

Good to know ...

General Information, WiFi, ems2018-app

About this programme book

The EMS aims at making the Annual Meeting more sustainable and to minimize the use of resources. During the abstract submission, authors were asked to indicate whether a printed programme book is needed. 70% of the authors indicated that they would not need a programme book. Thus, only a limited number of programme books is available on request. Copies for every one's use will be distributed around the conference venue; personal copies will be handed out on request at the registration desk.

The mobile app with continuous updates and the EMS2018 website offer the option of generating and printing your own personal programme.

Venue

The EMS Annual Meeting: European Conference for Applied Meteorology and Climatology 2018 is held in Budapest, Hungary, from 3 to 7 September 2018.

Corvinus University
Fővám tér 8.
1093 Budapest
Hungary

Rules of conduct

- Smoking is prohibited in the conference centre.
- It is prohibited to copy any presentation from the desktops in the lecture rooms.
- Please switch off any mobile phones or set them in mute mode during the sessions.
- Please note that video-graphic recordings are not allowed.

Official language

The official language of the conference is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research in the English language.

Insurances

The organisers cannot accept liability for personal accident and loss, or damage to private property, which may be incurred as a

result of participation in the conference. Participants are, therefore, advised to arrange appropriate insurance cover. This should extend not only to travel but also to cancellation costs.

Photos, webcasts, graphics

Parts of the EMS Annual Meeting 2018 will be recorded; audio recording plus slides of some plenary presentations will also become available on demand after the meeting.

Photos of some of the plenary sessions and the Media session will be taken by Szabolcs Dudás. In addition a few events will be graphically recorded by *Grafacity*.

Cover picture

The cover picture was kindly provided by and is copyrighted to Zoltán Dunkel.

Local transportation information

Information on local transportation to and from the venue is available at https://www.ems2018.eu/venue/how_to_get_there.html

Lunch & snack options

The Corvinus University provides two cafes and one Cafeteria in the conference building. Around the venue, plenty of lunch possibilities in different price ranges are available. This includes the Central Market Hall of Budapest.

Wireless network access

Corvinus University provides free WiFi access.
Network: EMS2018
Password: ems2018!

EMS2018 app

Download the EMS2018 app for iPhones and Android smartphones.

The EMS2018 app provides the complete programme, including all abstracts. You can synchronise your personal programme and the latest updates are always included. You have the option to contact authors of specific contributions directly via the app and use the built-in Twitter interface for posting tweets. The EMS2018 hashtag is #emsannual2018.



Registration information

Registration & information desk

The registration & information desk is located in the foyer of the University building on the ground floor.

Opening hours

Sunday, 2 September 2018
15:00–18:00

Monday–Thursday, 3–6 September 2018
08:00–18:00

Friday, 7 September 2018
08:00–12:00

Registration fees cover access to all scientific events, refreshments during the coffee & tea breaks, and the icebreaker reception.

