

14 to 16 December - Online

# Labex UnivEarths Thematic School

## Opening Science

A challenge  
for geosciences  
and astrophysics

Session 1

**OPENING SCIENCE: HOW AND WHY**

Session 2

**SHARING DATA AND TOOLS**

Session 3

**PARTICIPATORY SCIENCE: CITIZENS AT THE HEART OF SCIENCE**

INFORMATION & REGISTRATION

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# AGENDA

Monday, 14 December

## Session 1

### Ouvrir la Science : comment et pourquoi ? *(in French)*

**14:50** Beginning of the Session

**15:00** *Introduction (15 min)*

**Marc Chaussidon**, director of the IPGP & director of the LabEx UnivEarthS

**Anne Lemière**, researcher at the APC laboratory

**15:15** *La nécessité d'une Science ouverte: un aperçu historique (45 min)*

**Elise Lehoux**, Bibliothèque d'Université de Paris

**16:00** *Open Data in Earth, Planets and Universe Sciences:  
State of Art and Challenges (45 min)*

**Aude Chambodut**, EOST (Université de Strasbourg / CNRS)

**16:45** *Se lancer dans la Science Ouverte (45 min)*

**Joanna Janik**, DDOR-CNRS

Tuesday, 15 December

## Session 2

### Sharing data and tools *(in English)*

- 14:50** Beginning of the Session
- 15:00** ***Gravitational Wave: Open Data from Virgo and LIGO Collaborations*** (30 min)  
**Agata Trovato**, APC (Université de Paris / CNRS / CEA)
- 15:30** ***Gammapy: An open tool for gamma-ray and multi-messenger astronomy***  
(30 min)  
**Régis Terrier**, APC (Université de Paris / CNRS / CEA)
- 16:00** ***DATA TERRA: An infrastructure for Earth-system data and services*** (30 min)  
**Frédéric Huynh**, DATA TERRA
- 16:30** Break
- 16:45** ***ESCAPE: An European Science Cluster of Astronomy  
& Particle physics ESFRI research infrastructures*** (30 min)  
**Catherine Boisson**, LUTH (Observatoire de Paris / Université de Paris / CNRS)
- 17:15** ***Fink: the transient sky from the Rubin/LSST alert stream*** (30 min)  
**Julien Peloton**, IJCLab (Université Paris-Saclay / CNRS)
- 17:45** ***Round table: Open-data and unpredictable events*** (45 min)  
**Matteo Barsuglia**, APC (Université de Paris / CNRS / CEA)  
**Eric Chassande-Mottin**, APC (Université de Paris / CNRS / CEA)  
**Jérôme Gaillardet**, IPGP (Université de Paris / CNRS)

Wednesday, 16 December

## Session 3

# Participatory science: citizens at the heart of Science

(in English)

- 14:50** Beginning of the Session
- 15:00** *Belisama: taking part of the TARANIS mission (30 min)*  
**Philippe Laurent**, APC (Université de Paris / CNRS / CEA)
- 15:30** *LastQuake: An app for citizen sismology (30 min)*  
**Rémy Bossu**, CSEM / EMSC
- 16:00** *InSight @ school: The Mars sismometer in the classroom (30 min)*  
**Jean-Luc Berenguer**, Géoazur (CNRS / Université Côte d'Azur / IRD) & Secondary school Teacher
- 16:30** Break
- 16:45** *GRANDMA: amateur and professional astronomers hunting for Kilonovae (30 min)*  
**Sarah Antier**, APC (Université de Paris / CNRS / CEA)
- 17:15** *REINFORCE: Bridging scientist and citizens (30 min)*  
**Rémy Le Breton**, APC (Université de Paris / CNRS / CEA)
- 17:45** *Round table: Open-data and unpredictable events (45 min)*  
**Sarah Antier**, APC (Université de Paris / CNRS / CEA)  
**Laure Fallou**, CSEM / EMSC  
**Asma Steinhauer**, CR2P (Muséum National d'Histoire Naturelle)

# SPEAKERS



**Sarah Antier** is a CNES postdoctoral prize fellow at the APC laboratory, working on multi-messenger astronomy. Studying gravitational wave and electromagnetic emission, she is also at the origin of the GRANDMA project, a network of professional and amateur telescopes looking for kilonovae.



**Matteo Barsuglia** is a CNRS senior scientist and head of the Virgo group at the Astroparticles and Cosmology in Paris. His research focuses on the detection of gravitational waves, in particular on the development of interferometric detectors. He is also the director of Paris Centre for Cosmological Physics.



