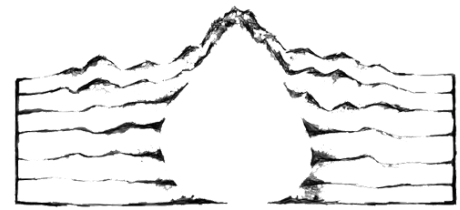


# SCIENTIFIC PROGRAMME

## 16<sup>th</sup> SEISMIX International Symposium

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

### Sunday, OCTOBER 12

18:30-19:45 **REGISTRATION and ICEBREAK**  
Hall of the Congress Center at Gran Hotel Rey Don Jaime

20:00-21:30 **Dinner**

### Monday, OCTOBER 13

ORAL: Keynote (25'+5'), Other (13'+2')

8:00-8:45 **REGISTRATION**  
Hall of the Congress Center at Gran Hotel Rey Don Jaime

8:45 **OPENING WELCOME** to the 16<sup>th</sup> SEISMIX International Symposium  
*M. Torné (Director, Institute of Earth Sciences "Jaume Almera" - CSIC)*

#### **S1. Seismic imaging and inversion (I)**

Chair: J. Hole

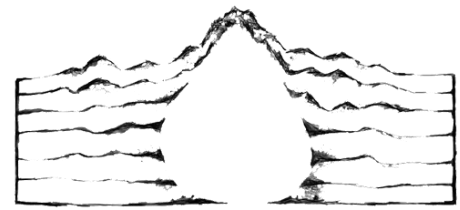
9:00 **S1.1** Adaptive full-waveform seismic inversion (**KEYNOTE**)  
*M. Warner, Ll. Guasch, J. Morgan*

9:30 **S1.2** AWI: an alternative objective function immune to cycle-skipping  
*Ll. Guasch, M. Warner, A. Umpleby, Y. Gang*

9:45 **S1.3** How to deal with noisy and bandwidth limited data in FWI: the appropriate choice of the misfit function  
*C. E. Jiménez Tejero, D. Dagnino, V. Sallarès, C. R. Ranero*

10:00 **S1.4** Full-waveform inversion of conventional vibroseis data using preconditioning focused on low frequency enhancement  
*A. Adamczyk, M. Malinowski, A. Górszczyk*

10:15 **S1.5** Initial model sensibility of full wave-form inversion using first arrivals data set



*D. Dagnino, C. E. Jiménez Tejero, V. Sallarès, C. R. Ranero*

10:30 **S1.6** 3D full waveform modeling of Outokumpu ore belt formation  
*K. Komminaho, N. Hellqvist, E. Laine, E. Koivisto, S. Heinonen, P. Heikkinen*

10:45-11:15 **Coffee Break**

**S2. Seismic imaging and inversion (II)**

Chair: M. Warner

11:15 **S2.1** Curvelet denoising of 2D and 3D seismic data: practical considerations

*A. Górszczyk, A. Adamczyk, M. Malinowski*

11:30 **S2.2** Methodical problems of geological and geophysical investigations on survey base lines

*A. Salnikova, O. Sagaidachnaya, A. Yemanov, V. Solovyev*

11:45 **S2.3** Application of high-resolution 2D-3C seismics for characterization of the Jurassic shale play in Central Poland

*M. Cyz, M. Malinowski, M. Mulińska, P. Krzywiec, T. Rosowski*

12:00 **S2.4** Multicomponent broadband seismic landstreamer for high-resolution imaging and site characterization

*B. Brodic, A. Malehmir, C. Juhlin*

12:15 **S2.5** Time-lapse seismic performance of a sparse permanent array: Experience from the Aquistore CO<sub>2</sub> Storage Site

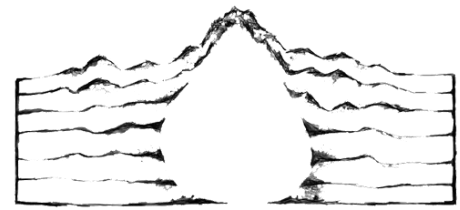
*D.J. White, L.A.N. Roach, B. Roberts*

12:30 **S2.6** PRay - A graphical user interface for interactive visualization and modification of rayinvr models

*T. Fromm*

12:45 **S2.7** TOMO3D: A new 3-D joint refraction and reflection travel-time tomography parallel code for active-source seismic data

*A. Meléndez, J. Korenaga, V. Sallarès, A. Miniussi, C. R. Ranero, P.*



*Charvis*

13:00-14:30 **Lunch**

**S3. Seismic imaging and inversion (III)**

Chair: D. White

14:30 **S3.1** *Joint inversion: The way forward to a comprehensive Earth model (KEYNOTE)*

*M.D. Jegen*

15:00 **S3.2** *Rock material factors for crustal seismic anisotropy and the need to go beyond slow-axis transverse isotropy*

*D. Okaya, S. Brownlee, N. Christensen*

15:15 **S3.3** *Aftershock Imaging with Dense Arrays (AIDA): Lessons from Virginia and Maine*

*L.D. Brown, D. Quiros, J. Hole, K. Davenport, K. Wang, A. Cabolova, W. Mooney*

15:30 **S3.4** *Seismic interferometry of cultural noise: body waves extracted from auto and train traffic*

*D. Quiros, L. Brown, D. Kim*

15:45 **S3.5** *Geothermal reservoir structures characterized using seismic depth imaging methods*

*M. Riedel, C. Dutsch, C. Alexandrakis, I. Dini, S. Ciuffi, S. Buske*

16:00 **S3.6** *High-power vibration sources in targets of active seismology and study of the Earth's deep structure*