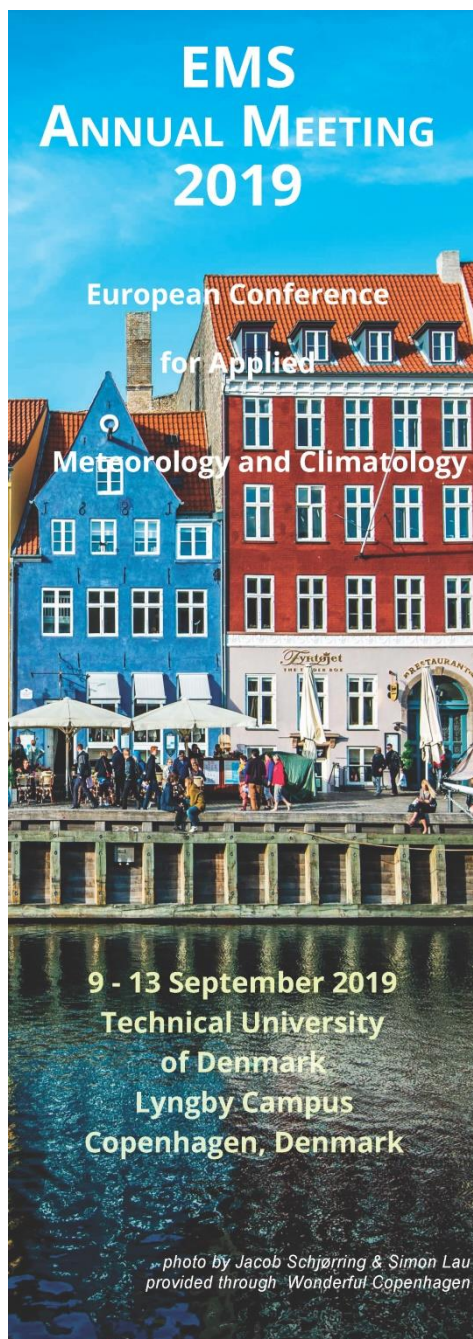
Registration & abstract management

Copernicus Meetings
Bahnhofsallee 1e
37081 Göttingen, Germany
Phone: +49-551-900339-22
meetings@copernicus.org
www.copernicus.org

EMS Sustainable Meetings Policy

The EMS Sustainable Meetings Policy includes actions as well as recommendations for collaborating organisations and participants. It covers a variety of areas such as travel activities with their impact on the climate, consumption of resources (energy, water, paper etc.) and considerations about reduction and minimisation of waste. For details on actions and recommendations consult <https://www.emetsoc.org/events/ems-annual-meetings/future-venues/ems-sustainable-meetings-policy/>.

- This programme book has been printed on recycled paper.
- The lanyard of the name badge is made of recycled PET. We kindly ask you to return the name badge with the lanyard at the registration counter when leaving the conference centre.
- For the Festa menu we offer to choose the vegetarian option to reduce the effect on the climate through meat production.
- The registration process includes the option to compensate the CO₂ emission caused by your travel to Budapest.



EMS
ANNUAL MEETING
2019

European Conference
for Applied
Meteorology and Climatology

9 - 13 September 2019
Technical University
of Denmark
Lyngby Campus
Copenhagen, Denmark

*photo by Jacob Schjørring & Simon Lau
provided through Wonderful Copenhagen*

Breaks & social events

Refreshment breaks

Free coffee & tea will be served during the morning and afternoon breaks. Catering stations are located in the Aula and in the Foyer.

Monday: 11:00–11:30 and 16:00–16:30

Tuesday–Thursday:

9:30–10:30 (poster session)

16:00–16:30

Friday: 10:30–11:30 (poster session)

Fruit bowls will be provided near the catering stations in the Aula.

Lunch breaks

Monday, 12:45–14:00

Tuesday–Thursday, 12:30–14:00

Cafes, restaurants and supermarkets are available nearby the conference venue.

Water dispensers are positioned in the Aula & foyer: you are welcome to bring your own reusable cup.

Townhall Meetings

During Townhall Meetings on Tuesday and Wednesday 13:15–13:45 sandwiches are provided.

Weather briefings

Location: Lecture room E III

Dates and times:

Monday: 11:15

Tuesday to Thursday, 09:45

Throughout the week daily weather forecast briefings will be given by forecasters of the Hungarian Meteorological Service OMSZ. They will all be presented in lecture room EIII, during the refreshment breaks, with the option to discuss with the forecasters personally. More details see under side meetings on page 19.

NinJo workstation demonstration

The NinJo operational meteorological workstation, developed by an international consortium receives the EMS Technology Achievement Award 2018. Demonstrations will be given Monday through Thursday in the foyer. A timetable for the different demonstrations is provided at the registration & information desk and in the ems2018-app.

Icebreaker reception

Location: Aula

Date: Monday, 3 September 2018,
19:00–20:30

EMS Festa

The EMS Festa of the EMS Annual Meeting will be a cruise (about 3 hours) on the Danube. The boarding point can be reached with a short walk (about 5 min) by crossing the Danube with the nearest bridge to the conference venue.

