



EMS

ANNUAL REPORT

European Meteorological Society

2011

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

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Message from the President

Dear colleagues and friends,

In September 2011, I had the great honour of being elected president of the European Meteorological Society and so this is the first annual report prepared under my presidency. This report, however, is without doubt the result of the contribution of my predecessor, Fritz Neuwirth, in close co-operation with the Council and the Media, Education and Professional Practices Teams. I thank Fritz for his dedication, during the three years of his mandate, to further developing EMS into one of the important actors of the European meteorological landscape. Also my thanks go to Gerhard Steinhorst who has come to the end of his period of office as Treasurer - he has helped ensure that the EMS is on a sound financial footing.



The main task of EMS is to organise the Annual Meeting, thus offering members of the European meteorological community the opportunity to meet, exchange ideas and experiences, and develop further co-operation. From this point of view, the 2011 Annual Meeting in Berlin was particularly successful with more than 700 participants, 35 sessions and 500 presentations. As the first chair of the EMS committee on meetings ten years ago, I can appreciate the progress made since then. What is also very positive is that several side meetings are now taking place in parallel, showing that the EMS meeting has become the annual rendez-vous that was envisioned by the EMS founders.

I was particularly happy that Fritz asked me to present the laudatio for the 2011 EMS Silver Medal recipient, Jean-François Geleyn. With the development of Aladin, Jean-François has been the architect of one of the landmarks in European co-operation in meteorology, a typical showcase for the co-operative approach that underpins the activities of the EMS.

The EMS has been involved in a variety of other activities. For example, the Europhotometeo competition, initiated by the Spanish Meteorological Society, is now firmly established as one of the events of the meteorological agenda. It is typical of what EMS was created for: allowing an initiative of a national meteorological society to reach the European scale. Also the adoption of a common code of practice on how to communicate knowledge on climate change to the public is a typical EMS contribution. So 2011 was a good showcase of how EMS should continue to develop in the coming years, namely:

- continue to run the annual meeting, providing a forum for exchange and discussion for the entire European meteorological community;
- increase the exchange of information between meteorological societies, providing them with the opportunity to learn from others' experiences;
- create a European context for the varied activities of its Member organisations.

My thanks go to all EMS Members and partners for their contribution to the achievements of 2011. I am sure that together we can contribute to the continued success of the EMS. Indeed I am looking forward to meeting many of you at the 12th EMS Annual Meeting & 9th European Conference on Applied Climatology (ECAC) in Łódź and exploring how the EMS can further develop to meet your needs and those of the European meteorological community.

Dominique Marbouty, EMS President

MISSION STATEMENT

The European Meteorological Society (EMS) will advance the science, profession and application of meteorology, and of sciences related to it, at the Europe-wide level, for the benefit of the whole population.

To this end, EMS will help its Member Societies and Associate Members, individually and collectively, benefit all classes of their membership.

In particular, EMS will work to achieve better communication and understanding amongst the individual members of the European meteorological community under the auspices of Member Societies and Associate Members.

EMS shall be a non-profit-making organisation, operating always under its Constitution approved at a General Assembly by its Member Societies, and will arrange its activities economically, with the public good in mind.

EMS Code of Practice

For more than a year the idea of a code on ethical behaviour in communicating science results, developed in the context of the Media Session of the EMS Annual Meeting, has been discussed within the EMS community and beyond. Based on these deliberations, the 13th EMS General Assembly adopted a Code of Practice concerning how to communicate knowledge about climate change to the public. This Code of Practice is intended to be:

- Adopted by EMS Member organisations if it meets their requirements.
- Adapted by EMS Member organisations to address their specific situations and requirements.
- Used as guidance for individuals in the European community to support their interaction with media and the public.

The document is available from EMS website at

www.emetsoc.org/fileadmin/ems/dokumente/governance_structure/committees_project_teams/media/EMS_Code-of-Practice.pdf.

The code of practice will be further developed in response to feedback from Member Societies.

It is recognized that scientific knowledge is valuable for society, but it also becomes vulnerable in a media-dominated society where any misrepresentation of facts clouds the credibility of information. This situation is aggravated by the intrinsic level of unpredictability of the atmosphere and other earth system components resulting in uncertainty of information. Taking into account that scientists are often not trained in communication or ethics, freedom of speech is fragile in the sense that it can lead to the dissemination of incorrect or misleading information. High standards in science-related communication and media exposure, openness to rational debate and criticism, and honesty will increase the public confidence in science, relevant academies and scientists, in addition to benefitting society itself.

