guesthouse for visitors from Asian countries during the Heian Period (7th to 11th centuries).

3) *Kashii Shrine:* This shrine was built in 724 for Emperor Chuai when he died here. The present building was constructed in 1801 and is now recognized in Japan as an Important Cultural Property.

4) *Kushida Shrine:* This shrine was built for citizens in 757 in the Heian Period. Now it serves as the central place for the traditional big summer event, the Hakata Gion Yamagasa Festival.

5) We can see the Yamagasa exhibition (a decorated float) anytime here.

6) *Tochoji Temple:* This temple was built in 806 by Kobodaishi, the founder of Japanese Buddhism.

7) *Hakozaki Shrine:* This shrine, constructed in 923, is one of the three major Hachiman shrines in Japan. “Hachiman” is the most popular Shinto religious faith in Japan. The main building reconstructed in 1546 is a National Cultural Property.

8) *Shofukuji Temple:* This is the first Zen Buddhism temple in Japan. Built in 1195 by Eisai, the founder of the Zen Buddhism.

9) *Fortress against the Mongolian Invasion:* The fortress about 20 km long was constructed by order of the central government in Kamakura along the shores of Hakata Bay immediately after the first Mongolian invasion in 1274. The construction of the fortress started in February 1276 and finished in August 1276.

10) *Fukuoka Castle Ruins:* Construction by Nagamas Kuroda, the 1st feudal lord of the Chikuzen clan (old Fukuoka) took seven years commencing in 1601. Since the Kuroda time, the area west of the Naka River has been old Fukuoka, where the Castle was located at its centre, and the area east of the river became Hakata. Thus, Fukuoka was a Samurai (soldier) region, while Hakata was a merchant town.

11) *Sumiyoshi Shrine:* This is the earliest of about 2,100 Sumiyoshi shrines in Japan. It was dedicated to the first Shinto god and its main hall was reconstructed in 1623 by Nagamas Kuroda, the 1st lord of Fukuoka.

12) *Yusentei Garden:* Tsugutaka Kuroda, the 6th feudal lord of Fukuoka, built this villa as his second house in 1754. A typical Japanese garden can be enjoyed.

13) *Ohori Park:* It was a part of the moat of the Fukuoka Castle. Originally it was also a part of an estuary of Hakata Bay. It was incorporated into the present park in 1925.

14) *Shikanoshima Island:* This is a barrier island and is well known as the place (Kin-in Park) where the Gold Seal presented to the King of the Wano-na Country in the Fukuoka area (the earliest country in the Japanese Islands) by the Han Dynasty of China in 109 B.C. was found by a farmer in 1784.

15) *Yoshinogari Ruins:* This is the largest national historical site park opened in 1989. It represents living areas of people in the largest moated village in the Yayoi Period in 5th to 3rd centuries B.C.

16) *Itokoku History Museum:* This museum is located at the centre of the Itoshima plain where there are many old ruins of Ito Country from the 2nd Century A.D. The largest copper mirror in the world is displayed.


For the details, please visit the Congress Website.