*V.S. Seleznev, A.F. Emanov, V.M. Solovyev, V.N. Kashun*

16:15 **S3.7** *New dawn of the Australian Ocean Bottom Seismography*

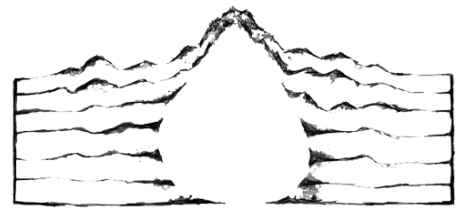
*A. Goncharov*

16:30 **S3.8** *2.5-D inversion of frequency domain CSEM data using a PDE constrained optimization technique*

*S. Galiana, X. Garcia*

**SCIENTIFIC PROGRAMME**  
**16<sup>th</sup> SEISMIX International Symposium**

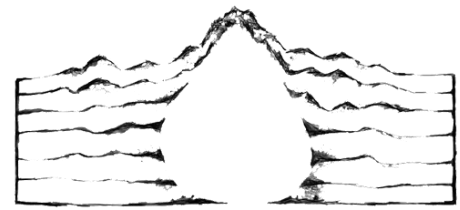
Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

---

- 16:45-17:15*    **Coffee Break**
- 17:15-19:45*    **Posters**
- 20:00-21:30*    **Dinner**
- 21:30-22:30*    **Posters with beverages**



**Tuesday, OCTOBER 14**

ORAL: Keynote (25'+5'), Other (13'+2')

**S4. Intra-continental deformation, collision and accretion (I)**

Chair: M. Malinowsky

- 9:00           **S4.1** The Moho probed anew  
*W.-P. Chen, C.-Q. Yu, C.-Y. Wang, T.-L. Tseng, R. van der Hilst, X. He, J. Ning*
- 9:15           **S4.2** Integrated geophysical model of the south part of Siberian Craton and the adjacent fold systems  
*E. Milshtein, E. Androsov, V. Mukhin, I. Vinokurov*
- 9:30           **S4.3** Ambient noise tomography using data from the WOMBAT transportable seismic array in eastern Australia  
*N. Rawlinson, S. Pilia, P. Arroucau*
- 9:45           **S4.4** Clockwise rotation of the Tarim basin driven by the Indian plate impact  
*J. Zhao, P. Zhang, X. Yuan, W. Ga, R. Kind, X. Zhang, H. Liu, Sh. Pei, Q. Xu, H. Zhang, G. Deng*
- 10:00          **S4.6** The crustal structure beneath the S-N trending rifts in southern Tibetan plateau by virtual seismic sounding and its geodynamic implications  
*X. Tian, Y. Chen, T.-L. Tseng, T. Xu, Z. Bai, X. Liang, Z. Liu, J. Teng*
- 10:15          **S4.7** Deep seismic studies across Australia  
*T. Fomin, R.J. Korsch, M. P. Doublier, K. Czarnota, Kennett, B.L.N.*
- 10:30-11:00   **Coffee Break**

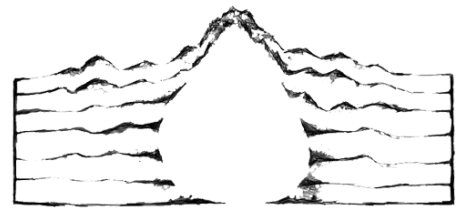
**S5. Intra-continental deformation, collision and accretion (II)**

Chair: L. Brown

# SCIENTIFIC PROGRAMME

## 16<sup>th</sup> SEISMIX International Symposium

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

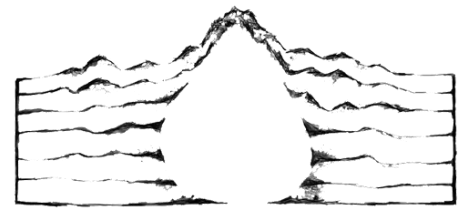
- 11:00      **S5.1** Seismic Interpretation of the Cue-Weld range area, Yilgarn Craton, Western Australia  
*O. Ahmadi, H. Koyi, C. Juhlin, K. Gessner*
- 11:15      **S5.2** Deep Seismic Reflection Imaging of Paleogene Crustal Extension in the South-Central Intermontane Belt of British Columbia, Canada  
*A.J. Calvert, D. Talinga*
- 11:30      **S5.3** SW edge of the East European Craton in Poland, its structure and Phanerozoic evolution: new insight from regional high-effort seismic reflection data (PolandSPAN project)  
*P. Krzywiec, M. Malinowski, S. Mazur, V. Buffenmyer, M. Lewandowski*
- 11:45      **S5.4** From the surface Topography to the Upper mantle beneath Central-Iberian-Zone. The ALCUDIA Seismic Experiments.  
*R. Carbonell, P. Ayarza, S. Akhtar Ehsan, D. Martí, D. J. Martínez-Poyatos, J. F. Simancas, A. Azor, A. Pérez-Estaún*
- 12:00      **S5.5** Completing the anisotropic map of Iberia and Northern Morocco  
*J. Díaz, J. Gallart*
- 12:15      **S5.6** Contribution of High Resolution Wide-Angle Reflection Data on the Understanding of the Crustal Structure of the Atlas Mountains: The SIMA Experiment  
*P. Ayarza, R. Carbonell, A. Teixell, I. Palomeras, M.L. Arboleya, A. Kchickach, A. Levander*
- 12:30      **S5.7** The deep structure of the Iberian Peninsula and North Morocco: the contribution of the high resolution TopoIberia-IberArray BB seismic network  
*J. Gallart, J. Diaz, J. F. Mancilla, A. Villaseñor, L. Bonatti, M. Schimmel, M. Harnafi, L. El Moudnib, and IberArray working group*
- 13:00-14:30      **Lunch**