**Jean-Luc Berenguer** is an Education and Outreach project manager at the Geoazur, as well as a science teacher in secondary school. He has been working for years on educational projects on seismology at school.



**Catherine Boisson** is a Senior Scientist at the LUTH laboratory, in the Paris Observatory. She is involved in ESCAPE, a project of virtual observatory developed by The European Open Science Cloud.



**Rémy Bossu** is a seismologist and at the head of the Euro-Mediterranean Seismological Centre (EMSC). Having an interest in social issues, he works on several projects of citizen seismology, including the LastQuake application.



**Aude Chambodut** is a Physicist at the School and Observatory of Earth Sciences (EOST) in Strasbourg. She is specialized in geomagnetism measurement and processes. She is one of the Scientific project managers of the data service pole ForM@Ter, in particular towards OpenScience. She is a nominated member of the World Data System Scientific Council.



**Eric Chassande-Mottin** is a CNRS researcher with the Gravitation team at the APC laboratory. He is interested in the detection of gravitational waves with Virgo and LIGO, particularly data analysis aspects.



**Laure Fallou** is a sociologist and research officer 'Risks, Society and Social Media' at the Euro-Med Seismological Centre (EMSC). She studies the relation between citizen and seismic risk, in particular within citizen seismology projects.



**Jérôme Gaillardet** is a geochemist and an IGP professor. He conducts research to explore the biogeochemical cycle of chemical elements on the Earth's surface. He is co-responsible for the national research infrastructure OZCAR federating perennial observatories of the Critical Zone of the Earth.



**Frédéric Huynh** is an IRD research engineer and the director of the DATA TERRA, a research infrastructure dedicated to Earth System observation data and services.



**Joanna Janik** is a senior research engineer in charge of STI training projects at the *Direction des Données Ouvertes de la Recherche* of the CNRS. She is also the co-pilot of the skills and training college of the Committee for Open Science, initiated by the French Ministry of Higher Education and Research.



**Philippe Laurent** is a CEA researcher at the APC laboratory. He worked on the XGRE instrument on the Taranis satellite and is at the head of the educational and participatory science project Belisama.



**Rémy Le Breton** is a CNRS post-doc researcher at the APC laboratory, working on KM3NeT, a neutrino telescope located at the bottom of the Mediterranean Sea. He is also involved in The REINFORCE project, whose aim is to engage citizens with researchers.



**Elise Lehoux** is a library curator and a Doctor of History. She is currently an STI project manager in the library service of the University of Paris and a research data referent for the University of Paris.



**Julien Peloton** is a CNRS research engineer at the IJCLab laboratory in Université-Paris Saclay. He develops cutting-edge software tools to help solve big data issues in research, and notably for the LSST telescope data.



**Asma Steinhauser** is a researcher at the CR2P laboratory in the National Museum of Natural History. She is the coordinator of both Vigie-Ciel and Vigie-Terre participatory science programs.



**Régis Terrier** is a senior researcher with the High-Energy Astronomy group at the APC laboratory. Interested in gamma-ray and multi-messenger astronomy, particularly with the HESS and CTA data, he is involved in the development of the open tool Gammapy.



**Agata Trovato** is a post-doc researcher in the field of Gravitational Waves. She works in the Virgo group at the APC laboratory. Her main responsibility lies with the Gravitational Wave Open Science Centre.

# ADVICES FOR THE PUBLIC

**Here are some brief advices to help us ensure that the Thematic School you are about to attend online takes place in optimal conditions.**

## ***Before it begins***

- As much as possible, choose a calm, comfortable environment, and of course with a good internet connection;
- Plan to have everything you think you need to follow the School on the best conditions (note-taking, drinks, etc.) at hand;
- The Thematic School will take place on *Zoom* :  
Check if your computer has the required configuration to use the *Zoom* desktop client, or if your internet browser supports the *Zoom* web client.  
More information on: <https://support.zoom.us/hc/fr/articles/201362023-Configuration-requise-pour-Windows-macOS-et-Linux>

## ***During the School***

- When you log in, clearly indicate your first names, last names and affiliations;
- If you have not already done so when you join the visio, switch off your microphone and camera.

## ***You wish to ask a question***

- When the presenter invites the audience to ask questions, press the «Raise your hand» icon proposed by *Zoom*;
- When the presenter gives you the floor, open your microphone to ask your question. Don't forget to turn it off at the end of your presentation.

## ***You have a problem***

Contact us at [com@univearths.fr](mailto:com@univearths.fr)