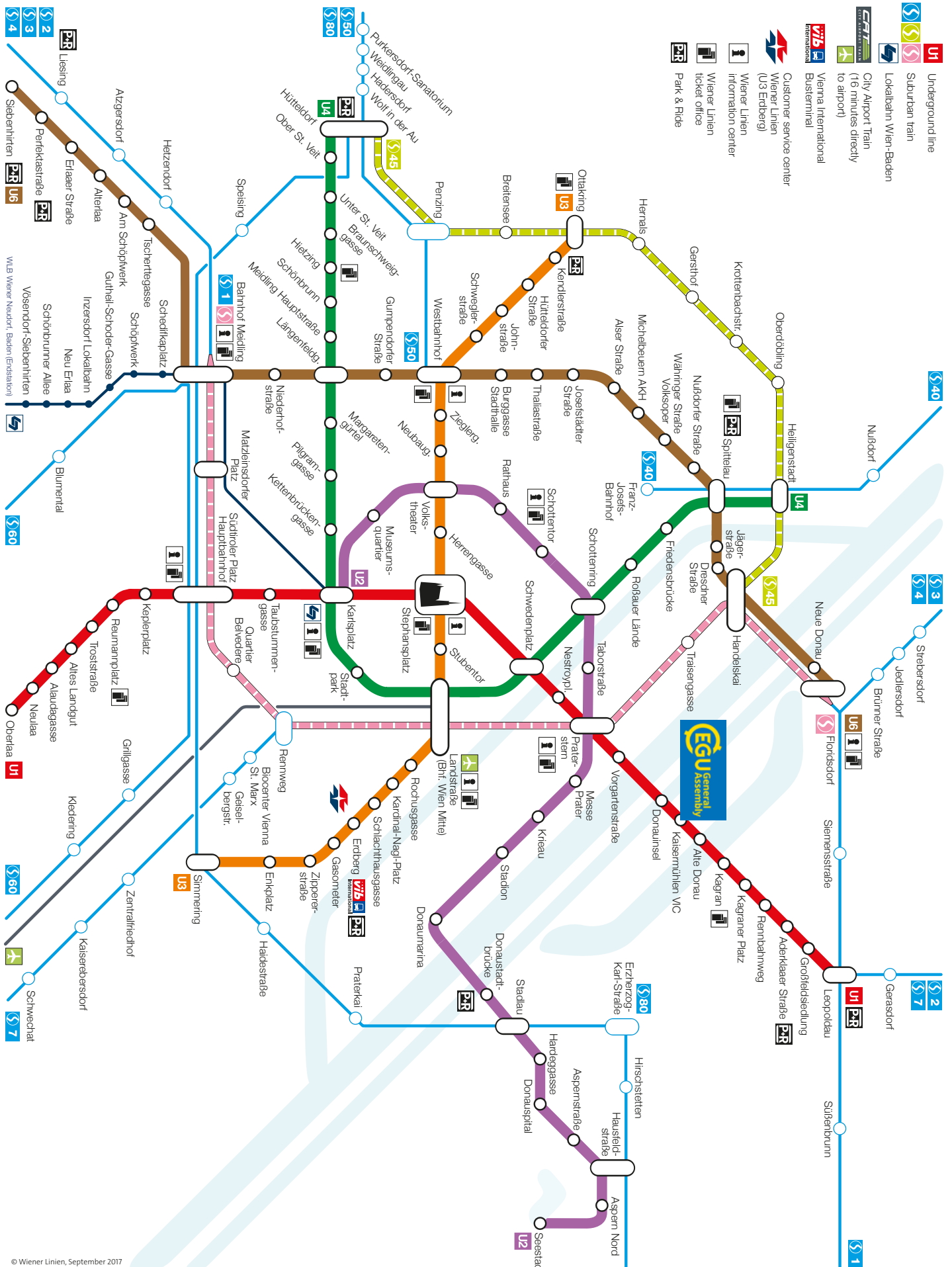




INFORMATION & FLOOR PLANS

Vienna | 7–12 April 2019

Underground map





Welcome to EGU's General Assembly

We are delighted to welcome you to EGU 2019, the largest geosciences meeting in Europe, which brings together scientists from around the world. EGU is proud to host this diverse meeting with participants from more than a hundred countries, from countless disciplines and cultural backgrounds. There will be opportunities for everyone to pursue existing collaborations, develop ongoing joint research, establish new connections, and make new friends in a vibrant atmosphere of open scientific discussions. To this purpose, we hope you will enjoy the new Networking Time from 18:00 to 19:00 that we have introduced this year. This gives a chance to catch up with colleagues, visit the exhibition, and view posters you missed during the day. EGU takes pride in aspiring to the highest ethical standards in everything we do. The EGU's rules of conduct during the General Assembly are published at https://egu2019.eu/about_and_support/rules_of_conduct.html.

We welcome all scientists, irrespective of creed, colour, religion, gender, or nationality. To promote diversity and equality in its activities, EGU recently created a Working Group on Diversity and Equality, which can be reached by writing to diversity@egu.eu. Our goal is to break down barriers to free expression of ideas and we ask all participants to respect the views of their colleagues and to share our values of the promotion of evidence-based science, integrity in how we conduct ourselves, and the pursuit of truth for the benefit of humanity. It is more important than ever that you do all you can to garner the trust, respect, and ear of wider society from the general public, to policy makers and NGOs, to school children and their teachers. While the General Assembly is, primarily, an opportunity to exchange and share ideas between scientists, we must ensure that the messages we learn, and the knowledge and understanding gained, do not stop at the doors of the conference centre. We will, again, hold a public lecture in the Natural History Museum in Vienna alongside established public

engagement activities such as the Science Journalism fellowships, the new awards "Angela Croome Award" to recognize excellence in Earth, space, and planetary sciences journalism and the "Katia and Maurice Krafft Award" to recognize researchers who excelled in science communication and the Geosciences Information for Teachers (GIFT) workshops.

The meeting features a stimulating and diverse programme of more than 688 sessions, 88 short courses, and 250 town hall meetings and side events. The EGU honours its outstanding scientists through our comprehensive suite of awards and medals. The awardees give accessible lectures on their research discipline and these provide a perfect opportunity to learn about a complementary or new discipline from the most highly regarded scientists in their field. The Union medal lectures are scheduled for 12:45–13:45 on Tuesday, Thursday, and Friday in Room E1. Over the week there will also be lectures given by the Division Medallists, the Division Outstanding Early Career Scientists and the Arne Richter Outstanding Early Career Scientists, with the details highlighted in the EGU programme. We also have an exciting and topical series of Great Debates, Union sessions, and, new in 2019, Science and Society events, including discussions related to recent world events, involving high-profile policy makers, scientists, and NGOs deeply involved in the activities being debated.

We encourage you to take active part in PICO (Presenting Interactive Content), poster, and oral sessions. To accommodate the growth of the General Assembly and improve the overall conference experience, PICO, poster, and oral sessions will run throughout the day. This allows us to fit more oral presentations into the meeting and gives more viewing time for PICO and posters. Posters remain hung throughout the day and the day-time presenting times are an excellent opportunity to discuss the science face-to-face with the presenter. You may also be interested in the many short courses and town hall meetings. We invite you to visit the exhibition halls where you can meet the leading publishing houses and companies related to the geosciences. Do look out for our artists-in-residence, an illustrator and a sculptor, in Foyer D, the Geoscience Games Night, the OpenstreetMap Mapathon, as well as sessions and short courses on links between the arts and science.

We are a bottom-up society, made up of members for the benefit of members, and the week therefore also features meetings related to the organization of the EGU. Many of these meetings are open and we hope that you will participate actively. First is the EGU Plenary Meeting at noon on Monday and there are also Division Meetings, where all members are invited to attend to help shape the future of the EGU while enjoying the complimentary lunch packages. This year EGU committees will also hold open "Meet and Greet" information meetings. And, of course, division presidents, editors and committee chairs hope to hear from you directly during their "Meet EGU" time at the EGU booth.

We would like to express our strong appreciation to the programme committee, together with the programme group chairs, for having put together an exciting and diverse

meeting. The success of the meeting relies on the extensive services provided by Copernicus GmbH and ACV staff and numerous others, whom we would like to thank for their efficient organizational support.

Finally, let us not forget that it is your enthusiasm and commitment that drive this meeting. Your contributions and active participation, free and open exchange of ideas, and commitment to excellence will expand the frontiers of our knowledge in geosciences for the benefit of all.

Thank you for attending the conference. We wish you an enjoyable and uplifting week.

Jonathan Bamber & Susanne Buitert
President and programme committee
chair, European Geosciences Union

**The programme committee welcomes you to the EGU
General Assembly 2019! Enjoy it to the fullest.**



Imprint

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INFO

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 Claudio Rosenberg, ts@egu.eu

General information

Location and conference address

The General Assembly of the European Geosciences Union (EGU) is held at the Austria Center Vienna (ACV) in Vienna, Austria, from 7 to 12 April 2019. The assembly is open to the scientists of all nations.

Austria Center Vienna Phone +43 1 26 06 90
Bruno-Kreisky-Platz 1 Fax +43 1 26 06 93 03
1220 Vienna
Austria

The congress centre is located next to the station [Kaisermühlen/Vienna Int. Centre](#) of subway U1 running from the city centre (Stephansplatz) to Leopoldau.

The entire congress centre is fully accessible for wheelchairs.

Official language

The official language of the General Assembly 2019 is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research more or less fluently in the English language.

Rules of conduct

The EGU is committed to providing a safe, open, and respectful environment for participants of its meetings. The EGU encourages all geoscientists to adopt the code of conduct for rigour, respect, and responsibility in their professional activities, as outlined in the joint EGU-AGU statement of principles for a code of ethics for the geosciences.

All participants at the EGU's General Assembly are expected to follow the rules of conduct outlined here. Should you observe violations against these rules, please contact the EGU's person of trust at the EGU Information in the entrance hall (Yellow Level 0 – ground floor) during the General Assembly and/or send an email to conduct@egu.eu as detailed at the end of this page.

Respectful behaviour

- ▶ Professional and respectful conduct of all attendees is expected.
- ▶ Bullying, harassment, intimidation, and discrimination of any kind will not be tolerated.

Inside the building

- ▶ Copying any presentation from the desktops in the lecture rooms is prohibited.
- ▶ Mobile phones should be on silent mode or

switched off in the lecture rooms.

- ▶ Smoking is prohibited in the entire congress centre except in the areas designated for smokers.
- ▶ Please report any practical issues regarding the conference centre to the EGU Information or the ACV Information (both ground floor entrance hall).

Recording by photo, film, or other means

- ▶ Taking photos or videos of scientific material shown in any oral, PICO, or poster presentations is prohibited unless the presenter authorizes this. Presenters are encouraged to inform the audience whether they welcome photos or sharing on social media.
- ▶ The EGU follows the guideline for consent related to pictures of a person in a public space for Austria. Recording via video, photograph, or other means of participants of the General Assembly is in general allowed as long as people are not shown in incriminatory or private situations and images are not used in a misleading or derogatory way. We recommend obtaining the permission of a person recorded if they appear in an identifiable way.

Social media

The EGU encourages open discussion on social media (Twitter, Facebook, etc.) and blogging platforms during the General Assembly. The following rules aim to provide the means by which General Assembly participants can embrace social media while at the same time remaining respectful of presenting authors' work and protecting their research output.

- ▶ Never post any images or video online without the authors' explicit permission.
- ▶ The default assumption is to allow open discussion of General Assembly oral, PICO, and poster presentations on social media. However, please respect any request from an author not to disseminate the contents of their presentation. Icons may be downloaded from the EGU General Assembly website for inclusion on slides or posters to clearly express when an author does or does not want their results posted on any social media networks or blogs.
- ▶ If you will be presenting your work at a press conference after your scientific presentation, please ask those in the room not to post about your research until after the press conference has taken place.

Be sure to include the official hashtag, #EGU19, when sharing snippets of your time at the conference on Twitter and elsewhere on social media.

Reporting violations

All participants at the EGU's General Assembly are expected to follow the rules of conduct outlined here. Should you observe violations against these rules, please contact the EGU's person of trust at the EGU Information in the entrance hall (Yellow Level 0 – ground floor) during the General Assembly and/or send an email to conduct@egu.eu. Messages to this address are treated confidentially. They are read by the EGU President and Vice-president, the programme committee chair, the executive secretary, and the conference manager of Copernicus GmbH. conduct@egu.eu is read year-round and explicitly during the General Assembly. Violations to the rules of conduct will be taken seriously and appropriate actions will be taken where necessary.

EGU's person of trust at the General Assembly

The EGU's person of trust at the General Assembly is trained to help you directly at the conference. A private room is reserved where you can discuss concerns with the trusted person, finding someone to listen. The EGU's person of trust is in contact with the responsible conduct persons of the General Assembly (the EGU President and Vice-president, the programme committee chair, the executive secretary, and the conference manager of Copernicus GmbH). Depending on the reported topic and your preference, we will do our best to follow-up and provide you with solutions as soon as possible.

Programme

The scientific programme of the General Assembly includes Union symposia, oral and poster as well as PICO sessions on disciplinary and interdisciplinary topics covering the full spectrum of the geosciences and the space and planetary sciences, educational & outreach symposia, short courses, lectures organized by related scientific societies & medal lectures, and townhall & splinter meetings.

The up-to-date programme of each event is posted in front of the respective lecture room or in the respective poster area.

Services

General service points

Entrance hall – Yellow Level 0 (ground floor)

- ▶ **EGU Information:** general contact, lost and found, printing and photocopies, facility desk for lecture rooms.
- ▶ **Hotel and tours:** Mondial hotel and travel assistance.
- ▶ **Meeting point**

- ▶ **Poster print service:** Poster pickup is on Sunday, 12:00–20:00, Monday–Thursday, 08:00–19:00, and Friday 08:00–12:00.

The **EGU Lounge** is located in Foyer E on the Yellow Level 0 (ground floor).

The **press centre** is located in Foyer F on the Yellow Level 0 (ground floor).

The **editors' lounge** is located in Foyer B on the Red Level 2 (second floor).

The **networking & ECS zone** is located in Foyer C on the Red Level 2 (second floor).

The **cloakroom** is located between rooms K2 and D1 on the Brown Level -2 (basement).

Seating areas are reserved on the Brown Level -2 (basement) in Foyers D, G, and K, on the Yellow Level 0 (ground floor) next to the entrance as well as in Foyer E, on the Green Level 1 (first floor) in Foyers M and N, and on the Red Level 2 (second floor) in Foyers A, B, and C.

Quiet rooms are reserved on the Brown Level -2 (basement) opposite lecture room G2 in rooms -2.67–70. Attendees who need to rest are invited to use these rooms and indicate their occupancy by using the door hangers. The quiet rooms are considered a quiet place and must not be used to work or talk. Please limit your usage time in order to give other attendees the chance to rest.

The **multi-faith prayer rooms** are situated on the Yellow Level 0 (ground floor) with room numbers 0.65/66 (on the right hand side of the EGU Lounge). They are available from 08:00 to 19:30. The purpose of these facilities is to allow people of all faiths, religions, and spirituality to have a sanctuary to retreat to. However, it is important to note that the users of these facilities will be from many culturally diverse backgrounds and some basic guidelines should be followed when using the prayer rooms. Please read the following guidelines carefully and take care to be aware of the religious sensibilities of others, which may be very different from your own.

- ▶ The multi-faith prayer rooms should be considered a quiet space, so all mobile phones are to be switched off upon entry.
- ▶ Please remove your shoes and leave them in the shoe rack.
- ▶ Please do not place any notices in this space.
- ▶ Do not light candles or any incense in this room.

Childcare is located on the Brown Level -2 (basement). Please contact the EGU Information for arrangements.

INFO

Young attendees are invited to take a break from the conference and visit the [kids' corner](#) on the Green Level 1 (first floor). Parents are obliged to look after their children, and the usage of the kids' corner is at your own risk.

The [breastfeeding room](#) is located on the Yellow Level 0 (ground floor) with room number 0.64. A diaper bucket and changing table as well as sofas to rest on are provided.

General Assembly Job Centre

The EGU General Assembly Job Centre offers the opportunity to connect employers/recruiters and highly-qualified candidates in the Earth, planetary, and space sciences. Conference registration as participant or as exhibitor is required to take part in the job centre. Room -2.34 on the Brown Level -2 (basement) is reserved for job presentations. It is equipped with a projector and is available for employers/recruiters to present their vacancy(ies) on their own notebook. [Job presentations](#) are listed online in the meeting programme in [programme group JC](#). Next to the job presentation room, rooms -2.35 and -2.36 are available for [job interviews](#). These are booked through door sign-up sheets.

Internet (Wi-Fi and LAN)

- ▶ [Wi-Fi](#): free unsecured wireless internet is available throughout the building.
- ▶ [Internet terminals](#) are located on the Yellow Level 0 (ground floor) in Hall X5 from Tuesday.
- ▶ [LAN access](#) is available on the gallery – Green Level 1 (first floor).

Exhibition

[Exhibition](#): entrance hall – Yellow Level 0 (ground floor), gallery – Green Level 1 (first floor), and Hall X2 – Brown Level -2 (basement), EGU & Friends.

Refreshments and lunch

- ▶ [Coffee and lunch breaks](#) are scheduled for Monday–Friday, 10:15–10:45 and 15:45–16:15, as well as 12:30–14:00.
- ▶ [Complimentary refreshments](#) are served during the coffee breaks (coffee/tea) as well as during the daily [networking time](#) 18:00–19:00 (beer, alcohol-free beer, and soft drinks), giving attendees additional time to discuss and interact with colleagues, view posters, and visit the exhibition.
- ▶ [Refreshments, snacks, and lunch](#) are offered on a self-payment basis on each floor. See page 54.

Conference hours

Official opening hours

Sunday, 12:00–21:00
Monday, 07:30–20:00
Tuesday–Friday, 08:00–20:00

Registration (Hall X5)

Sunday, 12:00–20:00
Monday, 07:30–18:00
Tuesday–Thursday, 08:00–18:00
Friday, 08:00–12:00

EGU Information

Sunday, 12:00–20:00
Monday, 07:30–19:00
Tuesday–Thursday, 08:00–19:00
Friday, 08:00–17:00

Oral, poster, and PICO sessions

For details, please see the online programme and mobile app.

Guidelines

Oral

Authors are kindly asked to upload their presentations directly in the respective lecture room within 30 minutes preceding the actual time block of the session. A lecture room assistant will be available for any help.

Poster

The general [display time](#) is from 08:00 to 19:00. Authors are kindly asked to put up their posters as soon as possible on the day when the specific poster session is scheduled (08:00–09:00, but not on the evening before the scheduled display day).

