

## EMS ANNUAL REPORT 2018

The Society's Annual Report  
is submitted to the EMS General Assembly 2019  
by the EMS Council.

# Content

- 01 Message from the President
- 02 Membership
- 03 Council & General Assembly 2018
- 04 EMS Annual Meeting 2018
- 05 Communication & Publications
- 06 International Collaboration
- 07 Outreach & Media
- 08 Awards
- 09 Our Resources: Financial Accounts 2018
- 10 Council and Council Bodies
- 11 Associate Members



## 01 Message from the President

*In this Annual Report you will find descriptions of the important achievements in the last year. These include the impressive development of the Annual Meeting to meet changing requirements, the increased efforts to enhance communications with and between the EMS membership using the ems-message, and the organisation of training workshops aimed at enhancing communication with the media. Also there is information about how the awards programme is used to support young scientists and recognise outstanding achievements.*



*The last EMS Annual Meeting (EMS2018) was held at the Corvinus University in Budapest. EMS2018 was well attended and attracted over 700 participants from about 50 countries. The theme of EMS2018 was “Weather and climate: global change and local hazards” with a programme that focused on “Engagement with Society”, “Operational Systems and Applications”, and “Understanding Weather & Climate Processes”. In addition, there were various side meetings, workshops, exhibitions and demonstrations that contributed to the success of the meeting. Zoltán Dunkel and his colleagues on the Local Organising Committee are thanked for making EMS2018 a successful and memorable event. The contributions of the Hungarian Meteorological Society (MMT), the Hungarian Meteorological Service (OMSZ), the Programme & Science Committee, Copernicus Meetings and many supporters, sponsors and volunteers are also much appreciated.*

*We are fortunate that the various teams and committees which report to Council are composed of enthusiastic and committed people who freely give their time to make a success of the EMS. Particular thanks go to the chairs of these bodies: Sylvain Joffre (Committee on Meetings), Emily Gleeson (Liaison Committee), Tanja Cegnar (Media & Communications Team), Guðrún Nína Petersen (Awards Committee) and Ben Dieterink (Technology Achievement Award Committee). Thanks also go to two people that have stepped down from the Awards Committee: Guðrún Nína Petersen (Iceland), who chaired the committee for the last three years, and Jean-Noël Thépaut (ECMWF).*

*The EMS benefits from the enthusiasm and wisdom of the members of Council. The contributions of Fritz Neuwirth (ÖGM, Austria) and Svante Bodin (SMS, Sweden), whose terms of office have come to an end, are greatly appreciated. They are replaced by Saskia Willemse (SGM, Switzerland) and Panagiotis Nastos (EMTE, Greece).*

*I am delighted that Council re-elected Jean-Pierre Chalon (Météo et Climat, France) as Vice-President and Heinke Schlünzen (DMG, Germany) as Treasurer for a three year term until 2021. They play a key role in overseeing the activities of the EMS. Also the effective and efficient functioning of the EMS depends heavily upon the EMS Secretariat consisting of Martina Junge, Executive Secretary, and the assistant, Andrea Oestreich. I thank them for the support they have given me and their contributions to the activities and success of the EMS.*

**Bob Riddaway, EMS President**

## 02 Membership

By the end of 2018 the EMS had 37 Member Societies. In addition, there are 29 Associate Members: National Meteorological and Hydrological Services, Service Providers, Manufacturers, Education and Research Institutions, and International Organisations. Each of these groups can delegate one observer to Council Sessions to represent their specific views on any issue and advise the Council. Three international organisations have permanent observer status at the Council.

### New Members in 2018

In 2018 two societies joined the EMS as new Member Society.

The **Zdruzenie na Vozduhoplovni Meteorolozi – Meteo (ZVMM)**, the North-Macedonian Association of Aeronautical Meteorologists, was founded in 2000, and its members are mostly forecasters and observers working at the two international airports in North Macedonia. The objectives of the society are to help aeronautical meteorologists work together on similar ideas with enthusiasm and to maintain a high level of professionalism by exchanging ideas and good practice.

The **Asociația Română de Meteorologie Aplicată și Educație (ARMAE)** was founded in 2017. The organisation currently has 20 members and plans to develop meteorological education programmes for secondary and high-school students in Bucharest, organise regular meetings with weather enthusiasts and hold workshops on various topics such as urban climate, weather and folk tradition or history of meteorology in Romania.

### Membership 2018 in numbers

#### Member Societies: 37

Number of states: 31

Number of individuals represented: 10,301

#### Associate Members: 29

National Meteorological and Hydrological Services: 14

Private Service Providers: 6

Manufacturers: 5

Education and Research Institutions: 1

International Organisations: 3

### EMS Member Societies 2018

**ANDORRA** ASOCIACIÓ DE METEOROLOGIA I CIENCIES DE L'ATMOSFERA D'ANDORRA

**AUSTRIA** ÖSTERREICHISCHE GESELLSCHAFT FÜR METEOROLOGIE

**BELGIUM** SOCIÉTÉ ROYALE BELGE D'ASTRONOMIE, DE MÉTÉOROLOGIE ET DE PHYSIQUE DU GLOBE

**BOSNIA AND HERZEGOVINA** UDRUŽENJE METEOROLOGA U BOSNI I HERCEGOVINI

**BULGARIA** AVIOMETEOROLOGICAL CLUB OF BULGARIA  
BULGARIAN METEOROLOGICAL SOCIETY

**CROATIA** HRVATSKO METEOROLOŠKO DRUSTVO

**CYPRUS** CYPRUS METEOROLOGICAL ASSOCIATION

**CZECH REPUBLIC** ČESKÁ METEOROLOGICKÁ SPOLEČNOST

**DENMARK** DANSK METEOROLOGISK SELSKAB



## 03 Council & General Assembly 2018

FINLAND GEOFYYSIKKOJEN LIITTO  
GEOFYSIIKAN SEURA

FRANCE MÉTÉO ET CLIMAT - SOCIÉTÉ MÉTÉOROLOGIQUE  
DE FRANCE

GERMANY DEUTSCHE METEOROLOGISCHE GESELLSCHAFT

GREECE ELLINIKI METEOROLOGIKI ETAIREIA

HUNGARY MAGYAR METEOROLÓGIAI TÁRSASÁG

ICELAND VEÐURFRÆÐIFÉLAGIÐ

ISRAEL ISRAEL METEOROLOGICAL SOCIETY

IRELAND IRISH METEOROLOGICAL SOCIETY

ITALY SOCIETÀ METEOROLOGICA ITALIANA  
ASSOCIAZIONE ITALIANA DI AGROMETEOROLOGIA  
ASSOCIAZIONE ITALIANA DI SCIENZE DELL' ATMOSFERA E  
METEOROLOGICA  
UNIONE METEOROLOGICA DEL FRIULI VENEZIA GIULIA