Date: Thursday, 6 September 2018, 19:30

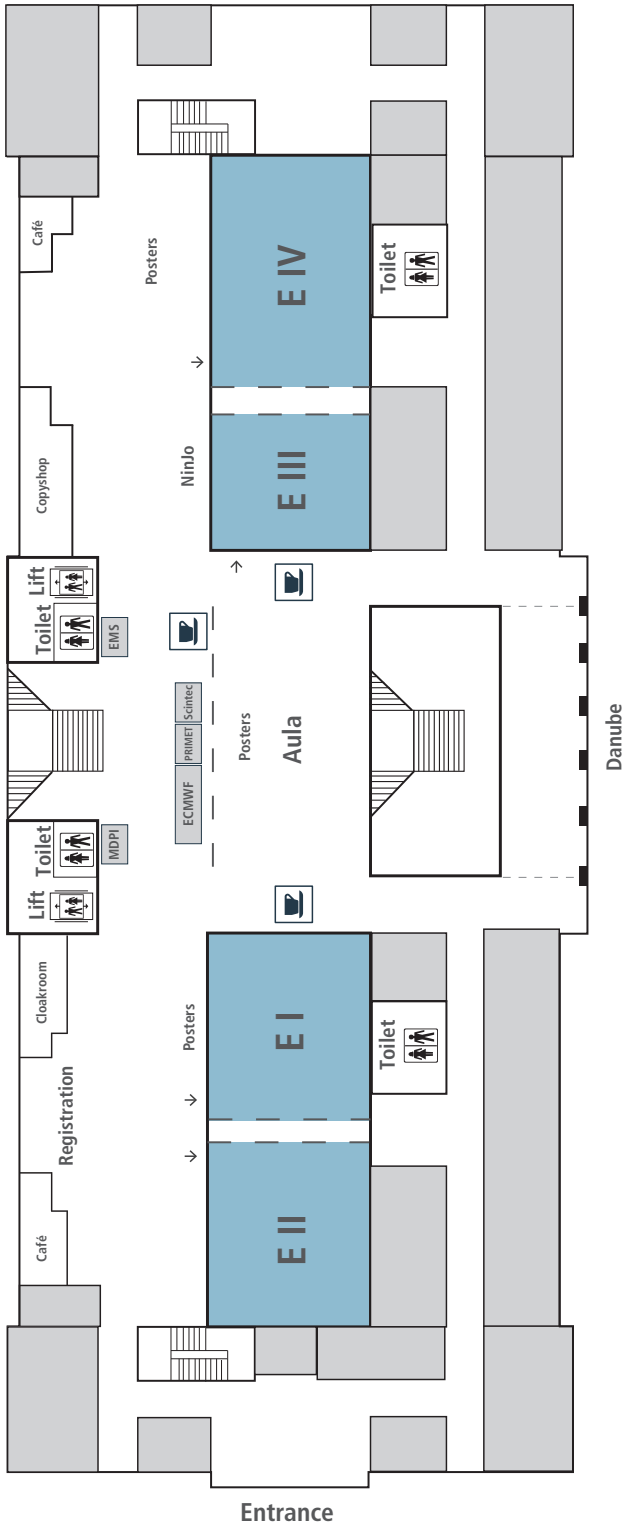
By registration only (Deadline was 30 August 2018. Please check for spare tickets at the registration desk.)