The [authors in attendance time](#) is the time when the respective authors of a poster session must be available at their display for presentation. The authors in attendance time of each poster session is given in the online programme and mobile app.

Authors are kindly asked to [dismantle](#) their poster between 19:00 and 19:30. After this time the remaining posters will be taken down by the conference staff.

PICOs

The actual presentation & discussion time is given in the programme. The upload of your PICO presentation is at the PICO upload & preview in Hall X5 – Yellow Level 0 (ground floor).

EGU Today

EGU's daily newsletter highlighting scientific sessions, short courses, and other activities at the Assembly is now digital. You can read the

daily issues from the General Assembly app or at: <https://www.egu.eu/egutoday/>

Social media and blogs



Twitter

Participants can keep up to date with General Assembly goings-on by following the EGU Twitter account (@EuroGeosciences) and the conference hashtag (#EGU19). You can also direct questions to the EGU communications staff and other participants by tagging your tweets with #EGU19, or by tweeting to @EuroGeosciences directly.

Each of the scientific programme groups has its own hashtag, so you can tune in to what's being discussed within a particular field – check the programme group page and individual programme group schedules for more information.

Live tweeting of sessions is welcomed unless the presenter specifically requests that you don't. Please refer to the rules of conduct on the general information page and social media guidelines (which you will find at https://egu2019.eu/about_and_support/rules_of_conduct.html) when sharing session content.

Facebook

The EGU communications staff will be advertising General Assembly sessions and will post about research being presented at the Assembly on Facebook. Just type European Geosciences Union into the Facebook search bar to find the EGU official page, and like or follow it to receive the updates.

Instagram

To experience the more informal aspects of the General Assembly and for behind-the-scenes access to the organization of the conference follow the EGU on Instagram (@EuroGeosciences).

And more!

While Twitter, Facebook, and Instagram will be the main media streams during the Assembly, you can also search for the European Geosciences Union on LinkedIn and YouTube to keep up with us there!

Blogging

GeoLog (geolog.egu.eu) is the official EGU blog and is updated regularly throughout the General Assembly. Posts will highlight some of the meeting's most interesting sessions, short courses, and lectures as well as featuring interviews with scientists attending the Assembly.

Writers from the EGU Blog Network (blogs.egu.eu/network) and EGU Division Blogs (blogs.egu.eu/division) will also be posting about interesting research and sessions during the General Assembly, so you can catch up on any sessions you've missed and get a feel for what's going on in the press room through them!

As in previous years, the EGU will be compiling a list of General Assembly related blogs and making them available through GeoLog. If you would like to contribute to GeoLog, please contact Olivia Trani at networking@egu.eu.

Early Career Scientists (ECS) at the General Assembly 2019

Early Career Scientists Corner at the opening reception

A gathering point for early career scientists provides the opportunity to meet like-minded fellows, especially if it is your first time at the General Assembly or you are coming alone. See you on Sunday, in Foyer E.

Networking & ECS Zone

The Networking & ECS Zone on the Red Level of the conference centre is a place to catch up with your peers and make new connections. Early career scientists across all fields are encouraged to meet here for informal discussions, attend pop-up events, and perhaps even find opportunities for collaborations. We also hope that mentors and mentees participating in the General Assembly mentoring programme, as well as other meeting participants interested in networking, will meet here. On the notice boards you can find information on various topics, such as cultural activities in Vienna, division social events taking place during the conference, and drop-in sessions held at the zone. Your feedback to the ECS representatives is very welcome and can be posted on the suggestion boards.

Early Career Scientists' Forum

The EGU is a bottom-up organisation and so early career scientists' opinions on how we can improve the EGU and the General Assembly further are important. At the forum, on Wednesday from 12:45 in room L2, you can learn about the changes implemented since the last General Assembly, how to get involved with the EGU and have the opportunity to provide feedback.

Sessions for early career scientists

A huge variety of General Assembly sessions will be of interest to early career scientists, and we have compiled a session shortlist filled with courses and meetings which have a strong early career scientist focus: access it at <https://www.egu.eu/ecs/at-the-assembly/sessions/>

INFO

Short Courses, for example, have mostly been organized with early career scientists in mind. At this year's General Assembly there are a number of them, from courses with a purely scientific focus to career-building and science-communication workshops. Find the full list in the short courses section of the programme.

Meet the EGU

Make sure you make time to meet your division president and ECS representative, or attend your division's meeting to find out more about what's going on within your field and in the EGU. You will also have the opportunity to meet the Union early career scientist representatives, Stephanie Zihms and Raffaele Albano, and the EGU Communications Officer and ECS contact at the EGU Office, Olivia Trani. This is your opportunity to discuss issues specific to the ECS community with them. Meet the EGU will take place at the EGU booth in Hall X2 and schedules are available in the online programme.

Early Career Scientists Networking and Careers Reception

For the fifth year in a row, the EGU will host a reception with drinks and light snacks aiming to bring together ECS, members of the Union Council, award-winning researchers, and selected industry partners exhibiting at the General Assembly. This networking reception provides an informal setting where participants interact and establish connections. It offers an opportunity for scientists, in and out of academia, to share their experience with researchers in the early stages of their career. The reception (in room F2 on Tuesday from 19:00 to 20:30) is by invitation only, though there are some additional spots available for keen ECS attendees looking to network.

Outstanding Student Poster and PICO Award

In addition to the Union and division awards available to early career scientists, those who are students (current and recent undergraduates and postgraduates, and current PhD students) are also eligible to apply for the Outstanding Student Poster and PICO (OSPP) Award. The OSPP Award is given to the first authors of posters or PICOs presented at the EGU General Assembly who have expressed an interest in participating at the time of abstract submission. For information on how to participate next year, please see the awards and medals page at <https://www.egu.eu/awards-medals/ospp-award/>. For more information about other EGU awards for early career researchers, please check <https://www.egu.eu/awards-medals/>.

EGU Plenary, Ceremonies, and Networking

PCN1 Opening reception

Sunday, 7 April, 18:30–21:00, Foyer F

PCN9 Journal reception – 25 years Nonlinear Processes in Geophysics (NPG)

Monday, 8 April, 18:00–19:00, EGU booth

PCN5 President's reception (by invitation only)

Monday, 8 April, 20:00–22:00, Business Lounge

PCN8 Diversity & Equality Reception

Tuesday, 9 April, 18:00–19:00, EGU booth

PCN7 ECS Networking and Careers Reception (by invitation only)

Tuesday, 9 April, 19:00–20:30, Room F2

PCN6 EGU Early Career Scientists' Forum

Wednesday, 10 April, 12:45–13:45, Room L2

PCN3 EGU Award Ceremony

Wednesday, 10 April, 17:30–20:00, Room E1

PCN10 Journal reception – Geochronology (GChron)

Wednesday, 10 April, 18:00–19:00, EGU booth

PCN4 Conveners' reception (by invitation only)

Friday, 12 April, 19:30–00:00, Foyer F

Visit the EGU Plenary Meeting!

Monday, 8 April, 12:45–13:45, room E1

All 2019 EGU Members are invited to participate in this event to discuss the reports of the President and the Treasurer of the Union.

Sandwiches & soft drinks will be served.

Article processing charges waived

GEOCHRONOLOGY

Advances in geochronological science



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Executive editors

Georgina King, Andreas Lang, Philippa Ascough, Greg Balco, and Klaus Mezger

Geochronology is an open-access, open-review journal providing a unified outlet for high-quality basic and applied research in geochronology, independent of technique used or timescale considered. Geochronology publishes research in all aspects of geoscience that aim to determine times or rates of geologic events and processes: basic research into fundamental physics and chemistry of geologic dating methods; applications across the full range of geosciences; and developments in standardization and intercomparison, statistical methods, data management, and computational infrastructure. Geochronology aims to encourage and sustain innovation in geochronology by providing a centralized communication platform that transcends specific fields of application and focuses on the common theme of quantifying geologic time.



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Medals and awards presented on behalf of the European Geosciences Union

MEDALS/AWARDS	RECIPIENT	PRESENTED
Monday, 8 April		
Hannes Alfvén Medal Lecture	Daniel N. Baker	11:30–12:30, room K2
Fridtjof Nansen Medal Lecture	Anne-Marie Tréguier	14:00–15:00, room L6
Arne Richter Award for Outstanding ECS Lecture	Giulia Sofia	16:15–16:45, room G2
Jean Baptiste Lamarck Medal Lecture	Isabel P. Montañez	17:00–18:00, room D3
Louis Agassiz Medal Lecture	Andreas Kääb	19:00–20:00, room K2
Petrus Peregrinus Medal Lecture	Catherine Kissel	19:00–20:00, room K1
Tuesday, 9 April		
Stephan Mueller Medal Lecture	Serge Lallemand	09:15–10:15, room D3
SSS Division Outstanding ECS Lecture	Bahar S. Razavi	10:45–11:15, room G1
GMPV Division Outstanding ECS Lecture	Evangelos Moulas	10:55–11:25, room D1
Robert Wilhelm Bunsen Medal Lecture	Daniela Rubatto	11:25–12:25, room D1
Christiaan Huygens Medal Lecture	Lev V. Eppelbaum	11:30–12:30, room L3
Arne Richter Award for Outstanding ECS Lecture	Mathew Domeier	12:00–12:30, room -2.21
Arthur Holmes Medal Lecture	Jean Braun	12:45–13:45, room E1
Lewis Fry Richardson Medal Lecture	Shaun Lovejoy	14:00–15:00, room E2
G Division Outstanding ECS Lecture	Benedikt Soja	15:30–15:45, room D2
Runcorn-Florenksy Medal Lecture	Tim Van Hoolst	16:15–17:15, room L8
AS Division Outstanding ECS Lecture	Gabriele Messori	16:15–16:45, room L3
Hans Oeschger Medal Lecture	Edward J. Brook	17:00–18:00, room F2
Plinius Medal Lecture	Philip J. Ward	17:00–18:00, room L6
Ian McHarg Medal Lecture	Stefano Nativi	19:00–20:00, room L3
John Dalton Medal Lecture	Günter Blöschl	19:00–20:00, room B
Louis Néel Medal Lecture	Chris Marone	19:00–20:00, room K1
Philippe Duchaufour Medal Lecture	Claire Chenu	19:00–20:00, room G1
Wednesday, 10 April		
Julius Bartels Medal Lecture	Masatoshi Yamauchi	09:15–10:15, room E1
SM Division Outstanding ECS Lecture	Piero Poli	10:45–11:15, room D2
Vilhelm Bjerknes Medal Lecture	Johannes Lelieveld	11:30–12:30, room F1
TS Division Outstanding ECS Lecture	Daniel Pastor-Galán	12:00–12:30, room K1
Milutin Milankovic Medal Lecture	Jacques Laskar	14:00–15:00, room F2
HS Division Outstanding ECS Lecture	Serena Ceola	14:00–14:30, room B
ST Division Outstanding ECS Lecture	Chao Xiong	15:30–15:45, room L1

Medals and awards presented on behalf of the European Geosciences Union



Thursday, 11 April

Arne Richter Award for Outstanding ECS Lecture	Amanda C. Maycock	10:45–11:15, room E2
Sergey Soloviev Medal Lecture	Kyoji Sassa	10:45–11:45, room L6
PS Division Outstanding ECS Lecture	John Carter	10:45–11:15, room L3
Vladimir Ivanovich Vernadsky Medal Lecture	Kurt O. Konhauser	11:30–12:30, room C
Arne Richter Award for Outstanding ECS Lecture	Marie Dumont	12:00–12:30, room N2
Jean Dominique Cassini Medal Lecture	Margaret G. Kivelson	12:45–13:45, room E1
Augustus Love Medal Lecture	Anne Davaille	14:45–15:45, room D1
NH Division Outstanding ECS Lecture	Jadranka Šepić	15:15–15:45, room 1.61
OS Division Outstanding ECS Lecture	Peter Landschützer	17:45–18:00, room L4/5
Beno Gutenberg Medal Lecture	Annie Souriau	19:00–20:00, room D1
Henry Darcy Medal Lecture	Petra Döll	19:00–20:00, room B
Ralph Alger Bagnold Medal Lecture	David L. Egholm	19:00–20:00, room G2
Vening Meinesz Medal Lecture	Tonie van Dam	19:00–20:00, room D2

Friday, 12 April

SSP Division Outstanding ECS Lecture	Christian Zeeden	10:00–10:15, room -2.32
Alfred Wegener Medal Lecture	Michael L. Bender	12:45–13:45, room E1

EGU Award Ceremony

Wednesday, 10 April, 17:30–20:00, room E1

17:30–19:00 Ceremony

Opening of the 2019 EGU Award Ceremony and welcome by the EGU President

Celebration of the EGU Fellowships, the Division Early Career Scientists awardees, the Division medallists, the Arne Richter for Outstanding Early Career Scientists awardees, and the Union medallists

19:00–19:45 Closure of the ceremony and refreshments

19:45–20:00 Bus transfer to Presidents' Dinner (by invitation only)

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Arne Richter Award for Outstanding Early Career Scientists



GIULIA SOFIA

Monday, 8 April, 16:15–16:45, room G2

for developing cutting-edge techniques for understanding geomorphic processes and land-use history with high-resolution topographic data, and quantifying human impact on the landscape.



MATHEW DOMEIER

Tuesday, 9 April, 12:00–12:30, room -2.21

for outstanding accomplishments in reconstructing tectonic plate evolution in the past 600 million years and in understanding the link between the evolution of plates and the deep Earth.



AMANDA C. MAYCOCK

Thursday, 11 April, 10:45–11:15, room E2

for significant and original contributions to the understanding of the influence of stratospheric processes on climate at temporal scales from seasons to centuries.



MARIE DUMONT

Thursday, 11 April, 12:00–12:30, room N2

for outstanding contributions to the field of snow sciences.

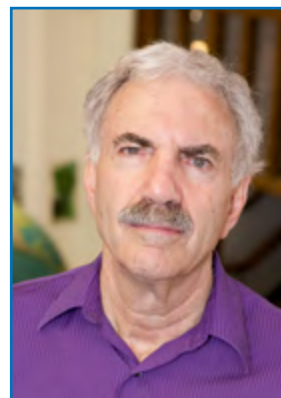
Union Medals

ALFRED WEGENER MEDAL & HONORARY MEMBERSHIP

Michael L. Bender

Friday, 12 April, 12:45–13:45, room E1

for groundbreaking contributions to understanding the history of atmospheric composition.



ARTHUR HOLMES MEDAL & HONORARY MEMBERSHIP

Jean Braun

Tuesday, 9 April, 12:45–13:45, room E1

in recognition of outstanding contributions to coupled lithospheric geodynamic and surface process modelling.

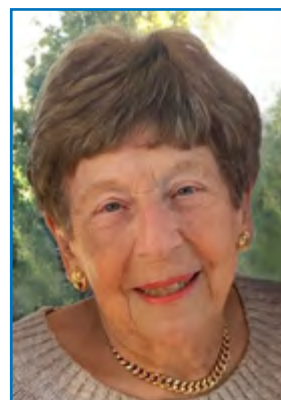


JEAN DOMINIQUE CASSINI MEDAL & HONORARY MEMBERSHIP

Margaret G. Kivelson

Thursday, 11 April, 12:45–13:45, room E1

for pioneering work in using magnetic fields to understand the interiors of planets and moons, which has revolutionised our vision of them as habitable worlds.



Open-access journals of the European Geosciences Union



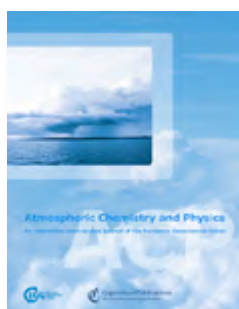
Annales Geophysicae (ANGEO)

- Interactive Public Peer Review™
- **Impact Factor: 1.621**



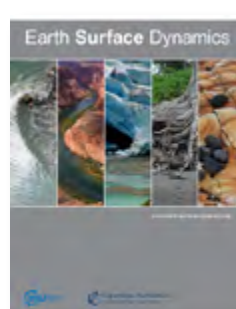
Climate of the Past (CP)

- Interactive Public Peer Review™
- **Impact Factor: 3.174**



Atmospheric Chemistry and Physics (ACP)

- Interactive Public Peer Review™
- **Impact Factor: 5.509**



Earth Surface Dynamics (ESurf)

- Interactive Public Peer Review™
- **Impact Factor: 3.176**



Atmospheric Measurement Techniques (AMT)

- Interactive Public Peer Review™
- **Impact Factor: 3.248**



Earth System Dynamics (ESD)

- Interactive Public Peer Review™
- **Impact Factor: 3.769**



Biogeosciences (BG)

- Interactive Public Peer Review™
- **Impact Factor: 3.441**



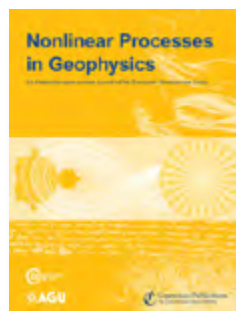
Geochronology (GChron)

- Interactive Public Peer Review™
- article processing charges waived



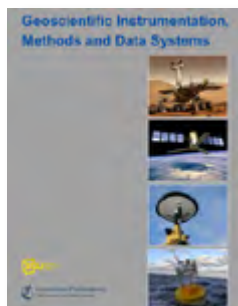
Geoscience Communication (GC)

- Interactive Public Peer Review™
- article processing charges waived



Nonlinear Processes in Geophysics (NPG)

- Interactive Public Peer Review™
- **Impact Factor: 1.129**



Geoscientific Instrumentation, Methods and Data Systems (GI)

- Interactive Public Peer Review™
- **Impact Factor: 1.319**



Ocean Science (OS)

- Interactive Public Peer Review™
- **Impact Factor: 2.289**



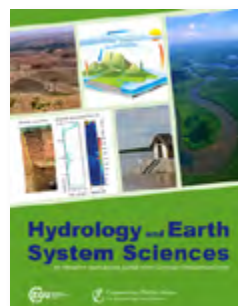
Geoscientific Model Development (GMD)

- Interactive Public Peer Review™
- **Impact Factor: 4.252**



SOIL

- Interactive Public Peer Review™
- article processing charges waived
- indexed in the Science Citation Index Expanded



Hydrology and Earth System Sciences (HESS)

- Interactive Public Peer Review™
- **Impact Factor: 4.256**



Solid Earth (SE)

- Interactive Public Peer Review™
- **Impact Factor: 4.165**



Natural Hazards and Earth System Sciences (NHESS)

- Interactive Public Peer Review™
- **Impact Factor: 2.281**



The Cryosphere (TC)

- Interactive Public Peer Review™
- **Impact Factor: 4.524**

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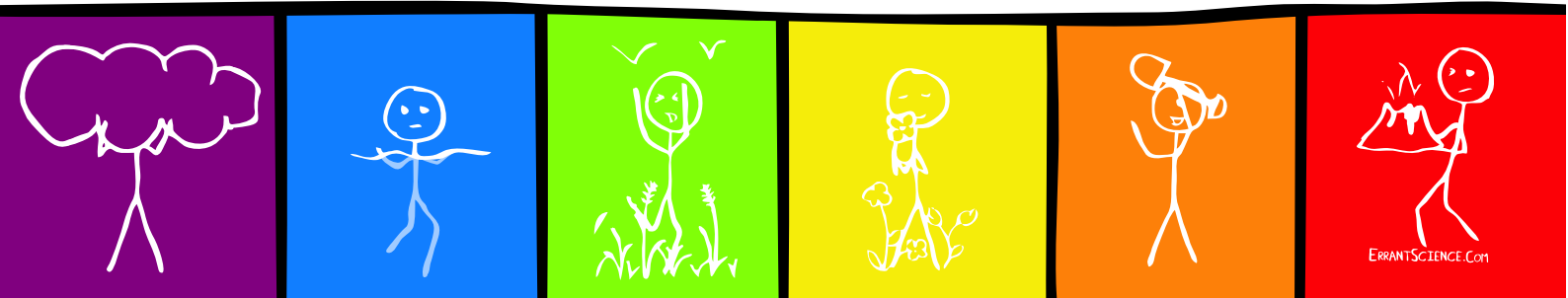
Geoscience Communication (GC) is to help share knowledge and give more "traditional" recognition for science communication in the geosciences. Science communication is used as an umbrella term by GC to cover all aspects of outreach, public engagement, widening participation, knowledge exchange, and any other initiatives within the scope of the journal. It can be thought of as any initiative which seeks to communicate an aspect of geoscience to a wider audience than the experts within that particular field.

