# Oral Presentations Summary

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<tr>
<td>8:30-8:45</td>
<td>Announcement</td>
<td>8:30-8:50 White</td>
<td>8:30-8:50</td>
<td>8:30-8:50 Gross</td>
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<td>8:45-9:25</td>
<td>Key note, Hasegawa</td>
<td>8:50-9:10 Goleby</td>
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<td>8:50-9:10 Wu</td>
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<td>10:20-10:50</td>
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<td>10:50-11:10</td>
<td>Scott</td>
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<td>11:50-12:00</td>
<td>Discussion</td>
<td>11:30-11:50 Key note Iwasaki</td>
<td>11:30-11:50 Key note, Goleby</td>
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<td>11:30-11:50 Gallart</td>
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<td>Poster Session 1</td>
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1
ORAL PRESENTATION PROGRAM

September 25th, Monday

8:30-8:45 WELCOME

Japan session

Chair T. Iwasaki
8:45-9:25 JPS-O01 Key note talk
EARTHQUAKES IN JAPAN – THEIR ACTIVITY, GENERATION MECHANISM AND RELATIONSHIP WITH INHOMOGENEOUS LITHOSPHERIC STRUCTURE
Hasegawa, A.

9:25-10:05 JPS-O02 Key note talk
OUTLINES OF THE GEOLOGICAL STRUCTURES AND THEIR EVOLUTION OF THE JAPANESE ISLANDS
Ito, T.

10:05-10:20 Discussion

10:20-10:50 Break

Continental rifts and basins

Chair R. Mjelde
10:50-11:10 CRB-O01
EXTENSIONAL HISTORY OF THE EASTERN BLACK SEA BASIN
Scott, C., Shillington, D., Minshull, T., Edwards, R. and White, N.

11:10-11:30 CRB-O02
WIDE ANGLE SEISMIC REFLECTION CONSTRAINTS ON THE LITHOSPHERE OF SW-IBERIA: IBERSEIS-WA

11:30-11:50 CRB-O03
REPROCESSING OF SEISMIC REFLECTION DATA WITH THE COMMON REFLECTION SURFACE STACK METHOD (CRS): NEW INSIGHT INTO THE CRUSTAL STRUCTURE OF NORTHERN GERMANY
Yoon, M., Baykulov, M., Tümmons, S., Brink, H.-J. and Gajewski, D.

11:50-12:00 Discussion

12:00- Lunch

13:00-14:00 Poster session 1

Chair H. Thybo
14:00-14:20 CRB-O04
SUB-SEISMIC STRUCTURE AND DEFORMATION QUANTIFICATION ON DIFFERENT SCALES FROM 3D REFLECTION SEISMSICS IN THE NORTH GERMAN BASIN
Krawczyk, C.M., Lohr, T., Tanner, D.C., Endres, H., Trappe, H., Oncken, O. and Kukla, P.
14:20-14:40       CRB-O05
CRUSTAL STRUCTURE AND EVOLUTION OF THE SOUTHERN RIO GRANDE RIFT, USA
Averill, M.G. and Miller, K.C.

14:40-15:00       CRB-O06
SEISMIC ANALYSIS AND MODELS FROM A RIFTED SUBMARINE PLATEAU OF CONTINENTAL ORIGIN: GREAT SOUTH BASIN AND BOUNTY TROUGH (NEW ZEALAND)
Grobys, J., Gohl, K., Uenzelmann-Neben, G., Davy, B., Barker D. and Deen, T.

15:00-15:10 Discussion

15:10-15:40 Break

Chair B. Goleby
15:40-16:00       CRB-O07
THERMAL REFRACTION AND THE RHEOLOGICAL BASIS OF “COLD” INTRAPLATE DEFORMATION: SEISMICALLY AND GEOLOGICALLY CONSTRAINED NUMERICAL MODEL OF THE DONBAS FOLD BELT
Stephenson, R.A., Hansen, D.L. and Nielsen, S.B.