A set of guidelines may make the challenge easier for scientists to communicate with and through the media. Also awareness about the ethical aspects of science and science communication may aid scientists in having a clearer idea of the limits of knowledge and the current "state of art" in meteorology, and, consequently, making decisions about what to say and how, depending on each situation.

From the introduction to the Code of Practice

Membership and benefits

By the end of 2011 the EMS had 36 Member Societies and 29 Associate Members. The Bulgarian Meteorological Society, established in 2011 as section of the Union of Physicists in Bulgaria, joined the EMS as its 36th Member. The group of Associate Members consists of national meteorological and hydrological services, manufacturers, private service providers, educational and research institutions and Europe-wide organisations that support the aims of the EMS; the membership of the private service provider WKU ceased at the end of 2011.

The Member Societies and Associate Members provide the resource and expertise that allows the EMS to provide an umbrella for collaboration and communication within the broad meteorological community in Europe.

Benefits

A new benefit for Member Societies was introduced in 2010/2011. A central activity of Member Societies is to organise national, regional and topical meetings to promote the applications of meteorology and reach out to the public and specific user groups. These activities are often beyond the means of Member Societies, particularly the small ones, so the EMS has established a programme to support its Members in the organisation of such events.

An early example is the conference on *Challenges in Meteorology* that was organised in spring 2012 by the Croatian Meteorological Society, and targeted at communication of meteorology and climate science to the public, for example through educational workshops.

Communication skills for climatologists

The first *Workshop on Communication Skills for Climatologists* took place on 16 and 17 September 2011 in Berlin, following the EMS&ECAM conference. The workshop was designed as a pilot project and the number of participants was limited in order to allow for as much as possible individual training and practical communication issues. The target group consisted of climatologists who are occasionally interacting with the media, and would benefit in their performance in the media through such an intensive training on the basics of science communication.

The workshop programme did cover issues and training such as science communication, different media – different requirements, networking, the EMS recommendations on climate communication, non-verbal communication, effective use of the voice, short radio interviews and TV statements and their analysis, general press conference guidelines, simulation of a press conference, interviews in front of the camera and their individual analyses.



Rasmus Benestad

The first day started with the introduction of the EMS Code of Practice – communicating knowledge on climate change to the public, theoretical background on communicating the science of climate change and watching some good examples of climatologists intervening in scientific programmes and giving interviews. The points that build the credibility and authority of scientists were highlighted. The basics of body language, dress code, gestures and voice were also explained and demonstrated. As the group was highly heterogeneous it proved fruitful to share prior existing experiences of individual participants with the media.

On the second day the 12 participants formed 3 groups for the practical part. Topics covered in the exercises included preparing for an interview on TV or radio, preparing a press conference, rising interest of journalists and general public, dealing with inconvenient questions, compressing the information to typical time frames in the media, selecting highlights, tailoring information for policy makers, practicing interviews and delivering statements. Taping interviews of individuals allowed the group to analyse performance of each single participant, to point out the strengths and weaknesses and provide suggestions on how to improve.

The working language was English and for practical exercises two native speakers with an outstanding professional career at the interface of media and meteorology were engaged. The first was Dr. Claire Martin, Chair of International Association of Broadcast Meteorology, WMO expert and senior meteorologist at CBC, the second Frank Cavallaro, professional communicator and weather presenter at CBC. Both of them are holding several awards for their professional achievements. Dr. Rasmus Benestad, senior researcher at the Norwegian Meteorological Institute comprehensively illustrated how to communicate climate change science and introduced the benefits of networking. The development of the concept and the organisation of the workshop was taken care of by Tanja Cegnar, Chair of the EMS Media Team, in collaboration with Slovenian Environment Agency.

A general consensus of participants was that such a workshop is indeed useful and had helped to improve or reinforce their communication skills. A general opinion was that such workshops should be organised also in future. Participants committed to promote the need for networks of climatologists involved with the media, at the national and international level. The lectures given during the workshop are available from the DVD that contains material from the Media Session of the EMS&ECAM and the workshop. A copy can be requested from the EMS Office and is also distributed with the EMS&ECAC 2012 conference material.

“... don't underestimate how tough it can be to think straight when the camera is on you ...

... look the reporter in the eye while you're talking...

... watch yourself on a tape that is playing slightly speeded up, and with the volume turned off. This is a little trick that will exaggerate any nervous ticks you may have...