Closing reception

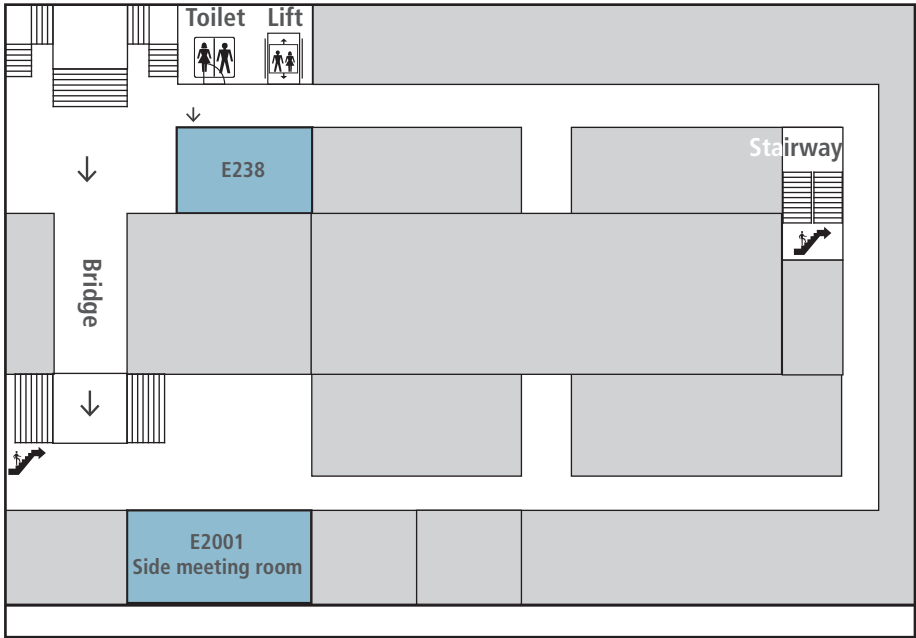
Location: Aula

Date: Friday, 7 September 2018, 13:45–14:30

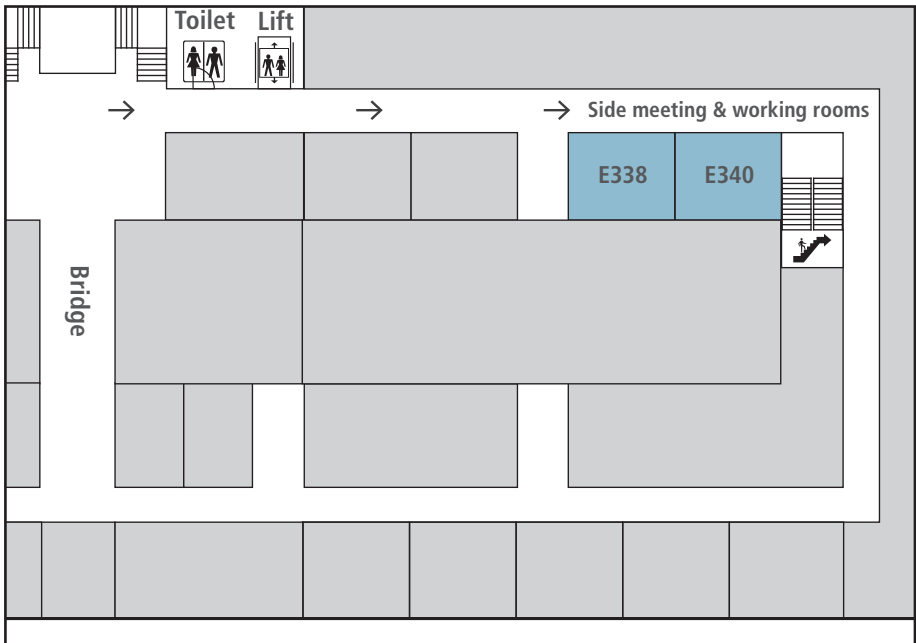
Ground floor



Second floor



Third floor



| EMS Annual Meeting: European Conference for Applied Meteorology and Climatology 2018 | | | | | | |
|--|------------------------------------|--|------------------------------------|-----------------------------------|-----------------------------------|--------|
| | ground floor E II 350 seats | ground floor E I 350 seats | ground floor E III 150 seats | ground floor E IV 400 seats | second floor E 238 80 seats | date |
| Mon, 09:30-11:00 | | | | Opening | | 3 Sept |
| Mon, 11:30-12:45 | | | | Awards | | |
| | start 13:00: | | | | | |
| Mon, 14:00-16:00 | OSA2.5 | OSA2.7 | UP2.5 | UP1.3 - from 15:00 | UP3.4 | |
| Mon, 16:30-18:30 | OSA2.5 | OSA2.7 | ES1.3 | OSA1.8/ES1.6 | UP3.4 | |
| Mon, 19:00-20:30 | Icebreaker | | | | | |
| Tue, 09:00-09:30 | | | | UP Keynote | | 4 Sept |
| Tue, 09:30-10:30 | Poster Session & refreshment break | | | | | |
| Tue, 10:30-12:30 | ES1.5 | UP1.4 | ES1.2 | UP3.1 | UP2.2 | |
| Tue, 13:15-13:45 | | | | WMO Townhall | | |
| Tue, 14:00-16:00 | OSA3.5 | UP1.2 | OSA1.9 | UP3.1 | OSA2.5 | |
| Tue, 16:30-18:30 | UP3.6 | UP1.2 | OSA3.6 | UP3.1 | ES1.8 | |
| Tue, 18:30-19:00 | | | | | | |
| Wed, 09:00-09:30 | | | | ES Keynote | | 5 Sept |
| Wed, 09:30-10:30 | Poster Session & refreshment break | | | | | |
| Wed, 10:30-12:30 | ES1.1 [9:45 - 13:00] | UP1.3 | UP1.5 | ES2.1 | OSA1.1 | |
| Wed, 13:15-13:45 | | Townhall/UP1.3 AMS Lecture | | | | |
| Wed, 14:00-16:00 | OSA3.3 | UP1.3 | UP1.5 | ES2.1 | OSA1.2 | |
| Wed, 16:30-18:30 | OSA1.10 | UP1.1 | UP1.5/UP1.6 | UP3.5 | OSA3.4 | |
| Wed, 19:00-20:30 | Convenor Reception | | | | | |
| Thu, 09:00-09:30 | | | | OSA Keynote | | 6 Sept |
| Thu, 09:30-10:30 | Poster Session & refreshment break | | | | | |
| Thu, 10:30-12:30 | OSA1.7 | UP3.3 | OSA3.7 | UP2.3 | OSA1.6 | |
