The Abdus Salam International Centre for Theoretical Physics

7th Workshop on Three-Dimensional Modelling of Seismic Waves Generation, Propagation and their Inversion

Organizer(s): G. Panza, B. Bukchin
Trieste - Italy, 25 October 2004 - 5 November 2004

Venue: Adriatico Guest House Kastler Lecture Hall

Final programme

Monday 25 October (Room:Adriatico Guest House Kastler Lecture Hall)

25 October 2004

08:30 - 10:00	**Registration**
10:00 - 10:45	**Welcome**
10:45 - 12:15	**T. Yanovskaya** **Introduction to the theory of seismic wave propagation**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**T. Yanovskaya** **Introduction to the theory of seismic wave propagation**
15:30 - 15:45	--- Coffee Break ---
15:45 - 18:45	**Laboratory Exercises**
19:15 - 19:15	**GET TOGETHER**

Tuesday 26 October (Room:Adriatico Guest House Kastler Lecture Hall)

26 October 2004

09:00 - 10:30	**A. Levshin** **Surface waves in laterally inhomogeneous media**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**A. Levshin** **Surface wave tomography**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**B. Bukchin** **Surface wave inversion for earthquake source study**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**B. Bukchin** **Surface wave focusing study**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Wednesday 27 October (Room:Adriatico Guest House Kastler Lecture Hall)

27 October 2004

09:00 - 10:30	**M. Ritzwoller** **Surface wave continental and regional scale tomography**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**M. Ritzwoller** **Surface wave continental and regional scale tomography**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**J.P. Montagner** **From normal modes to surface and body waves**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**J.P. Montagner** **Application to anisotropic tomography**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Thursday 28 October (Room:Adriatico Guest House Kastler Lecture Hall)

28 October 2004

09:00 - 10:30	**T. Dahm** **Fundamentals of earth sources**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**T. Dahm** **Study of seismic swarms**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**F. Cornet** **Inversion of focal mechanisms for regional stress field determination**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**F. Cornet** **Inversion of focal mechanisms for regional stress field determination**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Friday 29 October (Room:Adriatico Guest House Kastler Lecture Hall)

29 October 2004

09:00 - 10:30	**M. Ghafory Ashtiany** **Towards a dialog between seismology and earthquake engineering**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**M. Ghafory Ashtiany** **Towards a dialog between seismology and earthquake engineering**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**Laboratory Exercises**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**Laboratory Exercises**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Saturday 30 October (Room:Adriatico Guest House Kastler Lecture Hall) (**Saturday**)

30 October 2004

09:00 - 10:00	**L. Vinnik** **GUTENBERG LECTURE 'Exploring the Earth by S receiver functions'**
10:00 - 10:30	--- Coffee Break ---
10:30 - 12:00	**Student Presentations**
12:00 - 14:00	**Lunch**
14:00 - 16:00	**Laboratory Exercises**

Monday 1 November (Room:Adriatico Guest House Kastler Lecture Hall) (**All Saints**)

1 November 2004

09:00 - 10:30	**R. Sabadini** **Physical modelling of deep and surface processes in the Mediterranean region**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**R. Sabadini** **Physical modelling of deep and surface processes in the Mediterranean region**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**A. Gusev** **Theoretical and observed envelopes of scattered high-frequency seismic waves at local to regional distances**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**A. Gusev** **Theoretical and observed envelopes of scattered high-frequency seismic waves at local to regional distances**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Tuesday 2 November (Room:Adriatico Guest House Kastler Lecture Hall)

2 November 2004

09:00 - 10:30	**B. Mitchell** **Regional studies of anelasticity based on body and surface waves and Lg coda**
10:30 - 10:45	--- Coffee Break ---

10:45 - 12:15	**B. Mitchell** **Regional studies of anelasticity based on body and surface waves and Lg coda**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**F. Romanelli** **Ground motion modelling for complex media**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**F. Romanelli** **Ground motion modelling for complex media**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Wednesday 3 November (Room:Adriatico Guest House Kastler Lecture Hall)

3 November 2004

09:00 - 10:30	**P. Suhadolc** **Local waveform inversion for source parameters**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**P. Suhadolc** **Local waveform inversion for source parameters**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**L. Vinnik** **Receiver function analysis and SV/SH splitting**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**L. Vinnik** **Receiver function analysis and SV/SH splitting**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Thursday 4 November (Room:Adriatico Guest House Kastler Lecture Hall)

4 November 2004

09:00 - 10:30	**G.F. Panza** **Modelling of seismic input**

10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**G.F. Panza** **Modelling of seismic input**
12:15 - 14:00	--- Lunch ---
14:00 - 15:00	**M. Guidarelli** **Moment Tensor Inversion for Local & Regional Scale Events**
15:30 - 15:45	--- Break ---
15:45 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**

Friday 5 November (Room:Adriatico Guest House Kastler Lecture Hall)

5 November 2004

09:00 - 10:30	**F. Wu** **Study of active tectonic regions**
10:30 - 10:45	--- Coffee Break ---
10:45 - 12:15	**F. Wu** **Study of active tectonic regions**
12:15 - 14:00	--- Lunch ---
14:00 - 15:30	**A. Aoudia** **Continental deformation and earthquakes**
15:30 - 15:45	--- Coffee Break ---
15:45 - 17:15	**A. Aoudia** **Continental deformation and earthquakes**
17:15 - 18:45	**Laboratory Exercises**
18:45 - 20:00	--- Dinner ---
20:00 - 22:00	**Laboratory Exercises**