THE NETHERLANDS NEDERLANDSE VERENIGING TER  
BEVORDERING VAN DE METEOROLOGIE

NORTH MACEDONIA ZDRUZENIE NA VOZDUHOPLOVNI  
METEOROLOZI – METEO

NORWAY FORSKERFORBUNDETS METEOROLOGIFORENING

POLAND POLSKIE TOWARZYSTWO GEOFIZYCZNE  
– METEOROLOGICAL SECTION

PORTUGAL ASSOCIAÇÃO PORTUGUESA DE  
METEOROLOGIA E GEOFISICA

ROMANIA SOCIETATEA METEOROLOGICA ROMANA  
ASOCIAȚIA ROMÂNĂ DE METEOROLOGIE APLICATĂ ȘI  
EDUCAȚIEDEA

SERBIA METEOROLOSKO DRUSTVO SRBIJE

SLOVAKIA SLOVENSKÁ METEOROLOGICKÁ SPOLOČNOST

SLOVENIA SLOVENSKO METEOROLOŠKO DRUŠTVO

SPAIN ASOCIACIÓN METEOROLOGICA ESPAÑOLA  
ASSOCIACIÓ CATALANA DE METEOROLOGIA

SWEDEN SVENSKA METEOROLOGISKA SÄLLSKAPET

SWITZERLAND SCHWEIZERISCHE GESELLSCHAFT FÜR  
METEOROLOGIE

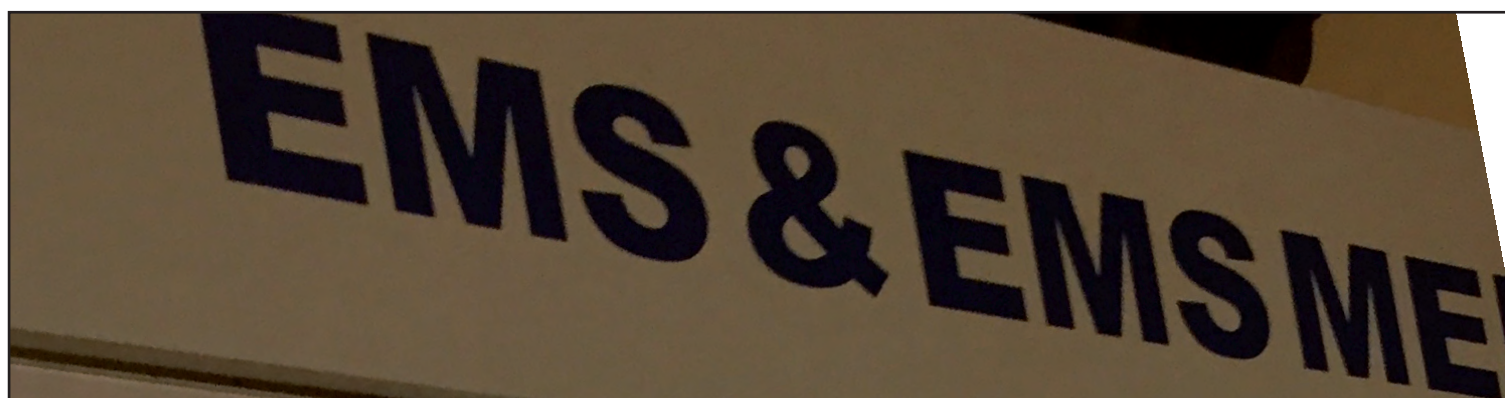
UNITED KINGDOM ROYAL METEOROLOGICAL SOCIETY

The EMS Council met on 10/11 April in Norrköping for its 38th Session and on 2 September 2018 in Budapest for its 39th Session. The 20th General Assembly convened on the 2 September 2018, following the meeting of the Council.

### Council

The Council consists of representatives of the Member Societies from France, Germany and the UK along with six representatives from Member Societies who are elected by the General Assembly. It plans, directs, monitors and manages the affairs of the Society. This includes monitoring income and expenditure, the activities of the committees and the implementation of the strategic plan. The following are some of the key decisions taken at the two Council meetings held in 2018.

- **Elections:** The Council re-elected Jean-Pierre Chalon (Météo et Climat, France) as Vice-President and K. Heinke Schlünzen (DMG, Germany) as Treasurer for a three year term until 2021.
- **MDPI Proposal:** Council declined the offer by MPDI to have EMS affiliated with the journal *Atmosphere*.
- **Silver Medal:** Council selected Tillmann Mohr as the recipient of the EMS Silver Medal 2018.
- **New Members of Committees:** Council approved the following new members of EMS committees: Awards Committee – Manfred



Wendisch (Germany) and Patricia de Rosnay (ECMWF); Committee on Meetings – Haleh Kootval (Switzerland); Technology Achievement Award Selection Committee – Tarja Riihisaari (Finland), Paul Halton (Ireland) and Dominique Marbouty (France). Also the membership of the Programme and Science Committee for EMS Annual Meeting 2019 and the selection committees for the 2018 Media Awards were approved.

- **Europhotometeo:** Council decided to launch a new Europhotometeo competition for 2020. The call for submissions is planned for autumn 2019. Funds for the implementation of the competition tools were approved.
- **Budget 2019:** Council approved the 2019 EMS Budget.