| Thu, 14:00-16:00 | OSA1.7 | UP3.3 - unt. 14:45 UP3.2 - from 15:00 | OSA2.3 | OSA2.4 | ES3.1 | |
| Thu, 16:30-18:30 | OSA1.5 | UP3.2 | OSA3.2 | OSA2.4 | UP2.4 | |
| Fri, 09:00-10:30 | OSA1.4 | ES2.2 | OSA3.1 | OSA2.4 | UP2.1 | 7 Sept |
| Fri, 10:30-11:30 | Poster Session & refreshment break | | | | | |
| Fri, 11:30-13:30 | OSA1.4 | OSA2.1 | OSA3.1 | OSA2.4 | UP2.1 | |
| Fri, 13:45 | Closing Reception | | | | | |
| | ground floor E II 350 seats | ground floor E I 350 seats | ground floor E III 150 seats | ground floor E IV 400 seats | second floor E 238 80 seats | date |

About the session programme

Conference hours

Oral and poster sessions times

Monday, 3 September 2018

| | |
|------------------|--|
| Opening: | 09:30–11:00 |
| Awards session: | 11:30–12:45 |
| Oral block 3: | 14:00–16:00; note: On Monday OSA2.5 starts at 13:00. |
| Oral block 4: | 16:30–18:30 |
| Plenary lecture: | 18:30–19:00 |

Tuesday, 4 September – Thursday 6 September 2018

| | |
|-------------------------------|-------------|
| Keynote lecture: | 09:00–09:30 |
| Poster session: | 09:30–10:30 |
| Oral block 1: | 10:30–12:30 |
| Townhall Meeting (Tue & Wed): | 13:00–14:00 |
| Oral block 2: | 14:00–16:00 |
| Oral block 3: | 16:30–18:30 |

Friday, 7 September 2018

| | |
|-------------------|-------------|
| Oral block 1: | 09:00–10:30 |
| Poster session: | 10:30–11:30 |
| Oral block 2: | 11:30–13:30 |
| Closing reception | 13:45–14:30 |

▲ Please note that video-graphic recordings of oral and poster presentations are not allowed, unless permission has been given in advance by the author/presenter, and mobile phones must be switched off/in mute mode during the oral sessions.

Oral programme

The oral programme takes place in four lecture rooms located on the ground floor (EI, EII, EIII, EIV) and one lecture room located on the second floor (E238).

In the detailed programme (pages 25 to 106) oral sessions are listed according to the time block for the oral presentations (i.e. 10:30–12:30, 14:00–16:00, ...).

