



SaltGiant Short Course 1

Modern and ancient oceans

Salamanca November 25th – 29th 2019

Scope: The school is intended to train SALTGIANT ESRs in the concepts and techniques used by geoscientists to reconstruct palaeoenvironments and palaeoceanographic processes by studying sediments and sedimentary rocks.

Local host: Francisco Sierro, Universidad de Salamanca.

Organizing Committee: Francisco Sierro (USAL), Giovanni Aloisi (IPGP) & Julia Champagnac (IPGP).

Trainers: Francisco Sierro (USAL), Andres S. Rigual Hernández (USAL), Alba Gonzalez Lanchas (USAL), Maria Ángeles Bárcena Pernía (USAL), José Abel Flores Villarejo (USAL), Giovanni Aloisi (IPGP), Francesco Dela Pierre (UTOR), Jorn Peckmann (Uham), Terrence McGenity (UEssex), Antonio Caruso (UNIPA), Maria Magliulo (UEssex), Francesca Bulian (USAL), Lucia Alonso Azibeiro (USAL) and Federico Andretto (UU).

Monday, November 25 th (Room E32003)	
9:00 – 10:30	Introduction to climate system, Francisco Sierro
10:30	Coffee break
11:00 – 12:30	Role of the Ocean on Earth's Climate System, Francisco Sierro
12:30	Lunch break
14 :00 – 15 :00	Life on evaporite minerals, Terry Mcgenity or Maria Magliulo
15 :00	Coffee break
15:30 – 17 :00	Use of Ocean Data view to explore the modern Ocean, Rigual and Francisco Sierro

Tuesday, November 26 th (Room E32003)	
9:00 – 10:30	Paleoenvironmental interpretation of evaporitic facies, Francesco Dela Pierre
10:30	Coffee break
11:00 – 12:30	Organic geochemistry and paleoenvironmental reconstruction, Jörn Peckmann and Francesco Dela Pierre
12:30	Lunch break
14 :00 – 15 :00	Microbially mediated processes in early diagenesis of marine sediments, Jörn Peckmann and Francesco Dela Pierre
15 :00	Coffee break
15:30 – 17 :00	Global metabolic processes that lead to mineral transformation from the isotopes of C and S, Giovanni Aloisi



Wednesday, November 27th (Room E32003)

9:00 – 11:00	Use of oxygen and carbon isotopes in Foraminifers, Francisco Sierro
11:00	Coffee break
11:30 – 12:30	Sr and Nd isotopes to investigate past changes in circulation, Federico Andreetto
12:30	Lunch break
14 :00 – 15 :00	O, H and Sr in gypsum: hydrological balance of marginal basins, Giovanni Aloisi
15 :00	Coffee break
15:30 – 17 :00	The role of the global carbon cycle in regulating Earth's climate in the geological past, Giovanni Aloisi
21 :00	Joint Dinner at Bambu restaurant http://www.restaurantebambu.es/carta/

Thursday, November 28th (Room E32003)

9:00 – 10:30	Coccolithophores, Alba Gonzalez Lanchas and Jose Abel Flores
10:30	Coffee break
11:00 – 12:30	Diatoms, Andres S. Rigual Hernández and María Ángeles Bárcena Pernía
12:30	Lunch break
14 :00 – 15 :00	Planktonic Foraminifers, Francesca Bulian and Lucia Alonso Azibeiro
15 :00	Coffee break
15:30 – 17 :00	Practice Messinian Biostratigraphy, Francesca Bulian
17 :30	Visit of the Laboratory of Stable Isotopes and Noble gases

Friday, November 29th (Room E32003)

9:00 – 10:30	Benthonic foraminifers, Antonio Caruso
10:30	Coffee break
11:00 – 12:30	Benthonic foraminifers paleoenvironmental reconstruction, Antonio Caruso
12:30	Lunch break
14 :00 – 15 :00	Ostracods, Federico Andreetto
15 :00	Coffee break
15:30 – 17 :00	ESRs closed session, PhD progress discussion



List of participants

	Last name	First Name	Participant category	Hotel room assignment	Payment/Refund category
1	Heida	Hanneke	Trainee / SaltGiant ESR 2	Room 1	A
2	Tzevahirtzian	Athina	Trainee / SaltGiant ESR 4	Room 1	A
3	Guibourdenche	Laetitia	Trainee / SaltGiant ESR 6	Room 2	A
4	Ebner	Ronja	Trainee / SaltGiant ESR 7	Room 2	A
5	Magliulo	Maria	Trainee / SaltGiant ESR 9	Room 3	A
6	Raad	Fadl	Trainee / SaltGiant ESR 3	Room 4	A
7	Andretto	Federico	Trainee / SaltGiant ESR 5	Room 4	A
8	Blondel	Simon	Trainee / SaltGiant ESR 10	Room 5	A
9	Rouwendaal	Simon	Trainee / SaltGiant ESR 8	Room 5	A
10	Moneron	Jimmy	Trainee / SaltGiant ESR 11	Room 6	A
11	Dale	Michael	Trainee / SaltGiant ESR 12	Room 6	A
12	Alonso Azibeiro	Lucia	Local trainee	Not needed	NA
13	Bulian	Francesca	Trainee / SaltGiant ESR 1	Not needed	NA
14	Gonzalez Lanchas	Alba	Local trainee	Not needed	NA
15	Perez Tarruella	Javier	Local trainee	Not needed	NA
16	Aloisi	Giovanni	Lecturer	Single Room	A
17	Caruso	Antonio	Lecturer	Single Room	A
18	Dela Pierre	Francesco	Lecturer	Single Room	B
19	Peckmann	Jorn	Lecturer	Single Room	A
20	McGenity	Terrence	Lecturer	Single Room	A
21	Bárcena Pernía	Maria Ángeles	Lecturer	Not needed	NA
22	Flores Villarejo	José Abel	Lecturer	Not needed	NA
23	Rigual Hernández	Andres	Lecturer	Not needed	NA
24	Sierro	Francisco	Lecturer / Host organizer	Not needed	NA