### General Assembly

Apart from formal decisions such as the approval of Bureau and financial reports, the election of representative Members on the EMS Council, and dealing with constitutional matters, the meeting was organised to enable more discussion on specific issues:

- Communication with and between EMS Members and Associate Members;
- Accreditation schemes in different countries, opportunities for mutual support and also challenges in implementation;
- Support for early career scientists.

The following are some of the key decisions taken at the General Assembly.

- **Membership:** The General Assembly welcomed the Zdruzenie na Vozduhoplovni Meteoroloji – Meteo (ZVMM) from Macedonia as new EMS Member Society.
- **Council Elections:** The General Assembly elected the following Societies as Representative Members on the EMS Council for the term until 2021: Schweizerische Gesellschaft für Meteorologie (SGM), represented by Saskia Willemse, and Elliniki Meteorologiki Etaireia (EMTE), represented by Panagiotis Nastos.
- **Changes to Rules of Procedure for the General Assembly and Council:** The General Assembly decided to introduce the option of nominating a proxy for a General Assembly. Updated rules for Council's votes by correspondence were approved, and rules for the representation by EMS Members on the EMS Council were clarified.
- **Auditors:** The General Assembly appointed Keil GmbH, Wirtschaftsprüfungsgesellschaft – Steuerberatungsgesellschaft, Berlin Germany, as the auditor for the accounts of the year 2018.

The minutes of the General Assembly are accessible at [here](#).



**Saskia Willemse**

representing SGM

- Head of Emergency Management and Concepts, MeteoSwiss
- CoM member until 2018



**Panagiotis Nastos**

representing EMTE

- Professor at National and Kapodistrian University of Athens

## 04 EMS Annual Meeting 2018

The central event in the EMS calendar is the EMS Annual Meeting. Many of the EMS initiatives and projects gather around this important event: workshops are held, awards are presented and the committees and project teams have ample opportunities to meet.

The Annual Meeting 2018 (EMS2018) was no exception. Held in September in Budapest, the setting of the venue – the Corvinus University in the centre of the city – was easily accessible. Also it provided a stimulating working environment and ready access to shops and restaurants.

The focal point of the conference was the central foyer hall, illuminated by day light from above, where the majority of posters were displayed and catering provided. That was where people met, discussed the posters or exchanged ideas about research and new tools and products. The size of the conference – daily participant numbers were between 300 and 400 – provided ideal opportunities for practitioners, researchers and communicators to exchange views across sectors and areas, and was “small” enough so it is easy to stumble into everybody.

The EMS2018 was attended by 714 participants from 50 countries. Many organisations used the meeting as an opportunity to hold side events or workshops.

The conference theme, “Weather and climate: global change and local hazards”, highlighted that the challenges for meteorology are growing.

Citizens, decision-makers, indeed all of society require information on the consequences of our changing climate, and especially on weather and climate hazards that seem to occur more frequently and to have a significant impact on humans, nature, and infrastructure. The essential role of meteorology since the start of operations remains unchanged – the provision to society of reliable forecasts and trustworthy warnings. However, in the 21st century, impact predictions and long-term projections of climate change are also needed to support national strategic decisions aimed at saving lives and reducing the costs of natural hazards. All of these challenges place increasing responsibility on scientists and forecasters, as well as on meteorological companies, institutions, and organisations: the whole “weather and climate enterprise”.

Photos, videos and participation statistics from the conference are available through the following links:

- [EMS2018 country statistics](#) of participants
- [EMS2018 Photo gallery](#)
- [EMS2018 Short interviews](#) with participants, awardees, exhibitors
- [EMS2018 Outstanding poster](#)

The conference programme consisted of 45 sessions. 435 oral presentations and 375 poster presentations were scheduled during the week; poster pitches of 1-2 minutes provided the opportunity for all poster authors to present



the content during the oral sessions and invite colleagues to view their posters. 173 (23%) of the oral and poster presentations were uploaded by the authors after the conference and are publicly available from the **session programme** together with the abstracts.

## Plenary Keynotes

The introduction of plenary keynote presentations on topics connected to each of the Programme Streams proved highly popular in the previous year. Consequently, this was continued by having morning talks by eminent speakers who provided insights and overviews on hot topics in their area.

- Sonia Seneviratne, ETH Zurich: Projecting changes in impacts at 1.5°C vs 2°C global warming: **The role of land processes**
- Haleh Kootval, World Bank:  
**Great Forecast - Poor Outcome:**
- Tiziana Paccagnella, ARPA-SIC: Kilometric-scale **Numerical Weather Prediction of severe and localized precipitation events**

## Exhibition

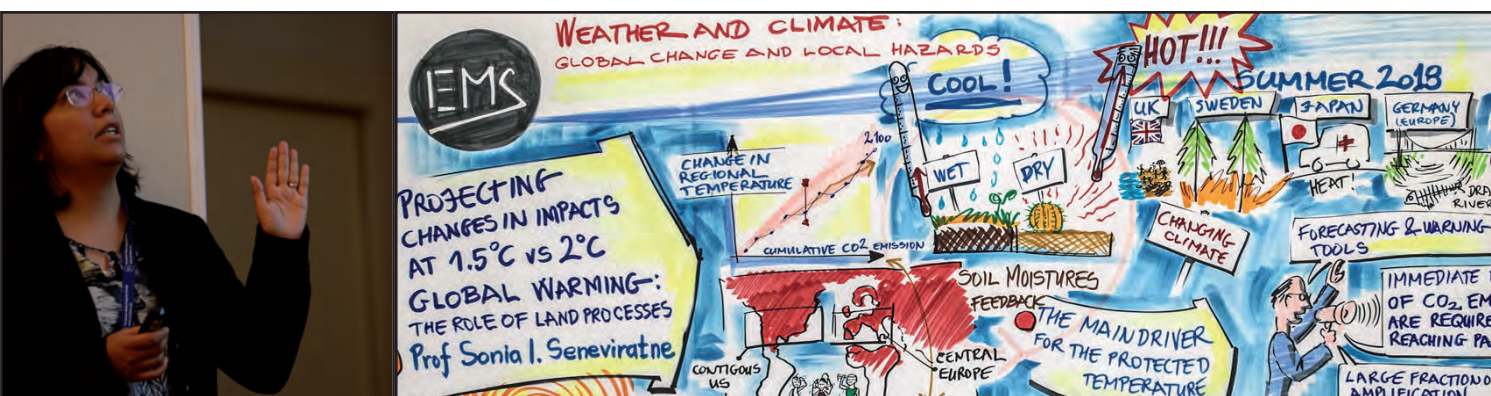
The exhibition, consisting of four stands in the central foyer, enjoyed plenty of attention during coffee breaks. Scintec, a manufacturer of advanced instruments for remote sensing of atmospheric wind, temperature and turbulence, provided information about their products and future plans. PRIMET, the association of private service providers in Europe, informed