... avoid distracting ties ... remember the story is not about you, it's about the subject...

... If you have a 'blank' moment (and we all do at some point on-air!) – continue to talk about the previous graphic while bringing the next one on camera...”

from the presenter guidelines for climate communication prepared by Claire Martin



Claire Martin; Photos J. Jeske

11th EMS Annual Meeting

The central motivation and objective for the foundation of the EMS was to establish a forum for exchanging information and experience between national meteorological societies and to facilitate the development of collaboration on a European level. The Annual Meetings are the main activity of the EMS to achieve that goal.

The joint EMS Annual Meeting & European Conference on Applications of Meteorology (ECAM) has developed into a very successful biennial event. The EMS & ECAM 2011, organised in collaboration with the German Weather Service (DWD) and the German Meteorological Society (DMG), proved to be an exceptionally successful meeting. More than 700 participants attended the meeting, indicating that the attraction of this event is growing and it is widely recognised as an ideal place for the European meteorological community to meet and discuss all aspects of future developments of meteorology. Scientists, forecasters, service providers from all sectors of meteorology, climatology and related disciplines met in Berlin to present and discuss the latest developments.

With the conference theme on *Forecasting the weather - ensemble techniques in probabilistic weather prediction*, it was recognized that ensemble weather prediction systems are widely used to provide a better representation of uncertainties in both the initial conditions and the forecast models. Still the challenges are to develop further a wider range of probabilistic forecast products, and to support customers in using uncertainty information for managing weather-related risks effectively. Special emphasis was given to forecasts of high-impact weather events.

The Opening Session highlighted the challenges and achievements through strategic lectures from WMO, ECMWF and DWD. The presentations of the opening programme are accessible at

meetings.copernicus.org/ems2011/special-events/opening_programme.html.

The first day of the conference was closed with an icebreaker reception.

Session programme

The conference programme consisted of 35 sessions in five programme groups: around 300 posters were displayed and 500 presentations were given during the week. The feedback from participants indicated that, in general, the presentations were of a high quality. More than 90% of the participants expressed satisfaction with the quality of the session programme, the attractiveness of the plenaries and the opportunities for exchanging information and views. Some criticism, albeit only in the order of 20%, was expressed with respect to the poster sessions. A fuller summary of participants' feedback is available from www.emetsoc.org.

Outstanding Poster Awards (OPA)

In order to underline the relevance of poster presentations and the opportunities they provide to discuss approaches and results in detail, the OPA was established in 2009. Good quality posters presented at the EMS Annual Meetings are given an award to highlight good practice and provide guidance for others. In Berlin two posters were selected for the awards:

- K. Hocke, S.C. Studer, N. Kämpfer, O. Stähli, and E. Maillard: "Diurnal variations in surface air pressure, integrated water vapour, and stratospheric ozone".
- A. Bossavy, R. Girard, and G. Kariniotakis: "A Probabilistic Approach to Forecast Ramps of Wind Power Production using Ensemble".

In addition, the poster "Solar-Energy Education: Making a Miniature Solar Oven" by Y. Tsubota was highlighted because it used a very instructive education method.

The awards include the waiving of one registration fee for the EMS&ECAC 2012 in Łódź.



Photos from the EMS&ECAM by J. Jeske and J. Urban.

Plenary discussion: Ensemble Forecast products – Optimal Use for the Market?

To highlight the conference theme, a plenary round table discussed *Ensemble Forecast products – Optimal Use for the Market?* This was a lively roundtable discussion, chaired by Ewen McCallum (UK Met Office), on the important topic of ensembles and the use of probabilistic language. The key question being asked was what is necessary to stimulate "the market", commercial or government, into exploiting this information more fully, as has been done over many years with deterministic output?

Side meetings

The conference was used to arrange workshops, management meetings or seminars by a number of European organisations. These included the PROMET Editorial Board, a women networking meeting, the Board of the Harry Otten Foundation, the General Assembly of DMG, COST Action 1002 WIRE: Weather Intelligence for renewable energies, the WMO Regional Climate Centre (RCC) Workshop, ECOMET, IABM and the EMS&ECAC 2012 Programme and Science Committee.

