



## Europhotometeo'12

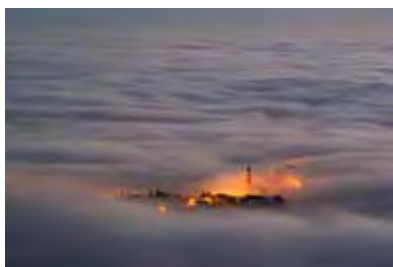
Following the huge interest in the European photography competition on meteorological phenomena in 2009 a follow-on was announced. The competition was run by an organising committee consisting of AME members under the leadership of Fernando Bullón.

The competition, Europhotometeo'12 (EPM'12) received an overwhelming response throughout Europe and beyond. Photos were uploaded until 31 January 2012 and 400 were chosen for the final competition. These are on display at the photo gallery

[www.emetsoc.org/?id=319](http://www.emetsoc.org/?id=319)

EPM'12 winning photo: **The Land of Fairy Tales** by Vittorio Poli, showing the small village Conco on the Asiago plateau in Italy shrouded in fog.

The photo was taken from a mountain top.



1st prize: *The Land of Fairy Tales*, Vittorio Poli

**The Jury** that selected the top ten consisted of members of the EMS Council and the Presidents of the EMS Member Societies. Each of them could assign points using a predefined scheme to his or her favourite ten photos. The top ten photos, along with their points are shown at

[www.emetsoc.org/publications/photo-galleries/europhotometeo-12/top-ten-photos](http://www.emetsoc.org/publications/photo-galleries/europhotometeo-12/top-ten-photos)



2nd prize: *Teide Hat*, Iván Medina Delli



3rd prize: *Brocken Spectre from the Cliffs of Moher*, Sean Tomkins,

## Public opinion poll

Members of the public also had the chance to choose his or her favourite photo. Participation in the public opinion poll is still possible.

The results are shown at [www.emetsoc.org/?id=321](http://www.emetsoc.org/?id=321)

We would like to thank everybody who contributed to this competition which resulted in a gallery of fantastic photos showing a wide variety of weather phenomena that will be a source of joy for many visitors.



4th prize: *Aurora Borealis over Tromsø*, Luijting, Hanneke



Call for papers  
**12th EMS  
Annual Meeting**

**& 9th European Conference on Applied Climatology (ECAC)**

10–14 September 2012, Łódź

[ems2012.eu](http://ems2012.eu)

**Deadline for abstract submission:  
26 April 2012**

The conference focal theme:  
*European Climate Services Capabilities – user needs and communication with stakeholders.*

The meetings are being organised jointly by the EMS, the PTG-Meteorological Section, IMGW, the Department for Climatology and Meteorology at the University of Łódź and EUMETNET-ECSN.

The second announcement flier, including the detailed session programme, can be accessed at [www.ems2012.eu/second\\_announcement.pdf](http://www.ems2012.eu/second_announcement.pdf).

Please submit your contributions via [meetingorganizer.copernicus.org/ems2012/sessionprogramme](http://meetingorganizer.copernicus.org/ems2012/sessionprogramme)

Information on the SAF and RCCC workshops: >>> page 7

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## IMPRINT

The *ems-message* is published by the European Meteorological Society (EMS e.V.)  
[www.emetsoc.org](http://www.emetsoc.org)

## Inside EMS



Emily Gleeson

YSTAs  
announced

[www.emetsoc.org/  
awards/young-scientist-  
award](http://www.emetsoc.org/awards/young-scientist-award)



[www.emetsoc.org/  
awards/media-awards](http://www.emetsoc.org/awards/media-awards)

### New member of the EMS Editorial Board

Emily Gleeson, former secretary of the Irish Met Society, has joined the editorial board. Emily has a B.Sc. in Experimental Physics and Chemistry from NUI Maynooth, Ireland and a Ph.D. in Submillimeter Astronomy. Following her Ph.D., Emily first worked as a postdoctoral researcher and subsequently as a Yield Analysis Engineer in Intel, before joining Met Éireann, the Irish Meteorological Service, in September 2006. She worked as a weather forecaster for almost two years before transferring to the Research and Applications Division to work on the EC-Earth global climate model and the HARMONIE mesoscale short-range NWP model. Emily was Secretary of the Irish Met Society from May 2009 until recently and was also an Institute of Physics committee member for the past three years.