participants about their activities; the association also organised a session on the Global Weather Enterprise in collaboration with ECOMET and moderators of the programme stream *Engagement with Society*. In addition, the Copernicus Climate Change Service operated by ECMWF exhibited at the EMS, and the open access publisher MDPI presented up-to-date information on their latest publications and activities in areas relevant to the participants of the meeting.

This year the EMS had a booth providing a meeting point for EMS committees and others who had an interest in the EMS. Events were organised at the booth on two afternoons: “Meet the EMS President” and “Meet the Committee Chairs”, the latter with Emily Gleeson, chair of the EMS Liaison Committee and Sylvain Joffre, chair of the EMS Committee on Meetings. The events were intended to provide the opportunity for participants to ask questions about EMS, activities of its Members or discuss any ideas – though little use was made of this opportunity. Also, the booth was used to display material provided by EMS Member Societies; ten organisations made use of this.

## Outstanding Poster Award

The Outstanding Poster Award 2018 was won by Peter Kalverla, a PhD candidate from the University of Wageningen in the Netherlands with the Poster *A North Sea climatology of anomalous*



wind events. The poster describes a new way to define realistic inflow fields based on weather pattern clustering to be used for the computation of energy production with off-shore wind turbines instead of idealized wind conditions. The topic is explained with a series of simple illustrations and very short texts while minimizing the use of acronyms. The QR-Code in the right upper corner of the poster led to the corresponding scientific publication. The result of this work has the potential to generate a benefit to the production of wind energy and, with that, a benefit to society. The poster can be viewed [online](#).

### Communication – Graphic visualising

A new element of the conference was the attempt of an illustrator to visually record the key points of presentations through live drawing, while the speakers are presenting and explaining their thoughts and results. Szilárd Strenner, of Grafacity Visual Services in Budapest, produced impressive records of some of the keynotes and media session talks. He also captured his impressions of the poster sessions. The drawings were a magnet for participants, and were discussed during the entire event. Szilárd Strenner summarised his impressions and experience from the conference in a [post he wrote for the ems-message](#).

### Feedback

Feedback from participants (170 replies/24%) is summarised in these [slides](#).

### Future Meetings

EMS Annual Meetings have been arranged for the next three years.

- 9–13 September 2019, Technical University of Denmark – Lyngby, Copenhagen, Denmark
- 7–11 September 2020, University of Economics, Bratislava
- 6–10 September 2021, Historical University of Barcelona



## 05 Communication & Publications

The main objective of communication and publication activities is to share information on the activities of EMS Members, provide examples of good practice, and facilitate the sharing of experience and fostering of collaboration between the Members and Associate Members.

The channels of communication include the website, the electronic newsletter called the “ems-message” and social media channels. In addition, short conference papers based on contributions to the EMS Annual Meetings are published in *Advances in Science and Research – Contributions to Applied Meteorology and Climatology*. Discussions at the General Assembly also play an important role in the exchange of information. For more information see the [website](#).

### Website and Social Media

The most important tool of communication between the EMS and its Members is the EMS website: [www.emetsoc.org](http://www.emetsoc.org). It provides information about the activities of the EMS as well as other initiatives and events of interest to the wider meteorological community:

- Information on each Member and Associate Member including links to reports on their most recent initiatives and activities;
- News section dedicated to the activities of Member organisations;
- Interview of the month with the President of an EMS Member Society; also interviews with

individuals of Member Societies and with Associate Member representatives have been introduced;

- Many resources and links, plus announcements of awards and job opportunities.

The EMS also posts information on current activities on:

- **Twitter**
- **LinkedIn**
- **Facebook**

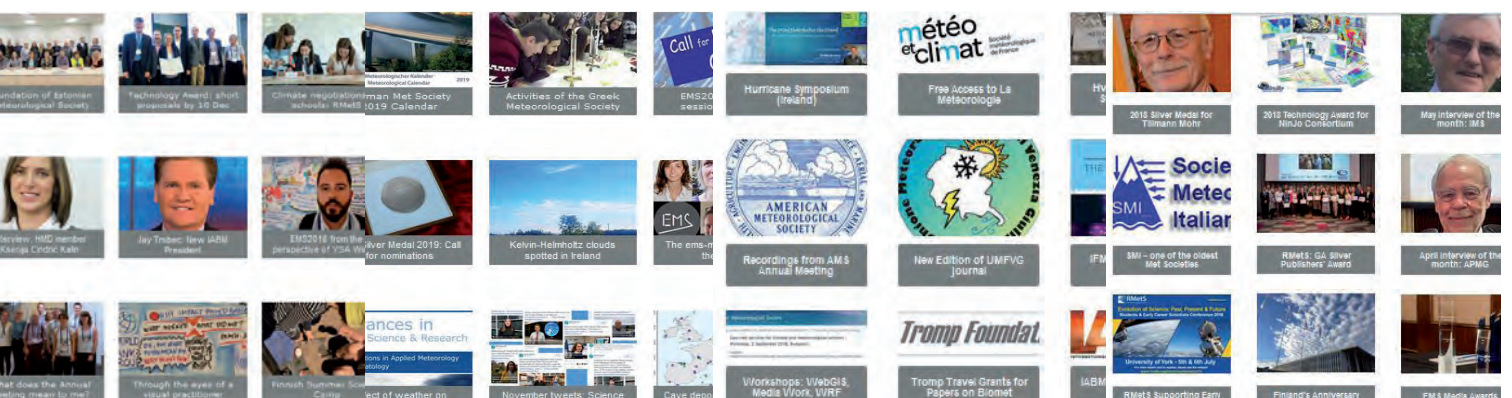
Also streams of conference sessions, interviews and highlights of the EMS2018 are available on

