

CRL School 2024

Corinth Rift Observatory



Patras-Nafpaktos, Greece
6-10 September 2024

(Patras-Nafpaktos September 6-10, 2024)

Programme

Friday September 6, 2024

Department of Physics, University of Patras

- 13:00 – 13:30** **Welcome to the CRL School 2024**
- 13:30 – 14:00** **Why CRL?**
Pierre Briole, École normale supérieure / CNRS, Paris, France
- 14:00 – 14:30** **Understanding the physics of earthquakes from the smallest to the largest and the growth of faults in the western gulf of Corinth**
Athanasios Ganas, National Observatory of Athens, Greece
- 14:30 – 15:00** **The geodetic monitoring of the Corinth Rift Observatory with GPS and SAR interferometry**
Pierre Briole, École normale supérieure / CNRS, Paris, France
- 15:00 – 15:30 Break**
- 15:30 – 16:00** **Seismic Parameters and Microseismicity in the Gulf of Corinth**
Thimio Sokos, University of Patras, Greece
- 16:00 – 16:30** **Large Earthquakes and Focal Mechanisms in the Gulf of Corinth**
George Kaviris, National and Kapodistrian University of Athens, Greece
- 16:30 – 17:00** **Opposing development practices within the Delphic landscape**
Christos Merantzas, University of Patras, Greece
- 17:00 – 17:30** **Off-shore faults imaging and monitoring in the Corinth Rift**
Maria Geraga, University of Patras, Greece
- 17:30 Departure to Nafpaktos (Akti Hotel)**

Saturday September 7, 2024

08:30 Departure from Akti Hotel

- 08:45 – 09:00** **Welcome messages**
- 09:00 – 09:30** **Tectonics, structural setting and tectono-sedimentary processes in the Corinth Rift**
Haralambos Kranis, National and Kapodistrian University of Athens, Greece
- 09:30- 10:00** **Use of CRL Data for Detailed Seismological Studies**
Anna Serpetsidaki, University of Patras, Greece
- 10:00 – 10:30** **Historical elements for sciences and observatories**
Fiori-Anastasia Metallinou, National Observatory of Athens, Greece
- 10:30 – 10:40** **Introduction to geological (outcrop) field trip of Sunday**
Athanasios Ganas, National Observatory of Athens, Greece
- 10:40 – 11:10 Break**
- 11:10 – 13:00** **Hands on GNSS measuring**
Panagiotis Elias, National Observatory of Athens, Greece
George Polykretis, TREE Company, Athens, Greece
Pierre Briole, École normale supérieure / CNRS, Paris, France
- 13:00 – 15:00 Lunch Break**
- 15:10 – 15:30 Transport to hands-on lab**
- 15:30 – 16:30** **Hands on simple seismic software package provided in the CRL portal**
George Kaviris, National and Kapodistrian University of Athens, Greece
Ioannis Spingos, National and Kapodistrian University of Athens, Greece
- 16:30 – 17:30** **Presentations by the students**
3mn per student + questions
- 17:30 – 21:30 Free time**
- 21:30 – 23:00** **Sky gazing (in an area close the hotel Akti that will be announced shortly before)**
Fiori-Anastasia Metallinou, National Observatory of Athens, Greece
Drivas argyris, 3rd Junior High School of Nafpaktos, Astronomy Group of Nafpaktos, Greece

Sunday September 8, 2024

08:30 Departure from Akti Hotel

08:30 – 13:30 **Field trip at Psaromita (GNSS and seismic station), geologic stops along the journey**
Athanasios Ganas, National Observatory of Athens, Greece

Arrival at Akti hotel

13:30 – 15:00 Lunch Break

TBD

16:10 – 16:40 Break

TBD

Monday September 9, 2024

School Teachers

10:00 Departure from Akti Hotel to 3rd Junior High School in Nafpaktos

- 10:30 – 11:30 Teaching Earthquakes in classroom using stem tools**
Fotis Danaskos, 8th Junior High School in Chalandri, Greece
- 11:30 – 12:10 Teaching Earthquakes in classroom using open data, case study: active fault bases**
Kiki Makri, 2nd Modern Junior High Schools of Athens/National Observatory of Athens
- 12:10 – 12:40 CRL School's educational team**
Experimental activities, Pedagogical activities, Online activities

