ILP Tokyo 2015
Lithosphere dynamics of sedimentary basins in subduction systems and related analogues
5-7 October 2015

Monday, October 5

9:00  Registration
10:00 Opening Remarks

Hiroshi SATO (Organizing Committee, ERI, Univ. Tokyo, Japan)
Kazushige OBARA (Director, ERI, Univ. Tokyo, Japan)

General Session
Chairs: Naoshi HIRATA and Frédéric GUEYDAN

10:10 O-1 Liviu MATENCO and Fadi H. NADER, Introduction on the ILP sedimentary task force science
10:30 O-2 Hiroshi SATO (keynote), Late Cenozoic basin evolution and active tectonics of Japanese islands
11:00 O-3 Evgueni BUROV (keynote), Alexander KOPTEV, Eric CALAIS, Sylvie LEROY, and Taras GERYA, Interactions between active and passive rifting in ultra-slow extension context: Insights from 3D numerical models
11:30 O-4 Daniel GARCIA-CASTELLANOS, Quantifying the post-tectonic topographic evolution of closed basins: The Ebro basin (northeast Iberia)

11:50 Lunch break

Subduction dynamics: forearc to backarc I
Chairs: Daniel GARCIA-CASTELLANOS and Bill FRY

13:10 O-5 Armin DIELFORDER, Alfons BERGER, Marco HERWEGH, Linking megathrust earthquakes to brittle deformation and mineral vein formation in the paleoaccretionary complex of the central European Alps
13:30 O-6 Yuzuru YAMAMOTO, Shun CHIYONOBU, Nana KAMIYA, Yohei HAMADA, Saneatsu SAITO, Evolution of sedimentary basins and the basement architectures in plate subduction margin: the Miura and Boso peninsulas, central Japan
13:50 O-7 Jeroen SMIT, Jan-Diederik VAN WEES and Sierd CLOETINGH, New Definition for Avalonia's Northern Margin: insights from lower crustal velocities
14:10 O-8 LEWANDOWSKI, M., WERNER, T., VLAHOVIĆ, I., VELIĆ, I., SIDORCZUK, M., Paleomagnetic dating of incipient folding SW of the Sava–Vardar subduction zone (Karst Dinarides, Croatia)
14:30 O-9 Damien BONTÉ, Attila BALÁZS, Jan-Diederik VAN WEES, Sierd CLOETINGH, Thermal regime of back-arc region and geothermal energy

14:50 Coffee break & posters

Subduction dynamics: forearc to backarc II
Chairs: David OKAYA and Akinori HASHIMA

15:10 O-10 Frédéric GUEYDAN (keynote), Gianluca FRASCA and Jean-Pierre BRUN, Miocene tectonics of the Western Mediterranean: From mantle extensional exhumation to westward thrusting in a back-arc settings
15:40 O-11 Shigeki NAKAGAWA, Shin’ichi SAKAI, Ryo HONDA, Hisanori KIMURA, Naoshi HIRATA, Subduction of two oceanic plates beneath Kanto basin imaged by MeSO-net
16:00 O-12 Takeshi SATO, Tetsuo NO, Shuichi KODAIRA, Seiichi MIURA, Tatsuya ISHIYAMA, Hiroshi SATO, Distribution of crustal structure types and its tectonic implications in the southern part of the Japan Sea back-arc basins deduced from the seismic survey
16:20 O-13 Bill FRY, Hiroshi SATO, Tetsuya TAKEDA, Qi-fu CHEN, and Kelin WANG, Ambient noise imaging of the seismically anisotropic lithosphere below the Sea of Japan
16:40 O-14 Akinori HASHIMA, Thorsten W. BECKER, Andrew M.
FREED, Hiroshi SATO, David A. OKAYA, Hisashi SUITO, Hiroshi YARAI, Makoto MATSUBARA, Tetsuya TAKEDA, Tatsuya ISHIYAMA, Takaya IWASAKI, Influence of 3-D elastic heterogeneity on coseismic deformation due to the 2011 Tohoku earthquake

17:00 O-15 O.V. PETROV, S.N. KASHUBIN, E.D. MILSTEIN, A.V. RYBALKA, S.P. SHOKALSKY, M.L. VERBA, E.O. PETROV, Earth’s crust model of the South-Okhotsk Basin by wide-angle OBS data

17:20 Posters
Tuesday, October 6

**Active tectonics from shallow to deep I**

Chairs: Takaya IWASAKI and Yannis PANAYOTOPOULOS

9:00  O-16  Hiroyuki TSUTSUMI, Katsushi SATO, and Atsushi YAMAJI, Late Quaternary stress field in central Japan inferred from the stress inversion of the active fault data and timing of the beginning of the modern stress state

9:20  O-17  Tatsuya ISHIYAMA, Hiroshi SATO, Naoko KATO, Susumu ABE, Permanent deformation in the overriding plate along the Japan Trench in the southern Northeast Japan

9:40  O-18  Makoto MATSUBARA and Hiroshi SATO, High-velocity lower crust along the failed rift with deep Moho

10:00 O-19  Tomoko E. YANO, Tetsuya TAKEDA, Makoto MATSUBARA, and Tatsuhiko SHIOMI, The Japan Unified High-Resolution Relocated Catalog for Earthquakes (JUICE) project for events associated with inland active faults in Japan