- **YouTube**

### ems-message:

The ems-message is an e-mail-based newsletter highlighting the latest news items published on [www.emetsoc.org](http://www.emetsoc.org). With the launch of the Liaison Committee, more information from EMS Members is now provided:

- Seven issues of the ems-message were published in 2018, with 12 to 18 articles in each edition;
- The majority of articles contain interesting information about activities, events and new initiatives by EMS Members; but information on European organisations such as EUMETNET and scientific articles have also been included;
- Additional topical information about the activities of EMS, job announcements, upcoming conferences, and announcements



and closing dates related to EMS awards are provided by the Liaison Committee. Subscription to the ems-message is possible on the [website](#).

### Conference Proceedings

Contributions to the EMS Annual Meetings can be published as short conference papers in *Advances in Science and Research - Contributions in Applied Meteorology and Climatology*. The subtitle has been revised to better reflect the content and topics covered.

Advances in Science and Research (ASR) publishes original contributions on (a) advances in understanding weather and climate processes and (b) the development of operational systems

and applications of meteorology, climatology, and related disciplines. This also includes new challenges and the role of communication, education and training, and engagement with society for the profession and its practices.

ASR is an open-access journal for contributions presented at the Annual Meetings of the EMS and other related events. Submissions to ASR undergo a peer-review. Convenors of sessions at the EMS2018 volunteered to be guest editors for their specific topics. Articles published in ASR are included in the Conference Proceeding Citation Index (CPCI) which is part of the Web of Science™ Core Collection.

### Some of the first papers published in Volume 16: 18th EMS Annual Meeting

13 Feb 2019

[Numerical simulations of winter cold damage to citrus fruits using the WRF model](#)

Yukitaka Ohashi and Hideki Ueyama

28 Feb 2019

[Solar PV nowcasting based on skycamera observations](#)

Oleksandra Voronych, Robert Höller, Germanno Longhi Beck, and Wolfgang Traummüller

22 Mar 2019

[Teleconnections and Extreme Ocean States in the Northeast Atlantic Ocean](#)

Emily Gleeson, Colm Clancy, Laura Zubiate, Jelena Janjić, Sarah Gallagher, and Frédéric Dias



## 06 International Collaboration

The EMS as an international organisation strives to maximise the effectiveness and efficiency of its activities by connecting and collaborating with other organisations in the meteorological, climatological and related areas.

### Tromp Foundation

The EMS Tromp Award was established in 2015 as a collaboration between the Tromp Foundation and the EMS. This award, funded by the Tromp Foundation, is aimed at promoting biometeorology in Europe, and is given for an outstanding achievement in biometeorology.

The EMS Tromp Award 2018 was presented to Fiorella Aquavolta, Turin, Italy, who was nominated with the paper *Role of climate in the spread of shiga toxin-producing Escherichia coli infection among children*, F. Acquavolta, G. Ardissino, S. Fratianni, M. Perrone, published in April 2017 in *Int. J. Biometeorol*, 61:1647–1655, DOI 10.1007/s00484-017-1344-y. Fiorella Aquavolta gave an award lecture at the EMS2018 in Budapest in the session “Atmospheric effects on humans”.

The Tromp Foundation also provided funding for young scientists to participate in the EMS Annual Meetings to present contributions in the area of biometeorology. Six young researchers were selected:

- Livia Labudová (Slovakia), presenting *Monitoring of drought impacts and the DriDanube project*
- Claudia Di Napoli (UK), presenting *Towards a*

*pan-European forecasting system for heatwave-related health hazards*

- Coral Salvador (Spain), presenting *Health effects on daily mortality of a hydrological extreme: the case of the droughts in Galicia, Spain*
- Irena Nimac (Croatia), presenting *Urban climate of Zagreb (Croatia) – its characteristics and changes*
- Mikhail I. Varentsov (Russian Federation), presenting *Effects of the climate change and city development on summertime urban heat island and heat stress indices for Moscow megacity*
- Dian Csenge (Hungary), presenting *Urban heat island intensity analyse based on surface and air temperature measurements in Budapest*

### Global Weather Enterprise (GWE)

A panel discussion on the further development of the GWE was organised during EMS2018 by PRIMET and ECOMET together with the Moderators of the *Engagement with Society* – Programme Stream as part of series of meetings and discussions on GWE. There was also large participation from the concurrently held meeting of the International Forum of Meteorological Societies (IFMS).

The GWE Session was chaired by Louis Uccellini, Director of the US National Weather Service, and Dimitar Ivanov, Executive Assistant to Secretary-General WMO. They reviewed current activities and progress, and eminent speakers from the



public sector, private sector and academia presented their views on the current state and further directions of the GWE. It was recognised that the GWE concept and PPA (Public Private Academic partnership) collaboration bring new opportunities and risks and these need to be considered carefully to avoid conflicts. Also, for developing countries, capacity building needs to focus not only on government services but also the empowerment of the private sector.

### **International Forum of Meteorological Societies (IFMS)**

Meeting 5 of the IFMS was held for two days concomitantly with EMS2018 in Budapest. The meeting discussed the IFMS value proposition and its implementation, the role of meteorological societies in international cooperation in climate science, the role of IFMS in strengthening GWE, experiences of various societies in engaging members in volunteerism, preparatory work for participating to the WMO Congress in 2019, and how IFMS should get involved with the meteorological community at the AMS Centennial Meeting; also the development of a communication strategy of IFMS was an issue. The full report is available at the [IFMS website](#).