The journal covers the following broad subject areas:

- geoscience education;
- geoscience engagement;
- geoscience policy;
- history and philosophy of geosciences;
- open geoscience.



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Union Symposia, Great Debates, and Science and Society

INFO

Union Symposia

Tuesday, 9 April

US5 From fundamental Atmospheric Composition Research to Societal Services/30 years of the WMO Global Atmosphere Watch Programme
 Convener: Oksana Tarasova
 Co-conveners: Marcos Andrade, Claudia Volosciuk
 10:45–15:30, room E1

Thursday, 11 April

US4 Promoting and supporting equality of opportunities in geosciences
 Convener: Claudia Alves de Jesus Rydin
 Co-conveners: Alberto Montanari, Robin Bell, Chiaki Oguchi, Lily Pereg (deceased)
 14:00–18:00, room E1

Friday, 12 April

US2 Mountain Building, Volcanism, Climate and Biodiversity in the Andes: 250 years after Alexander von Humboldt
 Convener: Peter van der Beek
 Co-conveners: Mike Burton, Giuliana Panieri, Lily Pereg (deceased)
 08:30–12:15, room E1

US3 Past and future tipping points and large climate transitions in Earth history
 Convener: Gilles Ramstein
 Co-conveners: Ayako Abe-Ouchi, Richard Betts, Robert DeConto
 14:00–18:00, room E1

Great Debates

Monday, 8 April

GDB2 Science in policymaking: Who is responsible?
 Convener: Chloe Hill
 Co-conveners: Sarah Connors, Olivia Trani
 10:45–12:30, room E1

Tuesday, 9 April

GDB5 Plan-S: Should scientific publishers be forced to go Open Access?
 Convener: Katja Fennel
 Co-conveners: Jonathan Bamber
 16:15–18:00, room E1

Wednesday, 10 April

GDB4 Rewards and recognition in science: what value should we place on contributions that cannot be easily measured
 Convener: Alberto Montanari
 Co-conveners: Jonathan Bamber, Robin Bell, Hiroshi Kitazato, Lily Pereg (deceased)
 10:45–12:30, room E1

Thursday, 11 April

GDB1 The safe operating space for the planet and how to ensure it is not passed
 Convener: Jonathan Bamber
 Co-conveners: Alberto Montanari, Didier Roche
 10:45–12:30, room E1

GDB3 How can Early Career Scientists prioritise their mental wellbeing?
 Convener: Mathew Stiller-Reeve
 Co-conveners: Raffaele Albano, Anita Di Chiara, Olivia Trani, Stephanie Zihms
 19:00–20:30, room E1

Science and Society

Monday, 8 April

SCS2 Plastics in the Hydrosphere: An urgent problem requiring global action
 Convener: Jessica Hickie
 Co-conveners: Bruce Newport, Christopher Hackney, David Todd, Tim van Emmerik
 14:00–17:45, room E1

Wednesday, 10 April

SCS1 Science, Politics and European (dis)integration: A conversation of Geoscientists with Ilaria Capua and Mario Monti
 Conveners: Alberto Montanari, Jonathan Bamber
 12:45–14:00, room E1

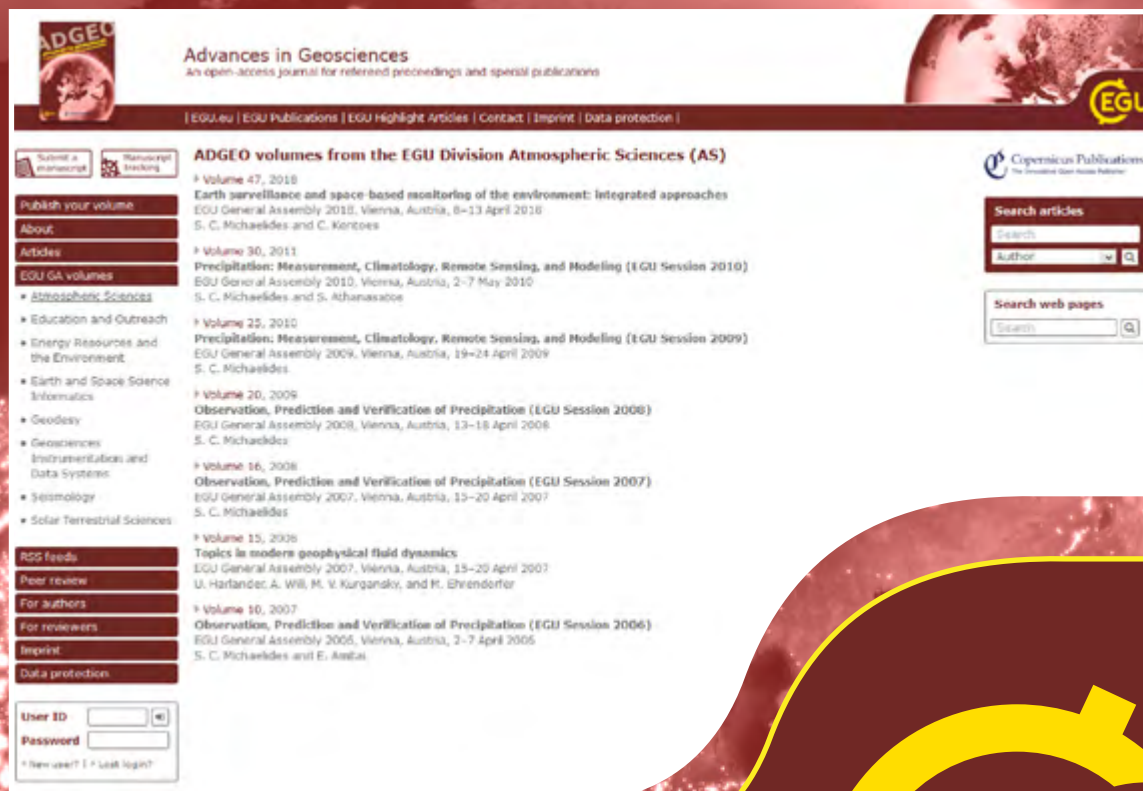
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The screenshot shows the ADGEO website with a dark blue header and a light blue sidebar. The main content area lists various volumes and their topics. The sidebar contains links for submitting manuscripts, manuscript tracking, and publishing volumes. The main content area lists volumes from the EGU Division Atmospheric Sciences (AS), including Earth surveillance and space-based monitoring of the environment, and Precipitation: Measurement, Climatology, Remote Sensing, and Modeling. The sidebar also includes links for EGU GA volumes, EGU GA topics, and EGU GA sessions. The main content area also includes a search bar and a login section.

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ADGEO volumes from the EGU Division Atmospheric Sciences (AS)

- Volume 47, 2018
Earth surveillance and space-based monitoring of the environment: integrated approaches
EGU General Assembly 2018, Vienna, Austria, 8–13 April 2018
S. C. Michaelides and C. Kontos
- Volume 30, 2011
Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (EGU Session 2010)
EGU General Assembly 2010, Vienna, Austria, 2–7 May 2010
S. C. Michaelides and S. Athanasatos
- Volume 25, 2010
Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (EGU Session 2009)
EGU General Assembly 2009, Vienna, Austria, 19–24 April 2009
S. C. Michaelides
- Volume 20, 2009
Observation, Prediction and Verification of Precipitation (EGU Session 2008)
EGU General Assembly 2008, Vienna, Austria, 13–18 April 2008
S. C. Michaelides
- Volume 16, 2008
Observation, Prediction and Verification of Precipitation (EGU Session 2007)
EGU General Assembly 2007, Vienna, Austria, 13–20 April 2007
S. C. Michaelides
- Volume 15, 2008
Topics in modern geophysical fluid dynamics
EGU General Assembly 2007, Vienna, Austria, 13–20 April 2007
U. Harlander, A. Will, M. V. Kurganski, and R. Enderforer
- Volume 10, 2007
Observation, Prediction and Verification of Precipitation (EGU Session 2006)
EGU General Assembly 2005, Vienna, Austria, 2–7 April 2005
S. C. Michaelides and E. Ambai

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Union administrative meetings (by invitation only)

INFO

Sunday, 7 April

UMI4 Outreach committee meeting I
Convener: Mioara Manda
09:00–12:00, room 3.17

UMI1 Council meeting I
Convener: Jonathan Bamber
13:00–18:00, room 3.29/30

Monday, 8 April

UMI12 Education committee meeting
Convener: Chris King
18:00–19:00, room L4/5

Tuesday, 9 April

UMI6 Publications committee meeting I
Convener: Hubert H.G. Savenije
07:30–08:30, room 3.29

UMI8 IJTF Publications meeting
Convener: Hubert H.G. Savenije
09:00–11:00, room 3.17

Wednesday, 10 April

UMI10 Topical events committee meeting
Convener: Jürg Schweizer
08:00–09:00, room 3.17

Thursday, 11 April

UMI5 Outreach committee meeting II
Convener: Mioara Manda
08:00–09:00, room 3.17

UMI9 Finance committee meeting
Convener: Patric Jacobs
15:00–17:00, room 3.17

Friday, 12 April

UMI7 Publications committee meeting II
Convener: Hubert H.G. Savenije
12:30–14:00, room 3.17

UMI14 EGU Early Career Scientists' representatives meeting
Convener: Stephanie Zihms
12:30–14:00, room 3.16

UMI11 Union awards committee meeting
Convener: Özgür Karatekin
15:00–16:00, room 3.17

UMI13 Programme committee feedback
Convener: Susanne Buiter
16:00–17:00, room 3.29/30

UMI2 Council meeting II
Convener: Alberto Montanari
17:15–19:15, room 3.29/30

Division meetings

All EGU General Assembly 2019 attendees are invited to attend, particularly ECS

(Sandwiches & soft drinks will be served)

Tuesday, 9 April

DM8/G Division meeting for Geodesy (G)
Convener: Johannes Boehm
12:45–13:45, room D2

DM10/GI Division meeting for Geosciences Instrumentation and Data Systems (GI)
Conveners: Francesco Soldovieri, Lara Pajewski
12:45–13:45, room M1

DM13/HS Division meeting for Hydrological Sciences (HS)
Conveners: Elena Toth, Maria-Helena Ramos
12:45–13:45, room B

DM14/NH Division meeting for Natural Hazards (NH)
Conveners: Giorgio Boni, Ira Didenkulova
12:45–13:45, room L6

DM17/PS Division meeting for Planetary and Solar System Sciences (PS)
Convener: Stephanie C. Werner
12:45–13:45, room 1.61

DM20/SSS Division meeting for Soil System Sciences (SSS)
Conveners: Lily Pereg (deceased), Claudio Zaccane
12:45–13:45, room G1

Wednesday, 10 April

DM1/AS Division meeting for Atmospheric Sciences (AS)
Conveners: Annica Ekman, Athanasios Nenes
12:45–13:45, room F1

DM3/CL Division meeting for Climate: Past, Present & Future (CL)
Convener: Didier Roche
12:45–13:45, room F2

DM5/EMRP Division meeting for Earth Magnetism & Rock Physics (EMRP)
Conveners: Angelo De Santis, Fabio Florindo
12:45–13:45, room L6

DM12/GMPV Division meeting for Geochemistry, Mineralogy, Petrology & Volcanology (GMPV)
Conveners: Mike Burton, Marian Holness
12:45–13:45, room D1

DM15/NP Division meeting for Nonlinear Processes in Geosciences (NP)
Convener: Stéphane Vannitsem
12:45–13:45, room M1

DM16/OS Division meeting for Ocean Sciences (OS)
Convener: Karen J. Heywood
Co-convener: Johan van der Molen
12:45–13:45, room N2

DM18/SM Division meeting for Seismology (SM)
Conveners: P. Martin Mai, Philippe Jousset
12:45–13:45, room -2.91

DM19/SSP Division meeting for Stratigraphy, Sedimentology and Palaeontology (SSP)
Conveners: Helmut Weissert, Marc De Batist
12:45–13:45, room 0.31

DM22/TS Division meeting for Tectonics and Structural Geology (TS)
Convener: Claudio Rosenberg
12:45–13:45, room K2

Thursday, 11 April

DM2/BG Division meeting for Biogeosciences (BG)
Convener: Giuliana Panieri
12:45–13:45, room L2

DM4/CR Division meeting for Cryospheric Sciences (CR)
Convener: Olaf Eisen
12:45–13:45, room N1

DM6/ERE Division meeting for Energy, Resources and the Environment (ERE)
Convener: Sonja Martens
12:45–13:45, room 0.94

DM7/ESSI Division meeting for Earth & Space Science Informatics (ESSI)
Convener: Helen Graves
12:45–13:45, room 0.96

DM11/GM Division meeting for Geomorphology (GM)
Conveners: Peter van der Beek, Daniel Parsons
12:45–13:45, room G2

Friday, 12 April

DM9/GD Division meeting for Geodynamics (GD)
Convener: Paul Tackley
12:45–13:45, room D2

DM21/ST Division meeting for Solar-Terrestrial
Sciences (ST)
Conveners: Margit Haberreiter, Olga Malandraki
12:45–13:45, room L4/5

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Editorial board meetings of EGU journals

Monday, 8 April

EBM1 Editorial board meeting of Earth System Dynamics (ESD)
Convener: Axel Kleidon
19:00–20:00, room 3.16

EBM2 Editorial board meeting of Solid Earth (SE)
Convener: CharLotte Krawczyk
19:00–20:00, room 3.29

EBM14 Editorial Board Meeting of Geoscientific Instrumentation, Methods and Data Systems (GI)
Convener: Jothiram Vivekanandan
19:00–20:00, room 3.17

EBM15 Editorial Board Meeting of Earth Surface Dynamics (ESurf)
Convener: Tom Coulthard
19:00–20:00, room 3.30

Tuesday, 9 April

EBM19 Editorial board meeting Geochronology (GChron)
Convener: Andreas Lang
10:45–11:45, room 3.30

EBM3 Editorial board meeting of Nonlinear Processes in Geophysics (NPG)
Convener: Roger Grimshaw
12:45–13:45, room 3.16

EBM4 Editorial board meeting of Atmospheric Chemistry and Physics (ACP)
Convener: Ulrich Pöschl
12:45–13:45, room 3.29

EBM6 Editorial board meeting of The Cryosphere (TC)
Convener: Thomas Mölg
12:45–13:45, room 3.30

EBM8 Editorial board meeting of Ocean Science (OS)
Convener: John M. Huthnance
12:45–13:45, room 3.17

Wednesday, 10 April

EBM5 Editorial board meeting of Annales Geophysicae (ANGEO)
Convener: Christoph Jacobi
12:45–13:45, room 3.17

EBM7 Editorial board meeting of Natural Hazards and Earth System Sciences (NHESS)
Convener: Heidi Kreibich
12:45–13:45, room 3.16

EBM9 Editorial board meeting of Biogeosciences (BG)
Conveners: Michael Bahn, Katja Fennel, S. Wajih A. Naqvi, Anja Rammig
12:45–13:45, room 3.30

EBM16 Editorial Board Meeting of SOIL
Conveners: Lily Pereg (deceased), Johan Six
12:45–13:45, room 3.29

Thursday, 11 April

EBM10 Editorial board meeting of Atmospheric Measurement Techniques (AMT)
Convener: Thomas Wagner
12:45–13:45, room 3.30

EBM11 Editorial board meeting of Geoscientific Model Development (GMD)
Convener: Julia Hargreaves
12:45–13:45, room 3.17

EBM12 Editorial board meeting of Hydrology and Earth System Sciences (HESS)
Convener: Erwin Zehe
12:45–13:45, room 3.29

EBM13 Editorial Board Meeting of Climate of the Past (CP)
Convener: Denis-Didier Rousseau
12:45–13:45, room 3.16

EBM18 Editorial board meeting of Geoscience Communication (GC)
Convener: Sam Illingworth
12:45–13:45, room 3.47

EBM17 Editorial board meeting of Encyclopedia of Geosciences (EG)
Convener: Rolf Sander
19:00–20:00, room 3.17

Encyclopedia of Geosciences

A collection of scientific review articles



Editors

Martin Dameris, Rolf Sander, and Thomas von Clarmann

The Encyclopedia of Geosciences is a collection of peer-reviewed scientific review articles on topics relevant to the geosciences, published in the open-access journals of the European Geosciences Union (EGU), written by the experts of the field. It shall fill the gap between traditional review articles on the one hand and online encyclopaediae on the other. The subject area of the Encyclopedia of Geosciences is the entire field of geosciences including research on the atmosphere, hydrosphere, cryosphere, solid earth, and biosphere. The articles shall address readers with academic but not necessarily specialist background in science.