### **S6. Intra-continental deformation, collision and accretion (III)**

# SCIENTIFIC PROGRAMME

## 16<sup>th</sup> SEISMIX International Symposium

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



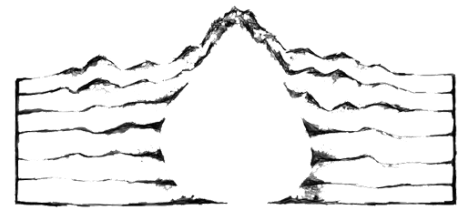
1 6 t h S E I S M I X

Chair: A. Levander

- 14:30      **S6.1** Geodynamic evolution of the Western Mediterranean plate boundary region (**KEYNOTE**)  
*W. Spakman*
- 15:00      **S6.2** Seismological technologies of GS SB RAS at research of Siberian territory  
*V.S. Seleznev, A.F. Emanov, V.M. Solovyev, V.N. Kashun, A.A. Emanov, S.M. Babushkin, A.V. Liseikin*
- 15:15      **S6.3** Progress of Russian Government Program «Network of Geotransects, and Super-Deep Wells»  
*R. Serjantov, A. Morozov, A. Lipilin, S. Kashubin, Yu. Erinchek, E. Milshtein*
- 15:30      **S6.4** Crustal imaging across the Northern Scandinavian Mountains from seismological and magnetotelluric data analysis  
*W. Ben Mansour, R.W. England, M. Moorkamp*
- 15:45      **S6.5** The gravitational response of the Emeishan large igneous province (South China)  
*Y. Deng, Z. Zhang, W. Mooney, J. Badal, W. Fan, Q. Zhong*
- 16:00-16:30      **Coffee Break**
- 16:30-18:00      **Brainstorming**  
*Topic: Seismic probing 2020, the next generation: Targets, technologies, developments*  
*Chair: L. Brown, A. Levander, J. Morgan, W. Spakman*
- 18:00-19:45      **Posters**
- 20:00-21:30      **Dinner**

**SCIENTIFIC PROGRAMME**  
**16<sup>th</sup> SEISMIX International Symposium**

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014

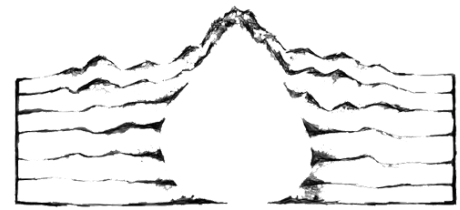


1 6 t h S E I S M I X

---

*21:30-22:30*    **Posters with beverages**





**Wednesday, OCTOBER 15**

ORAL: *Keynote (25'+5')*, *Other (13'+2')*

**S7. Passive continental margins, rifts, basins and mid-ocean ridges (I)**

Chair: H. Carton

9:00 **S7.1** Seismic studies of rifted continental margins: progress, challenges and opportunities (**KEYNOTE**)

*T. A. Minshull*

9:30 **S7.2** Active continental rifting in the Salton Trough, southern California, illuminated by the Salton Seismic Imaging Project (SSIP)

*J. A. Hole, L. Han, L. E. Sabey, J. M. Stock, G. S. Fuis, N. W. Driscoll, G. M. Kent, A. Gonzalez-Fernandez, and O. Lazaro-Mancilla*

9:45 **S7.3** 3D P-wave velocity structure of the deep Galicia rifted margin

*G. Bayrakci, T. A. Minshull, R. Davy, M. Karplus, D. Sawyer, D. Klaeschen, C. Papenberg, T. Reston, D. Shillington, C.R. Ranero*

10:00 **S7.4** The continent-ocean transition on the northwestern South China Sea basin

*A. L. Cameselle, C. R. Ranero, D. Franke, U. Barckhausen*

10:15 **S7.5** A combined MCS and WAS experiment reveals the complex crustal transition between the Central and Northern Tyrrhenian basin

*M. Prada, V. Sallarès, C.R. Ranero, M.G. Vendrell, I. Grevemeyer, N. Zitellini, R. de Franco*

10:30 **S7.6** High-resolution imaging of magma storage beneath the Endeavour Ridge using 3D full-waveform seismic inversion

*J. Morgan, G. Arnoux, B. Vanderbeek, E. Hooft, D. Toomey, W. Wilcock, A. Umpleby, M. Warner*

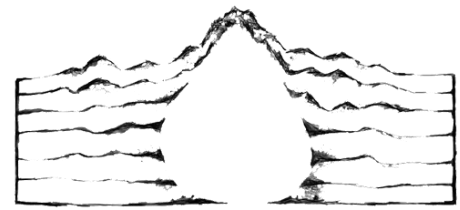
10:45-11:15 **Coffee Break**

**S8. Passive continental margins, rifts, basins and mid-ocean ridges (II)**

Chair: T. Minshull

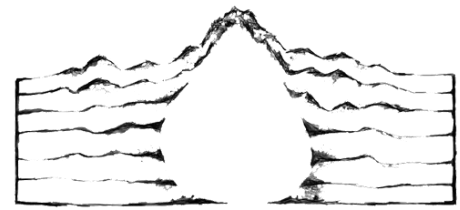
**SCIENTIFIC PROGRAMME**  
**16<sup>th</sup> SEISMIX International Symposium**