Within each time block sessions are listed in the following order: ES – OSA – UP.

Poster programme

Posters are displayed on the ground floor in the central Aula (poster numbers P.1–P.158) and in the Foyer (poster numbers P.159–P.215).

In the detailed programme (pages 25 to 106) poster presentations are listed on the day of the respective Author-in-attendance time (i.e. poster session), in the following order: ES – OSA – UP.

The poster programme is structured into two display times and four poster sessions.

Display times

Display time 1: Monday 09:30 – Wednesday 12:30

Display time 2: Wednesday 13:30 – Friday 13:30

Presenters are kindly asked to put up their poster as soon as possible within the according Display time in order to enable the conference participants (and the poster award committee) to view their posters at any time within the Display time.

Poster sessions (Author-in-attendance time) are all combined with refreshment breaks, with tea, coffee, sweet & salty bites provided.

| \ Day PS \ | Tuesday 9:30 – 10:30 | Wednesday 9:30 – 10:30 | Thursday 9:30 – 10:30 | Friday 10:30 – 11:30 |
|---------------|---------------------------------|---|---|--|
| ES | ES1.3 | ES1.2, ES1.5, ES1.8 | ES2.1 | |
| OSA | OSA1.8/ES1.6, OSA2.5, OSA2.7 | OSA3.5, OSA3.6 | OSA1.1, OSA1.2, OSA1.10, OSA3.3, OSA3.4 | OSA1.4, OSA1.5, OSA1.6, OSA1.7, OSA2.3, OSA2.4, OSA3.1, OSA3.2, OSA3.7 |
| UP | UP2.2, UP2.5, UP3.4 | UP1.2, UP1.3, UP1.4, UP3.1, UP3.6 | UP1.1, UP1.5, UP1.6, UP3.5 | UP2.1, UP2.3, UP2.4, UP3.2, UP3.3 |

Dismantling times

Authors are also asked to take their posters down on Wednesday between 12:30 and 13:00 (Display time 1) and on Friday between 13:30 and 14:00 (Display time 2). Posters that have not been removed within this dismantling time will be removed and disposed of.

Poster pitches

For most sessions, time for poster pitches is foreseen during the oral programme. For details, please check the programme of your session. Prepare one or two slides for this purpose. You may also be asked ad hoc by the session chair for a summary presentation should a gap occur in the oral programme.

Outstanding Poster Award

The EMS announces an Outstanding Poster Award to highlight high quality poster presentations by young scientists at the EMS Annual Meetings. Posters registered for this award will be screened. The selection of the outstanding poster will be based on the following criteria:

Communication criteria:

Attractive graphical representation, clear and concise text, intuitive structure.

Scientific aspects:

Scientific quality, potential impacts of the results, innovativeness of the approach.

More info at: <https://www.emetsoc.org/awards/award-category/outstanding-poster-award/>

Award

The author(s) will receive a certificate and one registration fee waiver for the EMS Annual Meeting 2019 in Copenhagen where the award will be handed over, and the poster will be highlighted on the EMS website as an example of best practice.

The recipient of the award will be announced shortly after the end of the conference.

Side meetings

Most side meetings take place in the side meeting room 2001 on the second floor. Smaller meetings take place in room E338 on the third floor.

For the side meeting programme please see page 19.

EMS AT THE CONFERENCE

COME AND FIND US AT THE EMS BOOTH IN THE FOYER.



The EMS Member Societies will display material on their activities; the EMS President and Chairs of EMS Committees will be present to discuss whatever it is you always wanted to ask.



Tuesday, 16:00

Meet the President: Bob Riddaway



Wednesday, 16:00

Meet the Chairs:

Sylvain Joffre, Chair of the Programme and Science Committee



Wednesday, 16:00

Meet the Chairs:

Emily Gleeson, Chair of the EMS Liaison Committee

EXCURSIONS

The Hungarian hosts offer two guided tours. To register, please follow the registration link on https://www.ems2018.eu/guided_tours.html

Visit to the Hungarian Meteorological Service:

We walk around in the 108-year-old building of the Hungarian Meteorological Service viewing its museum of measurement instruments and historical documents established in 1896. In the studio we can try ourselves as a TV weatherman. Finally we can admire the panorama of Buda Hills from the roof of the building.

