

*5th workshop on Three-Dimensional Modelling of Seismic
Waves Generation, Propagation and their Inversion*

25 September - 6 October 2000

Supported by the European Commission, Research DG, Human Potential
Programme,
High Level Scientific Conferences

PRELIMINARY PROGRAMME

Lectures: Adriatico, Kastler Lecture Hall

Week 1 **25 September - 6 October 2000**

Monday, 25 September

08.30 - 09.30	REGISTRATION
09.30 - 10.00	Registration formalities
10.00 - 10.30	Welcome ICTP, Course Directors
10.30 - 12.00	R. SABADINI Time dependent gravity field
12.00 - 14.00	Lunch
14.00 - 15.30	R. SABADINI Physical Modelling of deep and surface processes in the Mediterranean region
15.30 - 15.45	Break
15.45 - 17.15	T. YANOVSKAYA Introduction to the theory of seismic wave propagation - I
17.15 - 17.30	Break
17.30 - 19.00	T. YANOVSKAYA Introduction to the theory of seismic wave propagation - II
19.00 - 20.00	Dinner
20.00 - 22.00	Computer Exercises: B. Bukchin, A. Levshin, A. Egorkin, A. Mostinski, T. Yanovskaya

Tuesday, 26 September

09.00 - 10.30	J. WOODHOUSE Ray methods
10.30 - 10.45	Coffee Break
10.45 - 12.15	J. WOODHOUSE Normal modes of the Earth: theory and applications
12.15 - 14.00	Lunch
14.00 - 15.30	A. LEVSHIN Surface waves in laterally inhomogeneous media
15.30 - 15.45	Break
15.45 - 17.15	A. LEVSHIN Surface wave tomography
17.15 - 17.30	Break
17.30 - 19.00	Computer Exercises
19.00 - 20.00	Dinner
20.00 - 21.30	Computer Exercises

(Exercises: B. Bukchin, A. Levshin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Wednesday, 26 September

09.00 - 10.30	M. RITZWOLLER Surface wave continental and regional scale tomography - I
10.30 - 10.45	Coffee Break
10.45 - 12.15	M. RITZWOLLER Surface wave continental and regional scale tomography - II
12.15 - 14.00	Lunch
14.00 - 15.30	A. UDIAS Introduction to the earthquake source mechanics: Kinematics - I
15.30 - 15.45	Break
15.45 - 17.15	A. UDIAS Introduction to the earthquake source mechanics: Kinematics - II
17.15 - 17.30	Break
17.30 - 19.00	Computer Exercises
19.00 - 20.00	Dinner
20.00 - 21.30	Computer Exercises

(Exercises: B. Bukchin, A. Levshin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Thursday 28 September

- 09.00 - 10.30 **J-P. MONTAGNER**
Upper mantle anisotropy from surface wave studies - I
- 10.30 - 10.45 Coffee Break
- 10.45 - 12.15 **J-P. MONTAGNER**
Upper mantle anisotropy from surface wave studies - II
- 12.15 - 14.00 Lunch
- 14.00 - 15.30 **S. DAS**
Earthquake source dynamics - I
- 15.30 - 15.45 Break
- 15.45 - 17.15 **S. DAS**
Earthquake source dynamics - II
- 17.15 - 17.30 Break
- 17.30 - 19.00 Computer Exercises
- 19.00 - 20.00 Dinner
- 20.00 - 21.30 Computer Exercises

(Exercises: B. Bukchin, A. Levshin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Friday 29 September

- 09.00 - 10.30 **R. MADARIAGA**
The origin of earthquake complexity: models and observations - I
- 10.30 - 10.45 Coffee Break
- 10.45 - 12.15 **R. MADARIAGA**
The origin of earthquake complexity: models and observations - II
- 12.15 - 14.00 Lunch
- 14.00 - 15.30 Students' presentations
- 15.30 - 15.45 Break
- 15.45 - 17.15 Students' presentations
- 17.15 - 17.30 Break
- 17.30 - 19.00 Computer Exercises
- 19.00 - 20.00 Dinner
- 20.00 - 21.30 Computer Exercises