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

- 11:15      **S8.1** Impact of the fluid contents on the seismogenesis of Abu Dabbab Earthquake Source area (Northern Red Sea): Evidences from Seismic Tomography Imaging  
*S. El Khrepy, N. Al-Arifi, I. Koulakov*
- 11:30      **S8.2** 3D Seismic tomographic modelling of the Northern Spitsbergen area  
*W. Czuba*
- 11:45      **S8.3** Initial results of the deep reflection seismic imaging in SE Poland using extended correlation method  
*M. Malinowski*
- 12:00      **S8.4** Experience of linking of near-vertical and wide-angle seismic Russian offshore data  
*A. Rybalka, S. Kashubin, T. Sakulina, N. Krupnova*
- 12:15      **S8.5** The seismic structure of crust formed in back-arc spreading centers  
**(KEYNOTE)**  
*I. Grevemeyer, C. R. Ranero*
- 13:00-14:30      **Lunch**
- 14:30 -20:00      **Excursion** “Codorniu” winery (Sant Sadurni d’Anoia) and Sitges
- 20:00      **Dinner** “Dolce Sitges” restaurant (Sitges)



**Thursday, OCTOBER 16**

ORAL: *Keynote (25'+5')*, *Other (13'+2')*

**S9. Subduction zones and active continental margins (I)**

Chair: P. Ayarza

9:00 **S9.1** TAIGER crustal imaging results from the Taiwan Arc-Continent Collision (**KEYNOTE**)

*K. McIntosh, H. van Avendonk, L. Lavier, R. Lester, D. Eakin, F. Wu, D. Okaya, C.-S. Liu, and H. Kuo-Chen*

9:30 **S9.2** How the structure of the Eurasian continental margin predetermines the development of the Taiwan orogen: a view from surface geology, seismic tomography, earthquake hypocenter, and gravity data

*D. Brown, G. Camanni, J. Alvarez-Marron, C. Ayala, Y.-M. Wu, H. Kuo-Chen, H.-H. Hsieh*

9:45 **S9.3** The seismic images of the receiver function and reflection/refraction analyses in central and southwestern Japan

*T. Iidaka, T. Igarashi, E. Kurashimo, T. Iwasaki*

10:00 **S9.4** Crustal structure of failed inner rift along the Sea of Japan coast of Honshu, Japan (**KEYNOTE**)

*H. Sato, T. Ishiyama, N. Kato, S. Abe, H. Saito, K. Shiraishi, T. Iwasaki, E. Kurashimo, T. No, T. Sato, S. Kodaira, T. Takeda, M. Matsubara, M. Inaba and T. Kawamoto*

10:30-11:00 **Coffee Break**

**S10. Subduction zones and active continental margins (II)**

Chair: E. Gràcia

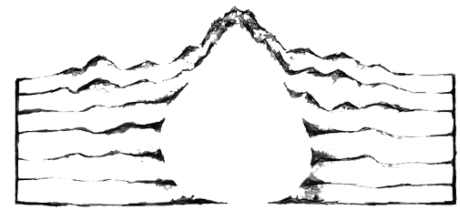
11:00 **S10.1** Subduction-driven recycling of continental margin lithosphere (**KEYNOTE**)

*A. Levander, M. Bezada, F. Niu, I. Palomeras, S. Thurner, E.D. Humphreys, R. Carbonell, J. Gallart, M. Schmitz*

# SCIENTIFIC PROGRAMME

## 16<sup>th</sup> SEISMIX International Symposium

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



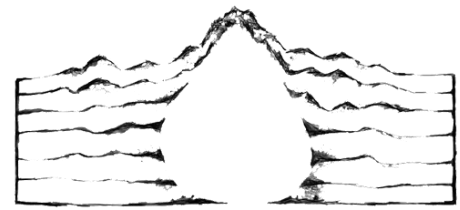
1 6 t h S E I S M I X

- 11:30      **S10.2** The GIAME integrated geoscientific project in the Merida Andes, Venezuela: Objectives and first images of deep seismic profiles  
*M. Schmitz, E. Gil, F. Mazuera, J. Ávila, L. Yegres, N. Orihuela, S. Klarica, F. Audemard, J. Sánchez, GIAME Working Group*
- 11:45      **S10.3** Shear velocity model for the westernmost Mediterranean from ambient noise and ballistic finite-frequency Rayleigh wave tomography  
*I. Palomeras, A. Villaseñor, S. Thurner, A. Levander, J. Gallart, M. Harnafi, E. M. Lahcen*
- 12:00      **S10.4** Structure and origin of the imbricated wedge of the Gulf of Cadiz from MCS images  
*A. Calahorrano, C. R. Ranero, E. Gràcia*
- 12:15      **S10.5** The Miocene formation and the Pliocene deformation of the Gibraltar Arc System  
*C.R. Ranero, E. Gràcia, A. Calahorrano, L. Gómez, I. Grevemeyer, X. García*
- 12:30      **S10.6** Active seismic imaging of the North-Chilean subduction zone (Central Andes)  
*I. Storch, S. Buske, P. Wigger, S. A. Shapiro*
- 13:00-14:30      **Lunch**

### **S11. Subduction zones and active continental margins (III)**

Chair: A. Goncharov

- 14:30      **S11.1** Contributions of active-source seismic studies for understanding megathrust earthquakes in subduction zone (**KEYNOTE**)  
*S. Kodaira, Y. Nakamura, G. Fujie, A. Nakanishi, T. No, M. Yamashita, T. Sato, S. Miura, N. Takahashi*
- 15:00      **S11.2** Seismic structure around the Nicaragua megathrust fault and the rupture characteristics of the 1992 tsunami earthquake  
*V. Sallarès, C.R. Ranero, A. Meléndez, M. Prada, K. McIntosh, I.*