Wednesday, 5 September 2018, 17:00-18:30

Thursday, 6 September 2018, 17:00-18:30

Tour into the Szemlő-hegyi Cave:

The 0.5-1 million-year-old Szemlő-hegyi Cave is often called "Budapest's underground flower garden". The cave was discovered in 1930. After a long period of research and construction of visitor facilities the cave was opened to the public in 1986. The most beautiful parts of the cave can be observed during guided tours along the 300 metre long tourist path; these parts are characteristic of thermal karst formations. You can see walls covered with thick layers of mineral deposits that are unique in Europe: splendid, white crystals of gypsum, popcorn formations and calcite plates. The comfortable and safe walkways and modern lighting make the tour even more enjoyable.

Ticket can be purchased at the entrance of the cave, 1400 HUF per person.

Wednesday, 5 September 2018, 17:00-18:00

Wednesday, 5 September 2018, 18:00-19:00

OPENING SESSION

MONDAY, 3 SEPTEMBER 2018

Lecture room E IV

09:30–10:00: Opening ceremony

| | |
|--|-----------------|
| Opening by the EMS President | Bob Riddaway |
| Welcome address by the President of Hungary | János Áder |
| Welcome address by the WMO Secretary General | Petteri Taalas |
| Welcome address by the OMSZ President | Kornélia Radics |
| Welcome address by the MMT President | Zoltán Dunkel |

10:00–11:00 Strategic Lectures

10:00–10:30 | Diana Ürge-Vorsatz

Director, Center for Climate Change and Sustainable Energy Policy (3CSEP)

10:30–11:00 | Julia Slingo | EMS Silver Medallist 2017

The Changing Landscape of Climate Risk

EMS NEWSLETTER: “EMS-MESSAGE”

The European Meteorological Society’s newsletter, the *ems-message*, is distributed by e-mail and contains information about activities of the EMS Member organisations, upcoming meetings, award announcements and other news from the wider meteorological community.

The EMS Liaison Committee aims to publish editions every six weeks. Submissions are welcome at any time.

Submission of material for the *ems-message*

Articles are generally a few paragraphs in length. To submit an item for publication in the *ems-message*, please send the text and at least one accompanying image to the following e-mail address: publications@emetso.org.

Please include the name of the photographer if including a photograph and ensure that we have permission to publish it.

Subscription to the *ems-message*

www.emetsoc.org/newsletter

SAVE THE DATES:

Deadlines for upcoming editions of the *ems-message*

- Deadline for the October 2018 edition: October 1st 2018
- Deadline for the December 2018 edition: November 15th 2018

PLENARY KEYNOTES & TOWNHALL MEETINGS

Lecture room E IV

Keynote presentations related to each of the Programme Streams (PS) will be given on Tuesday, Wednesday and Thursday from 9:00 to 9:30.

Townhall meetings will take place on Tuesday and Wednesday from 13:15 to 13:45.

Monday

Keynote Lecture (18:30)

Building Weather-Ready Nations – The New International Need

Louis Uccellini

Director of the US National Weather Service

Tuesday

Keynote Lecture on Understanding Weather & Climate Processes (UP)

Projecting changes in impacts at 1.5°C vs 2°C global warming: The role of land processes

Prof. Sonia I. Seneviratne

ETH Zurich

WMO Townhall Meeting

Strategic Lecture: Climate Change, Disasters and their Impacts: How to mitigate

Prof. Petteri Taalas

WMO Secretary General

Wednesday

Keynote Lecture on Engagement with Society (ES)

Great Forecast – Poor Outcome

Haleh Kootval

Consulting specialist in meteorology and service delivery at the World Bank

AMS Townhall Lecture (Room E I)

The Visual Characteristics of the Tornado Funnel Cloud with the Evolving Debris Cloud using Polarimetric Radar Measurements and High Resolution Photographs

Roger Wakimoto

AMS President

Thursday

Keynote Lecture on Operational Systems and Applications (OSA)

Kilometric-scale Numerical Weather Prediction of severe and localized precipitation event

Dr. Tiziana Paccagnella

Director Hydro Meteo Climate Service of ARPAE

Side meetings

SIM1

Tips for effectively dealing with the media – training workshop (by invitation only)

Thursday, 6 September 2018, 09:00–18:00

Room E338

SIM2

Get-together of Public Communications Officers (by invitation only)

Wednesday, 5 September 2018, 16:30–18:30

Room 2001

This will be a half-day meeting, following the EMS session on Communication and Media. If you are interested to participate please contact Tanja Cegnar.

