Corinth Rift Laboratory School – 2022

(Patras-Nafpaktos September 23-27, 2022)

Programme

Friday September 23, 2022

Department of Physics, University of Patras

13:00 – 13:30	Welcome to the CRL School 2022
13:30 – 14:00	Why CRL? Pierre Briole, CNRS, Paris, France
14:00 – 14:30	Geodynamic setting, large earthquakes and the growth of faults in the western rift of Corinth Athanassios 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, CNRS, Paris, France
15:00 – 15:30	Break
15:30 – 16:00	Seismic Parameters and Microseismicity in the Gulf of Corinth
	Eleftheria Papadimitriou, Aristotle University of Thessaloniki, Greece Vasileios Karakostas, Aristotle University of Thessaloniki, Greece
16:00 – 16:30	· · · · · · · · · · · · · · · · · · ·
16:00 – 16:30 16:30 – 17:00	Vasileios Karakostas, Aristotle University of Thessaloniki, Greece Large Earthquakes and Focal Mechanisms in the Gulf of Corinth

17:30 Departure to Nafpaktos (Akti Hotel)

Saturday September 24, 2022

08:30 Departure from Akti Hotel

08:45 - 09:15	Welcome messages
09:15 - 09:45	Tectonics, structural setting and tectono-sedimentary processes in the Corinth Rift Haralambos Kranis, National and Kapodistrian University of Athens, Greece
09:45 – 10:15	Use of CRL Data for Detailed Seismological Studies Anna Serpetsidaki, University of Patras, Greece
10:15 – 10:45	Historical elements for sciences and observatories Fiori-Anastasia Metallinou, National Observatory of Athens, Greece
10:45 – 11:15	Break
11:15 – 13:15	Hand-on GNSS instruments – learn how to manipulate a GNSS instrument Panagiotis Elias, National Observatory of Athens, Greece Pierre Briole, CNRS, Paris, France
13:15 – 14:45	Lunch Break
14:45 – 15:45	Hand 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
15:45 – 17:15	Presentations by the students 3mn per student + questions
17:15 – 21:30	Free time
21:30 - 23:00	Sky gazing (in an area close the hotel Akti that will be will be announced shortly before) Fiori-Anastasia Metallinou, National Observatory of Athens, Greece With the participation of the Association of amateur astronomers 'Orion', Patra, Greece

Sunday September 25, 2022

08:30 Departure from Akti Hotel

08:30 – 13:30 Field trip at Psaromita (GNSS and seismic station), geologic stops along the journey

Athanassios Ganas, National Observatory of Athens, Greece Christian Beck, Université de Savoie, France

Arrival at Akti hotel

13:30 – 15:00 **Lunch Break**

Afternoon: Nafpaktos

15:00 – 15:40 Earthquakes in the classroom – Part 1

Francesca Cifelli, Roma TRE University, Rome, Italy

Fotis Danaskos, 8th Junior - Senior High School in Chalandri, Greece

15:40 – 16:10 Tuned in to the Earth: Using data online at school

Jean-Luc Berenguer, University Côte d'Azur / EGU, France

16:10 – 16:40 Break

16:40-17:10 The earthquake suitcase

Vasiliki Kouskouna, National and Kapodistrian Unversity of Athens, Greece

17:10 – 17:40 Diffusion of Models and Teaching Tools (SEISMOBOX etc.) in Hellenic

schools

Fotis Danaskos, 8th Junior - Senior High School in Chalandri, Greece

17:40 – 18:10 Incorporating the seismobox into school teaching

Kiki Makri, National Observatory of Athens, Greece

Monday September 26, 2022

08:30 Departure from Akti Hotel

School Teachers 08:30 – 12:30	The School teachers will have a class in the 1st High School of Nafpaktos
University Students 09:00 – 09:30	Physical mechanisms behind seismic site response - Some examples from Aegion Olga Ktenidou, National Observatory of Athens, Greece
09:30 - 10:00	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
10:00 – 10:30	Introduction to satellite SAR interferometry Panagiotis Elias, National Observatory of Athens, Greece
10:30 - 11:00	Break
11:00 – 11:30	Static and dynamic gravity investigations within Corinth Rift Laboratory project Jan Mrlina, Institute of Geophysics, Czech Academy of Science, (IGCAS) Prague
11:30 – 12:00	Induced seismicity: Earthquakes caused by human activity George Tsoflias, The University of Kansas, USA
12:00 – 12:30	Quantification of N. Peloponnese shoreline displacement using very high spatial resolution remote sensing data Emmanouel Vasilakis, National and Kapodistrian University of Athens, Greece
12:30 – 14:30	Break
14:30 – 15:00	Platform-based Technology and Earth Observation Services in Response to Geohazards Michael Foumelis, Aristotle University of Thessaloniki, Greece
15:00 – 15:30	The QGIS software a free and powerful geographical information software – Plotting the routes of the morning GNSS survey with that software Antonios Mouratidis, Aristotle University of Thessaloniki, Greece
15:30 – 16:00	The European Space Education Resource Office (ESERO) Antonios Mouratidis, Aristotle University of Thessaloniki, Greece

16:00 – 17:30 Hands-on Geohazard Exploitation Platform Michael Foumelis, Aristotle University of Thessaloniki, Greece

Tuesday September 27, 2022

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-Antorio bridge Akis Panagis, GEFYRA S.A., Greece
11:00 - 11:30	Move from Seismology Laboratory to Department of Geology
11:30 – 12:30	Recent sedimentary processes in the Gulf of Corinth. Seismic and aseismic turbidites Spyros Sergiou, University of Patras, Greece
12:30 – 13:30	Lunch at the cafeteria near the department of Physics
13:30 – 14:30	Drive to the Helike Fault
14:30 – 16:00	Visit of the Helike fault near Aigion Athanassios Ganas, National Observatory of Athens, Greece
16:00 – 16:30	Drive to the ancient city of Helike
16:30 – 18:00	Visit of the ancient city of Helike Dora Katsonopoulou, The Helike Society, Greece

Departures from Aigion to Athens or back to Nafpaktos

End of the CRL School 2022

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