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- Biosphere
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- Cryosphere
- Lithosphere
- Overarching methodologies
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EGU Science Policy



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EGU division blogs – the latest about events, activities and research from EGU divisions – blogs.egu.eu/division



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EGU GENERAL ASSEMBLY 2019

ARTISTS IN RESIDENCE

Morgane Merlin



The Illustrator

[instagram.com/loulligdraws/](https://www.instagram.com/loulligdraws/)



Giorgo Skretis



The Sculptor

giorgoskretis.com



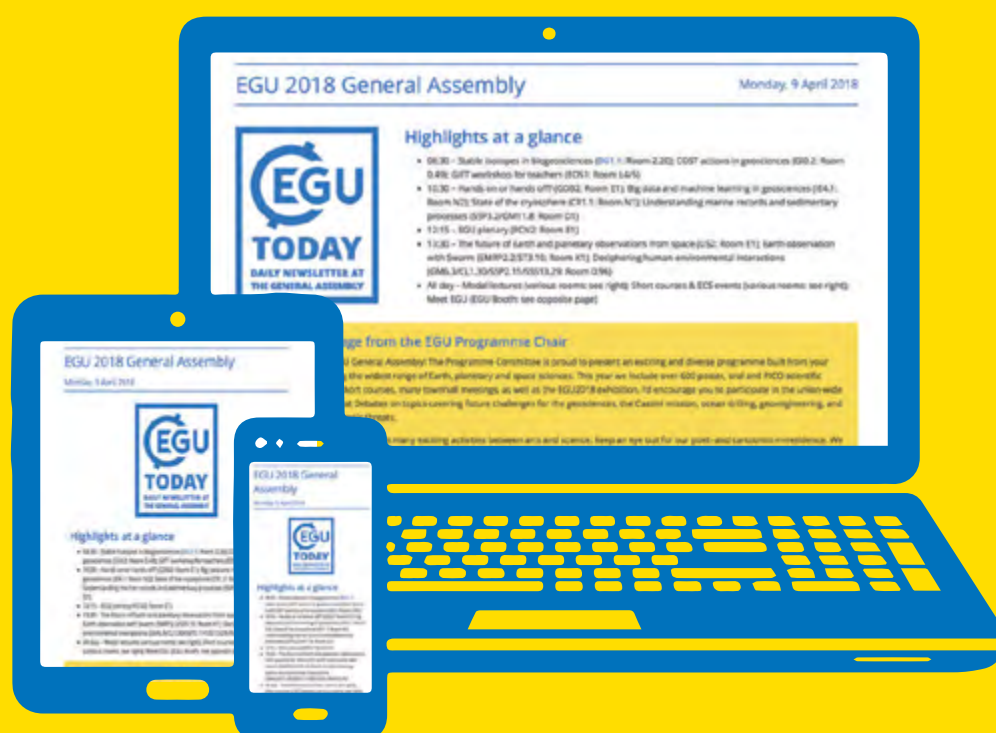
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www.egu.eu/newsletter



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- GENERAL ASSEMBLY UPDATES
- HIGHLIGHTS FROM EGU JOURNALS
- JOBS AND MEETINGS

and much more!



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Exhibition

EXPO

Opening hours

Monday, 10:00–19:00

Friday, 10:00–13:00

Locations

- Entrance hall (Yellow Level 0) #01–67
- Gallery (Green Level 1) #101–120
- Hall X2 (Brown Level -2) #X201–X217

Exhibitors by booth number

01	Copernicus Meetings & Publications
02, 03	ENVRI Community
04, 05	CAMECA / Camparis
06	MTA CSFK Geodetic and Geophysical Institute
07, 09	Cambridge University Press
08	AP2E
10	Beta Analytic
11	Scintec
12	Thermo Scientific
13	Muquans
14	Ecotech
15	Earth Science Research Promotion Center
16	IDS GeoRadar s.r.l.-Part of Hexagon
17	European Association of Geochemistry
18	GeoScienceWorld
19	ecoTech
20	Umwelt-Geräte-Technik GmbH
21	Kinematics
22	Picarro, Inc.
23	Güralp
24, 26	LI-COR Biosciences GmbH
25	IONICON
27	Elementar
28	Campbell Scientific
29	IBS Center for Climate Physics
30, 32	Springer Nature
31	Seismo Wave
33	IAS
34	Wiley
35	Frontiers
36, 37, 38	CTBTO Preparatory Commission
39	MathWorks
40	IOP Publishing
41	Copernicus DIAS WEKEO
42	Copernicus Marine Service
43	Air Liquide
44	AGICO
45	Stevens Water
46	Sercel
47	Orthodrone
48	CGMW - IUGS - UNESCO
49	Gill Instruments Ltd

50	Bartington Instruments Ltd
51, 53	Scientific Drilling IODP ICDP
52	PP Systems
54	Nanometrics
55	International Union of Soil Sciences
56	Onset
57	Gasmet
58	Schweizerbart Science Publishers
59	Aerodyne Research, Inc.
60, 61	Copernicus ECMWF
62, 63, 67	METER
64	Ref Tek
65	Metek
66	Geological Society of London
101	Isotopx
102	MK Versuchsanlagen
103	Society of Exploration Geophysicists
104	Seba Hydrometrie
105	R-sensors
106	EMODnet
107	EuroGeoSurveys
108	SSC / ESRANGE Space Center
109	Mag-Instruments
110	Dynamic Technologies DTCC
111	Cell Press
112, 113	EPOS ERIC
114	MEEQ
115	Esri
116	Nortek
117	Oxford University Press
118	ABB - Los Gatos Research
119	Earthquake Research Institute, University of Tokyo
120	World Wide Hydrological Predictions
X201	Google, Inc.
X202	European Geosciences Union (EGU)
X203	European Space Agency (ESA)
X204	NASA
X205	Asia Oceania Geosciences Society (AOGS)
X206	EAGE – European Association of Geoscientists and Engineers
X207	Japan Geoscience Union
X208	The Geological Society of America
X209, X210	AGU
X211	China University of Geosciences, Wuhan
X212	EUROFLEETS+
X213	Seabed 2030 hosted by British Oceanographic Data Centre (BODC)
X214	East China Normal University
X215	Earth Observatory of Singapore, NTU
X216	Saudi Society for Geosciences
X217	King Abdullah University of Science and Technology

Exhibitors alphabetically

EXPO	118	ABB - Los Gatos Research
	59	Aerodyne Research, Inc.
	44	AGICO
	X209, X210	AGU
	43	Air Liquide
	08	AP2E
	X205	Asia Oceania Geosciences Society (AOGS)
	50	Bartington Instruments Ltd
	10	Beta Analytic
	07, 09	Cambridge University Press
	04, 05	CAMECA / Camparis
	28	Campbell Scientific
	111	Cell Press
	48	CGMW - IUGS - UNESCO
	X211	China University of Geosciences, Wuhan
	41	Copernicus DIAS WEkEO
	60, 61	Copernicus ECMWF
	42	Copernicus Marine Service
	01	Copernicus Meetings & Publications
	36, 37, 38	CTBTO Preparatory Commission
	110	Dynamic Technologies DTCC
	X206	EAGE – European Association of Geoscientists and Engineers
	X215	Earth Observatory of Singapore, NTU
	15	Earth Science Research Promotion Center
	119	Earthquake Research Institute, University of Tokyo
	X214	East China Normal University
	14	Ecotech
	19	ecoTech
	27	Elementar
	106	EMODnet
	02, 03	ENVRI Community
	112, 113	EPOS ERIC
	115	Esri
	X212	EUROFLEETS+
	107	EuroGeoSurveys
	17	European Association of Geochemistry
	X202	European Geosciences Union (EGU)
	X203	European Space Agency (ESA)
	35	Frontiers
	57	Gasmet
	66	Geological Society of London
	18	GeoScienceWorld
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	33	IAS

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40	IOP Publishing
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X207	Japan Geoscience Union
21	Kinematics
X217	King Abdullah University of Science and Technology
24, 26	LI-COR Biosciences GmbH
109	Mag-Instruments
39	MathWorks
114	MEEQ
65	Metek
62, 63, 67	METER
102	MK Versuchsanlagen
06	MTA CSFK Geodetic and Geophysical Institute
13	Muquans
54	Nanometrics
X204	NASA
116	Nortek
56	Onset
47	Orthodrone
117	Oxford University Press
22	Picarro, Inc.
52	PP Systems
64	Ref Tek
105	R-sensors
X216	Saudi Society for Geosciences
58	Schweizerbart Science Publishers
51, 53	Scientific Drilling IODP ICDP
11	Scintec
X213	Seabed 2030 hosted by British Oceanographic Data Centre (BODC)
104	Seba Hydrometrie
31	Seismo Wave
46	Sercel
103	Society of Exploration Geophysicists
30, 32	Springer Nature
108	SSC / Esrange Space Center
45	Stevens Water
X208	The Geological Society of America
12	Thermo Scientific
20	Umwelt-Geräte-Technik GmbH
34	Wiley
120	World Wide Hydrological Predictions

Exhibitor descriptions

118



ABB - Los Gatos Research

<http://www.lgrinc.com>

Since 1994, Los Gatos Research -member of ABB group- creates scientific instruments for leading-edge research, air quality monitoring, greenhouse gas and isotopic measurements. The ABB LGR instruments come in various packaging, from benchtop and industrial rackmount to compact battery-operated analyzers for field measurements. They have been widely deployed on all continents for high precision and reliable gas measurements, allowing environmental and geophysical scientists to benefit from their performance and ruggedness.

EXPO

59



Aerodyne Research, Inc.

<http://www.aerodyne.com>

ARI produces instrumentation for measuring trace gases and aerosols with fast time response and high sensitivity. Our instruments are used in research and monitoring applications on ground and mobile (truck, ship, aircraft) platforms for measuring atmospheric pollutants, VOCs, combustion and industrial emissions. These instruments include our IR laser trace gas monitors (TILDAS), ToF-CIMS, VOCUS PTR-ToF, CAPS-NO2, PM extinction and absorbance monitors as well as our AMS and ACSM.

44



AGICO

<http://www.agico.com>

AGICO (Advanced Geoscience Instruments Company) situated in Brno, Czech Republic, is one of the most respected world producers of scientific instruments for rock magnetism, palaeomagnetism and environmental magnetism. AGICO instruments enable measurement of remanent magnetization, AF demagnetization, measurement of magnetic susceptibility and anisotropy of low-field magnetic susceptibility, measurement of frequency-dependent magnetic susceptibility, investigation of temperature variation of bulk susceptibility, investigation of anisotropy of isothermal and anhysteretic magnetic remanence.

X209, X210



AGU

<https://sites.agu.org/>

AGU is an international nonprofit, scientific organization representing nearly 60,000 members across the globe. Our members encompass research on everything from the exploration of the planets to studies of the structure and chemical composition of Earth's deep interior to understanding Earth's atmosphere and the causes of climate change.

43



Air Liquide

<http://isotope.airliquide-expertisecenter.com/>

Air Liquide - Isotopic Analysis: Stable isotope ratio reference gases, enhance reliability of analysis with precise calibration to measure critical delta values accurately. Air Liquide offers stable isotope ratio reference gases with high analytical accuracy, required compositions and targeted isotopic signatures. The five most commonly used elements (C, O, H, N, and S) in stable isotope research are currently available with a large range of isotopic ratios.

08



AP2E

<https://ap2e.com>

AP2E develops and manufactures innovative online gas analysis systems for scientific and industrial applications. The new OFCEAS technology for low-pressure analysis and approach (LPS) for fast and non-condensing sample transport allows AP2E to offer the process industry complete and customized solutions that are well beyond the usual performance, with accurate analysis, fast response time, ideal measurement stability and a unique ability to measure aggressive substances.

EXPO

X205



Asia Oceania Geosciences Society
www.asiaoceania.org

Asia Oceania Geosciences Society (AOGS)

<http://www.asiaoceania.org/>

AOGS mission is to promote geophysical sciences for the benefit of humanity in Asia and Oceania.

AOGS regularly exhibits at the AGU, EGU and JPGU and also collaborates to organize regional activities. The AOGS-EGU Joint Conference on New Dimensions for Natural Hazards in Asia is one such activity.

It is a means for fostering meaningful connections and to leverage subject matter expertise. Visit the AOGS Exhibition Booth to connect in person!

50

**Bartington Instruments Ltd**

<http://bartington.com>

Bartington Defence & Space is a world leader in the design and manufacture of high precision, low noise fluxgate magnetometers. Our magnetometers, magnetic gradiometers, and data acquisition units, are widely used in magnetic signature and degaussing ranges. Sensors from our range can be integrated as part of magnetic anomaly detection platforms.

We also offer a range of Helmholtz coils systems for calibration of magnetometers.

10

**Beta Analytic**

<http://www.radiocarbon.com>

Beta Analytic is an ISO 17025-accredited carbon-14 dating and stable isotope laboratory with a standard turnaround time of 14 business days for AMS dating. Expedited services are available (2-6 business days). All analyses are performed in-house by professional scientists. Multiple instruments ensure redundancy and dependable delivery. Respected worldwide for accuracy, quality, and customer care. Results are accessible 24/7 via web access. Convenient shipping to our multiple forwarding facilities.

07, 09

**Cambridge University Press**

<http://www.cambridge.org/academic>

Cambridge University Press is a not-for-profit organisation that dates from 1534 and is part of the University of Cambridge. Our mission is to unlock people's potential with the best learning and research solutions by combining state-of-the-art content with the highest standards of scholarship, writing and production. Visit our stand to browse new publications (available for purchase at 20% discount) and pick up some free journals.

04, 05

**CAMECA / Camparis**

<http://www.cameca.com>

Joint booth for CAMECA, internationally acclaimed scientific instrument maker, and CAMPARIS, prestigious geoscience research lab:

- CAMECA supports the geoscience community with high-end tools for elemental and isotopic microanalysis: Electron Probe MicroAnalyzers (EPMA), Secondary Ion Mass Spectrometers (SIMS), the unique NanoSIMS 50L, 3D Atom Probe Tomography microscopes;
- CAMPARIS is a world-leading Electron Probe MicroAnalysis laboratory located at Sorbonne University focusing on all aspects of mineralogy, geo / cosmochemistry, environmental studies...

28

**Campbell Scientific**

<https://www.campbellsci.co.uk>

Campbell Scientific equipment is the trusted heart of critical systems globally, transforming accurate and reliable measurement data into actionable insight. We are a leading designer and manufacturer of data loggers, data acquisition systems, and measurement and control products used worldwide in a variety of applications related to weather, water, energy, gas flux and turbulence, infrastructure, and agriculture.

111

EXPO

**Cell Press**
<https://www.cell.com>

Cell Press is a leading publisher of scientific research and reviews in life, physical, and earth sciences. With a commitment to improving scientific communication, Cell Press combines the highest-quality science with innovations in technology and publishing practices. Meet us at booth 111 to learn about our new journal – One Earth, the home for high-quality research that breaks down barriers and encourages collaboration in environmental change and sustainability science.

48

**CGMW - IUGS - UNESCO**
<http://www.cgmw.org>

CGMW is a non-profit international association whose members are the Geological Surveys of all countries. Its aims are the coordination and publication of synthetic Earth sciences maps, at small scale, of continental and/ or oceanic areas of the World, and the only existing Earth Geological Globe. CGMW is affiliated to the International Union of Geological Sciences (IUGS) and the International Union of Geodesy and Geophysics (IUGG).

X211

**China University of Geosciences, Wuhan**
<http://en.cug.edu.cn>

Over our 67-year history, China University of Geosciences has grown into a dynamic university which enjoys a good reputation and carries on a historic mission. CUG has cultivated over 100,000 graduates. Many of them have become outstanding scholars, important statesmen and excellent athletes. China's former Premier Wen Jiabao and 30 academicians of the Chinese Academy of Science are just some of CUG's exceptional representatives.

41

**Copernicus DIAS WEKEO**
<https://www.mercator-ocean.fr/>

The WEKEO DIAS platform is powered by EUMETSAT, ECMWF and MERCATOR OCEAN. It facilitates access to Copernicus data and information from the Copernicus services. By providing data and information access alongside processing resources, tools and other relevant data, this initiative is expected to boost user uptake, stimulate innovation and the creation of new business models based on Earth Observation data and information.

60, 61

**Copernicus ECMWF**
<http://copernicus.eu/>

Twitter: @CopernicusECMWF

Copernicus, Europe's flagship Earth Observation programme, delivers freely accessible information on environmental issues. Entrusted by the European Commission, the European Centre for Medium-Range Weather Forecasts (ECMWF) operates two key parts – the Copernicus Atmosphere Monitoring Service (CAMS) and the Copernicus Climate Change Service (C3S) – and contributes to the Copernicus Emergency Management Service.

42

**Copernicus Marine Service**
<https://www.mercator-ocean.fr/>

The Copernicus Marine Environment Monitoring Service is part of the EU Copernicus Programme. It provides regular information about the physical state and dynamics of the ocean and marine ecosystems for the global ocean and the European regional seas. This data covers analysis of the current situation, forecasts of the situation a few days in advance and the provision of retrospective data records (re-analysis). It supports marine applications and EU policies.

EXPO

01

**Copernicus Meetings & Publications**
<https://www.copernicus.org>

Copernicus is celebrating its 25th anniversary as a scientific publishing house, is proud of 18 years of open-access publishing and Interactive Public Peer-Review™, and has been an early adopter and eager advocate of open science. Today, Copernicus publishes 42 peer-reviewed journals. Furthermore, Copernicus has organized scientific conferences and exhibitions since 1988 and offers, in particular, services and applications for abstract and programme management as well as registration management. It has been Copernicus' pleasure collaborating with associations like the EGU on these innovative issues.

36, 37, 38

**CTBTO Preparatory Commission**
<http://www.ctbto.org>

The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) is tasked with establishing and maintaining a verification regime to ensure that no nuclear explosion goes undetected. An International Monitoring System consisting of 337 facilities is around 90% complete and constantly monitors the oceans, underground and the atmosphere. The data can also be used for disaster mitigation such as tsunami warning, tracking radioactivity from nuclear accidents, and a wide range of other scientific applications.

110

**Dynamic Technologies DTCC**
<https://dtcc.biz/>

The DTCC Group was formed in 1999, with its headquarters located in Calgary, Canada. It is a manufacturer of vibration sensing and measuring equipment. This equipment, which uses "Internet of Things" technology, is designed for use in unusual and challenging environments.

X206

**EAGE – European Association of Geoscientists and Engineers**
<https://prod.eage.org/>

EAGE is a professional association for geoscientists and engineers. It is an organization with a worldwide membership, providing a global network of about 19,000 professionals and students. The association is truly multi-disciplinary and international in form and pursuits. EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division.

X215

**Earth Observatory of Singapore, NTU**
<https://www.earthobservatory.sg>

The Earth Observatory of Singapore is an institute for geohazard research, focusing on tectonics, volcanoes, climate change and risk in and around Southeast Asia. Situated at Nanyang Technological University, the Observatory is committed to acquiring knowledge of these natural hazards, passing this information on to at-risk communities by contributing to forecasts of such natural phenomena, and helping them adapt to these challenges.