Workshop for forecasters

An initiative to further increase the benefit of the EMS Annual Meeting consisted in organising a training workshop for forecasters on the Sunday preceding the conference. The workshop, developed and advertised in collaboration with EumetCal, concentrated on "Tools for Forecasting High Impact Weather". It was intended primarily for forecasters, but other participants interested in the subject were also welcome; they came from NMSs, private weather providers and universities from many parts of Europe. The lecturers and trainers were: Frans Debie (KNMI), Vesa Nietosvaara (FMI and EumetCal), Wilfried Jacobs (DWD), Henrik Feddersen (DMI), Fernando Prates (ECMWF) and Thomas Petroligis (ECMWF). The organisation of this course was in the hands of EumetCal carried out by Heleen ter Pelkwijk and Vesa Nietosvaara. The workshop was also financially supported by EumetCal. The programme of the workshop is available from meetings.copernicus.org/ems2011/side_meetings/tools_for_forecasting_high_impact_weather.html.

Participants were asked to evaluate the workshop and 23 out of 24 replied. They showed an overall impressively high satisfaction with the workshop and expressed an interest in repeating such a workshop at future EMS meetings.

Exploration of Severe Weather Events in Virtual Reality

A team from KNMI, the Royal Netherlands Meteorological Institute, presented their interactive exploration and 3D visualisation of numerical weather model data at the conference. During the entire week conference many participants joined the 3D-demo sessions lasting 30 to 45 minutes. About 250 participants followed these presentations. The attendees were wearing 3D (polarized) glasses which provided the effect of Virtual Reality. In an impressive 3D weather show they could see "virtual" clouds and other 3D weather features "floating" in the room in front of their eyes. KNMI prepared a number of interesting severe weather situations.

Visualisation in Virtual Reality is overwhelming, providing scientists and forecasters with new means to gain a better understanding of numerical weather prediction models. A number of interesting discussions took place, and the KNMI team received many compliments for their work and presentation.



“ The European Meteorological Society was established to provide a forum for disseminating information and facilitating discussions on a wide variety of themes and issues connected with meteorology, hydrology, oceanography, earth observation and the climate system ...”

EMS Strategy
Implementation
Plan 2008

The exhibition

The exhibition at the EMS&ECAM enjoyed a large response and the exhibitors experienced considerable interest in their instruments and other exhibits. A number of exhibitors also contributed to the session programme with presentations, instigating new visits at their booths. The feedback from participants indicated that almost 50% visited the exhibition.

The conference, having become considerably bigger than envisioned in the initial planning phase, at times was crowded but for many this seemed to have created a very lively and inspiring atmosphere. It was felt that, in general, the meeting has also been a superb networking opportunity.

Publications and photo gallery

A live stream of the opening session is accessible from the main conference site as well as photo galleries of important scientific and social events together with some impressions from the conference atmosphere. Talks and posters presented at the EMS&ECAM are available alongside the schedule and respective abstract for many contributions.

meetings.copernicus.org/ems2011/photo_gallery/general_information.html.

Feedback

Satisfaction with the programme and the organisation was quite high, and there was huge interest in poster presentations. Indeed more time for poster viewing would generally be appreciated. Details on feedback from participants through an online survey are available at:

[www.emetsoc.org/annual_meetings/documents/EMS & ECAM 2011-feedback.pdf](http://www.emetsoc.org/annual_meetings/documents/EMS_%20%26%20ECAM%202011-feedback.pdf).

EMS & ECAC 2010 PROGRAMME AND SCIENCE COMMITTEE

Erik Andersson (ECMWF)
 Horst Böttger, Chair (EMS)
 Tanja Cegnar (EARS, Slovenia)
 Jean-Pierre Chalon (Météo-France)
 Ben Dieterink (HMEI)
 Zoltan Dunkel (OMSZ, Hungary)
 Jochen Grandell (EUMETSAT)
 Sylvain Joffre (FMI, Finland)
 Martina Junge (EMS)
 Haleh Kootval (WMO)
 Ulrike Langematz (Inst. for Meteorology FU Berlin)
 Gregor Leckebusch (Inst. for Meteorology, FU Berlin)
 Lukasz Legutko (IMGW, Poland)
 José Antonio Lopez Diaz (AeMet, Spain)
 Ewen McCallum (MetOffice)
 Olivija Morell (MeteoMak, FYR of Macedonia)
 Jean Pailleux (France)
 Heleen ter Pelkwijk (NVBM, The Netherlands)
 Hans Richner (SGM, IACETH, Switzerland)
 Dennis Schulze (PRIMET)
 Christa Stein (DWD)
 Gerhard Steinhorst (DMG)
 Aryan van Engelen (ECSN)

Programme Group Chairs:

Applications of Meteorology (ECAM): C. Stein
 The Atmospheric System and its Interactions: S. Joffre
 Communication and Education: T. Cegnar
 Numerical Weather Prediction: J. Pailleux
 Climate: A. van Engelen



Photos by J. Jeske.