*Grevemeyer*

15:15 **S11.3** Structural characters of the Japan Trench subduction zone over the March 2011 Mw 9.0 Tohoku-Oki earthquake rupture, based on interpretation of reprocessed multichannel seismic reflection data

*T. Ishiyama, H. Sato, Sh. Kodaira, Susumu Abe*

15:30 **S11.4** Characterising the seismic behavior of subduction zones using active source seismic methods (**KEYNOTE**)

*R. Bell, S. Henrys, R. Sutherland, J. Morgan, M. Warner, D. Barker, L. Wallace, K. McIntosh, N. Bangs*

16:00-16:30 **Coffee Break**

**S12. Subduction zones and active continental margins (IV)**

Chair: T. Fomin

16:30 **S12.1** Responses of regional lithospheres to megathrusts

*T.-K. Hong, J. Lee, S.-E. Hwang*

16:45 **S12.2** Seismogenic potential of active faults in the Alboran Sea revealed by multiscale seismic imaging

*E. Gràcia, R. Bartolomé, H. Perea, L. Gómez, C. R. Ranero, C. Lo Iacono, S. Martínez-Loriente, X. Moreno, J.J. Dañobeitia*

17:00 **S12.3** Crustal characterization and imaging of the Rivera Plate, Western Mexican margin (TSUJAL project): Insights from multichannel and wide-angle seismic data

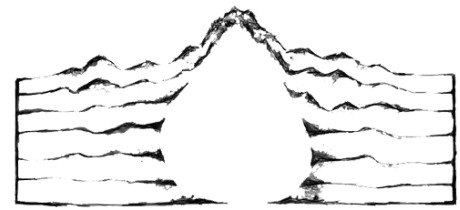
*R. Bartolomé, D. Córdoba, F. Nuñez, J.J. Dañobeitia, A. L. Cameselle, M. Prada, TSUJAL Working Group*

17:15 **S12.4** Reinterpretation of the lithospheric structure beneath the Hidaka Collision Zone, Hokkaido, Japan 2 -Collision Structure of the Northern Part from 1998-2000 Hokkaido Transect -

*T. Iwasaki, N. Tsumura, T. Ito, H. Sato, E. Kurashimo, N. Hirata, K. Arita, K. Noda, A. Fujiwara, S. Abe, S. Kikuchi, K. Suzuki*

**SCIENTIFIC PROGRAMME**  
**16<sup>th</sup> SEISMIX International Symposium**

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



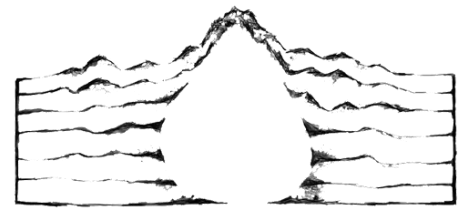
1 6 t h S E I S M I X

---

*17:30-19:45*    **Posters**

*20:00-21:30*    **Dinner**

*21:30-22:30*    **Posters with beverages**



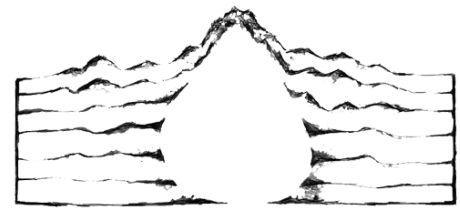
**Friday, OCTOBER 17**

ORAL: *Keynote (25'+5')*, *Other (13'+2')*

**S13. Shallow subsurface imaging and integrated geophysical studies**

Chair: D. Snyder

- 8:30      **S13.1** Understanding sub-/seismic deformation – a workflow combining seismic imaging, shear-wave techniques, and process-oriented studies across scales (**KEYNOTE**)  
*Ch. Krawczyck*
- 9:00      **S13.2** New insights from reflection seismic investigations of quick clay landslides in southwest Sweden  
*S. Salas-Romero, A. Malehmir*
- 9:15      **S13.3** Integration of Sh seismic reflection and Love wave dispersion data for shear wave velocity imaging over quick clays  
*C. Comina, Ch. M. Krawczyk, U. Polom, L. V. Socco*
- 9:30      **S13.4** Yearning for deeply seated massive sulfide deposits in Finland: can seismic reflection profiles be of help?  
*S. Heinonen, D. Snyder, P. Heikkinen, I. Kukkonen*
- 9:45      **S13.5** Comparison of shear-wave velocities found in SH-wave and in P-wave reflection measurements  
*T. Beilecke, C.M. Krawczyk, D.C. Tanner, J. Ziesch & PROTECT Research Group*
- 10:00     **S13.6** 3D Multidisciplinary geological interpretation of the Hontomín CO<sub>2</sub> storage site, Spain  
*J. Alcalde, I. Marzán, E. Saura, D. Martí, P. Ayarza, C. Juhlin, A. Pérez-Estaún, R. Carbonell*
- 10:15     **S13.7** Siesmotectonic investigation of Kuzestan province by calculating of Fault Movement Potential (FMP) and its relationship with knickzones  
*R. Khavari*