The Media & Communications Team investigates the way presentations have an impact on the public, serves as a forum for exchange of experience between meteorologists and climatologists working in the media in different countries, and cooperates with weather presenters that are members of the AMS, International Association of Broadcast Meteorologists (IABM) and other organisations.

### **Training workshop**

A workshop on tips for effectively dealing with the media was held at EMS2018 in Budapest. This was a popular, interesting and informative workshop that was run by experienced professionals used to dealing with the media in their daily work.

The one-day workshop was mainly focused on practical work with participants. The interactive exercises involved media interviews: how to create key messages in preparing for an interview and how to deliver them during live-production. Each interview was video-recorded and then trainers provided individual assessment and recommendations to each interviewee.

The success of the training was underpinned by trainers' outstanding qualifications and participants' high motivation. General guidelines on use of social media were also addressed.

The workshop on communication for NHMS communications officers was held alongside EMS2018. In the first part, Jill Peeters presented



the initiative *Climate without Borders*, launched in 2017 and supported by WMO. The primary intention of the initiative is to raise the awareness and need to strengthen mitigation of climate change with reducing GHG emissions. The second item on the agenda was discussion and tell-and-show dedicated to magazines and monthly to annual bulletins. All participants agreed that it is very time- and resources-consuming to publish such magazines, but they are a very valuable contribution to the society.

### Media Awards

One of the central objectives of the EMS is the exchange of views on how to improve communication of meteorological and climatological information between developers, users and decision makers, and to the general public. To highlight outstanding examples and achievements in this area, the EMS Media Awards have been established.

#### **EMS Outreach & Communication Award 2018:**

This award was presented to the online course *Come rain or Shine* that was developed in partnership by the Royal Meteorological Society and the University of Reading, UK. The three week course focusses on the processes and phenomena which govern UK weather, and the content was developed with the needs of UK secondary geography teachers in mind, however the course was open and very much of interest to all. Running a course on the FutureLearn platform – a leading Massive Open Online Course platform delivering online learning to participants

around the world – supports the interactive and engaging aspects of this project.

**EMS Broadcast Meteorologist Award:** This biennial award was presented to Evelyn Cusack, Head of the Forecasting Division in the Irish Meteorological Service, Met Éireann. Her long, distinguished career in meteorological science began as a weather forecaster in 1981 and she extended her broadcasting skills to television in 1988. She has presented the weather on the Irish national television station, RTÉ, for more than two decades. As well as television forecast bulletins, Evelyn also presents the weather on the national radio station and is routinely interviewed on news and current affairs programmes on radio and television regarding all matters of a meteorological nature.

**EMS TV Weather Forecast Award:** This award was presented to Dunja Mazzocco Drvar, a meteorologist, editor and weather presenter with RTL Hrvatska (Croatia). Her entry integrated climate information to put the forecast in perspective – the type of information that should be encouraged. The forecast consisted of general information, a regional forecast, and sea surface temperatures that viewers might find helpful. The broadcast was well-paced with clean graphics. The video clips are available from the **Best Practice website**.



## 08 Awards

The Awards Programme of the EMS honours outstanding achievements of meteorologists through the EMS Silver Medal, the Technology Achievement Award and the Media Awards, acknowledges excellence in young scientists through the Young Scientist Award, and provides travel support for scientists in the early stage of their career. The Outstanding Poster Award highlights good practice in poster presentations, and the Outstanding Contribution Award recognises important contributions to the development of the Society. The presentation of all awards, including the Awards provided by the Tromp Foundation, took place during the EMS2018 in Budapest on 3 September 2018.

### Young Scientist Travel Awards

Most awards are given as travel support for young scientists in the early stage of their careers. As a result, they can participate in international conferences that provide opportunities for communicating and discussing their work, developing expertise as well as enlarging their network of collaboration.

In 2018, the EMS assigned eight Young Scientist Travel Awards (YSTA) for participation in five events. The awardees came from Bosnia and Herzegovina (1), France (1), Hungary (1), Italy (1), Lithuania (1), Russian Federation (1), Sweden (1), and the UK (1). Reports by award recipients are published in the [awards section](#) on emetsoc.org.

### **Air Quality 2018, Barcelona, Spain**

- Ilaria Gandolfi (33), University of L'Aquila, Italy  
*PM10 and black carbon vertical profiles in three Italian valleys: analysis of measurements and high resolution modelling*

### **NMM 2018, Reykjavik, Iceland**

- Justinas Kilpys (32), Vilnius University, Lithuania  
*Creating a cloud-free MODIS snow cover product using spatial and temporal interpolation and temperature thresholds*

### **MountainMet 2018, Santa Fe, USA**

- Julián Quimbayo-Duarte (30), Université Grenoble Alpes, France  
*Drivers of high pollution concentration in a deep valley during wintertime*

### **ERAD 2018, Ede, The Netherlands**

- Daniel Watters (22), University of Leicester, UK  
*On the capabilities of the GPM Core Observatory over Great Britain and Ireland*

### **EMS2018, Budapest, Hungary**

- Júlia Göndöcs (25), Eötvös Loránd University, Budapest, Hungary  
*Regional dynamical downscaling with WRF model for the estimation of potential changes in urban heat island intensity in Budapest*
- Aleksandar Jankovic (32), University of Banja Luka, Bosnia and Herzegovina  
*Future global warming impacts on residential heating and cooling energy demand over part of Pannonian basin and Balkan Peninsula*



- Lorenzo Minola (27), University of Gothenburg, Sweden  
*How well do Regional Climate Models simulate and parametrize surface wind speed and wind gust across Scandinavia?*
- Vladimir Platonov (31), Lomonosov Moscow State University, Russian Federation  
*Extreme wind speed analysis: a new approach to observational high-resolution modelling data*

### EMS Silver Medal

The EMS Silver Medal 2018 was presented to Tillmann Mohr, Germany. He was honoured for his key role in shaping the European Meteorological Infrastructure (EMI). Under his visionary leadership, EUMETSAT matured into an internationally recognised organisation. In addition, he made an outstanding contribution to establishing a global space-based meteorological observing programme under the umbrella of WMO and has been instrumental in developing training and educational programmes for satellite meteorological products in Africa and worldwide. Throughout his entire career, he has been committed to the European meteorological community and has been very active in convincing decision-makers, as well as the public, about the importance of meteorological observations from space.

