



## GIFT 2022, April 4-8 programme

(All times in CEST)

The talk time slots below consist of 35-40 minutes long lectures followed by 10-15 minutes Q & A.

### Session 1: The influence of Earth processes on civilization: a very diverse theme

Monday, April 4<sup>th</sup> (14:00 - 17:10 CEST)

- 14:00-14:10** Helen Glaves (EGU President): Welcome
- 14:10-14:20** EGU Committee on Education: Introduction to GIFT 2022
- 14:20-15:10** Ray Dueser (University of Virginia): The Ecology of Pleistocene Europe as represented in Paleolithic Cave Paintings
- 15:10-15:30** *Break*
- 15:30-16:20** Grant Heiken (IUGG Fellow, book author): The influence of geology on the Roman civilization
- 16:20-17:10** Matthew Toohey (University of Saskatchewan): Climatic and societal impacts of the volcanic double event at the dawn of the Dark Ages

### Session 2: Climate

Tuesday, April 5<sup>th</sup> (09:00 - 12:00 CEST)

- 9:00-9:10** EGU Committee on Education: Introduction to the morning
- 9:10-10:00** Hishashi Hayakawa (Institute for Space-Earth Environmental Research, Nagoya University): An overview of the historical space climate, as seen from the historical archives and classics. Records of aurorae from ancient Mesopotamia and Greece to Austrian monasteries sunspot records during the Dalton Minimum
- 10:00-10:50** Laura Epp (University of Konstanz): Molecular paleoecology to track the history of species and ecosystems
- 10:50-11:10** *Break*
- 11:10-12:00** Elena Xoplaki (Justus-Liebig-University Giessen): The Medieval Climate Anomaly and Byzantium: A review of the evidence on climatic fluctuations, economic performance and societal change



### Session 3: Cities

Wednesday, April 6th (14:00 - 17:25 CEST)

**14:00-14:10** EGU Committee on Education: Introduction to the afternoon

**14:10-15:25** Hands-on activity by Jean-Luc Berenguer (Université Côte d'Azur): Seismic site effect in the city of Rome and observation of ancient seismic events on Roman archaeological sites

**15:25-15:45** *Break*

**15:45-16:35** Carlo Laj (École Normale Supérieure): Machu Picchu, the lost city of the Incas

**16:35-17:25** Yannick Devos (Vrije Universiteit Brussel): Urban geoarchaeology in Belgium

### Session 4: Environmental history

Thursday, April 7th (09:00 - 12:00 CEST)

**9:00-9:10** EGU Committee on Education: Introduction to the morning

**9:10-10:00** Katrin Kleemann (German Maritime Museum – Leibniz Institute for Maritime History): The physical and societal impacts of volcanic eruptions: the case of the 1783 AD Laki eruption

**10:00-10:50** Francis Ludlow (Trinity College Dublin): Finding Earth System Processes in Ancient Papyri and Medieval Chronicles, and Human History in Tree-Rings and Ice-Cores

**10:50-11:10** *Break*

**11:10-12:30** Hands-on activity by The EGU Field Officers team: Climate, Volcanoes and Humans: hands-on for the classroom

### Session 5: Ice and ash

Friday, April 8th (14:00 - 17:30 CEST)

**14:00-14:10** EGU Committee on Education: Introduction to the afternoon

**14:10-15:00** Christos Zerefos (Research Center for Atmospheric Physics and Climatology, Academy of Athens): Volcanoes, geophysics, climate and art

**15:25-15:45** *Break*

**15:45-16:45** Richard Williams (Steffanson Arctic Institute): Influence of volcanoes and glaciation on human history

**16:45-17:30** EGU Committee on Education: Finale and networking event