10:30-11:00 **Coffee Break**

**S14. Geology and seismics in 3D and integrated geophysical studies**

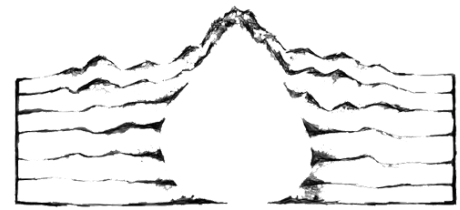
Chair: Ch. Krawczyck

- 11:00           **S14.1** Multi-scale, multi-disciplinary 3-D models **(KEYNOTE)**  
*D. Snyder, E. de Kemp, G. Bellefleur, J. Craven, E. Schetselaar*
- 11:30           **S14.2** Investigation of the swarm seismicity in the West Bohemia seismic zone using earthquake tomography and reflection seismics  
*C. Alexandrakis, E. Löberich, N. Mullick, M. Calò, V. Vavryčuk, S. Buske*
- 11:45           **S14.3** The geometry of the San Andreas Fault in Parkfield, California illuminated from relocated seismicity  
*W. Kim, T.-K. Hong, T.-S. Kang, J. M. Lee*
- 12:00           **S14.4** 3D processing of 2D crooked line reflection seismic data and correlation with downhole log data from the 2.5 km deep COSC-1 Scientific Borehole, central Sweden  
*P. Hedin, C. Juhlin, O. Oputeh, P.-G. Alm*
- 12:15           **S14.5** 3D seismic imaging of a major fault zone in the Erzgebirge region near Schneeberg / Germany  
*O. Hellwig, F. Hlousek, S. Buske*
- 12:30           **S14.6** "No-Cost" acquisition of 3D reflection imagery of the continental Basement  
*L. Brown, A. Cabolova*
- 12:45           **S14.7** Interdisciplinary studies on detecting ice sheet dynamics and glacial earthquake activities in Greenland  
*M. Kanao, S. Tsuboi, G. Toyokuni, T. Himeno, Y. Tono*



**SCIENTIFIC PROGRAMME**  
**16<sup>th</sup> SEISMIX International Symposium**

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

---

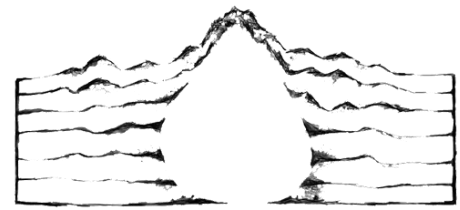
*13:00-14:30*    **Lunch**

*14:30*            **End of the meeting and bus to Granada**

# SCIENTIFIC PROGRAMME

## 16<sup>th</sup> SEISMIX International Symposium

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

### POSTERS

**Available space for posters: 135 cm wide x 95 cm high**

*All posters can be up during the whole duration of the symposium*

**P1.** Curvelet-based gather conditioning for effective depth imaging of legacy seismic data: case study from Central Poland

*M. Cyz, A. Górszczyk, M. Malinowski, P. Krzywiec, T. Rosowski, M. Mulińska*

**P2.** Curvelet denoising of 2D and 3D seismic data: practical considerations

*A. Górszczyk, A. Adamczyk, M. Malinowski*

**P3.** The Earth's crust deep structure of eastern Eurasia on evidence derived from deep seismic sounding in the cross-section of the 3-DV geotraverse

*A. Salnikov, A. Efimov, V. Solovyev, T. Kashubina*

**P4.** The Earth's crust of north-eastern Eurasia in the light of reflected waves: innovative seismic acquisition and processing techniques

*A. Salnikov, A. E. Goshko, P. Lebedkin*

**P5.** Where's the Fault? Uncertainty in seismic interpretation of fault structures

*J. Alcalde, G. Johnson, C. Bond, J. Ellis*

**P6.** Imaging the SE1-reflector near the Continental Deep Drilling Site (KTB, Germany) with coherency prestack-depth migration

*O. Hellwig, F. Hlousek, S. Buske*

**P7.** 3D Seismic Survey for a geothermal research project in crystalline rocks of Saxony, Germany

*E. Lüschen, H. von Hartmann, R. Thomas, R. Schulz*

**P8.** Reflection seismic experiments at the geothermal field Wayang Windu, Indonesia

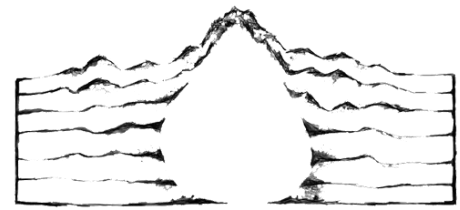
*U. Polom, W. Wiyono, B. Pramono, C.M. Krawczyk*

**P9.** Full-waveform Inversion of Conventional Vibroseis Data Using Preconditioning Focused on Low Frequency Enhancement

*A. Adamczyk, M. Malinowski, A. Górszczyk*

**P10.** Inversion of temperature and salinity from seismic data

*G. Bornstein, B. Biescas, V. Sallarès, J. F. Mojica*



**P11.** High-resolution 3D velocity model from seismic tomography in the Záncara River Basin (Cuenca, Iberian Peninsula)

*J. Sachsenhausen, D. Martí, I. Marzán, J. Álvarez-Marrón, R. Carbonell, A. Pérez-Estaún*

**P12.** Various approaches to forward and inverse wide-angle seismic modelling tested on data from DOBRE-4 experiment

*T. Janik, P. Środa, W. Czuba, D. Lysynchuk, K. Kolomiyets*

**P13.** Reflection Seismic Surveying for Ore Exploration in Outokumpu, Finland

*N. Hellqvist, K. Komminaho, E. Koivisto, S. Heinonen, P. Heikkinen, I. Kukkonen*

**P14.** Seismic Forward Modeling of the Ore-related Magmatic Layering at the Kevitsa Ni-Cu-PGE Deposit, Northern Finland