University Students

- 09:00 – 09:30 Introduction to GNSS**
Anonio Avallone, Istituto Nazionale di Geofisica e Vulcanologia, Italy
- 09:30 – 10:00 Quantification of N. Peloponnese shoreline displacement using very high spatial resolution remote sensing data**
Emmanouel Vassilakis, National and Kapodistrian University of Athens, Greece
- 10:00 – 10:30 Introduction to satellite SAR interferometry**
Panagiotis Elias, National Observatory of Athens, Greece
- 10:30 – 11:00 Ground Deformation Studies in Seismic Active Areas combining Local GPS/GNSS and permanent GNSS networks. The Case of Central Ionian Islands and Patras Gulf**
Vasilios Sakkas, National and Kapodistrian University of Athens, Greece
- 11:00 – 11:30 Break**
- 11:30 – 12:00 Static and dynamic gravity investigations within Corinth Rift Laboratory project**
Jan Mrlina, Institute of Geophysics, Czech Academy of Science, (IGCAS) Prague
- 12:00 – 12:30 Open Seismic Data Retrieval through EIDA Nodes and Automated Moment Tensor Analysis**
Christos Evangelidis, National Observatory of Athens, Greece
- 12:30 – 13:00 Seismic hazard in Greece with a focus in the Western Gulf of Corinth**
Angelos Zymvragakis, National and Kapodistrian University of Athens, Greece
- 13:00 – 13:30 Physical mechanisms behind seismic site response - Some examples from Aegion**
Olga Ktenidou, National Observatory of Athens, Greece

13:30 – 14:30 Lunch Break

14:30 – 16:00 ESA TBD

16:00 – 16:20 Transport to hands-on lab

- 16:20 – 18:00 Follow-up Hands on GNSS measuring**
Pierre Briole, École normale supérieure / CNRS, Paris, France
Panagiotis Elias, National Observatory of Athens, Greece

Tuesday September 10, 2024

08:30 Departure from Akti Hotel

Laboratory of Seismology, University of Patras

09:30 – 10:00 **Climate and Earthquakes: Recent Research and Potential Contribution of Near Fault Observatories**
Zafireia Roumelioti, University of Patras, Greece

10:00 – 10:30 **Relative Sea level changes in the Corinth Gulf during the late Holocene**
Niki Evelpidou, National and Kapodistrian University of Athens, Greece
Anna Karkani, National and Kapodistrian University of Athens, Greece

10:30 – 11:00 **Structural morphology and geometric control of the Rio-Antirrio bridge**
Akis Panagis, GEFYRA S.A., Greece

11:00 – 11:30 *Move from Seismology Laboratory to Department of Geology*

11:30 – 12:00 **Recent sedimentary processes in the Gulf of Corinth. Seismic and aseismic turbidites**
Spyros Sergiou, University of Patras, Greece

12:00 – 12:50 **(parallel groups of ~10) Laboratory class for coring study**

Spyros Sergiou, University of Patras, Greece

(parallel groups of ~10) Laboratory class: Study of archaeomaterials in "[KERAMos Lab](#)"

Ioannis Iliopoulos, University of Patras, Greece

Vaia Xantopoulou, University of Patras, Greece

12:50 – 14:00 Lunch at the cafeteria near the department of Physics

14:00 – 15:00 *Drive to the Helike Fault*

15:00 – 16:30 **Educational field activities for Helike fault**

CRL School's educational team: Kiki Makri, Fotis Danaskos & Olympia Tripolitsiotiou

16:30 – 17:30 **Field trip to the Helike fault**

Emmanouel Vassilakis, National and Kapodistrian University of Athens, Greece

End of the CRL School 2024 - School Bus to the city of Aigion and to Nafpaktos

[See the timetable for buses from Aigio to Athens](#)

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