16:00-16:20       CRB-O08
BAIKAL EXPLOSION SEISMIC TRANSECTS
Thybo, H., Nielsen, C., Jensen, M.-B., Suvorov, V.D. and Perchuc, E.

16:20-16:40       CRB-O09
CRUSTAL STRUCTURE OF MAINLAND CHINA FROM DEEP SEISMIC SOUNDING DATA
Li, S.L., Mooney, W.D. and Fan, J.C.

16:40-17:00       CRB-O10
CRUSTAL STRUCTURE OF THE SOUTHERN KOREAN PENINSULA FROM LARGE EXPLOSIONS
Kim, K.Y., Hong, M.H., Lee, J.M., Moon, W., Baag, C.E. and Jung, H.

17:00-17:15 Discussion

17:30-19:00 Poster session 1

19:00-     Dinner

20:00-22:00 Poster session 1

September 26th, Tuesday

Chair S. Bannister
8:30-8:50         CRB-O11
MELT INTRUSION IN THE CRUST AT RIFTED MARGINS AND BACK-ARC BASINS
White, R.S., Smith, L.K, Harrison, A.J. and iSIMM Working Group

Intra-continental collision and accretion

8:50-9:10         ICA-O01
THE AUSTRALIAN CRUST, ARCHAEAN TO PALAEOZOIC ARCHITECTURE: RESULTS FROM AUSTRALIA'S DEEP SEISMIC PROGRAM
Oral Presentation Program

Goleby, B.R., Jones, L.E.A, Fomin, T., Barton, T., Costello, R. and Tassel, H.

9:10-9:30  ICA-O02
DEEP CRUSTAL STRUCTURE, ORIGIN AND EVOLUTION OF THE PALAEOPROTERO-ZOIC LAPLAND-MIDRUSSIA-SOUTH BALTIA INTERCONTINENTAL COLLISION OROGEN, EAST-EUROPEAN CRATON

9:30-9:50  ICA-O03
SEISMIC IMAGES OF THE SVECOFENNIAN OROGEN
Korja, A., Heikkinen, P., Tiira, T., Hyvönen, T. and FIRE Working Group

9:50-10:00 Discussion
10:00-10:30 Break

Seismic investigations related to mineral resources and volcano-plutonic system

Chair M. F. Coffin
10:30-10:50  SMV-O01
4DEEP SEISMX: TIME LAPSE IMAGING OF MAGMA BENEATH MONTESERRAT- A FEASIBILITY STUDY
Brown, L., Maheshwari, R., and Stephenson, M.

10:50-11:10  SMV-O02
VARIABLE GROWTH OF CONTINENTAL CRUST IN THE IZU–BONIN INTRA-OCEANIC ARC REVEALED BY ACTIVE SORUCE SEISMIC STUDIES

11:10-11:30  SMV-O03
TECTONIC AND METALLOGENIC IMPLICATIONS OF REGIONAL SEISMIC PROFILES IN THE TIMMINS MINING CAMP, CENTRAL SUPERIOR CRATON OF CANADA
Snyder, D.B. and Bleeker, W.

Japan session

11:30-11:50  PS-O03 Key note talk
JAPAN TRANSECT – OVERVIEW OF RECENT SEISMIC EXPEDITIONS IN JAPAN – Iwasaki, T.

11:50-12:00 Discussion
12:00- Lunch
13:00-14:00 Poster session 1

Active continental margins

Chair R. S. White
14:00-14:20  ACM-O01
ACTIVE OBDUCTION OF OCEANIC LITHOSPHERE: THE UPPER CRUST OF THE ONTONG JAVA PLATEAU
Coffin, M.F., Inoue, H., Mann, P. and Taira, A.
14:20-14:40  ACM-O02
SEISMIC SECTIONS ACROSS IZU-OGASAWARA (BONIN)-MARIANA ARC: FORMING CONTINENTAL CRUST IN OCEANIC ISLAND ARCS

14:40-15:00  ACM-O03
IMAGING THE SUBDUCTION DECOLLEMENT, HIKURANGI SUBDUCTION ZONE, NEW ZEALAND
Bannister, S., Toulmin, S., Sutherland, R., Henrys, S., Reyners, M., Pecher, I., Barker, D., Uruski, C. and Maslen, G.