15

**Earth Science Research Promotion Center**
<http://esrpc.ncu.edu.tw/public/tw>

The Taiwan Earth Science Research Promotion Center (ESRPC) is operated under the Ministry of Science and Technology, Taiwan. Our primary mission is to promote advanced and international-collaborative research in Earth Science related disciplines, including Geology, Geophysics, Oceanography, Atmospheric and Space Sciences, Hazard Reduction and Prevention, Sustainable Development, and Geospatial Information Technology. The ESRPC supports visiting scholars to Taiwan and sponsors scientific conferences held in Taiwan.

119



Earthquake Research Institute, University of Tokyo

<http://www.eri.u-tokyo.ac.jp/en/>

Earthquake Research Institute, University of Tokyo, Japan, is the largest university institute for Solid Earth Science in our country, and is one of the oldest and renowned of its kind in the world with over 80 top-notch academics. We deal with: earthquake, tsunami, volcano, and Earth's interior.

X214



East China Normal University

<http://english.ecnu.edu.cn/>

East China Normal University (ECNU) is recognized as one of Shanghai's top public research universities under the patronage of the Ministry of Education, and is included in China's national education projects, "Project 211" and "Project 985".

14



Ecotech

<http://www.ecotech.com>

At ECOTECH, problem solving is in our DNA. For over 40 years we have pioneered innovative solutions in environmental monitoring for air, water, gas, blast, particulate and dust. Headquartered in Australia, we now operate in more than 80 countries, manage over 440 real-time environmental monitoring sites and are certified to internationally recognised quality standards. ECOTECH is part of the ACOEM Group.

19



ecoTech

<http://www.ecotech-bonn.de>

We are an experienced team of committed scientists, engineers and technicians. For 35 years we have developed, produced and supplied measuring and monitoring systems for the collection of water, soil and air data. Expert advice with the best possible client service is our philosophy.

27



Elementar

<http://www.elementar.de>

Elementar offers the most dynamic range of elemental analyzers and stable isotope analyzers for the determination of the non-metal elements carbon, hydrogen, nitrogen, sulfur, oxygen and halogens. Incorporating over 110 years of innovation and development into a technology-leading comprehensive product portfolio, Elementar targets the needs of many market sectors including Environmental, Agriculture, Fuels, Materials, Chemical Research and Forensics.

106



EMODnet

<http://www.emodnet-geology.eu/>

EMODnet (European Marine Observation and Data network) is a network of more than 150 organisations working together to observe the sea, process the data according to international standards and make that information freely available online. The EMODnet Geology project produces spatial datasets on geological characteristics of European sea basins, e.g. information on seabed substrate, sediment accumulation rates, seafloor geology, coastline migration, mineral resources, geological events and submerged landscapes.

EXPO

02, 03

**ENVRI Community**
<https://www.icos-ri.eu/>

ENVRI is a community of European environmental research infrastructures that are providing data and services to address the global challenges.

112, 113

**EPOS ERIC**
<http://www.epos-eu.org>

EPOS-European Plate Observing System, is a pan-European research infrastructure for solid Earth science aiming at integrating data and services into one single system for a better understanding of Earth dynamics. On October 30th 2018, the European Commission granted the legal status of ERIC to EPOS. This provides the infrastructure with a legal structure that also brings administrative advantages, thus contributing to the long-term sustainability of EPOS Delivery Framework. www.epos-ip.org

115

**Esri**
<https://www.esri.com/>

Esri applies The Science of Where to unlock data's full potential in every organization. We continue to pioneer real-world problem solving using geographic information systems (GIS). Our mapping and analytics connect everyone, everywhere through a common visual language that inspires positive change in industry and society.

Using this powerful platform to reveal deeper insights in their data, Esri users are creating the maps that run the world.

X212

**EUROFLEETS+**
<http://www.eurofleets.eu>

EurofleetsPlus facilitates open access to 27 state-of-the-art research vessels and marine equipment from European and international partners, a set designed to meet the needs of the user community. European and international researchers from academia and industry will be able to apply for several access programmes, through a single-point entry-system. EurofleetsPlus will prioritise support for research on sustainable, clean and healthy oceans, linking with existing ocean observation infrastructures, and innovation.

107

**EuroGeoSurveys**
<http://www.eurogeosurveys.org>

EuroGeoSurveys (EGS), The Geological Surveys of Europe, is a not-for-profit organisation representing 37 National Geological Surveys and some regional Surveys in Europe, an overall workforce of several thousand experts. EGS members, the National Geological Surveys, are public sector institutions carrying out operations and research in the field of geosciences. These organisations have been for years collecting data, preparing information and conducting research focused on their national subsurface.

17

**European Association of Geochemistry**
<http://www.eag.eu.com/>

The European Association of Geochemistry is a non-profit association dedicated to promoting geochemistry through the Goldschmidt Conference, publications, awards, outreach and the support of early career scientists.

X202

European Geosciences Union (EGU)<https://www.egu.eu/>

The European Geosciences Union (EGU) is Europe's premier geosciences union, dedicated to the pursuit of excellence in the Earth, planetary, and space sciences for the benefit of humanity, worldwide. The Union has about 15,000 members and organises a General Assembly that attracts over 14,000 scientists each year. The EGU publishes a number of diverse scientific journals, which use an innovative open access format, and organises a number of topical meetings, and education and outreach activities.

EXPO

X203

European Space Agency (ESA)<http://www.esa.int/ESA>

The European Space Agency is Europe's gateway to space. Its mission is to shape the development of Europe's space capability and ensure that investment in space delivers benefits to the citizens of Europe and the world. ESA is an international organisation with 22 Member States. By coordinating the financial and intellectual resources of its members, it undertakes programmes and activities far beyond the scope of any single European country.

35

Frontiers<https://www.frontiersin.org/>

Frontiers is an award-winning Open Science platform and leading Open Access scholarly publisher. Our mission is to make high-quality, peer-reviewed research articles rapidly and freely available to everybody in the world, thereby accelerating scientific and technological innovation, societal progress and economic growth.

57

Gasmet<http://www.gasmet.com>

Our mission is to provide solutions that help improve the air quality, protect the environment, help in the fight against climate change, and save lives. Gasmet is a Finnish high technology company that develops, manufactures and markets FTIR gas analyzers and monitoring systems for variable industrial, environmental and safety applications. In the field of gas analysis, our company have established a global reputation for innovative, customer-driven and reliable solutions.

66

Geological Society of London<http://www.geolsoc.org.uk>

The Geological Society of London is a learned society and professional body for geosciences providing a wide range of professional and scientific support to its 12,000 fellows. As well as boasting one of the most important geological libraries in the world, the Geological Society is a global leader in Earth science publishing, and is renowned for its cutting edge science meetings.

18

GeoScienceWorld<http://geoscienceworld.org>

GeoScienceWorld (GSW) is a nonprofit collaborative and comprehensive Internet resource for research and communications in the earth sciences, which is built on a core database of peer-reviewed journals and is integrated with the GeoRef index. The organization gives global researchers a single point of access to 46 full-text scholarly journals and 2,000 plus eBooks. Plus specialized searching capabilities and links to millions of relevant resources hosted elsewhere on the Web.

EXPO

49

**Gill Instruments Ltd**
<http://gillinstruments.com>

Gill Instruments manufacture instrumentation for meteorological observations, including the world's largest range of ultrasonic anemometers and a wide variety of integrated and expandable weather stations. Gill instrumentation is broadly used in Eddy Covariance systems and to provide supportive meteorological data. Gill has over 30 years' experience in the field of ultrasonic flow measurement and our reputation is built on reliable, robust, reference quality products for even the most extreme environments.

X201

**Google, Inc.**
<https://earthengine.google.com/>

Google Earth Engine combines a multi-petabyte catalog of satellite imagery and geospatial datasets with planetary-scale analysis capabilities and makes it available for scientists, researchers, and developers to detect changes, map trends, and quantify differences on the Earth's surface.

23

**Güralp**
<http://www.guralp.com>

Güralp has been designing and manufacturing revolutionary, force-feedback broadband seismic instrumentation for more than thirty years. Our sensors are used worldwide by academic, public, governmental and private organisations to understand and explore our world. Our digital and analogue instruments measure seismic signals of all kinds, from teleseismic events occurring on the other side of the planet; to local strong motion earthquakes; to induced microseismic events.

33

**IAS**
<https://www.sedimentologists.org>

The International Association of Sedimentologists (IAS) is an international non-profit organization, that was founded in 1952, to promote the study of Sedimentology by i) publication, discussion and comparison of research results, ii) encouraging the interchange of research, particularly where international cooperation is desirable, and iii) promoting integration with other disciplines.

29

**IBS Center for Climate Physics**
<http://iccp.ibs.re.kr/>

The IBS Center for Climate Physics (ICCP) was established in January, 2017 as the first Earth Science center within the Institute for Basic Science (IBS). ICCP seeks to expand the frontiers of earth system science by conducting cutting edge research into climate dynamics and utilizing high-performance computer simulations, with the goal of improving decadal earth system forecasts and longterm projection.

16

**IDS GeoRadar s.r.l.-Part of Hexagon**
<https://idsgeoradar.com/>

IDS GeoRadar is the world's multi-frequency, multi-channel Ground Penetrating Radar (GPR) solution provider whose brand is synonymous with investigation of any kind of subsurface. IDS GeoRadar is committed to delivering best-in-class performance solutions and the pursuit of product excellence, through the creation of application-specific, innovative and cost efficient products. IDS GeoRadar develops solutions for a wide range of applications including utility, civil and road engineering, geology and environment management.

55



International Union of Soil Sciences

International Union of Soil Sciences

<https://www.iuss.org>

The International Union of Soil Sciences (IUSS) is the global union of soil scientists. The objectives of the IUSS are to promote all branches of soil science, and to support all soil scientists across the world in the pursuit of their activities. This booth is shared with the European Confederation of Soil Science Societies, the German Soil Science Society and the British Society of Soil Science.

25



IONICON

<http://www.ionicon.com>

We are the world's leading producer of real-time trace gas analyzers based on Proton Transfer Reaction – Mass Spectrometry (PTR-MS), offering a market-leading detection limit < 1 pptv for VOCs. We also manufacture modular time-of-flight mass spectrometers for academic research & OEM as well as sampling systems for aerosol and particulate matter (CHARON), calibration devices and a fastGC interface for PTR-TOFMS. We supply integrated VOC monitoring systems to various industries.

40

IOP Publishing

IOP Publishing

<http://iopublishing.org>

IOP Publishing is a society-owned scientific publisher, providing impact, recognition and value for the scientific community.

Wholly owned by the UK Institute of Physics, we work closely with researchers, academics, and partners worldwide to produce academic journals, ebooks, conference series, and digital products, covering the latest and best research in the physical sciences and beyond.

101

Isotopx

Isotopx

<https://www.isotopx.com>

Isotopx designs and manufactures Thermal Ionization and Noble Gas Mass Spectrometers.

X207

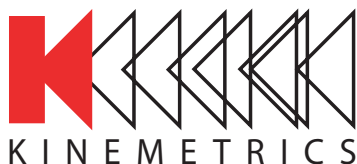


Japan Geoscience Union

<http://www.jpгу.org/en/index.html>

Japan Geoscience Union (JpGU) is a multidisciplinary geoscience organization promoting excellence in all fields of earth and planetary science. JpGU strengthens the relationships with EGU, AGU and AOGS, and will hold the JpGU Meeting 2019 from May 26th to 30th, welcoming a lot of international participants. JpGU also publishes an open access e-journal, Progress in Earth and Planetary Science (PEPS) and supports a sister journal, Earth, Planets and Space (EPS).

21



Advancement through Innovation

Kinemetrics

<http://www.kinemetrics.com>

Kinemetrics is the world leader in the innovative design, quality manufacturing and timely supply of earthquake monitoring equipment, systems and solutions, where reliability, flexibility and cost effectiveness are important. Kinemetrics has almost 50 years of experience in providing seismologists and structural engineers with the highest standard instrumentation www.kinemetrics.com "Advancement Through Innovation"

EXPO

X217

جامعة الملك عبد الله
للعلوم والتقنية
King Abdullah University of
Science and Technology



King Abdullah University of Science and Technology

<http://ces.kaust.edu.sa>

King Abdullah University of Science and Technology is a graduate-level university that advances science and technology through interdisciplinary research, education, and innovation. Founded in 2006, KAUST opened its doors 2009. Located at the Red Sea in Saudi Arabia, KAUST offers superb research facilities and assured research funding. The university attracts top faculty, scientists, and students to conduct fundamental and applied research related to sustainability of water, food, energy, and environment.

24, 26



LI-COR Biosciences GmbH

<http://www.licor.com>

LI-COR develops scientific instruments that help researchers answer novel questions. LI-COR produces eddy covariance systems and software that provide comprehensive tools to collect and evaluate long-term gas exchange datasets, high-precision laser-based trace gas analyzers for atmospheric monitoring and soil gas exchange measurements, and soil gas exchange systems that compute the fluxes of any gas from soil. LI-COR instruments and software bring out the most meaningful, reproducible data and results.

109



Mag-Instruments

<http://www.mag-instruments.com>

Mag-Instruments UG is a company founded by specialists in geophysics and robotics to bring state-of-the-art technology into magnetic measurements. We develop and manufacture high quality equipment for laboratory and field measurements of magnetic properties of materials, biological matter and rocks. We also offer a CUSTOM DESIGN of instruments for our customers.

39



MathWorks

<https://www.mathworks.com>

MATLAB and Simulink are fundamental computation tools used at more the 5,000 educational institutions worldwide. MATLAB is one of the top 10 most popular programming languages and is used for teaching, research, and project-based learning. Add MATLAB and Simulink to the classroom to inspire critical thinking and innovation as well as prepare students for prominent careers in industry, where the tools are the de facto standard for R&D. Visit mathworks.com

114



MEEO

<http://www.meeo.it>

ADAM (www.adamplatform.eu) is a platform that implements the Digital Earth Concept, making available a large set of multi-year global environmental collections allowing data discovery, visualisation, combination, processing and download. ADAM is a "horizontal" layer to support a large variety of vertical (thematic) applications such as climate change monitoring and mitigation, cultural heritage safeguard, air quality assessment and monitoring, agricultural applications and (re-)insurance in agriculture, security applications, education, and many others

65



Metek

<http://www.metek.de>

Metek GmbH manufactures modern meteorological measuring systems and sensors and delivers them to destinations worldwide: The multi-path ultrasonic anemometer uSonic-3 MP for optimum eddy-covariance measurements, the classic ultrasonic anemometers uSonic-1-2-3, the new Doppler Lidar wind sensor Wind Scout, SODAR PCS.2000/RASS for wind/temperature profiling, micro rain radars MRR-2 and MRR-PRO for precise vertical rain rate monitoring, and the MIRA-35 cloud radar for cloud tomography in vertical or full hemisphere scanning.

62, 63, 67

**METER****METER**
<https://www.metergroup.com>

Through the power of our employees, METER combines science, engineering and design to develop smart and easy to use products and services which enable our customers to get precise information and address meaningful problems.

EXPO

102

**MK Versuchsanlagen**
<https://www.mk-versuchsanlagen.de>

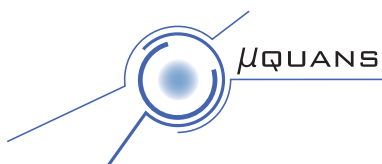
"Contamination-free sample preparation due to metal-free cleanroom technology. Our corrosion-protected and particle-free workstations are characterised by their modular design. Perfectly combined, your individual working environment can be put together. The metal-free design enables contamination-free sample preparation at the highest level, for example for trace analysis or semiconductor research. In addition to horizontal laminar flow systems, we also develop and design vertical laminar flow systems."

06

**MTA CSFK Geodetic and Geophysical Institute**
<http://www.ggki.hu/>

100th anniversary of the death of Eötvös Loránd (Roland, baron von Eötvös, 1848-1919), physicist, geophysicist, and innovator of higher education is commemorated throughout 2019 worldwide, in association with UNESCO and Hungary. Eötvös is remembered today largely for his work on gravitation (Eötvös experiment, Eötvös torsion balance, Eötvös effect) and surface tension. He was Academy President, Rector, Minister, alpinist, and many more. His stereo-slides are presented digitally by MTA CSFK GGI.

13

**Muquans**
<http://www.muquans.com>

Muquans is a French company which commercially provides the world's first absolute gravimeter and atomic clock based on laser-cooled atoms and high-precision quantum measurement. Muquans is a spin-off from Observatoire de Paris (LNE-SYRTE) and Institut d'Optique, where the core of the technology has been developed for more than 15 years of academic research. Since 2011, Muquans has built a highly-experienced team of 27 scientists, engineers, and technicians.

54

**Nanometrics**
<http://www.nanometrics.ca>

For over 30 years, Nanometrics has provided award-winning monitoring solutions and equipment for studying man-made and natural seismicity. Nanometrics delivers world-class network design, installation and training services throughout the globe in a safety conscious environment that is utilized by the world's leading scientific institutions, universities and major corporations.

X204

**NASA**
<https://svs.gsfc.nasa.gov/hw>

NASA Earth System Science conducts and sponsors research on global climate and environmental change and its consequences for life on Earth. Our observations from space help to identify the sources of change in the Earth system, their magnitude and trends, and how the Earth system will change in the future.

EXPO

116

**Nortek**
<https://www.nortekgroup.com>

Nortek designs, develops and produces scientific instruments that apply the Doppler principle to underwater acoustics in order to measure water in motion, such as currents and waves. These instruments are used by scientists, researchers and engineers at institutions and government agencies worldwide. They are employed in demanding environments that require state-of-the-art instrumentation that is reliable and easy to use.

56

**Onset**
<http://www.onsetcomp.com>

Onset HOBO® data loggers and weather stations measure and record environmental conditions like temperature, wind speed, rainfall, and soil moisture. Visit Booth 56 and check out the new HOBOnet Field Monitoring System, our cost-effective, scalable solution that uses wireless sensors for web-enabled monitoring of research sites. Based in Massachusetts, USA, Onset has been designing and manufacturing its products on site since the company's founding in 1981. Visit Onset at <http://www.onsetcomp.com>.

47

**Orthodrone**
<https://www.orthodrone.de>

We offer worldwide aerial services for your research, from simple survey support to multi-year projects. Based on UAS with (multi-)spectral and LiDAR technology, we are your versatile, reliable partner for surveying, modelling and surface analyses. With research backgrounds in photogrammetry, geography, coastal sciences and agriculture, our professional analysts and pilots gather and process the data you require: from crop analyses and coastal protection in Northern Europe to expeditioning the Andes Mountains.