*N. Hellqvist, E. Koivisto, A. Malehmir, T. Voipio, C. Wijns*

**P15.** Comparison of finite difference modelled and measured field data for P-wave and SH-wave reflection seismics – a case study

*T. Burschil, T. Beilecke, C.M. Krawczyk*

**P16.** Intraplate strike-slip tectonics accommodating late Cenozoic shortening in the southern Iberian Range (Loranca Basin, Spain)

*J. Alvarez-Marron, A. Perez-Estaun, R. Carbonell, I. Marzan, D. Martí, D. Brown, A. Pineda*

**P17.** A deep seismic investigation over the end-glacial Pärvie fault system, northern Sweden

*O. Ahmadi, C. Juhlin, M. Ask, B. Lund*

**P18.** Seismic site characterization in and around the COSC-1 drillhole

*H. Simon, S. Buske, R. Giese, C. Juhlin, C. Schmelzbach, H. Maurer, J. Robertsson*

**P19.** 2D seismic characterization of the Moroccan Atlas from wide-angle seismic reflection data

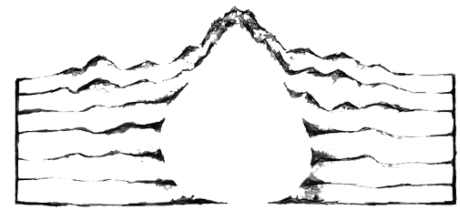
*F. Ouraini, D. Martí, P. Ayarza, R. Carbonell, K. Gueraoui*

**P20.** Mapping the crustal thickness beneath the Rif Cordillera from wide-angle seismic datasets

*A. Gil, J. Díaz, R. Carbonell, J. Gallart, M. Harnafi*

**P21.** Partitioning the uplifting mechanism of the Tibetan plateau from the east to the west

*X. Jiang*



**P22.** Gravity Data Analysis and Interdisciplinary 3D Modeling of the Caribe-South America Plate Boundary (76°– 64° W)

*J. Sanchez-Rojas, H-J. Götze, M. Schmitz, M. Palma*

**P23.** Revealing the sedimentary structure of the Baza Basin (Southern Spain) using seismic reflection profiling

*M. Stiller, M. Baumann-Wilke, C. Haberland, L. Gibert, M.J. Jurado, G. Scott, D. Mertz*

**P24.** The GEORIFT 2013 wide-angle seismic profile, preliminary results

*T. Janik, GEORIFT 2013 Working Group*

**P25.** Cross-border Geology: Understanding CO<sub>2</sub> storage in Palaeogene and Neogene systems of the North Seas

*J. Alcalde, M. Wilkinson, G. Johnson, M. Akhurst, H. Stewart, D. Evans, C. Gent*

**P26.** Tectonic and deep structure of the Southeast Iberian Margin

*M. Viñas, C.R. Ranero, I. Grevemeyer*

**P27.** Seismic structure along DOBRE-5 profile, from the North Dobrogea Orogen across the SW shelf of the Black Sea and Crimea Peninsula, Ukraine

*V. Starostenko, T. Janik, T. Yegorova, L. Farfuliak, W.Czuba, P. Środa, M. Sosson, Y. Volfman, K. Kolomiyets, D. Lysynchuk, V. Omelchenko, D.Gryn, A.Guterch, K. Komminaho, O. Legostaeva, H. Thybo, T. Tõira, A. Tolkunov*

**P28.** Geological Structure of the Cantabrian Platform around “Le Danois Bank”, Bay of Biscay

*P. Cadenas, G. Fernández-Viejo, J.A. Pulgar*

**P29.** 3D Seismic Tomographic Modelling of the Northern Spitsbergen Area

*W. Czuba*

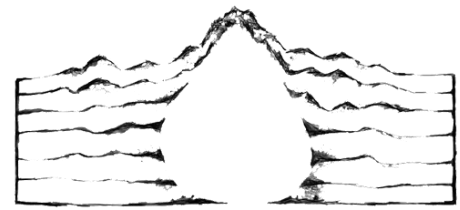
**P30.** Magma lens geometry beneath an erupting mid-ocean ridge: insight from three-dimensional seismic images on the East Pacific Rise 9°42' to 9°57'N

*H. Carton, S.M. Carbotte, J.C. Mutter, J.P. Canales, M.R. Nedimovic*

**P31.** Active tectonics in old oceanic lithosphere off SW Iberia based on Pre-stack depth migrated MCS profiles (SWIM-2006 survey)

*S. Martínez-Loriente, E. Gràcia, R. Bartolome, V. Sallarès, H. Perea*

**P32.** Wide-angle seismic and gravity constraints on the basement affinity of the Africa-Eurasia plate boundary: Implications for the geodynamic evolution of the SW Iberian margin



*S. Martínez-Loriente, V. Sallarès, E. Gràcia, R. Bartolome*

**P33.** New deep multichannel seismic reflection images from the Alboran Basin: The TOPOMED-GASSIS dataset

*L. Gómez de la Peña, C. R. Ranero, E. Gràcia, R. Bartolome and TopoMed cruise party*

**P34.** Reinterpretation of the lithospheric structure beneath the Hidaka collision zone, Hokkaido, Japan 1. Outline

*N. Tsumura, T. Ito, T. Iwasaki, K. Arita, E. Kurashimo, H. Sato, N. Hirata, K. Noda, A. Fujiwara*

**P35.** Seismic crustal structure beneath the southeastern part of northeast Japan by dense seismic array observation

*E. Kurashimo, H. Sato, T. Ishiyama, N. Kato, S. Koshiya, M. Higashinaka, S. Abe, T. Iwasaki*