15:00-15:10 Discussion

15:10-15:40 Break

Chair L. Brown

15:40-16:00  ACM-O04
CRUSTAL STRUCTURE IN CHILE AND OCHOTSK SEA REGIONS
Pavlenkova, N.I., Pilipenko, V.N., Verpachovskaja, A.O. and Pavlenkova, G.A.

16:00-16:20  ACM-O05
HETEROGENEOUS STRUCTURE AT NKTZ REVEALED BY THE RECEIVER FUNCTION AND SHEAR-WAVE SPLITTING ANALYSES WITH THE DATA OF THE JOINT SEISMIC OBSERVATIONS.
Iidaka, T., Igarashi, T., Iwasaki, T., Shibutani, T., Hiramatsu, Y. and Japanese University Group of the Joint Seismic Observations at NKTZ

16:20-16:40  ACM-O06
COMPLEX GEOMETRY OF PHILIPPINE SEA SLAB BENEATH CENTRAL AND SOUTHWESTERN JAPAN AND THE RELATIONSHIP WITH LOCAL SEISMICITY
Shiomi, K., Matsubara, M. and Obara, K.

16:40-17:00  ACM-O07
RECEIVER FUNCTIONS FROM TRENCH-ZONE SCATTERING: RESULTS FROM 1D AND 3D FINITE-DIFFERENCE MODELLING
Morozov, I. B. and Zheng, H.

17:00-17:15 Discussion

17:30-19:00 Poster session 1

19:00- Dinner

20:00-22:00 Poster session 1

September 27th, Wednesday

Passive continental margins

Chair J. H. Knapp

8:30-8:50  PCM-O01
SEISMIC EVIDENCES OF THE CONSUMPTION OF THE SOUTHERN MARGIN OF BAY OF BISCAY DURING THE ALPINE COMPRESSION

8:50-9:10  PCM-O02
CRUSTAL TRANSECT ACROSS THE NORTH ATLANTIC
Mjelde, R., Breivik, A.J. and Faleide, J.I.

9:10-9:30  PCM-O03
CRUSTAL STRUCTURE OF THE FAROES NORTH ATLANTIC MARGIN FROM WIDE-ANGLE SEISMIC DATA
Roberts, A.W., White, R.S. and iSIMM team

9:30-9:50  PCM-O04
BASEMENT AND CRUST IN THE SW AUSTRALIA FROM ONSHORE/OFFSHORE SEISMIC EXPERIMENT: IMPLICATIONS FOR HYDROCARBON MATURATION
Goncharov, A., Deighton, I., Petkovic, P., Tassell, H. and McLaren, S.

9:50-10:00 Discussion

10:00-10:30 Break

The continental mantle

Chair W. D. Mooney
10:30-10:50  TCM-O01 Key note talk
FINE SCALE HETEROGENEITY IN THE EARTH'S CRUST AND MANTLE
Thybo, H.

10:50-11:10  TCM-O02
EVIDENCE FOR ACTIVE LOWER-CRUSTAL CONTINENTAL DELAMINATION IN THE VRANCEA SEISMOGENIC ZONE OF ROMANIA FROM PROJECT DRACULA

11:10-11:20  TCM-O03
COMPOSITIONAL VARIATIONS IN THE CONTINENTAL LITHOSPHERE CONSTRAINED BY SEISMIC TOMOGRAPHY DATA
Artemieva, I.M.

Classic transect

11:20-11:50  CTS-O01 Key note talk
IGCP PROJECT 474: IMAGES OF THE EARTH'S CRUST & UPPER MANTLE
Goleby, B., Brown, L., Cook, F., Oncken, O., Fuiss, G., Hobbs, R., Li, S. and Finlayson, D.