International Collaboration

The EMS as an international European organisation strives to maximise the effectiveness of its activities through collaborating and linking with other organisations in the meteorological, climatological and related areas that share the aim to further the development and application of these sciences for the benefit of societies in Europe and beyond.

An important step was the establishment of the International Forum of Meteorological Societies (IFMS), a global association that connects organisations from across the world and concentrates on exchange of information and experience.

2011 saw an important step in consolidating the role of the IFMS through its 2nd Global Meeting (GM) in Xiamen, China. The EMS actively supported the new initiatives that were agreed, such as developing an infrastructure for a programme of global electronic lecture presentations.

The EMS and all European meteorological societies are represented on the Steering Committee of the IFMS through the EMS President, Dominique Marbouty.

“EMS will work to achieve better communication and understanding amongst the individual members of the European meteorological community”

EMS Strategy Implementation Plan 2008



We are Member of the International Forum of Meteorological Societies (IFMS)



Agreement of Understanding between the European Severe Storms Laboratory (ESSL) and the EMS.



Agreement of Understanding between the World Meteorological Organisation (WMO) and the EMS.



Agreement of Understanding between the American Meteorological Society (AMS) and the EMS.



Collaboration in the organisation of the biennial European Conference on Applied Climatology (ECAC)

Publications

The programme of publications and information provision by the EMS is continually developed and reviewed in order to ensure that there is a rapid exchange of information on activities within the European meteorological community. The only printed publication that the EMS produces is the Annual Report (complemented by its online version). All other publications are now available only online to ensure their prompt and easy access. The editorial board oversees all publications, and supports the Executive Secretary in the development of content for the *ems-message* and the emetsoc.org website.

Publication of contributions to the EMS Annual Meeting and ECAM 2011

As in recent years, a number of convenors of sessions held at the EMS Annual Meeting and European Conference on Applications of Meteorology acted as guest editors of 'Advances in Science and Research' and some 40 manuscripts were submitted. This is the sixth volume of the EMS Annual Meeting proceedings and all are available at www.adv-sci-res.net/volumes.html.

In addition, authors were given the opportunity to upload their presentations held during the conference – lectures as well as poster presentations – to the conference website alongside their abstracts and the programme schedule:

meetingorganizer.copernicus.org/ems2011/meetingprogramme.

ems-message

The *ems-message*, an online newsletter, was established in 2008 and aims to facilitate and speed up exchange of information amongst the meteorological community, its individuals and organisations. It has developed into a means of communicating information on activities of EMS Members, as well as activities and announcements by the EMS. Four editions of the *ems-message* were issued in 2011 with an interval of about three months.



Website

The most important tool of communication between EMS and its Member organisations, as well as communication to the interested community beyond, is the presence of the EMS on the Internet at emetsoc.org. The website was overhauled in 2011, with the main objective of making the site more accessible with interesting information directly displayed on the entry page. The intention is to give more room to activities of the Member organisations of the EMS and thus enhance the information flow on activities and exchange of experience between meteorological societies.

Media DVD

In the Media Session of the EMS Annual Meetings, developments in broadcast weather forecast techniques and communication to the general public are reflected and discussed. The DVD that is produced from this session includes the clips that are submitted for the annual EMS TV weather forecast award. Also included are the presentations given in the session and papers that resulted from the discussions at the Meetings, as well as a report from the workshop on communication skills for climatologists. The DVD will be distributed to conference participants of the EMS & ECAC 2012 and



can also be directly requested from the EMS.

Awards and Prizes

The Awards Programme of the EMS is designed to recognise outstanding achievements of meteorologists through the EMS Silver Medal and the Media Awards, acknowledge excellence in young scientists through the Young Scientist Award and provide travel support for young scientists in the early stage of their career. Recently the Outstanding Poster Award has been established to recognise and highlight good practice in conference poster presentations.

EMS Silver Medal

The recipient of the EMS Silver Medal 2011 is Jean-Francois Geleyn. He was awarded for his outstanding contributions to the fostering of cooperation among scientists in European countries.