117

**Oxford University Press**
<http://www.oup.com>

Oxford University Press is the largest university press in the world, publishing in 70 languages and 190 countries. Come visit us at booth #117 to get 30% off listed titles.

22

**Picarro, Inc.**
<http://picarro.com>

Picarro is the world's leading provider of stable isotope and gas concentration measurement systems for many scientific applications. The ultra-precise and easy-to-use instruments are deployed across the globe offering unmatched performance and enabling scientists around the world to measure GHGs, trace gases and stable isotopes found in the air, water, and land.

52

**PP Systems**
<http://ppsystems.com>

Check out the latest, all-in-one CLUX-1 Soil CO₂ Flux System with built-in CO₂/H₂O gas analyzers for long-term, unattended field operation. No multiplexing required! The popular EGM-5 Portable CO₂ Gas Analyzer will be on display with chambers for soil and canopy flux. See how our truly mobile CIRAS-3 Portable Photosynthesis & Chlorophyll Fluorescence System and game-changing high-speed CO₂ ramping technique is helping researchers quickly and easily perform rapid, accurate A/Ci measurement.

64

**Ref Tek**
<http://www.reftek.com>

REF TEK, a Trimble brand, provides monitoring systems for earthquake early warning, hazard mitigation, emergency response assessment, building code regulations as well as oil, gas and mining operations. Our accurate and robust broadband seismic recorders, seismometers, accelerometers and strong motion recorders are relied upon by scientists and engineers all over the world. All REF TEK products are supported by our trustworthy service and support team. To learn more visit www.reftek.com.

EXPO

105

R•sensors

R-sensors
<http://www.r-sensors.ru>

R-sensors is a Russian manufacturer of seismic instruments including seismometers, accelerometers, geophones, data loggers.

Since 2004, R-sensors has been working with scientific institutions and seismological and geophysical organizations to provide high-sensitive rugged instruments.

R-sensors' instruments are used both in Russia, Europe and Asia.

X216

**Saudi Society for Geosciences**
<http://geoscience.org.sa/en>

The Saudi Society of Geosciences is a scientific society established in 1981 at King Saud University, Riyadh, Saudi Arabia aiming to develop and exchange scientific knowledge as well as enhance professional performance among the geoscientists and other relevant institutions. SSG encourages conducting research and holds annual symposia, seminars and workshops. In 2008, SSG launched the prestigious ISI journal "Arabian Journal of Geosciences (AJGS)" which is published bimonthly by SPRINGER.

58



**Schweizerbart
Borntraeger**

Schweizerbart Science Publishers
<http://www.schweizerbart.de>

Schweizerbart and Borntraeger publish and distribute printed and electronic scholarly journals, book series and monographs in the Earth- and environmental sciences, aquatic ecology, botany, anthropology and zoology.

We are privately owned, independent and operated by scientists.

51, 53

**Scientific Drilling IODP ICDP**
<http://www.ecord.org>

IODP and ICDP are international science research programmes providing unique opportunities to scientists to be part of expeditions and projects all over the world.

11

**Scintec**
<http://www.scintec.com>

Scintec produces the most advanced and comprehensive line of wind and temperature profilers in SODAR, RADAR and RASS technology. Continuing scientific innovation, outstanding product design and customer oriented philosophy has made Scintec a global leader in this field. Scintec also offers optical SCINTILLOMETERS for the measurement of boundary layer turbulence and heat flux. Customers include research institutes and universities, the military, major airports, and weather services worldwide. Scintec is ISO9001 certified.

EXPO

X213

**Seabed 2030 hosted by British Oceanographic Data Centre (BODC)**
<https://www.bodc.ac.uk/>

The Nippon Foundation – GEBCO Seabed 2030 Project is a collaborative project between The Nippon Foundation and GEBCO. Seabed 2030 will bring together all available bathymetric data to produce the definitive map of the world ocean floor by 2030 and make it available to all. It builds on more than 100 years of GEBCO's history in global seafloor mapping.

104

**Seba Hydrometrie**
<http://www.seba-hydrometrie.com>

Fast, precise and high-resolution - this is our motto. In close cooperation with our partners, W.A.S, Braunschweig and Teledyne RDI, San Diego, for nearly 50 years now, SEBA Hydrometrie has been offering metrological solutions that cover virtually the entire range of hydrometric applications in the areas of surface water, groundwater, water quality and meteorology. From the measured value logging, storage and transmission to evaluation: Everything from a single source.

31

**Seismo Wave**
<http://seismowave.com>

Seismo Wave commercializes the last infrasound design of the French CEA, the MB3a and MB3d. Together with its partner Enviroearth, it provides infrasound related products and services : sensors, WNRS, power & data transmission, installation, training, metrology. Our sensors are able to detect and monitor a wide range of natural et human-made phenomena such as tornadoes, volcanoes, earthquakes, tsunamis, nuclear explosions, wind turbines or quarry blasts.

46

**Sercel**
<http://www.sercel.com>

As the world's leading designer and manufacturer of innovative seismic equipment and reservoir monitoring instruments, Sercel provides oil field service companies and geophysical contractors with the widest range of leading-edge technologies for exploration in many different environments.

Employing more than 1,500 people worldwide, Sercel's main sales offices are located in Houston (USA) and Nantes (France).

103

**Society of Exploration Geophysicists**
<https://seg.org>

The Society of Exploration Geophysicists is committed to connecting and inspiring the people and science of applied geophysics. With more than 20,000 members in 128 countries, SEG provides educational and technical resources to the global geosciences community through publications, books, events, forums, professional development courses, young professional programs, and more.

30, 32

**Springer Nature**
<http://www.springernature.com>

Springer Nature is a leading research, educational and professional publisher, providing quality content to our communities through a range of innovative platforms, products and services. Every day, around the globe, our imprints, books, journals and resources reach millions of people – helping researchers, students, teachers and professionals to discover, learn and achieve more.

108

**SSC / Esrange Space Center**
<http://www.sscspace.com>

SSC - Swedish Space Corporation - is a leading global provider of advanced space services with more than fifty years of experience. We are a full-service supplier of state-of-the-art space engineering, satellite and launch services to commercial and institutional customers worldwide. At Esrange Space Center we provide sounding rocket and stratospheric balloon launches for scientific and commercial missions, as well as space for ground measurement instruments in an undisturbed environment.

45

**Stevens Water**
<http://www.stevenswater.com>

Stevens Water Monitoring Systems, Inc. is a manufacturer and marketer of integrated hydrological, meteorological and oceanographic monitoring instrumentation, accessories and information systems that help optimize water resource management and enhance forecasting. Our focus is the earth's valuable water resources, in every form it occurs: on the surface, in the air, underground, and in the soil.

X208

**The Geological Society of America**
<http://www.geosociety.org>

GSA is a global professional society with a growing membership of more than 23,000 individuals representing over 100 countries. GSA provides access to elements that are essential to the professional growth of earth scientists at all levels of expertise and from all sectors: academic, government, business, and industry. GSA recognizes earth science excellence with awards, promotes lifelong learning through scientific conferences, and publishes a wide range of peer-reviewed publications.

12



The world leader in serving science

Thermo Scientific
<http://www.thermofisher.com>

For decades, innovative Thermo Scientific IRMS have helped geoscientists gain new insights into the application of isotope ratio analysis in the earth and environmental sciences, enabling them to make exciting pioneering discoveries and to overcome difficult analytical challenges. Isotope ratio mass spectrometers have also helped laboratories in the fields of food and doping analysis, providing trustworthy analytical results.

20

**Umwelt-Geräte-Technik GmbH**
<http://www.ugt-online.de>

UGT - more than standard!

UGT offers tailor-made solutions for your research project. We focus on our competence in special measurement technology combined with the highly innovative and high-end products of our worldwide partner companies. Please consult us for soil science, hydrological and related scientific questions. Each project is unique and requires compatible measurement technology. Our team of scientists and engineers will provide you with comprehensive advice. We look forward to your project.

34

**Wiley**
<http://www.wiley.com>

Wiley, a global company, helps people and organizations develop the skills and knowledge they need to succeed. Our online scientific, technical, medical, and scholarly journals, combined with our digital learning, assessment and certification solutions help universities, societies, businesses, governments, and individuals increase the academic and professional impact of their work. www.wiley.com

EXPO

120

SMHI Hypeweb**World Wide Hydrological Predictions**<http://hypeweb.smhi.se/>

"The water service 'Hypeweb' gives you a better view of the water planet and help you with big and small decisions for today, tomorrow and the future - at any location worldwide! Here you can access scientifically sound Open Data, subscriptions and consultancy work to answer questions like:

Where on Earth is the freshwater?

Should I wear my gumboots tomorrow?

How can cities be "water-proof"?

Is the river clean enough?"

AGU is Awarding Celebrate 100 Grants

Up to \$10,000 for Grassroots Engagement Activities



Celebrate 100 Grant Idea Workshop

Meet with AGU to develop your idea and proposal
for your Celebrate 100 Grant application

Monday – Wednesday

4:00 – 5:00 pm

Room: -2.19

Share your Narratives story at the AGU Booth.
Stop by to schedule your interview.



FALL MEETING

San Francisco, CA | 9–13 December 2019



Session Proposal Workshop & Cupcakes

Meet with members of
the Fall Meeting Program
Committee to discuss
your Session Proposal

Tuesday, 9 April at 4:00 PM
AGU Booth: X209–X210

SCIENCE

AT THE SPEED OF LIFE



**Session Proposal Submission
Deadline: 17 April**

agu.org/fallmeeting

Notes

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Austria Center Vienna (ACV)

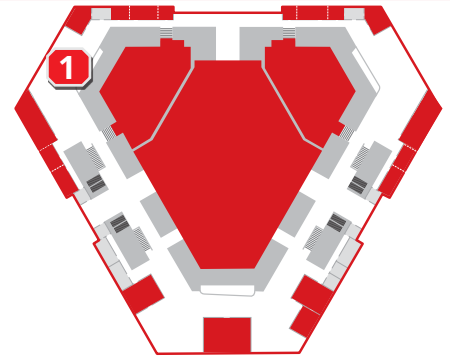
Phone: +43 1 26 06 90

Fax: +43 1 26 06 93 03

Blue Level 3 (third floor)	<ul style="list-style-type: none"> ▶ EGU Council (by invitation only) 		<ul style="list-style-type: none"> ▶ Rooms 3.16–97 ▶ Executive editors' lounge (by invitation only)
Red Level 2 (second floor)	<ul style="list-style-type: none"> ▶ Seating Foyers A, B, C ▶ Refreshments Restaurant – Foyer B 	<ul style="list-style-type: none"> ▶ Posters Hall A with coffee spots 	<ul style="list-style-type: none"> ▶ Rooms 2.15–95, B, C ▶ Editors' lounge near Foyer B ▶ Networking & ECS zone near Foyer C
Green Level 1 (first floor)	<ul style="list-style-type: none"> ▶ Seating Gallery & Foyer L ▶ Refreshments Gallery 	<ul style="list-style-type: none"> ▶ Exhibition Gallery ▶ Open stage for job seekers 	<ul style="list-style-type: none"> ▶ Rooms 1.61–85, L1–8, M1/2, N1/2 ▶ Kids' corner
Yellow Level 0 (ground floor)	<ul style="list-style-type: none"> ▶ Seating Foyer F ▶ Refreshments Restaurants – Foyer F Café Motto – Entrance hall Toasty station – Entrance hall 	<ul style="list-style-type: none"> ▶ Information EGU Information ▶ Hotel reservation Hotels and tours ▶ Exhibition Entrance hall ▶ Services Meeting point Poster print service ▶ Registration Hall X5 ▶ Posters Halls X4 & X5 with coffee spots ▶ PICO spots 4, 5a & 5b Halls X4 & X5 	<ul style="list-style-type: none"> ▶ Rooms 0.11–96, E1/2, F1/2 ▶ EGU Lounge Foyer E ▶ Press centre Foyer F ▶ Multi-faith prayer rooms 0.65/66 ▶ Breastfeeding room 0.64 ▶ PICO upload & preview Hall X5
Brown Level -2 (basement)	<ul style="list-style-type: none"> ▶ Seating Foyers D, G, K ▶ Refreshments Hall X2 Foyer D 	<ul style="list-style-type: none"> ▶ Posters Halls X1–X3 with coffee spots ▶ PICO spots 1 & 3 Halls X1 & X3 ▶ EGU & Friends (Hall X2) EGU booth Associations Photo competition Mineral exhibition 	<ul style="list-style-type: none"> ▶ Rooms -2.16 to -2.91, G1/2, K1/2, D1–3 ▶ Childcare ▶ Job interviews & presentations ▶ Quiet rooms ▶ Artists-in-residence

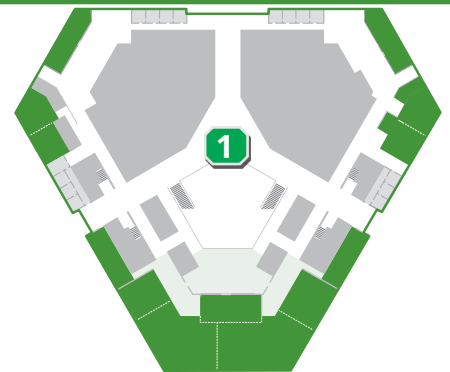
Red Level 2

- 1 Restaurant**
Foyer B, 10:00–17:00 | warm dishes 11:30–14:30
Main courses meat/poultry/fish/veggie/vegan, soup of the day, and salads



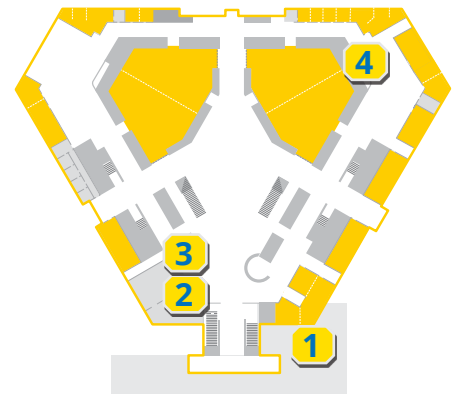
Green Level 1

- 1 Juice and smoothie bar**
Gallery, 10:00–17:00
Smoothies, fresh fruit salads, coffee, and tea



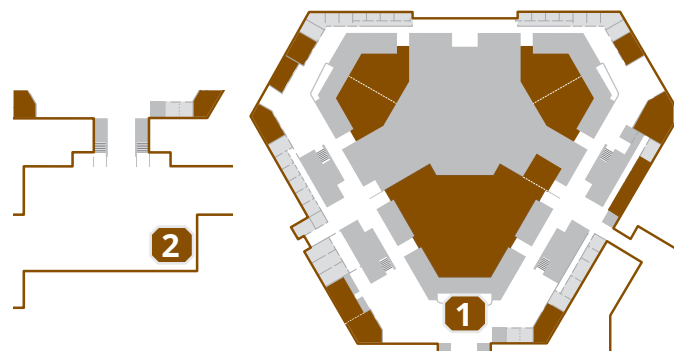
Yellow Level 0

- 1 Würstel & Co.**
Main entrance (outside)
Coffee, tea, and sweets
08:00–11:00
Savory snacks, fresh drinks
11:00–18:00 on Sunday, from Monday 11:00–19:00
- 2 Café Motto**
Entrance hall, 07:00–17:00
Coffee, croissants, snacks, sandwiches, and sweets
- 3 ECS toasty station**
Entrance hall, 08:00–16:00
Toasties, sweets, coffee, and tea
- 4 Restaurant**
Foyer F, 10:00–17:00 | warm dishes 11:30–14:30
Main courses meat/poultry/fish/veggie/vegan, soup of the day, and salads



Brown Level -2

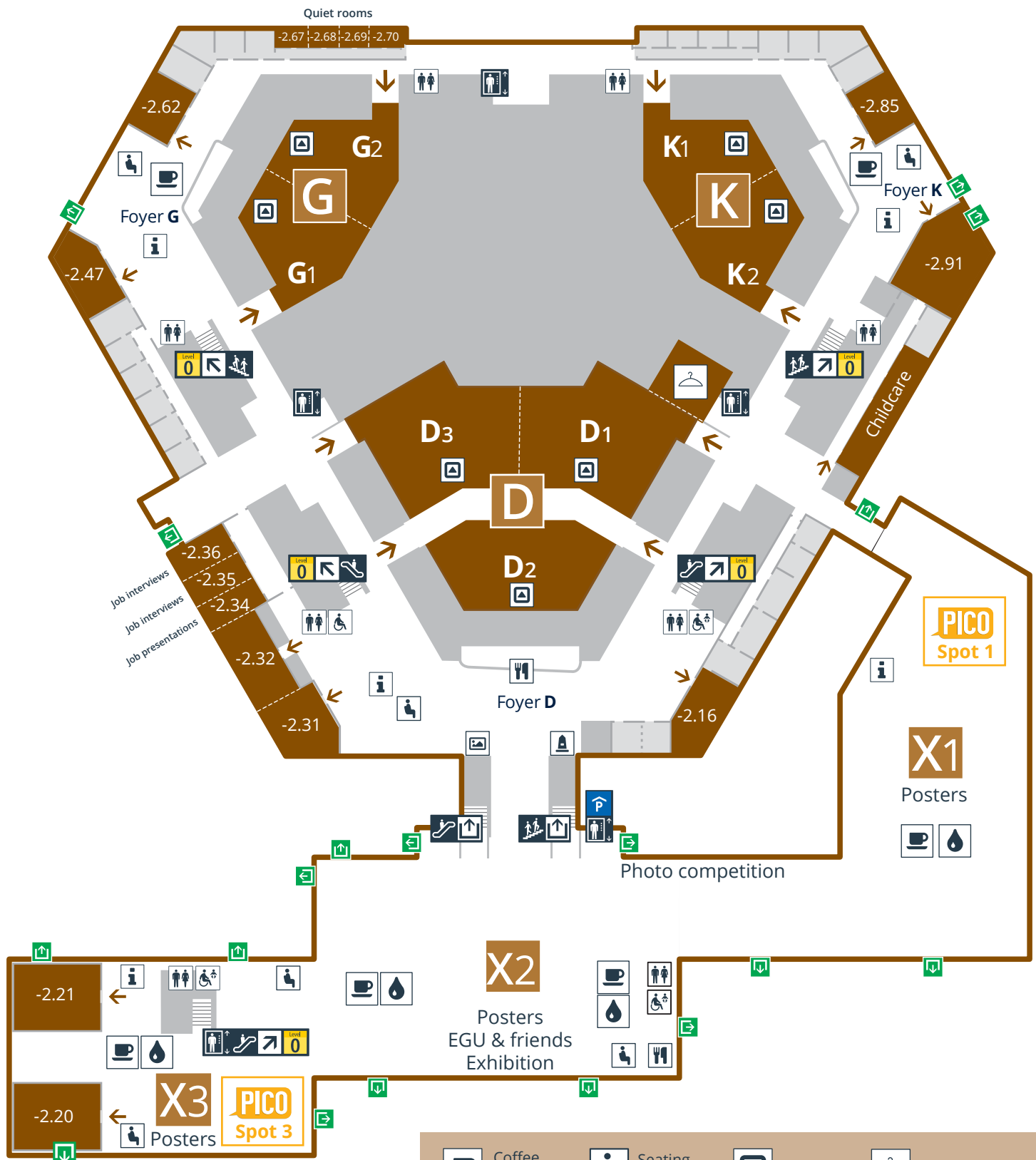
- 1 Take-away**
Foyer D, 10:00–17:00
Sandwiches, sausages, snacks, salads, soup of the day, and sweets
- 2 Café Vienna (Take-away)**
Hall X2, 10:00–17:00
Sandwiches, sausages, snacks, salads, and sweets