(Exercises: B. Bukchin, A. Levshin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Week 2

2-6 October 2000

Monday 2 October

- 09.00 - 10.30 **B. BUKCHIN**
Seismic wave inversion for earthquake source and nuclear
explosions study - I
- 10.30 - 10.45 Coffee Break
- 10.45 - 12.15 **B. BUKCHIN**
Seismic wave inversion for earthquake source and nuclear
explosions study - II
- 12.15 - 14.00 Lunch
- 14.00 - 15.30 **B. MITCHELL**
Regional studies of anelasticity based on body and surface waves
and Lg coda - I
- 15.30 - 15.45
 Break
- 15.45 - 17.15 **B. MITCHELL**
Regional studies of anelasticity based on body and surface waves
and Lg coda - II
- 17.15 - 17.30 Break
- 17.30 - 19.00 Computer Exercises
- 19.00 - 20.00 Dinner
- 20.00 - 21.30 Computer Exercises

(Exercises: B. Bukchin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Tuesday, 3 October

- 09.00 - 10.30 **F. CORNET**
Inversion of focal mechanisms for regional stress field
determination - I
- 10.30 - 10.45 Coffee Break
- 10.45 - 12.15 **F. CORNET**
Inversion of focal mechanisms for regional stress field
determination - II
- 12.15 - 14.00 Lunch
- 14.00 - 15.30 **F. WU**
Study of active tectonic regions - I

15.30 - 15.45	Break
15.45 - 17.15	F. WU Study of active tectonic regions - II
17.15 - 17.30	Break
17.30 - 19.00	Computer Exercises
19.00 - 20.00	Dinner
20.00 - 21.30	Computer Exercises

(Exercises: B. Bukchin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Wednesday, 4 October

09.00 - 10.30	F. ROMANELLI Ground motion modelling for complex media - I
10.30 - 10.45	Coffee Break
10.45 - 12.15	F. ROMANELLI Ground motion modelling for complex media - II
12.15 - 14.00	Lunch
14.00 - 15.30	L. VINNIK Receiver function analysis and SV/SH splitting - I
15.30 - 15.45	Break
15.45 - 17.15	L. VINNIK Receiver function analysis and SV/SH splitting - II
17.15 - 17.30	Break
17.30 - 19.00	Computer Exercises
19.00 - 20.00	Dinner
20.00 - 21.30	Computer Exercises

(Exercises: B. Bukchin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Thursday, 5 October

09.00 - 10.15	A. SARAQ Local waveform inversion for source parameters - I
10.15 - 10.30	Coffee Break
10.30 - 11.15	A. SARAQ Local waveform inversion for source parameters - II
11.15 - 12.15	P. SUHADOLC Local waveform inversion for source parameters - III
12.15 - 14.00	Lunch
14.00 - 15.30	R. KIND Reflectivity method and applications - I
15.30 - 15.45	Break
15.45 - 17.15	R. KIND Reflectivity method and applications - II
17.15 - 17.30	Break
17.30 - 19.00	Computer Exercises
19.00 - 20.00	Dinner
20.00 - 21.30	Computer Exercises

(Exercises: B. Bukchin, A. Egorkin, A. Mostinski, T. Yanovskaya)

Friday, 6 October

09.00 - 10.30	G.F. PANZA Modelling of seismic input - I
10.30 - 10.45	Coffee Break
10.45 - 12.15	G.F. PANZA Modelling of seismic input - II
12.15 - 14.00	Lunch
14.00 - 15.30	Students' presentations
15.30 - 15.45	Break
15.45 - 17.15	Students' presentations
17.15 - 17.30	Break
17.30 - 19.00	Computer Exercises
19.00 - 20.00	Dinner
20.00 - 21.30	Computer Exercises

(Exercises: B. Bukchin, A. Egorkin, A. Mostinski, T. Yanovskaya)