The laudation was delivered during the EMS2018 in Budapest by **Anton Eliassen**, former Director-General of Norwegian Meteorological Institute and Chair of the EUMETSAT Council, and recipient of the EMS Silver Medal in 2015. Tillmann Mohr

gave a **Silver Medal Lecture** entitled *Architecture for Climate Monitoring from Space*

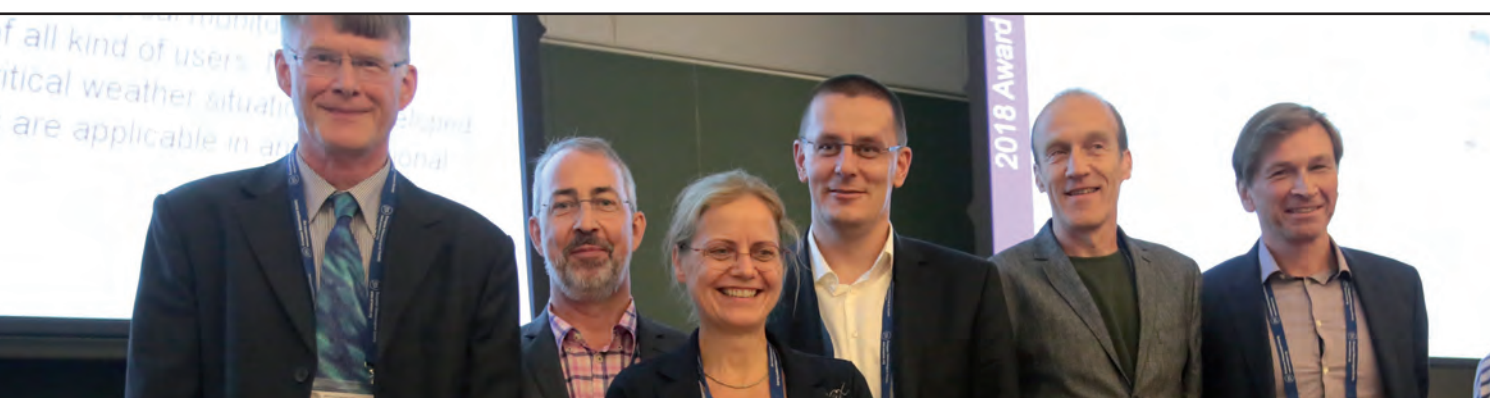
### Technology Achievement Award

The **international Ninjo Consortium** that developed the Ninjo operational meteorological workstation, received the EMS Technology Achievement Award 2018. This workstation is innovative and widely applicable as a universal monitoring, forecasting and warning system of greatest importance for the daily information of all kind of users. It has proven its quality in the daily production of countless forecast products even in critical weather situations. Developed by an international Consortium in Europe and Canada, its production capabilities are applicable in any operational environment.

The Ninjo consortium presented the workstation and applications during the entire week of the EMS Annual Meeting in Budapest and the team was happy to explain to everyone interested in the system and illustrate this with the weather (forecasts) of the day.

### Young Scientist Award

Georgios Varlas, Harokopion University of Athens, received the Young Scientist Award 2018, for the publication: *Implementation of a two-way coupled atmosphere-ocean wave modelling system for assessing air-sea interaction over the Mediterranean Sea*, G. Varlas et al, *Atmospheric Research*, (2017), <http://dx.doi.org/10.1016/j.atmosres.2017.08.019>. He gave an Award Lecture on his work at the EMS2018 in Budapest.



## 09 Our Resources: Financial Accounts 2018

The balance as at 31 December 2018 has increased by 538 8.71€ as compared to 31 December 2017.

### Summary Statement of Financial Activities for the Year 2018

All financial figures are given in Euro.

	2018	2017
<b>INCOME</b>		
Income Societies Membership Fees	19 185.27	19 619.78
Income Associate Membership Fees	36 810.00 <sup>a</sup>	36 400.00 <sup>a</sup>
Annual Meeting license fee	85 487.59	91 516.18
Other	5 984.13 <sup>b</sup>	6 906.13 <sup>b</sup>
Interest	44.88	36.45
<b>TOTAL INCOME</b>	<b>147 511.87</b>	<b>154 478.54</b>
<b>EXPENDITURE</b>		
Salaries (incl. expenses for employer)	82 005.58	80 336.52
Committees and Project Teams	0.00	0.00
Awards	7 421.99	6 605.81
Europhotometeo	0.00	0.00
Workshops	0.00	0.00
Publications	1 563.27	1 226.35
Honoraries, Fees, Insurances	4 185.16	4 469.55
Travelling	6 709.34	7 042.93
Banking charges	153.15	60.90
Office costs	681.85	1 055.40
Other costs	152.82	77.17
VAT Other	-0.01	2 250.00
Support Members and topical meetings	150.00	0.00
<b>TOTAL EXPENDITURE</b>	<b>103 023.15</b>	<b>103 125.33</b>
INCOME – EXPENDITURE	44 488.72	51 353.21
Payments on fixed and intangible assets	-5 616.80	0.00
ACCOUNT BALANCE 1 JANUARY	166 009.96	114 656.75
<b>ACCOUNT BALANCE 31 DECEMBER</b>	<b>204 881.88</b>	<b>166 009.96</b>

*a. Associate Membership Fee 2018 includes Fees 2016 and 2017:* 3 010.00€

*b. Other income: tax on license fee Annual Meeting 2018:* 5 984.13€

**Audit** The financial accounts have been audited on 05 June 2019 by the auditor appointed by the EMS General Assembly 2018. The auditor's report is submitted to the EMS General Assembly 2019.