General Assembly 2019

Brown Level -2 – basement

Posters X1 | X2 | X3 | exhibition



Coffee spot



Water station



Restaurants



Seating area



Restroom



Info terminal



Stage



Escalator



Elevator



Cloakroom



Artist-in-residence
Morgane Merlin



Artist-in-residence
Giorgio Skretis

General Assembly 2019

Yellow Level 0 – ground floor

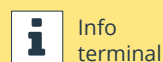
Posters X4 | X5 | exhibition



Coffee spot



Seating area



Info terminal



Escalator



Water station



Restroom



Stage



Elevator



Restaurants



Internet terminals

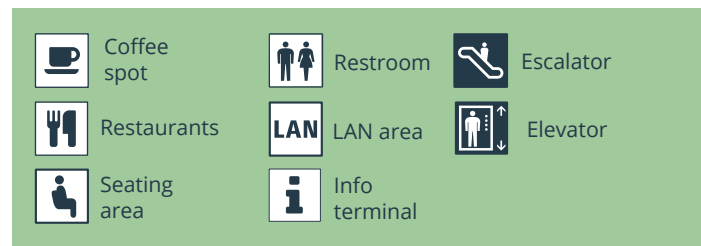
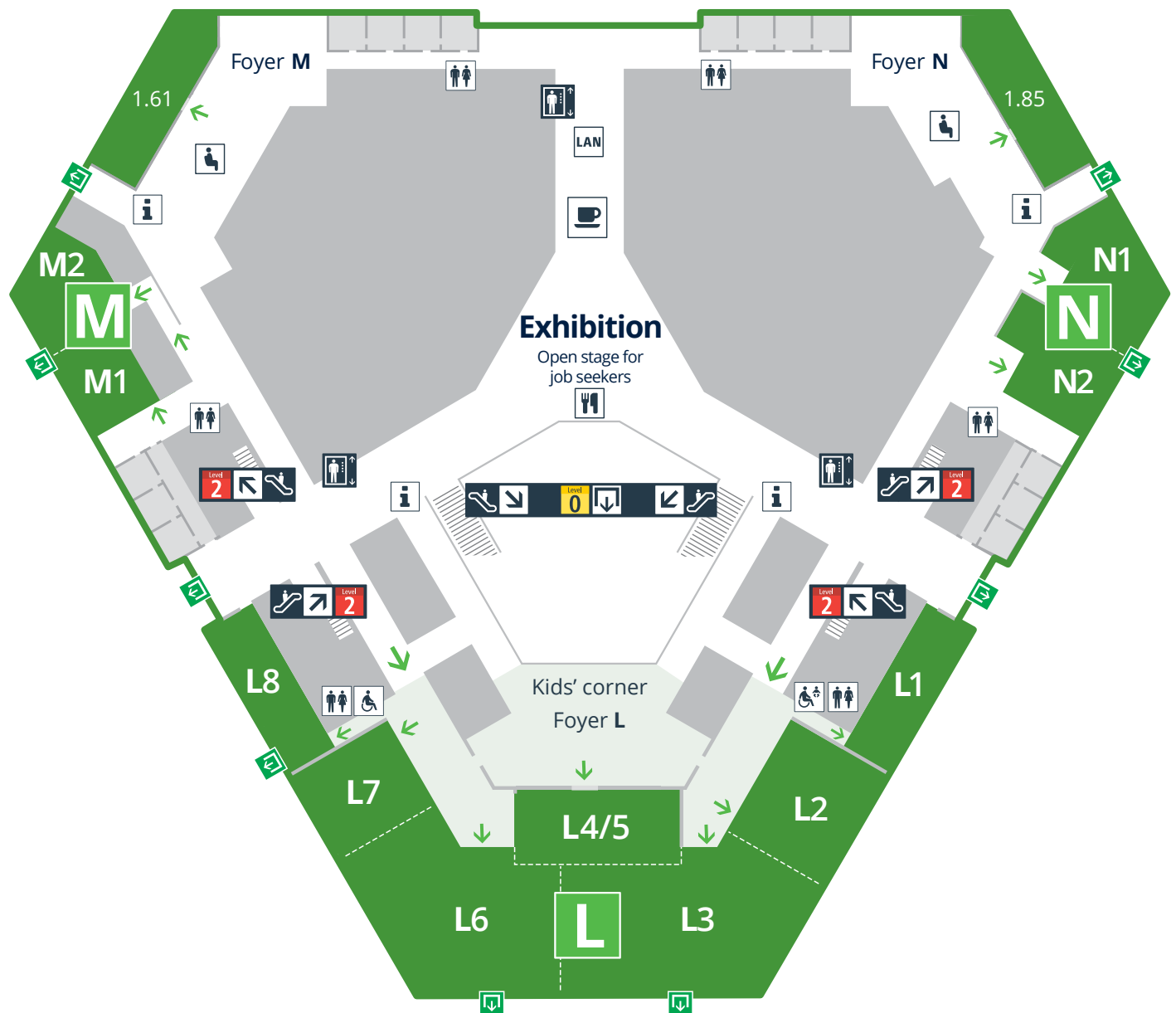


Meeting point

General Assembly 2019

Green Level 1 – first floor

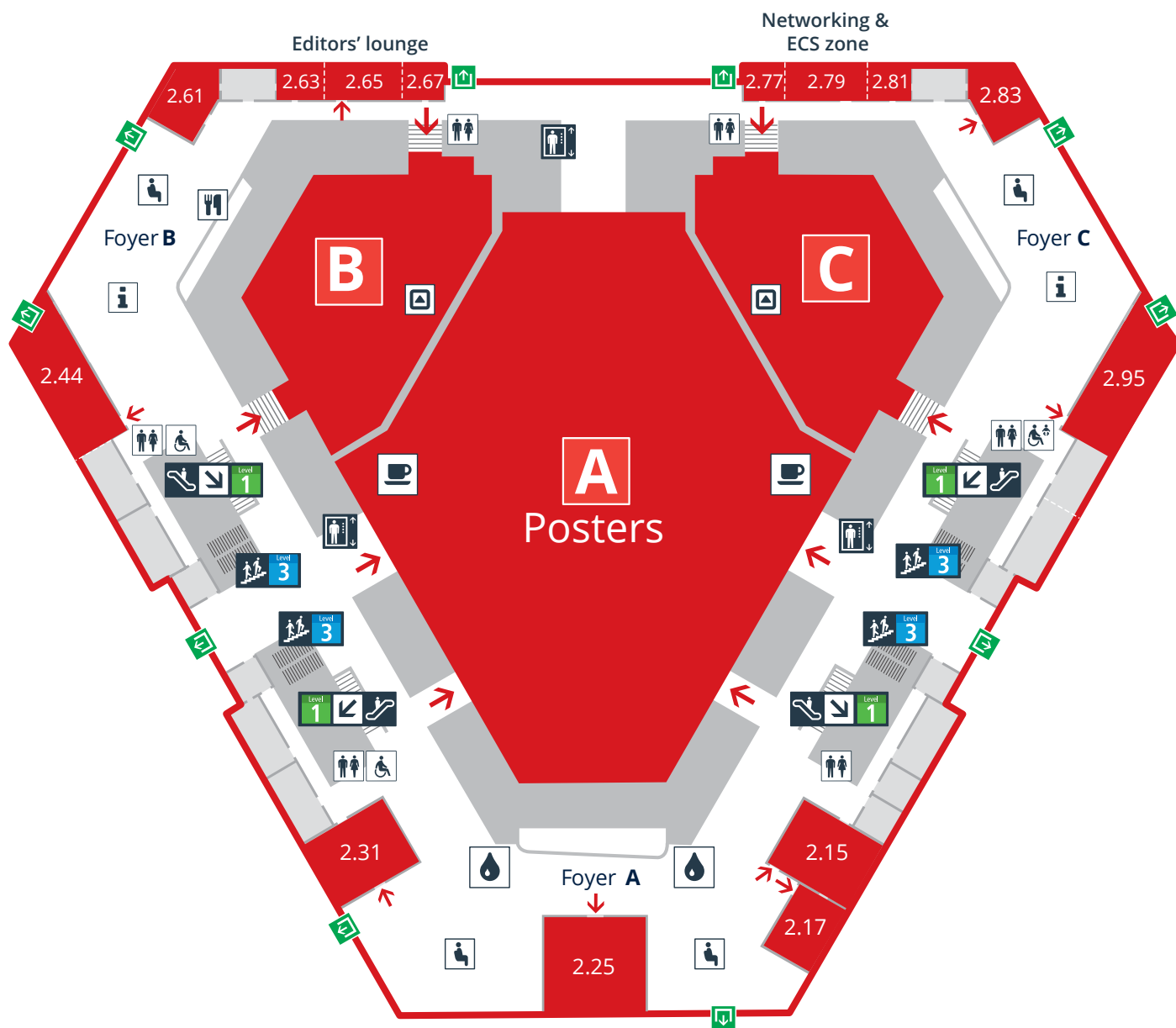
Exhibition



General Assembly 2019

Red Level 2 – second floor

Poster Hall A



	Coffee spot		Seating area		Stage
	Water station		Restroom		Escalator
	Restaurants		Info terminal		Elevator

General Assembly 2019

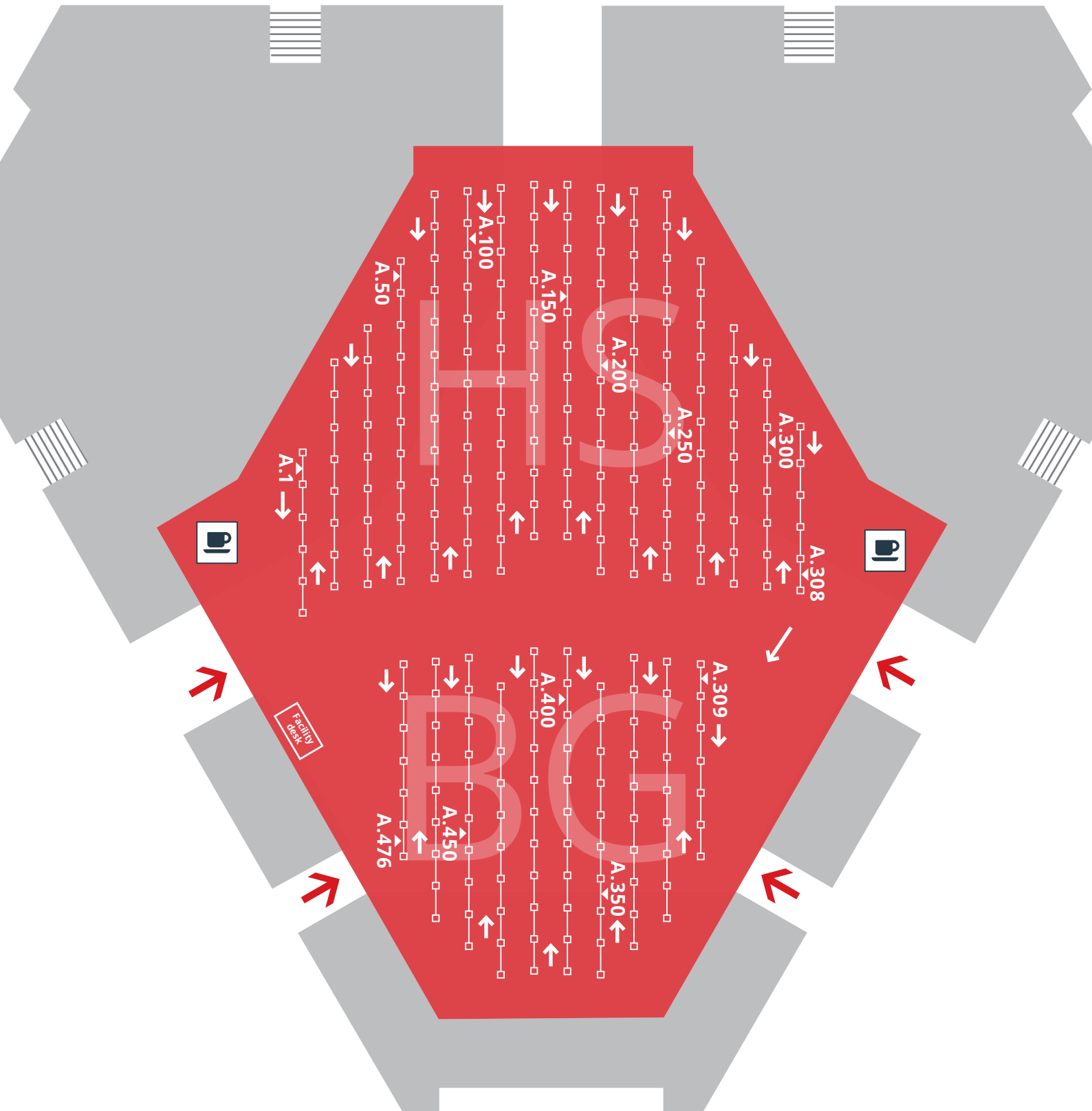
Blue Level 3 – third floor

Access by invitation only



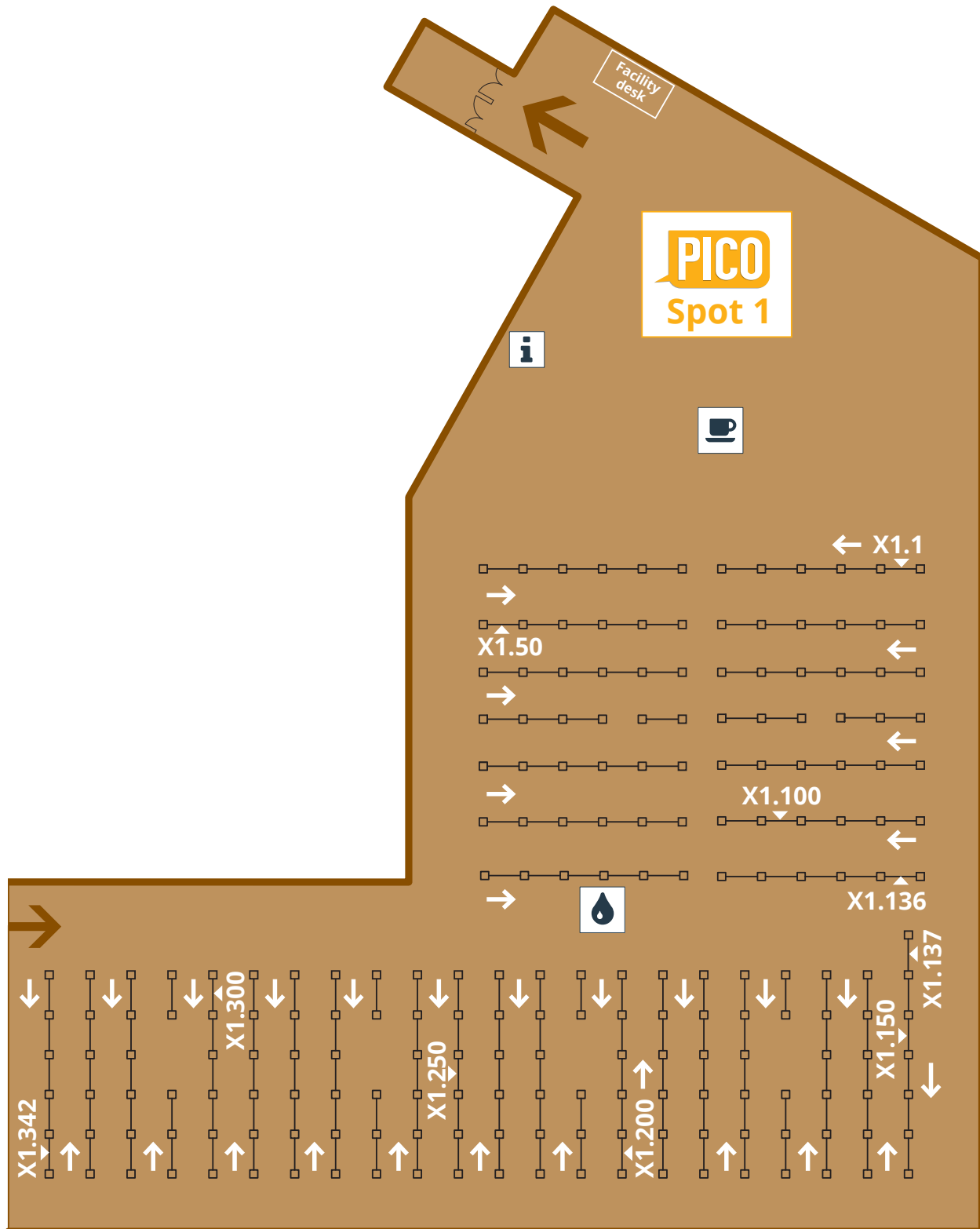
- Restroom
- Escalator
- Elevator

General Assembly 2019
Poster Hall A
Red Level 2 (second floor)



