

**International Meeting on
Seismicity, Active Faulting, and Seismic Hazard in
the Western Corinth Rift / Patras Region**

**Patras University
Monday 20 June 2011**

Conference Center, Patras University Campus

8:30 – 16:00 presentations and discussions

16:00 – 18:00 round tables and field visit

Objectives

- Present and discuss the recent results obtained by different groups on the seismicity, active tectonics and seismic hazard of the Patras/Aigion area
- Improve the communication and data exchange between the CRL groups and other teams involved in this research at the University of Patras, and at a more national level, as well as within the CRL group itself.
- Identify topics for future specific research project development, to be led by Departments of the University of Patras, in complement to the SISCOR (French) and REAKT (EC) projects within CRL.

Preliminary program

START 8:30

- introduction par V. Anastassopoulos and P. Bernard

- Pascal Bernard – *The context of the research on the Aigio-Patras seismic activity* **10'**
*the Corinth Rift Laboratory and its future developments (western extension near Patras):
scientific objectives; main scientific results; data; starting projects (REAKT, SISCOR);
cooperation agreements; future projects .*

on-land geology: 40'

- Paraskevas Xypolias (UPatras): *The structural evolution of Hellenides north and south from*

the Gulf of Corinth.

- Mary Ford (CRPG): *tectonics of the western rift of Corinth*
- Ioannis Koukouvelas (UPatras): *active tectonics and paleoseismicity of the Aigion-Patras region*
- Nikos Palyvos : *Results of 3HAZ on-land geological studies on the active deformation pattern and paleoseismicity at the western termination of the Corinth Gulf (Aigion to Rion area)*
- *discussion 10'*

offshore geology: 40'

- Vassilis Lykousis and Dimitri Sakellariou (HCMR): *Western Gulf of Corinth: marine geophysics*
- Efthimios Tripsanas (HCMR): *Turbidite studies in the Gulf of Corinth*
- George Ferentinos and George Papatheodorou (UPatras): *Patras and Corinth Gulfs: A Laboratory for the study of Seabed fluid flows along active faults and their implication in earthquake prediction"*
- Christian Beck and Aurelia Hubert-Ferrari (ISTERRE and Univ. Liege): *paleoearthquakes from Turbidites in the SISCOR project*
- *discussion 10'*

BREAK 10'

10:30

seismicity studies 80'

- Anna Serpetsidaki and Efthimios Sokos (UPatras) : *regional and local seismicity from PSL*
- ?Nikos Voulgaris and Panayotis Papadimitriou (NKUA): *regional seismicity studies*
- Hélène Lyon-Caen, Anne Deschamps, Pascal Bernard, and Sophie Lambotte (ENS, GEOAZUR, IPGP, GEOAZUR), *Relocated seismicity and fine active structures from CRL arrays*
- Efthimios Sokos and Anastasia Kiratzi (UPATRAS, AUTH): *the Trichonis 2007 and the Pyrgos 2010 seismic sequences.*
- ?Vassilis Kapetanidis (NKUA): *the 2010 Pyrgos seismic swarm*

- Pascal Bernard (IPGP): *the 2002 Psathopyrgos seismic swarm*
- Anne Deschamps (GEOAZUR): *results of tomography and antenna projects in the REAKT project*
- *discussion* 10'

BREAK 10'

12:10

geodesy: 50'

- Pierre Briole: *general context, rift, triple junction, and strain monitoring from GPS*
- Fanis Moschas and Stathis Stiros (UPatras) : *From historical geodetic data to 100 Hz GPS receivers and collocated GPS-accelerometers in the wider Patras area.*
- Isaak Parcharides and Michael Foumelis (HUA): *InSAR studies of surface deformation in the Patras area*
- Panayiotis Elias (NOA): *InSAR and GPS for shallow fault creep detection*
- Anne Deschamps, Thomas Lebourg and Swann Zerathe (GEOAZUR): *subsurface fault detection*
- *Discussion* 10'

13:10

LUNCH BREAK and informal discussions

14:30 h

Historical and future large earthquakes 30'

- Paola Albini (INGV) and Vicki Kouskouna (NKUA): *Historical earthquakes (1000-1889)*
- Dora Katsonopoulou (Helike Soc.): *Constraints on large earthquakes from local archeology*
- Oona Scotti (IRSN) : *Seismic hazard: probabilistic approach in the SISCOR project*
- *Discussion* 10'

Accelerometry/engineering strong motion: 30'

George Athanasopoulos : *Strong motion instrumentation and dynamic soil properties in Patras, Greece.*

strong motion instrumentation in the Patras region

– ? Nikos Voulgaris and George Kaviris : *RASMON and CORSSA contribution to the Aigion/Patras accelerometric studies*

- Christos Papaioannou and Basil Margaris : *an Aigion/Patras component for the future national accelerometer array*

- *discussion* 10'

Definition of the round tables 10'

BREAK 10'

16h-17h

Proposition of round tables:

16:00 - 16:30 – all participants

Large earthquakes from historical seismicity, archeology, and paleoseismicity - strategies and synergies for ongoing and future projects on large earthquakes

16:30 – 17:00 separate round tables

- instrumental plans for accelerometry (IPGP, UPatras, ITSAK, NKUA,..)
- offshore morpho-geological studies (HCMR, UPatras, Marine team of SISCOR/CRL)
- instrumental plans for seismology (onland and offshore) (CRL seismologists)
- ? large scale seismic experiments offshore/onland around Patras
- ? other

17h- 18h

? Focus on the Patras fault system on the University campus ?

- observations – questions
- **visit on the field?**
- Future projects on geophysical imaging, active monitoring (geodesy, seismology, hydrology, geochemistry), and student training projects

END 18:30