

# EMIS XVIII

CERN GENEVA / SWITZERLAND / 16 - 21 SEPTEMBER 2018



## 18<sup>th</sup> International Conference on Electromagnetic Isotope Separators and Related Topics (EMIS-2018)

<http://indico.cern.ch/e/EMIS2018>

### Third Circular September 2018

The International Conference on Electromagnetic Isotope Separators and Related Topics (EMIS) will be held at CERN, the European Organization for Nuclear Research, in Geneva, Switzerland, from 16<sup>th</sup> to 21<sup>st</sup> September 2018. The EMIS-2018 conference will be hosted by ISOLDE, that celebrated last year its 50<sup>th</sup> anniversary of successful radioactive beam production.

EMIS is the long-running flagship conference series on techniques in the field of low-energy nuclear science. EMIS-2018 will be the eighteenth conference in this series. Recent conferences in this series have been held in Grand Rapids, MI, USA (2015), Matsue, Japan (2012), Deauville, France (2007), and Victoria, B.C. Canada (2002).

Scientific topics of EMIS-2018 include:

- Isotope production, target and ion source techniques
- Techniques related to high-power radioactive ion beam production
- Low-energy and in-flight separators
- Storage rings
- Ion guide, gas catcher, and beam manipulation techniques
- Ion optics and spectrometers
- Ion traps and laser techniques
- Instrumentation for radioactive ion beam experiments
- Applications of radioactive ion beams

#### Participation

All scientists, post-docs and graduate students that are interested in research and development related to production of radioactive nuclear beams and their scientific use are encouraged to attend.

#### EMIS-2018 Venue

CERN Geneva, is situated in some of Europe's most beautiful scenery, between lac Léman and the mountains. In the very heart of Europe, Geneva has a long tradition as a venue for major meetings and is a host city to many international organizations such as the United Nations, the World Health Organization, the International Labour Office and the International Red Cross, as well as CERN.

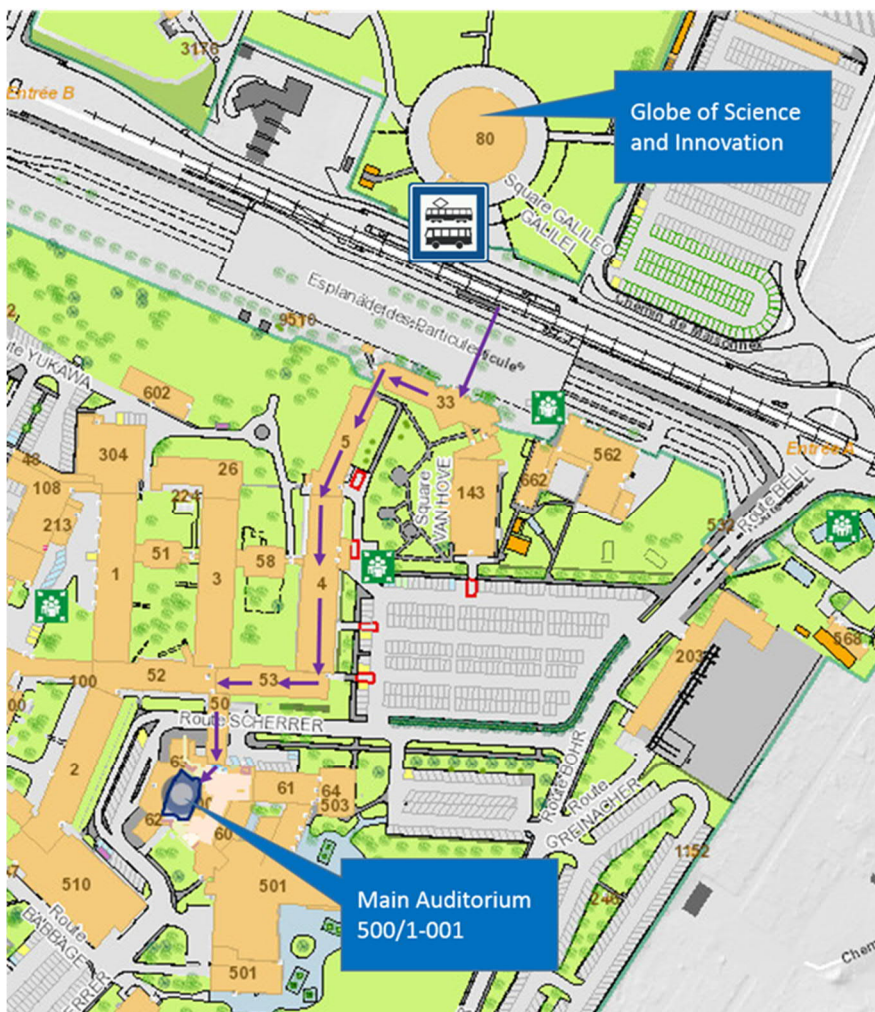
## Access to the CERN site

Gaining access to the CERN site for the duration of the conference.