Japan session

11:50-12:10  JPS-O04 Key note talk
MEGATHRUST EARTHQUAKES AND SUBDUCTION STRUCTURES: LESSONS FROM THE NANKAI SEISMOGENIC ZONE
Kodaïra, S.

12:10-12:20 Discussion

12:20- Lunch

13:00-14:30 Poster session 2

14:30- Excursion

18:00- Dinner at Kamakura Prince Hotel
21:00-22:00 Poster session 2

September 28th, Thursday

Subduction structures of megathrust zones

Chair H. Sato
8:30-8:50 SSM-O01
REFLECTION SEISMIC IMAGING OF THE SUBDUCTION ZONE IN SOUTHERN CENTRAL CHILE
Gross, K., Buske, S., Wigger, P. and TIPT EQ Research Group, Seismics Team

8:50-9:10 SSM-O02
3D IMAGES OF THE KUMANO BASIN REGION, JAPAN: NANTROSEIZEIODP SURVEY
Moore, GF., Yoro, T., Bangs, N.L. and Tanaka, H.

9:10-9:30 SSM-O03
VELOCITY STRUCTURES, REFLECTORS, SEISMICITY AND LOW-FREQUENCY TREMORS RELATING TO subduction of the philippine sea plate in the kinki district, southwest japan
Ito, K., Sato, H., Ito, T., Hirose, I., Shibutani, T., Umeda, Y., Hirata, N., Abe, S., and Ikawa T.

9:30-9:50 SSM-O04
CRUSTAL STRUCTURE ASSOCIATED WITH THE SUBDUCTING PHILIPPINE SEA PLATE BENEATH THE SOUTHERN PART OF THE BOSO PENINSULA, JAPAN

9:50-10:00 Discussion

10:00-10:30 Break

Numerical modeling of heterogeneity and anisotropy

Chair C. A. Zelt
10:30-10:50 NHA-O01
HETEROGENEITY AND SEISMIC SCATTERING IN EXPLORATION ENVIRONMENTS
L’Heureux, E., Milkereit, B. and Vasudevan, K.

10:50-11:10 NHA-O02
PRIDE & PREJUDICE IN THE INVERSION OF LONG-OFFSET SEISMIC DATA
Hobbs, R. W., Flecha, I. and Carbonell, R.

11:10-11:30 NHA-O03
IMPRINT OF CRUSTAL SEISMIC ANISOTROPY ONTO MANTLE SHEAR-WAVE SPLITS: CALIBRATED NUMERICAL TESTS
Okaya, D.A. and Wu, F.T.

11:30-11:50 NHA-O04
CONSERVATION OF LITHOLOGY POWER LAW STRUCTURE IN SEISMIC REFLECTION DATA UNDER VARIOUS CIRCUMSTANCES
Carpentier, S.F.A. and Roy-Chowdhury, K.
Oral Presentation Program

11:50-12:00 Discussion

12:00- Lunch

13:00-14:00 Poster session 2

Innovative seismic acquisition and processing techniques

**Chair R. W. Hobbs**

14:00-14:20  **IAP-O01**

FINITE-FREQUENCY TRAVELTIME TOMOGRAPHY FOR ACTIVE-SOURCE SEISMIC DATA

Zelt, C.A.

14:20-14:40  **IAP-O02**

APPLYING FULL WAVEFORM INVERSION TO WIDE-ANGLE SEISMIC SURVEYS

Bleibinhaus, F., Lester, W.R. and Hole, J.A.

14:40-15:00  **IAP-O03**

FRESNEL-VOLUME-MIGRATION OF DEEP SEISMIC REFLECTION DATA

Buske, S., Chalbaud, D., Gross, K., Sick, C., Shapiro, S. and Wigger, P.

15:00-15:10 Discussion

15:10-15:40 Break

**Chair D. A. Okaya**

15:40-16:00  **IAP-O04**

PRESTACK IMAGING OF TELESEISMIC BODY WAVES: A COMPARISON OF RECEIVER FUNCTION ANALYSIS AND SEISMIC INTERFEROMETRY


16:00-16:20  **IAP-O05**

SOME IMPROVEMENTS ON SEISMIC IMAGING BY PRE-STACK DEPTH MIGRATION

Flecha, I., Palomeras, I., Carbonell, R., Zeyen, H. and Hobbs, R. W.