Payment / reimbursement categories

	A	B
Salamanca (25-29 November): Accommodation and evening meals	Expenses on personal funds (SaltGiant Beneficiary funds)	Paid on site, fully reimbursed on SaltGiant IPGP Management funds
Salamanca (25-29 November): Lunch	Paid by local organizer	
Travel to and from Salamanca	Expenses on personal funds (SaltGiant Beneficiary funds)	Booked and paid before the event on SaltGiant IPGP Management funds

IMPORTANT NOTE ON BUDGET:

Participant in B refund category will be on SaltGiant IPGP Management funds and will received the refund after the completion of the school.

The boarding pass/train tickets and invoices (for accommodation or other transportation) have to be kept and sent by mail after the event to the following address:

Institut de Physique du Globe de Paris (IPGP)

Att: Julia Champagnac (GIS)

1 rue Jussieu

75005 Paris FRANCE



LOGISTICS

COMING TO THE SHORT COURSE

Coming to Salamanca

The easiest way is to fly to Madrid (Madrid-Barajas Airport), and then take the bus (Avanza Bus) or the train (RENFE). The journey from Madrid to Salamanca takes approximately 2:45 in bus and 1:30 hours in train but only with some fast trains (three per day)

There is a train that links terminal 4 with Madrid Chamartin station (Tren de cercanias), every 15 min. The bus leaves directly from the Airport to Salamanca bus station.



Madrid-Barajas Airport: leaving hours 13; 15; 17; 19; 21.

Salamanca (bus station) to Madrid airport T1 or T4. 7:00; 9:00; 11:00; 14:00; 16:00

www.avanzabus.com



There are only three fast trains per day, the others can take 2:30 or more hours to reach Salamanca Train Madrid (Chamartin Station). 8:55; 15:55; 20:40

Salamanca Madrid (Chamartin Station) 8:40; 15:30; 18:20

www.renfe.com

The short course will be hosted in the room E32003 (Laboratorio de Microscopia) of the Faculty of Sciences of Salamanca University. Look for Aula E3 that is indicated in the Halls of the Faculty.

SOFT AND HARWARE

All the trainees are asked to bring their own laptops.

As a support for the course, the trainees will receive an email asking them to download a public software.

ACCOMODATION

Participants will be staying at Colegio Arzobispo Fonseca, C/ Fonseca, 2 Salamanca.

The students are asked to share a twin room (see repartition in the table above). Check in is on Sunday, 24th and check out on Saturday, 30th. Please note that you are required to pay your own bill upon checking out.

The price is 55 euros single room and 70euros double room per day.

It is 10 min walking from the Faculty of Sciences and from the Plaza Mayor.

<https://www.salamancaconventionbureau.com/en/recurso/colegio-arzobispo-fonseca-4>

If you don't want to stay at Colegio Arzobispo Fonseca, please advise the organizing committee.

LUNCHES & JOINT DINNER

Lunches and coffee breaks will be provided by the Cafeteria of the Faculty.

On Wednesday, 27th at 9pm, the dinner will take place at Bambu restaurant : C/ Prior, 4 37002 Salamanca

<http://www.restaurantebambu.es/carta/>

ADRESSES OF THE EVENT

All the addresses of the event are summarized in the google maps link hereafter (copy the link):

<https://www.google.com/maps/d/edit?mid=11pAdyl7FQ16SjH-yy7o--K-6KzFn-U8&ll=40.97163482808077,-5.651251471580508&z=18>



SALAMANCA WEATHER FORECAST

Day	Conditions			Comfort		
	Temperature	Weather		Feels Like	Wind	Humidity
sam 23 nov	 8 / 4 °C	Sprinkles late. Clearing skies.		3 °C	28 km/h ↘	75%
dim 24 nov	 10 / 2 °C	Sprinkles late. Scattered clouds.		6 °C	18 km/h ↗	78%
lun 25 nov	 13 / 8 °C	Sprinkles. Morning clouds.		10 °C	24 km/h ↗	79%
mar 26 nov	 12 / 7 °C	Light showers. Mostly cloudy.		8 °C	34 km/h ↗	81%
mer 27 nov	 11 / 7 °C	Sprinkles early. Breaks of sun late.		7 °C	20 km/h ↗	79%
jeu 28 nov	 13 / 5 °C	Cloudy.		12 °C	19 km/h ↗	77%
ven 29 nov	 15 / 5 °C	Cloudy.		13 °C	28 km/h ↗	74%
sam 30 nov	 13 / 5 °C	Sprinkles early. Morning clouds.		10 °C	27 km/h →	68%
dim 1 déc	 11 / 3 °C	Sunny.		8 °C	20 km/h ↓	58%

If you have questions about the Short course, please contact:

- Francisco Sierra (Local organizer, USAL): sierro@usal.es
- Giovanni Aloisi (SaltGiant Coordinator, IPGP): aloisi@ipgp.fr
- Julia Champagnac (SaltGiant Project Manager, IPGP): champagnac@ipgp.fr