The CERN visitor ticket (similar to a printed boarding pass) will be generated approximately two weeks before the conference start date. You will receive an email with a form asking for personal information needed to fulfil CERN's Security Policy. Once you have completed and sent the form back, you will receive another email redirecting you to a confirmation page where you can get the access ticket and the registration code. The access ticket should be printed ready to bring to the CERN entrance in order to gain access. Please note that the ticket is A4 size. After printing, it should be folded in four in order to get a single or double-sided A6 that will then fit into a transparent plastic badge holder distributed at the CERN entrance gate. It is now mandatory for everyone at the CERN site to wear a valid access ticket/badge at all times

Finding your way around CERN:

In order to find your way around CERN you will find a map at <https://maps.cern.ch/mapsearch> or you can use the Mobile Map app [http://gs-dep.web.cern.ch/en/content/gis\\_mobile](http://gs-dep.web.cern.ch/en/content/gis_mobile) for your smartphone or iPad.



### From the tram/bus stop:

- Cross the "Esplanade des Particules"
- Enter the CERN reception building 33 (open Monday to Friday 8:00 – 17:45)
- Present your access ticket to the security guard for passing through the glass door on your right
- Shortly after the door, go one floor down and continue walking along the corridors inside the buildings 33, 5, 4, 53, 50 following the blue signs MAIN BUILDING and AUDITORIUM



## Travel to CERN

CERN is situated on the border of Switzerland and France, on the outskirts of the city of Geneva, which has an international airport (GVA), offering direct flights to more than 100 international destinations. Road and rail facilities radiate from Geneva to provide rapid access to the rest of Switzerland and Europe. It is 15 minutes to CERN by taxi and 25 minutes using the Y bus, that leaves outside of the airport train station. Geneva train station (Cornavin, 20 minutes from CERN by tram) offers Inter-city trains to France, Spain, Italy and Germany. Geneva's TPG public transport network is excellent with trams crossing the town centre every few minutes and frequent connections to CERN and the airport.

Details of how to reach CERN can be found via <http://home.web.cern.ch/directions>. Please note that, if you are arriving by plane, free bus tickets can be obtained from a machine situated inside the baggage reclaim hall. If you wish to use the free shuttle service from Geneva Airport to CERN you can find information about the service and the shuttle timetable via <http://smb-dep.web.cern.ch/en/ShuttleService/Circuit4>

### CERN Restaurant

Restaurant 1 is a self service restaurant located in building 501, downstairs from the auditorium, open from Monday to Friday from 6h00 until 24h00. Meals are served from 11h30 to 14h15 and from 18h to 21h30. It is also open on Saturdays and Sundays from 7h until 22h00 and meals are served from 11h30 to 14h00 and from 18h to 20h00. It proposes different menus from CHF 8.50 to CHF 16.00. A "Grab and Go" is also proposed and is open from Monday to Friday from 7h30 until 17h.

### WIFI Access

If you wish to have WIFI access while on the CERN site please register your laptop via <http://network.cern.ch/sc/fcgi/sc.fcgi?Action=VisitorRegistration>

The EDUROAM service is also available at CERN. For more information please see <http://information-technology.web.cern.ch/services/Eduroam-Service>

### Registration and Welcome Reception

Registration desk opens at 16:00 on Sunday 16<sup>th</sup> September in CERN's Globe of Science and Innovation, followed by a welcome reception starting at 18:00 also in the Globe. For those arriving on Monday the registration desk will be outside the main auditorium.

### Conference Program

EMIS-2018 will have a five-day conference program in the main auditorium at the heart of CERN itself. The program consists of sessions with oral contributions and invited talks and two poster sessions. The final programme is now available via <https://indico.cern.ch/event/616127/page/13878-final-programme>. Have a look at the detailed programme to see the allocated time slot for your talk. Take into account that 5 minutes should be reserved for questions. Please upload the presentation file via the 'detailed program' link in the conference website, prior to the session.

### Conference Proceedings

As is traditional for the EMIS conference, the refereed Proceedings will be published in Nuclear Instruments and Methods B. All contributions describing work presented at the meeting including posters are eligible for inclusion in the Proceedings that will be peer-reviewed. Registered EMIS-2018 participants will receive a printed copy of the proceedings. The maximum lengths of the written contributions are: 3 printed pages for posters, 5 printed pages for oral contributions, and 8 printed pages for invited talks.

Submission will open for manuscripts on 15th September 2018 and close on 15th December 2018.

Web link to the submission [https://ees.elsevier.com/nimb\\_proceedings/default.asp](https://ees.elsevier.com/nimb_proceedings/default.asp). Once the submission portal of the special issue is open on above webpage, the author will see the short name of the proceedings in the Article Type during the submission progress.