It was a very moving moment when Fritz Neuwirth, then President of the EMS, handed over the medal, honouring achievements over more than three decades. The laudatio was given by Dominique Marbouty, the EMS President-elect.



Silver Medal Lecture by Jean-Francois Geleyn;
photos by R. Tolasz, Czech Republic.

Matching the citation, Jean-Francois then gave the Silver Medal Lecture on *Pan-European cooperation in Limited Area Modelling - Numerical Weather Prediction: The "why" and "how" of the "collaboration-competition" concept.*

The presentation can be downloaded from meetings.copernicus.org/ems2011/special_events/silver_medal_lecture.html.



Silver Medal being handed to Jean-Francois Geleyn (left)



Silver medalist (middle) with outgoing EMS President Fritz Neuwirth and President-elect, Dominique Marbouty.

Young Scientist Award

The Young Scientist Award was presented to Tamás Gál, from the University of Szeged, Hungary, who is working on the topic of urban climate and, since 2003, has authored or co-authored 37 publications. He gained the award for his two papers 'Computing continuous sky view factors using 3D urban raster and vector databases: comparison and application to urban climate' and 'Detection of ventilation paths using high-resolution roughness parameter mapping in a large urban area' - these contain the essence of his PhD thesis. The methods he developed are now widely used for other urban climate projects.



Young Scientist Award for Tamás Gál

Tamás Gál's website:

www2.sci.u-szeged.hu/eghajlattan/gale.htm

Media Awards

The presentation of the EMS Media Awards took place during the Media Session at the EMS Annual Meeting.

The **Broadcast Meteorologist Award** is presented to honour life achievement of an outstanding broadcast meteorologist. The recipient of the 2011 award was Dieter Walch, Germany. He was honoured for his exceptionally long and fruitful professional career as an on-screen Broadcast Meteorologist.



Dieter Walch

For many Germans the name "Dieter Walch" is closely related to the television weather forecast. Dieter Walch has acted for more than 25 years as the leading German weather presenter at ZDF German Television. He has studied Mathematics, Physics and Meteorology at the Free University of Berlin.

After receiving his Master in Meteorology, he worked as a Flight-Meteorologist, before he joined the German Air Force Weather Service as assistant professor. During this time the German National Television offered him the position of a TV-Meteorologist. He has also written books about Meteorology, TV-Meteorology and Climate.

The **TV Weather Forecast Award**. The video clip of a weather forecast by Jean Byrne, Ireland, was selected as an outstanding example of good practice for the TV Weather Forecast Award 2011.



Jean Byrne

Jean Byrne is a weather forecaster in the General Forecasting Division with Met Éireann, the National Meteorological Service of Ireland. In 1996 Jean was selected to be a Broadcast Meteorologist with RTE, the National Television Broadcaster of Ireland. Since then she has worked a roster of duties in the General Fore-

casting Division as well as in RTE.

The video is available from the Best Practice-section of the EMS website:

www.emetsoc.org/resources/best-practice/tv-weather-forecasts

The **Outreach and Communication Award** was established to highlight projects and initiatives that explore new ways to communicate the science of meteorology, climatology and related fields to the general public and strive to improve the quality and efficiency of the communication to the public and specific user groups.

In 2011 two very exceptional projects in different categories were selected:

theWeather magazine is the the magazine of



Liz Bentley, Chief Editor

theWeather Club, the public outreach arm of the UK's Royal Meteorological Society, which launched in September 2010. theWeather presents a novel and exciting way of communicating the science of meteorology and its impact on society to the general public. It relates weather to common activities and subjects such as culture and sport, and in

this way tackles the challenge of bringing the science of meteorology into the realm of people's daily life.

The timeliness and importance of theWeather Club's attempt to tackle the difficult subject of the interface between climate and weather cannot be appreciated enough – this is a crucial issue in communicating climate change to any non-scientific audience.

Mountain Wave Project (MWP): *The MWP is focused*



René Heise, MWP director

on applications and deserves great merit for incorporating outreach activities as part of the scientific project. In the communication with the public a variety of different channels are used.

Through TV-features, radio broadcasts, publications, posters and numerous articles in the print media, the MWP regularly draws

attention to atmospheric phenomena in the troposphere and stratosphere.

The TV-documentary "Rodeo in the Sky – research for greater flight safety" is thrilling, moving, and educational, a very original and unusual combination.