### Auditors:

Dipl.-Finanzwirt  
Matthias Keil  
Wirtschaftsprüfer  
Steuerberater  
Palisadenstr. 40  
10243 Berlin  
Germany

# 10 Council and Council Bodies

## Committee Membership

### COMMITTEE ON MEETINGS

Renate Hagedorn (Germany)  
Sylvain Joffre (Chair, Finland)  
Haleh Kootval (Switzerland)  
Gert-Jan Steeneveld (The Netherlands)  
Saskia Willemse (Switzerland)  
Martina Junge (EMS)

### AWARDS COMMITTEE

Guðrún Nína Petersen (Chair, Iceland)  
Mojca Dolinar (Slovenia)  
Jean-Noël Thépaut (UK)  
Jenni Rauhala (Finland)  
Fulvio Stel (Italy)  
Carlos Yagüe (Spain)

### LIAISON COMMITTEE

Emily Gleeson (Chair, Ireland)  
Hrvoje Bobinac (Croatia)  
Sinéad Duffy (Ireland)  
Martina Junge (EMS)  
Hanneke Luijting (The Netherlands)  
Fritz Neuwirth (Austria)  
Andrea Oestreich (EMS)  
Bob Riddaway (UK)

### MEDIA AND COMMUNICATIONS TEAM

Rasmus Benestad (Norway)  
Tanja Cegnar (Chair, Slovenia)  
Gerald Fleming (Ireland)  
Inge Niedek (Germany)  
Jay Trobec (USA, AMS-liaison)

### TAA COMMITTEE

Ben Dieterink (Chair, Netherlands)  
Robert Mureau (Netherlands)  
Gerhard Steinhorst (Germany)  
Isabella Weger (UK)

## EMS Council

From 3 September 2017 the following Council held office:

### PRESIDENT

Robert R. Riddaway

### VICE-PRESIDENT

Jean-Pierre Chalon

### TREASURER

K. Heinke Schlünzen

### PERMANENT MEMBERS OF COUNCIL

Jean-Pierre Chalon (Météo et Climat, France)  
Ewen McCallum (RMetS, UK)  
K. Heinke Schlünzen (DMG, Germany)

### ROTATING MEMBERS OF COUNCIL

Josep Tomas í Bosch (AMACA, Andorra)  
Svante Bodin (SMS, Sweden)  
Zoltán Dunkel (MMT, Hungary)  
Sven-Erik Gryning (DaMS, Denmark)  
Paul Halton (IMS, Ireland)  
Fritz Neuwirth (ÖGM, Austria)

### STAFF

Executive Secretary:  
Martina Junge  
Assistant:  
Andrea Oestreich  
Tel: +49 – 30 – 838 59143  
e-mail: [ems-sec@emetsoc.org](mailto:ems-sec@emetsoc.org)

***The Free University of Berlin***

***KINDLY HOSTS THE EMS SECRETARIAT***

***AT THE PREMISES OF THE INSTITUTE FOR METEOROLOGY.***

# 11 EMS Associate Members 2018

## INTERNATIONAL ORGANIZATIONS

ECMWF READING, UNITED KINGDOM  
ESA PARIS, FRANCE  
EUMETSAT DARMSTADT, GERMANY

## COMPANIES

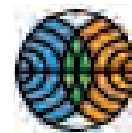
AZERBAIJAN AERONAVIGATIONS AZERBAIJAN  
EPSONMETEO ITALY  
INNOVATIVE SOLUTIONS FOR INSTRUMENTATION AND SCIENCE FRANCE  
INSTITUTE FOR WEATHER & CLIMATE COMMUNICATION GERMANY  
LEONARDO GMBH GERMANY  
METEOGROUP B.V. THE NETHERLANDS  
MODEM FRANCE  
SCISYS GERMANY  
VAISALA FINLAND

## RESEARCH AND EDUCATIONAL INSTITUTES

DEPARTMENT OF HYDROLOGY AND CLIMATOLOGY OF VILNIUS UNIVERSITY LITHUANIA

## NATIONAL & REGIONAL METEOROLOGICAL SERVICES

AGENCIA ESTATAL DE METEOROLOGÍA SPAIN  
CZECH HYDROMETEOROLOGICAL INSTITUTE CZECH REPUBLIC  
DEUTSCHER WETTERDIENST GERMANY  
FINNISH METEOROLOGICAL INSTITUTE FINLAND  
HUNGARIAN METEOROLOGICAL SERVICE HUNGARY  
KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT THE NETHERLANDS  
MÉTÉO-FRANCE FRANCE  
MET OFFICE UNITED KINGDOM  
METEOSWISS SWITZERLAND  
NATIONAL METEOROLOGICAL ADMINISTRATION ROMANIA  
NORWEGIAN METEOROLOGICAL INSTITUTE NORWAY  
REGIONAL METEOROLOGICAL OBSERVATORY OF ARPA FRIULI VENEZIA GIULIA, ITALY  
ROYAL METEOROLOGICAL INSTITUTE BELGIUM  
SERVEI METEOROLÒGIC DE CATALUNYA SPAIN  
SWEDISH METEOROLOGICAL AND HYDROLOGICAL INSTITUTE SWEDEN  
ZENTRALANSTALT FÜR METEOROLOGIE UND GEODYNAMIK AUSTRIA





# EMS TECHNOLOGY ACHIEVEMENT AWARD 2020

Achievements that are influential on developments of technologies and technical solutions in meteorology and related areas, have advanced the methods and technologies of environmental observing and forecasting systems and demonstrated the potential to impact on the field at the European scale are recognised. The Award is given in the form of a certificate.



## Submit a proposal for the TAA 2020:

- Optional deadline for short proposals: **10 December 2019**
- Final Deadline for submission of full proposal: **31 January 2020**

Nominations can be submitted by EMS Member Societies and EMS Associate Members and their respective members or staff.

Submissions and more information at: [awardapplication@emetsoc.org](mailto:awardapplication@emetsoc.org)

<https://www.emetsoc.org/awards/award-category/ems-technology-achievement-award/>