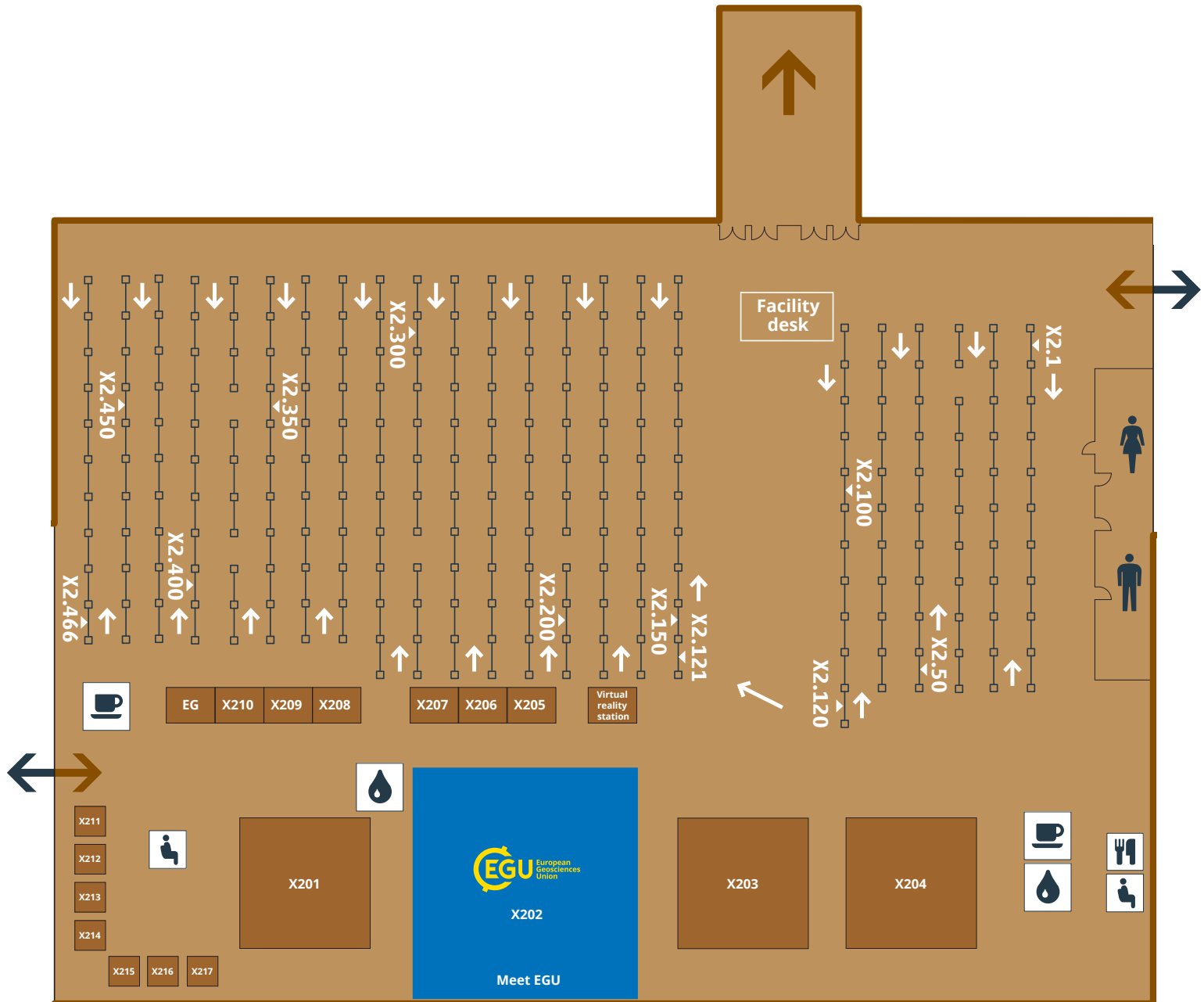
Posters A.1–A.476

General Assembly 2019
Poster Hall X1
Brown Level -2 (basement)



Posters X1.1–X1.342

General Assembly 2019
Poster Hall X2
Brown Level -2 (basement)



Posters X2.1–X2.466

General Assembly 2019
Poster Hall X4
Yellow Level 0 (ground floor)



Posters X4.1–X4.380

Hall X4



Posters X5.1–X5.466

General Assembly 2019

Exhibition Entrance Hall

Yellow Level 0 (ground floor)



#01 Copernicus Meetings & Publications

#02/03 ENVRI Community

#04/05 CAMECA / Camparis

#06 MTA CSFK Geodetic and
Geophysical Institute

#07/09 Cambridge University Press

#08 AP2E

#10 Beta Analytic

#11 Scintec

#12 Thermo Scientific

#13 Muquans

#14 Ecotech

#15 Earth Science Research Promotion Center

#16 IDS GeoRadar s.r.l.-Part of Hexagon

#17 European Association of Geochemistry

#18 GeoScienceWorld

#19 ecoTech

#20 Umwelt-Geräte-Technik GmbH

#21 Kinemetrics

#22 Picarro, Inc.

#23 Guralp

#24/26 LI-COR Biosciences GmbH

#25 IONICON

#27 Elementar

#28 Campbell Scientific

#29 IBS Center for Climate Physics

#30/32 Springer Nature

#31 Seismo Wave

#33 IAS

#34 Wiley

#35 Frontiers

#36/37/38 CTBTO Preparatory
Commission

#39 MathWorks

#40 IOP Publishing

#41 Copernicus DIAS WEKEO

#42 Copernicus Marine Service

#43 Air Liquide

#44 AGICO

#45 Stevens Water

#46 Sercel

#47 Orthodrone

#48 CGMW - IUGS - UNESCO

#49 Gill Instruments Ltd

#50 Bartington

#51/53 Scientific Drilling
IODP ICDP

#52 PP Systems

#54 Nanometrics

#55 International Union of
Soil Sciences

#56 Onset

#57 Gaset

#58 Schweizerbart Science
Publishers

#59 Aerodyne Research, Inc.

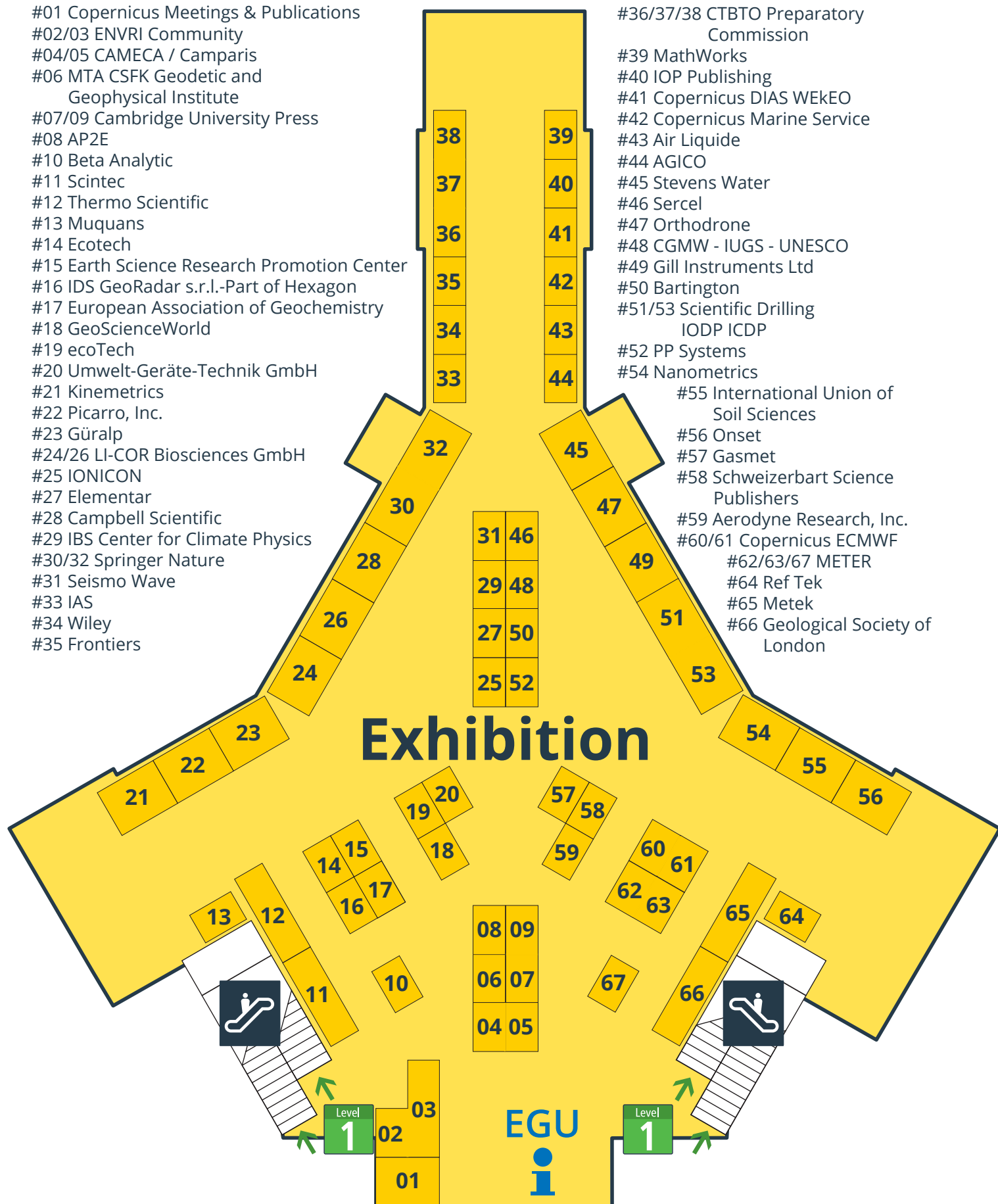
#60/61 Copernicus ECMWF

#62/63/67 METER

#64 Ref Tek

#65 Metek

#66 Geological Society of
London



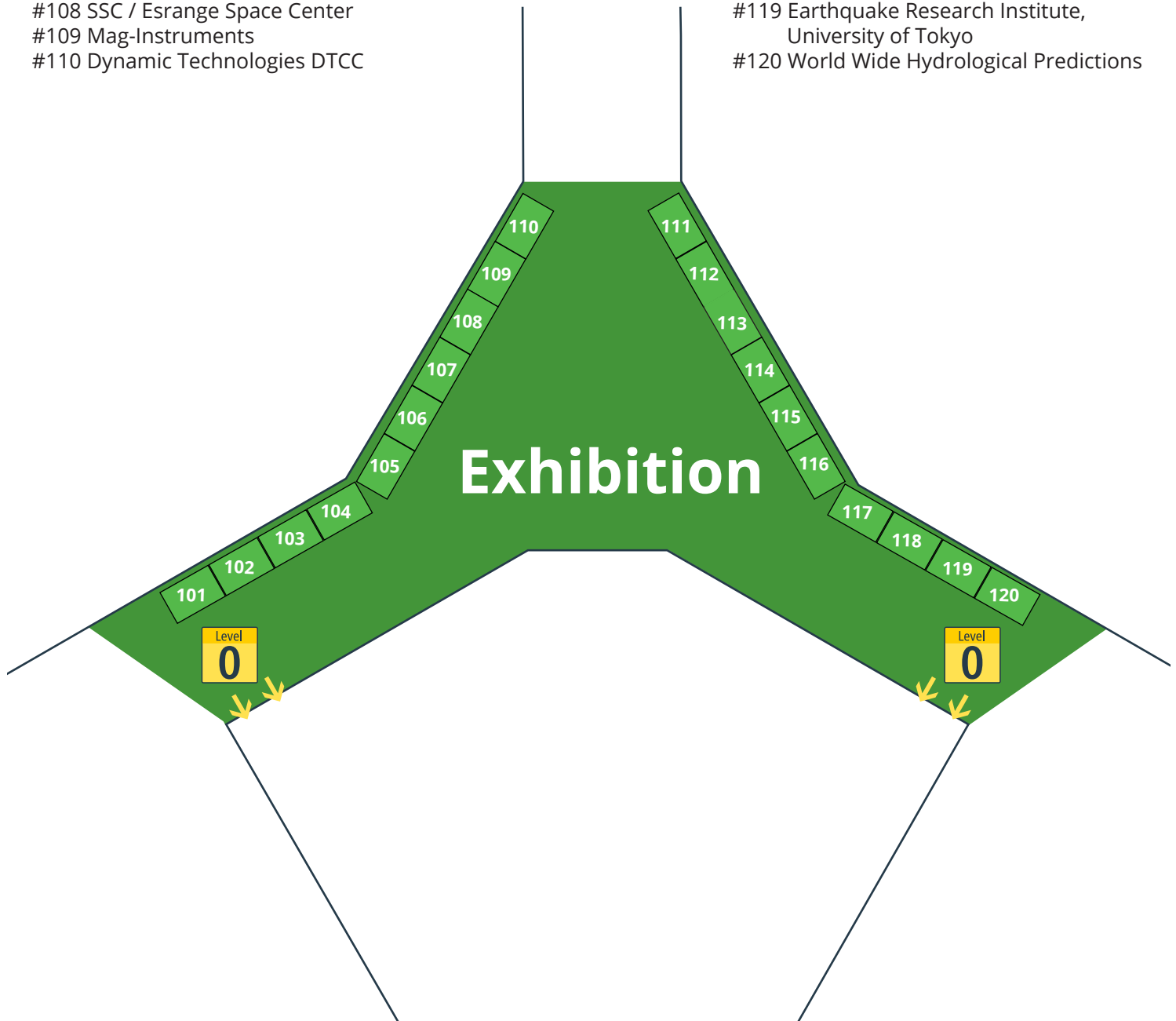
General Assembly 2019 Exhibition Gallery

Green Level 1 (first floor)



#101 Isotopx
#102 MK-Versuchsanlagen
#103 Society of Exploration Geophysicists
#104 Seba Hydrometrie
#105 R-sensors
#106 EMODnet
#107 EuroGeoSurveys
#108 SSC / Estring Space Center
#109 Mag-Instruments
#110 Dynamic Technologies DTCC

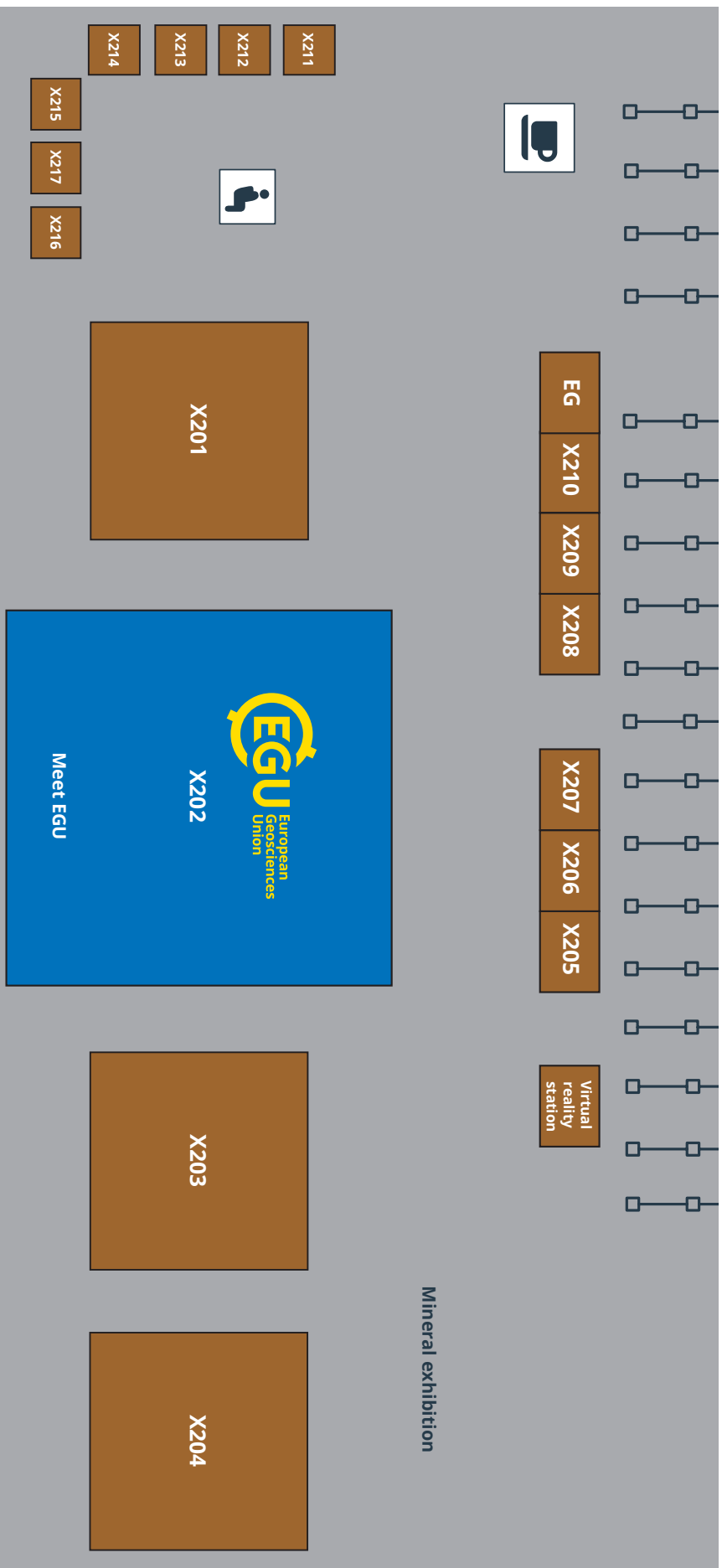
#111 Cell Press
#112/113 EPOS ERIC
#114 MEE0
#115 Esri
#116 Nortek
#117 Oxford University Press
#118 ABB - Los Gatos Research
#119 Earthquake Research Institute,
University of Tokyo
#120 World Wide Hydrological Predictions



General Assembly 2019 EGU & Friends



Hall X2 | Brown Level -2 (basement)



#X201 Google, Inc.
#X202 European Geosciences Union
#X203 European Space Agency (ESA)
#X204 NASA
#X205 Asia Oceania Geosciences Society (AOGS)
#X206 EAGE - European Association of Geoscientists and Engineers

#X207 Japan Geoscience Union
#X208 The Geological Society of America
#X209/X210 AGU
#X211 China University of Geosciences, Wuhan
#X212 EUROFLEETS+
#X213 Seabed 2030 hosted by British Oceanographic Data Centre (BODC)

#X214 East China Normal University
#X215 Earth Observatory of Singapore, NTU
#X216 Saudi Society for Geosciences
#X217 King Abdullah University of Science and Technology
#EGE Encyclopedia of Geosciences



ROCK(S) AROUND THE RAINBOW

THE COLORS OF MINERALS

Daily from 09:00–18:00

One thing that makes minerals so attractive to people is their color. And there is no color minerals cannot have! This year's EGU mineral exhibit is dedicated to the color spectrum of minerals. The showcases are a kaleidoscope, taking you on a rocky trip over the rainbow. So go see the exhibit, leave science behind for a few minutes and indulge yourself instead in the aesthetics of colorful rocks!

Meet the exhibition organizer
Peter C. Huber from Monday
to Friday (15:00–18:00)

European Geosciences Union General Assembly 2019

Programme committee	.....	3
General information	.....	4
Medal & award lectures	.....	10
Union Symposia, Great Debates, & Science and society	.....	17
Union administrative meetings	.....	19
Division meetings	.....	20
Editorial board meetings	.....	22
Exhibition	.....	31
Floor plans	.....	53