SIM3

EUMETNET-DARE

Wednesday, 5 September 2018, 11:00–13:00

Room 2001

Meeting of the Data Rescue Expert Team

11:00–12:00: EUMETNET

12:00–13:00: HISTALP

SIM4

Programme and Science Committee EMS2019 (by invitation only)

Tuesday, 4 September 2018, 18:45–19:45

Room 2001

SIM5

Weather briefings

Monday, 3 September 2018, 11:15–11:30

Tuesday, 4 September – Thursday, 6 September 2018, 09:45–10:00

Lecture room E III

Throughout the week daily weather forecast briefings will be given by forecasters of the Hungarian Meteorological Service OMSZ. They will all be presented in lecture room EIII, during the refreshment breaks.

The forecasters will be available to further discuss the specific situations and forecasts of the day.

The forecasters will be:

- Kornél Kolláth: He has 15 years of experience at the OMSZ Department of Forecasting. His special interests are nowcasting and warnings. Kornél Kolláth recently started working on an interdisciplinary research project on light pollution and meteorological observation.
 - Péter Baár: He graduated in January 2018, and is now working at the OMSZ Department of Forecasting. His special interests are weather induced damage research and warnings.
-

SIM6

Meet the President

Tuesday, 4 September 2018, 16:00–16:30

EMS booth, details see page 7

SIM7

Meet the committee chairs

Wednesday, 5 September 2018, 16:00–16:30

EMS booth, details see page 7

SIM8

Conveners' reception (by invitation only)

Wednesday, 5 September 2018, 19:00–20:30

Foyer, 2nd floor

SIM9

PRIMET AGM (by invitation only)

Tuesday, 4 September 2018, 13:00–16:00

Room E338

SIM10

PRIMET-ECOMET Meeting (by invitation only)

Wednesday, 5 September 2018, 13:15–16:15

Room 2001

SIM11

European Climate Services

Friday, 7 September 2018, 11:00–13:00

Room 2001

SIM12

IABM Annual General Meeting (by invitation only)

Tuesday, 4 September 2018, 16:30–18:30

Room E338

THE GLOBAL WEATHER ENTERPRISE: PANEL DISCUSSION

WEDNESDAY, 5 SEPTEMBER, 09:45–12:00 | ROOM E II

"The weather enterprise is a well-established and successful global public-private partnership in which both sectors share common goals. There are new opportunities emerging to develop this partnership further that will enable the whole enterprise to grow and produce more accurate and reliable weather forecasts. The urgency to do this comes from the need to be even more effective in saving lives and protecting infrastructure because of vulnerability to weather hazards in a changing climate." WMO Bulletin Vol.65 (2) – 2016

There is an increasing demand for accurate weather and climate information to serve the needs of our global community. Users may be individuals or corporations and their needs may relate to activities involving leisure, safety or commerce. The delivery of the required information depends on the successful operation of three key elements: The Public sector, Academia, The Private sector.

- The Session will be chaired by **Dr Louis Uccellini**, Director National Weather Service, USA
- **Dimitar Ivanov**, Executive Assistant to Secretary-General WMO will review current Activities and progress

Three eminent speakers will present their views on the current state of the Global Weather Enterprise:

- **Dr Michael Staudinger**: President of ECOMET and Director, ZAMG Austria National Weather Service
- **Prof Leonard Smith**: Director Centre for the Analysis of Time Series, London School of Economics
- **Dennis Schulze**: Chair of PRIMET and Chief Meteorology Officer, MeteoGroup

This will be followed by a panel discussion to address some issues raised in the presentations.

More details on the programme on page 51.