### Public Lecture

We are delighted to announce a public lecture on Tuesday evening by Prof. Marco Durante, the Director of the Biophysics Department at GSI Helmholtz Centre for Heavy Ion Research (Darmstadt, Germany) in the Globe of Science and Innovation, just opposite CERN. As there are a limited number of places, please remember to register for this event <https://indico.cern.ch/event/616127/page/12752-public-lecture>.

### Excursion and Banquet

The conference excursions scheduled for Wednesday afternoon will take us on a guided tour of Annecy's old town or a visit of the Olympic Museum in Lausanne. Buses leave CERN at 13:45 from the Globe carpark. Please note that the excursion to Annecy is in France so you must have the correct travel documents to enter that country.

On the evening of Thursday 20th September, the EMIS2018 conference banquet will be held on a CGN boat on the magnificent Lake Geneva. Buses will be organised to take participants from CERN to the boat and back to CERN when the boat returns to Geneva. Buses leave CERN at 17:30 from the Globe carpark.

### SC and ISOLDE visits

On Friday afternoon, there is an opportunity to visit the synchrocyclotron (also known as the SC and CERN's first accelerator) and the ISOLDE facilities; you should have registered for these visits via your conference registration page.

### Important Dates

- EMIS-2018 Conference 16-21 September, 2018, final conference program now available
- 16th September, registration desk opens at 16.00 followed by a welcome reception at 18.00 both events take place in the GLOBE of Science and Innovation, just opposite CERN
- 18<sup>th</sup> September, 20.00, public lecture by Prof. Marco Durante, please remember to register
- 19<sup>th</sup> September, afternoon excursions, buses leave CERN at 13:45 from the Globe carpark
- 20<sup>th</sup> September, dinner cruise, buses leave CERN at 17.30 prompt from the Globe carpark
- 21<sup>st</sup> September, afternoon, visits to ISOLDE and SC for participants who registered.

### Poster Presentations

Posters must be maximum A0 portrait format (maximum 84.1 cm wide x 118.9 cm high) and should be attached to the poster boards on Monday afternoon latest, prior to the first poster session on Monday evening. All poster spaces will be clearly marked with the abstract ID number. The posters will be located near the main conference room and will be available for viewing during the entire week. Please refer to the conference program to find out in which session your poster will be presented.

### NuPPEC prizes

During the closing session on Friday, there will be a prize giving ceremony. A prize will be awarded to the best young speaker (not having obtained the PhD) and to the 4 best posters presented during the two sessions. Each prize will be a 350 CHF voucher accompanied by a certificate. NuPECC sponsors the competition and prizes.

### IUPAP

EMIS-2018 is endorsed by the International Union of Pure and Applied Physics (IUPAP). The organizers have provided assurance that EMIS-2018 will be conducted in accordance with IUPAP principles as stated in the IUPAP resolution passed by the General Assembly in 2008. In particular, no bona fide scientist will be excluded from participation on the grounds of national origin, nationality, or political considerations unrelated to science.

### VSim Workshop at EMIS2018

Jonathan Smith and Nate Crossette from Tech-X will host a workshop aimed at providing advice on using particle in cell techniques for a variety of EMIS-relevant applications. This will include a brief introduction to the principles and algorithms behind particle in cell simulations. There will be a discussion of how VSim has aided with the optimisation of ion sources, and a chance to get hands on with the VSim software to kinetically model a low temperature/technological discharge plasma.

The EMIS organisers have worked with us to make sure you can attend the workshop sessions without compromising your attendance of all the EMIS activities and sessions.



Please see <https://indico.cern.ch/event/723303/> (a separate indico event) available via the EMIS conference web page and take the opportunity register to get the software on your laptop to fully participate in the hands on sessions.

### Local Organizing Committee

Richard Catherall, CERN (Chair)  
Gerda Neyens, CERN (Co-chair)  
Maria Jose Garcia Borge, CERN  
Karl Johnston, CERN

Valentin Fedosseev, CERN  
Sebastian Rothe, CERN  
Magdalena Kowalska, CERN  
Jenny Weterings, University of Oslo, Scientific Secretary

### International Advisory Committee

The scientific program for EMIS-2018 has been developed with the assistance of the International Advisory Committee:

Navin Alahari (GANIL, France)  
Faical Azaiez (iTemba Labs, South Africa)  
Klaus Blaum (MPI-Heidelberg, Germany)  
Yorick Blumenfeld (IN2P3-IPN-Orsay, France)  
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Fredrick Wenander (CERN, Switzerland)  
Yuhu Zhang (IMP, CAS, China)

### Sponsors and Exhibitors



### Contact

Please address questions about the EMIS-2018 conference to [EMIS2018@cern.ch](mailto:EMIS2018@cern.ch).