16:20-16:40  **IAP-O06**

IMAGING STEEP DIPS: EXAMPLES FROM AUSTRALIAN SEISMIC SURVEYS

Jones, L.E.A.

16:40-17:00  **IAP-O07**

HIGH-RESOLUTION SEISMIC CHARACTERIZATION IN A COMPLEX URBAN AREA

Martí, D., Font-Capó, J., Flecha, I., Palomeras, I., Vázquez-Suñé, E., Carbonell, R. and Pérez-Estaún, A.

17:00-17:15 Discussion

17:30-19:00 Poster session 2

19:00- Dinner

20:00-22:00 Poster session 2

September 29th, Friday

Seismic investigations for disastrous earthquake areas
Chair J. A. Hole
8:30-8:50 SDE-O01
REGIONAL CHARACTERIZATION OF THE CRUST IN THE TOKYO METROPOLITAN AREA, CENTRAL JAPAN

8:50-9:10 SDE-O02
HIGH RESOLUTION TOMOGRAPHY OF KANTO-IZU AND ITS IMPLICATIONS ON TECTONICS AND SEISMIC HAZARDS
Wu, F.T., Okaya, D.A., Hirata, N. and Sato, H.

9:10-9:30 SDE-O03
SEISMIC REFLECTION PROFILING ACROSS THE ITOIGAWA-SHIZUOKA TECTONIC LINE, CENTRAL JAPAN: ACTIVE NAPPE WITH A HIGH SLIP RATE

9:30-9:50 SDE-O04
SOUTHEASTERN CARPATHIAN FORELAND DEFORMATION IN RELATION TO THE VRANCEA SEISMOGENIC ZONE OF ROMANIA: RESULTS FROM PROJECT DRACULA
Knapp, C. C., Knapp, J. H. and Mucuta, D. M.

9:50-10:00 Discussion
10:00-10:30 Break

Integrated multidisciplinary case studies

Chair R. Carbonell
10:30-10:50 IMC-O01
INTEGRATED MODELING OF A 3-D VELOCITY STRUCTURE FOR STRONG GROUND MOTION SIMULATION
Koketsu, K., Miyake, H., Tanaka, Y. and Hikima, K.

10:50-11:10 IMC-O02
STRUCTURE OF THE SAN ANDREAS FAULT AT THE SAFOD DEEP DRILL SITE
Hole, J. A., Bleibinhaus, F., Ryberg, T. and Fuis, G. S.

11:10-11:30 IMC-O03
FAULT ZONES FROM TOP TO BOTTOM: A GEOPHYSICAL PERSPECTIVE
Mooney, W. D., Beroza, G. and Kind, R.

11:30-11:50 IMC-O04
HIGH RESOLUTION SEISMIC IMAGING OF THE IBERIAN LITHOSPHERE: THE TOPO-IBERIA RESEARCH INITIATIVE

11:50-12:00 Discussion
12:00- Lunch
POSTER PRESENTATION PROGRAM

Poster session 1 September 25th, Monday - September 26th Tuesday

Continental rifts and basins

CRB-P01
ESTRID-1: REFRACTION SEISMIC INVESTIGATIONS OF THE DANISH BASIN
Sandrin, A., Nielsen, L. and Thybo, H.

CRB-P02
ESTRID-2: REFLECTION SEISMIC PROFILING IN THE DANISH BASIN
Nielsen, C., Shulgin, A., Nielsen, L. and Thybo, H.

CRB-P03
SUB-SEISMIC STRUCTURE AND DEFORMATION QUANTIFICATION ON DIFFERENT SCALES FROM 3D REFLECTION SEISMSICS IN THE NORTH GERMAN BASIN
Krawczyk, C.M., Lohr, T., Tanner, D.C., Endres, H., Trappe, H., Oncken, O. and Kukla, P.