10:20  Coffee break & posters

**Active tectonics from shallow to deep II**

Chairs: Tomoko E. YANO and Hiroyuki TSUTSUMI

10:40 O-20  Takaya IWASAKI, Noriko TSUMURA, Tanio ITO, Hiroshi SATO, Eiji KURASHIMO, Naoshi HIRATA, Kazunori ARITA, Katsumi NODA, Akira FUJIWARA, Susumu ABE, Shunsuke KIKUCHI and Kazuko SUZUKI, Arc-Arc Collision Structure in the Southernmost Part of the Kuril Trench Region- Results from Integrated Analyses of the 1998-2000 Hokkaido Transect Seismic Data -

11:00  O-21  Tanio ITO, Lithospheric structures and their formation process at the northwestern border region of the Izu collision zone, central Japan

Northern Nagano earthquake: Moving towards estimation seismic hazard using the MeSO-net stations
11:40 O-23 Noriko TSUMURA, Yuu MIZUI, Tomoko EMOTO, Hiroshi FURUYA, and The Research Group for the Joint Seismic Observations at the Nobi Area, Crustal structure beneath the source region of 1891 Nobi earthquake, central Japan

12:00 Lunch break

Sedimentary and petroleum systems I/ Sedimentary basins from observation to modeling I
Chairs: Jeroen SMIT and Liviu MATENCO

13:40 O-25 Bilal U. HAQ (keynote) Inherited Landscapes, Tectonics, Eustasy and Basin Fill
14:10 O-26 Manuel PUBELLIER (keynote), Rifting, Spreading and Inversion in the South China Sea Basin; Map View

15:00 Coffee break & posters

Sedimentary basins from observation to modeling II
Chairs: Fadi H. NADER and Hiroshi SATO

15:20 O-28 Liviu MATENCO, Quantifying the evolution of sedimentary basins by coupling sedimentary fluxes with orogenic evolution
15:40  O-29  Christian GORINI (keynote) Messinian Event in the Deep Eastern and Western Mediterranean Sea: Interaction between deep processes and global sea level change

16:10  O-30  Masa KINOSHITA, Tomohiro TOKI, Possible constraints on hydrate dissociation in sedimentary basin: Sedimentation, compaction, deep-source fluid and diffusion

16:30  O-31  Motonori HIGASHINAKA, Susumu ABE, Hiroshi SATO, Tatsuya ISHIYAMA, Naoko KATO, Estimation of pre-Neogene basement in Niigata-area Japan using gravity anomalies and velocity model based on reflection and refraction seismic surveys

16:50  O-32  Susumu ABE, Motonori HIGASHINAKA, Hiroshi SATO, Tatsuya ISHIYAMA, Strategic seismic data processing for extraction of deep crustal reflectors through reconstructed velocity heterogeneity

17:10  Posters
**Wednesday, October 7**

**Sedimentary basins from observation to modeling II/ East, SE Asia geology I**
Chairs: Manuel PUBELLIER and Anne VAN HORNE

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<td>9:50</td>
<td>Fadi H. NADER, Challenges of the Levant Basin: a typical example of frontier, off-shore, deep-water hydrocarbon basins</td>
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<td>10:10</td>
<td>Tanio ITO (keynote), Satoshi YAMAKITA and Hiroshi SATO, The Japanese island arc: geological structures and its formation processes</td>
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<td>Coffee break &amp; posters</td>
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<td>11:00</td>
<td>Francesco ARBOIT, Khalid AMROUCH, Alan S. COLLINS, Rosalind KING and Christopher MORLEY, Determination of the tectonic evolution from fractures, faults and calcite twins on the south-western margin of the Indochina Block</td>
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<td>11:20</td>
<td>Concluding remarks</td>
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**Posters**

P-1 Francesco ARBOIT, Alan S. COLLINS, Christopher MORLEY, Rosalind KING and Khalid AMROUCH, Detrital zircon age, Hf isotopic analysis and tectonic reconstruction of the Khao Khwang Fold-Thrust Belt, south-western margin Indochina terrane, central Thailand

P-2 Francesco ARBOIT, Khalid AMROUCH, Alan S. COLLINS, Rosalind KING and Christopher MORLEY, Determination of the tectonic evolution from fractures, faults and calcite twins on the south-western
margin of the Indochina Block

P-3 Nana KAMIYA, Yuzuru YAMAMOTO, Takato TAKEMURA, Deformation and paleo-geothermal structure of the Neogene forearc basin in the Boso Peninsula, central Japan

P-4 Anne VAN HORNE, Hiroshi SATO, Tatsuya ISHIYAMA, Naoko KATO, The problem with the plate boundary in the Sea of Japan

P-5 Makoto OTSUBO, Ayumu MIYAKAWA, Migration of active contractional deformation estimated from fold topographic developments along the eastern margin of the Japan Sea, northeast Japan

P-6 Ayumu MIYAKAWA, Makoto OTSUBO, Evolution of fault activity in the northeast–central Japan: Insights from crustal stress and fault orientations

P-7 Naoko KATO, Hiroshi SATO, Tatsuya ISHIYAMA, Active fault and fold systems from shallow to deep in the eastern part of Niigata basin, central Japan

P-8 Koichi YAMAUCHI, Masahiro ISHIKAWA, Hiroshi SATO, Takaya IWASAKI, Tsuyoshi TOYOSHIMA, Crust composition in the Hidaka Metamorphic Belt estimated from seismic velocity by measurements under the high P-T condition

P-9 Dong-Lim CHOI, High-resolution sequence stratigraphy of the subaqueous Nakdong Delta on the Korea Strait shelf during the Holocene transgression