



Homage to **Albert Tarantola** Workshop

June 21 & 22, 2010 - Auditorium Grande Galerie de l'Evolution, Paris

CHANGE IN LOCATION: the Workshop will be held in the National History Museum's

GRANDE GALERIE DE L'EVOLUTION, AUDITORIUM

36 RUE GEOFFROY SAINT-HILAIRE 75005 PARIS

June 21 – Day 1

08:30–09:00 Registration and coffee

Chairman: Jean-Paul Montagner

09:00–09:15 Vincent Courtillot/Satish Singh: Welcome and Introduction

09:15–09:30 Georges Jobert: Les chantiers d'Albert/Albert's workings

09:30–09:45 Patrick Lailly: Non-linear inversion: Who was first?

09:45–10:00 Yann Capdeville: Albert's information paradox, what elastic wave actually see?

10:00–10:15 Satish Singh: GTG^{-1} and PCP^{-1}

10:15–10:30 Coffee

Chairman : Satish Singh

10:30–10:50 Raul Madariaga: Problème inverse de la source sismique par une approche Bayesienne

10:50–11:10 Klaus Mosegaard: Computational problems in physics: quest for symmetry and simplicity

11:10–11:30 Zvi Koren: Full azimuth angle domain decomposing and imaging

11:30–11:50 Mark Noble: Seismic tomography following Albert's philosophy

11:50–12:10 Heiner Igel: Seismic inverse problems including rotations and strain

12:10–12:30 Michel Campillo: Temporal seismic velocity change and deformation

12:30–14:00 Lunch

Chairman: Jean-Pierre Vilotte

14:00–14:20 Kurt Lambeck: Sea level during the Roman Epoch: implications for more recent sea level change and for archaeology

14:20–14:40 Olivier Talagrand: Assimilation of observations in meteorology and oceanography

14:40–15:00 Argyris Nicolaidis: Living in extra-dimension

15:00–15:20 Bartolome Coll: Café Beaubourg: Albert and I

15:20–15:40 Jesus Martin: Modèles Newtoniens d'étoiles non sphériques et non tournantes

15:40–16:55 Tea

Chairman: Raul Madariaga

15:55–16:15 Stephan Nielsen: Creating earthquake avatars in the laboratory

16:15–16:35 Aldo Zollo: Scaling relations for earthquake source parameters down to decametric fracture lengths

16:35–16:55 André Journeil: Tarantola's stochastic inversion and the direct approach by sequential Gaussian simulation: proof of the equivalence



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June 22 – Day 2

Chairman: Jean-Pierre Vilotte

- 09:00–09:20 Jeroen Tromp: Adjoint Methods and the Continuing quest for knowledge
09:20–09:40 Guust Nolet: Tomography: waveform or travel time inversion?
09:40–10:00 Carl Tape: Seismic tomography of southern California
10:00–10:20 Andrea Morelli: Seismic tomography in the earth's mantle
10:20–10:40 Jean-Paul Montagner: A.T. (Anisotropy Tomography, Adjoint Tomography)
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- 10:40–10:55 Coffee
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Chairman: Satish Singh

- 10:55–11:15 Christophe Barnes: Seismic full waveform inversion
11:15–11:35 Marwan Charara: Full viscoelastic inversion
11:35–11:55 Hugues Djikpesse: Optimal survey design for oilfield exploration
11:55–12:15 Ons Zemni: Velocity analysis via demigration
12:15–12:35 Andreas Landa: Velocity analysis via demigration for anisotropic media
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- 12:35–14:00 Lunch
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Chairman: Yann Capdeville

- 14:00–14:20 Jean Virieux: Full waveform inversion in the frequency domain
14:20–14:40 Michel Dietrich: Full waveform inversion in porous media
14:40–15:00 Dan Kosloff: Velocity determination: Null space
15:00–15:20 Pierre Thore: Global optimisation and uncertainty estimation
15:20–15:40 Vladimir Cheverda: SVD analysis of full waveform inversion of VSP data
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- 15:40–15:55 Lunch
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Chairman: Jean-Pierre Vilotte

- 15:55–16:15 Bertrand Maillot: Inversion of fault kinematics in sand box experiment
16:15–16:35 Guillaume Caumon: Geological structures and inverse problems
16:35–16:55 Francois Cornet: The inverse problem of natural stress evaluation
16:55–17:05 Conclusion