Young Scientist Travel Awards (YSTAs)

Most awards are given as travel support for young scientists in the early stage of their career. As a result they can participate in international conferences that provide opportunities for exchanging information and developing their expertise. In 2011 the EMS made 14 Young Scientist Travel Awards for participation in five events. These have supported young scientists from ten countries: Austria (1), Bulgaria(1), Czech Republic(1), Denmark(1), Germany(2), Hungary(1), Italy(2), Russian Federation(1), Turkey(2), UK(2).

Reports provided by award recipients are available at www.emetsoc.org/awards/travel-awards-ystas.



11th EMS Annual Meeting and 10th ECAM 12–16 September 2011 Berlin, Germany	Laura Dobor Eötvös Loránd University, Budapest, Hungary.
	Simon N. Gosling The University of Nottingham, UK.
	Christian Grams Karlsruhe Institute of Technology, Karlsruhe, Germany.
	Martin Ivanov Bulgarian National Institute of Meteorology and Hydrology Sofia, Bulgaria.
	Pricilla Marimo University of Exeter, Exeter, UK.
	Pierre Pinson Technical University of Denmark, Lyngby, Denmark.
	Eva Plavcová Institute of Atmospheric Physics, Academy of Sciences Prague, Czech Republic.
THORPEX European Regional Meeting 25 – 27 May 2011, Karlsruhe, Germany	Julia Strelchenko St. Petersburg State University, Russian Federation.
ICAM2011, 22 – 27 May 2011, Aviemore, Scotland	Johannes Wagner University of Innsbruck, Austria.
	Lavinia Laiti University of Trento, Italy.
ECMWF Annual Seminar, 6 – 9 September 2011, Reading, UK	Silvia Terzago University of Torino, Italy.
	Şeyda Tilev Tanrıöver Istanbul Technical University, Turkey.
ECSS, 3 – 7 October 2011, Palma de Mallorca, Spain	Abdullah Kahraman Istanbul Technical University, Turkey.
	Oliver Schlenczek Johannes Gutenberg University, Mainz, Germany.



Finance 2011

The balance as at 31 December 2011 has decreased by 6 810.91€ as compared to 31 December 2010.

Summary Statement of Financial Activities for the Year 2011:

All financial figures are given in Euro.

	2011	2010
INCOME		
Income Societies Membership Fees	29 261.07 ^a	17 750.40
Income Associate Membership Fees	39 200.57 ^b	38 580.68
Annual Meetings	23 708.25	56 186.92
VAT Annual Meeting	1 659.58	3 933.08
Other	1 000.00	
TOTAL INCOME	94 829.47	116 451.08
EXPENDITURE		
Salaries (incl. expenses for employer)	67 519.64	63 399.96
Banking charges	163.85	171.10
Travelling	6 635.88	7 332.78
Office costs	1 207.11	704.25
Honoraries, Fees, Insurances	4 523.76	4 355.04
Awards	12 300.55	12 332.01
Publications	7 862.63	3 469.28
PADG and Project Teams	0.00	760.72
Workshops	1 231.86	0.00
Other costs	195.10	100.00
VAT Annual Meeting	0.00	1 358.33
TOTAL EXPENDITURE	101 640.38	93 983.47
INCOME – EXPENDITURE	-6 810.91	22 467.61
ACCOUNT BALANCE 31 DECEMBER	89 729.92	96 540.83

a. Membership Fee 2011:

includes Membership Fees Member Societies 2010: 6 058.95€

b. Associate Membership Fee 2011:

includes Membership Fees Associates 2010: 200.00€

Membership Fees Associates 2012: 1 000.00€

Use of funds

The organisation of the Annual Meeting constitutes the largest uncertainty in the planning of the EMS's finances, but the funds available are expected to provide security for this activity.

Audit

The financial accounts have been audited on 3 July 2012 by the auditor appointed by the EMS General Assembly 2011. The auditor's report will be submitted to the EMS General Assembly 2012.

Auditor:
Clemens Kucklick
Kantstraße 151
10623 Berlin
Germany
www.ckucklick-wp.de

COMMITTEE MEMBERSHIP**COMMITTEE ON MEETINGS**

Horst Böttger (Chair, DMG, Germany)
 Sylvain Joffre (FMI, Finland)
 Jean Pailleux (SMF, France)
 Olivija Morell (Meteo Mak, FYROM)
 Heleen ter Pelkwijk
 (NVBM, The Netherlands)
 Hans Richner (SGM, Switzerland)
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