**P36.** Seismic reflection profiling for the mapping of earthquake source faults in the back arc of central Japan

*N. Kato, H. Sato, T. Ishiyama, S. Abe, K. Shiraishi*

**P37.** Along-strike structural changes controlled by dehydration-related fluids within the Philippine Sea Plate beneath the southern part of Kii Peninsula, southwestern Japan

*E. Kurashimo, T. Iidaka, T. Iwasaki, A. Saiga, E. Umeyama, N. Tsumura, S. Sakai, N. Hirata*

**P38.** A Deep Seismic Reflection Profile Across the Tibetan Plateau: INDEPTH and SINOPROBE

*C. Chen, L. Brown, W. Zhao, J. Guo, Z. Lu, J. Wu, INDEPTH TEAM, SINOPROBE-2*

**P39.** Lithospheric structure of the central Sumatra subduction zone from wide-angle refraction

*M. S. Karplus, T. Henstock, L. C. McNeill, P. Vermeesch, P. J. Barton*

**P40.** First insights into the crustal structure of the Merida Andes, Venezuela, from deep seismic of GIAME project, Central Profile preliminary results

*L. Yegres, M. Schmitz, E. Gil, F. Mazuera, J. Avila, J. Alcalá*

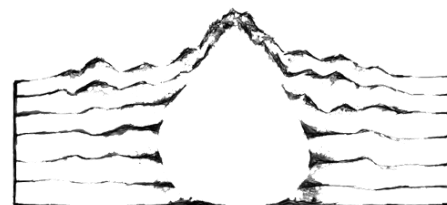
**P41.** Seismic reflection investigation of the crust and upper mantle in the Central Iberian Zone (Iberian Peninsula)

*S.A. Ehsan, R. Carbonell, P. Ayarza, D. Martí, D. Martínez-Poyatos, J.F. Simancas, A. Azor, I. Marzán*

# SCIENTIFIC PROGRAMME

## 16<sup>th</sup> SEISMIX International Symposium

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

**P42.** Crustal structure across the Southern Central Iberian Zone (Variscan Iberian Massif): The ALCUDIA Wide-angle Seismic Experiment

*S.A. Ehsan, R. Carbonell, P. Ayarza, D. Martí, A. Gil, I. Marzán, D. Martínez-Poyatos, J.F. Simancas, A. Azor*

**P43.** Field Report on the iMUSH Active Source Seismic Experiment

*E. Kiser, A. Levander, B. Schmandt, I. Palomeras, S. Harder, K. Creager, J. Vidale, S. Malone*

**P44.** 3D traveltimes tomography based on vibroseis sources data

*M. Trzeciak, M. Majdanski, S. Bialas, W. Czuba, E. Gaczynski, M. Malinowski, P. Środa, M. Mulinska*

**P45.** Geologically-driven interpretation of 3D seismic reflection data in a complex fractured carbonate reservoir (Hontomín, Spain)

*J. Alcalde, I. Marzán, E. Saura, D. Martí, P. Ayarza, C. Juhlin, A. Pérez-Estaún, R. Carbonell*

**P46.** Prestack imaging of iron mineralization: Kiruna, Sweden

*A. Kashubin, C. Juhlin*

**P47.** Multimethod Geotranssect 3-DV (“Mongolo-Okhotsk Fold Belt—Siberian Craton—Verkhoyano-Kolyma Fold Area”)

*R. Serjantov, A. Efimov, O. Petrov, Working Group*

**P48.** Shallow Reflection Surveys of the East Ongul Island, The Lützow-Holm Complex, East Antarctica

*M. Kanao, T. Takemoto, A. Fujiwara, K. Ito, T. Ikawa*

**P49.** Internal structure of the Rodderberg volcano southeast of Bonn, Germany – a high-resolution shear-wave reflection seismic survey

*S. Wadas, U. Polom, F. Binot, C.M. Krawczyk*

**P50.** High-resolution very shallow S- and P-wave seismic reflection imaging across active faults in urban areas: a case study in Tokyo metropolitan area

*N.Kato, T. Ishiyama, H. Sato*

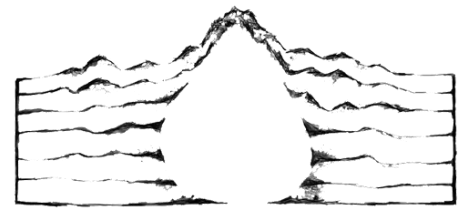
**P51.** Fault zone analysis using seismic P- and S-wave reflection data

*B. Wawerzinek, H. Bunn, P. Musmann, D.C. Tanner, U. Polom, C.M. Krawczyk, R. Thomas*

**P52.** Shallow high resolution tomography of the Hontomín structure in the Basque-

**SCIENTIFIC PROGRAMME**  
**16<sup>th</sup> SEISMIX International Symposium**

Gran Hotel Rey Don Jaime, Castelldefels  
October 12-17, 2014



1 6 t h S E I S M I X

Cantabrian Basin (Spain)

*D. Martí, J. Alcalde, I. Marzán, E. Saura, P. Ayarza, R. Carbonell, A. Pérez-Estaún*

**P53.** GIS analysis of knickzones properties of rivers in the south Zagros mountain watersheds (Kuzestan province)

*R. Khavari*

**P54.** DEM-based Structural Analysis Of Chame Shir Dam, South East Zagros

*R. Khavari*

**P55.** Constraints on a Shallow Offshore Gas Environment Determined by a Multidisciplinary Geophysical Approach: The Malin Sea, NW Ireland

*X. Garcia, X. Monteys, R. Evans*