CRB-P04
DEEP SEISMIC IMAGING AND CRUSTAL STRUCTURE IN THE ZONES OF MAJOR OIL FIELDS
Trofimov, V.A.

CRB-P05
SEISMIC TOMOGRAPHY MODELLING OF THE EASTERN BLACK SEA BASIN.
Scott, C., Shillington, D., Minshull, T., Edwards, R. and White, N

CRB-P06
BAIKAL EXPLOSION SEISMIC TRANSECTS
Thybo, H., Nielsen, C., Jensen, M.-B., V.D.Suvorov, V.D. and Perchuc, E.

CRB-P07
TECTONIC SUBSIDENCE AND CRUSTAL STRUCTURE OF XIHU DEPRESSION, EAST CHINA SEA BASIN
Li, C.-E., Zhou, Z., Ge, H. and Mao, Y.

CRB-P08
TOMOGRAPHIC IMAGES OF THE UPPER CRUST FROM THE YANYUAN BASIN TO THE DALIANG MOUNTAINS, SOUTHWEST SICHUAN PROVINCE: RESULTS FROM THE XICHANG REGION SEISMIC REFRACTION EXPERIMENT
Wang, F., Duan, Y. and Yang, Z.

CRB-P09
SEISMIC REFLECTION AND GPS EVIDENCE FOR DISTRIBUTED CRUSTAL EXTENSION IN THE EASTERN BASIN AND RANGE, WESTERN USA
Velasco, M.S., Johnson, R.A., Bennett, R.A. and Porter, R.C.

CRB-P10
METAMORPHIC CORE COMPLEX EMPLACEMENT AND BASIN FORMATION IN SOUTHEASTERN ARIZONA, USA
Arca, M.S., Wagner, F.H., III and Johnson, R.A.

CRB-P11
COMPLEXITIES OF THE WESTERN MARGIN OF THE TRANS-HUDSON OROGEN IN SASKATCHEWAN, CANADA
Hajnal, Z., Pandit, B., Sule, S. and White, D.

**CRB-P12**
**STRONG SEISMIC REFLECTIONS FROM THE UPPER MANTLE OF A CONTINENTAL BACK-ARC**
Benson, A.B., Stern, T.A. and Bannister, S.C.

Intra-continental collision and accretion

**ICA-P01**
**3D STRUCTURE OF THE EASTERN ALPS FROM DEEP SEISMIC WIDE-ANGLE DATA**
Bleibinhaus, F., Behm, M., Brückl, E. and ALP 2002 Working Group

**ICA-P02**
**SEISMIC IMAGES OF THE SVECOFENNIAN OROGEN**
Korja, A., Heikkinen, P., Tiira, T., Hyvönen, T. and FIRE Working Group

**ICA-P03**
**COMBINED CDP-DSS STUDIES ALONG PROFILE 1-EB (EAST-EUROPEAN CRATON)**
Suleimanov A.K., Samozhnyaya N.G. and Pavlenkova N.I.

**ICA-P04**
**MIDRUSSIA SEGMENT OF THE PALAEOPROTEROZOIC L Appland-Midrussia-Southbaltia INTERCONTINENTAL COLLISION OROGEN, EAST-EUROPEAN CRATON: INTEGRATION OF REGIONAL POTENTIAL FIELDS AND CDP DATA ALONG THE 1-EU GEOTRAVERSE**

**ICA-P05**
**FINE UPPER CRUSTAL STRUCTURE IN EASTERN KUNLUN ACTIVE FAULT BELT AND ITS ADJACENT AREA**
Zhang, X., Xu, Z. and Wang, F.

**ICA-P06**
**CRUSTAL STRUCTURE OF THE NORTHEASTERN MARGIN OF THE TIBETAN PLATEAU FROM THE SONGPAN-GANZI TERRANE TO THE ORDOS BASIN**
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**SSM-P05**
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**IMC-P03**
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**IMC-P04**
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**IMC-P05**
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