EMS Editorial Board: [www.emetsoc.org/governance-structure/](http://www.emetsoc.org/governance-structure/)

### New items on the website

Find out about EMS Associate Members: profiles of are now available on [www.emetsoc.org/members-activities/ems-associate-members](http://www.emetsoc.org/members-activities/ems-associate-members)

### EMS Young Scientist Travel Awards

EMS Young Scientist Travel Awards, which include 500€ financial support, have been announced for the following two events:

#### 15th AMS Conference on Mountain Meteorology

20-24 August 2012, Steamboat, CO, USA

The deadline for award applications is **1 June 2012**

For details on application procedures see [www.emetsoc.org/awards/travel-awards-ystas/announcements-2012-mountain-met-2012](http://www.emetsoc.org/awards/travel-awards-ystas/announcements-2012-mountain-met-2012)

#### ECMWF Annual Seminar on Seasonal Prediction

4-7 September 2012, Reading, UK

The deadline for award applications is **30 June 2012**

For details on application procedures see [www.emetsoc.org/awards/travel-awards-ystas/announcements-2012-ecmwf2012](http://www.emetsoc.org/awards/travel-awards-ystas/announcements-2012-ecmwf2012)

### Call for nominations: EMS Young Scientist Award 2012

The Young Scientist Award is presented annually to acknowledge excellence in young scientists. The award is in the form of prize money and travel expenses to cover attendance of the EMS Annual Meeting. **Deadline for nominations: 23 June 2012**

### Call for nominations: EMS Media Awards 2012

The EMS Broadcast Meteorologist Award is presented to honour life achievement of an outstanding broadcast meteorologist. The Laureate is invited to attend the EMS Annual Meeting.

[www.emetsoc.org/awards/media-awards/broadcast-meteorologist/call-for-nominations-2012](http://www.emetsoc.org/awards/media-awards/broadcast-meteorologist/call-for-nominations-2012)

The TV Weather Forecast Award is presented to acknowledge best practice in communication of meteorology. The Award is in the form of a trophy and presented during the EMS Annual Meeting.

[www.emetsoc.org/awards/media-awards/tv-weather-forecast/call-for-submissions-2012](http://www.emetsoc.org/awards/media-awards/tv-weather-forecast/call-for-submissions-2012)

The Outreach & Communication Award is presented for projects that explore new ways of communicating the science of meteorology, climatology and related fields and its consequences to the general public. The Award is in the form of a trophy and presented during the EMS Annual Meeting.

[www.emetsoc.org/awards/media-awards/ems-outreach-communication-award/call-for-nominations-2012](http://www.emetsoc.org/awards/media-awards/ems-outreach-communication-award/call-for-nominations-2012)

**Deadline for nominations or submissions for all Media Awards is: 23 June 2012**

## Norway Norwegian Meteorological Society

### A Weather Book for Children

An initiative by the board and active members of the Norwegian Met Society has come to a successful end: a nice book about weather, for young school children, is now available in book stores. This initiative was announced at the EMS General Assembly in 2008. The exciting stories about a bird race in all kinds of weather conditions (in Norway) are linked to educational facts and meteorology-related science experiments that children can do at home.

The book received good reviews in the Norwegian media: "The book is lovely, lively and beautifully illustrated ... a book full of excitement and knowledge."

About the content of the book: Two carrier pigeons, Sofia (the smart one) and John (the brave one) are crossing Norway from north to south. They meet a lot of challenges along the way; dramatic weather phenomena like blizzards, thunderstorms, rain and tornadoes. But the weather can also be helpful, such as when John tricks a raven to look for treasure at the end of a rainbow, or when Sofia is rescued by lightning when threatened by an eagle, not to mention when John meets a beautiful Turkish carrier pigeon in foggy weather in the Oslo area.

The authors of the book are four meteorologists and physicists with a passion for communicating science to children and young people.

Ingunn Burud works as a scientist and student consultant at the Norwegian University of Life Sciences. Prior to this she was with the Norwegian Meteorological Institute in Oslo. Lars Robert Hole is a senior marine meteorology scientist at the Norwegian Meteorological Institute in Bergen. Hans Olav Hygen is a climate scientist at the Norwegian Meteorological Institute in Oslo and Anders Sivle is working as a meteorologist at the Norwegian Meteorological Institute in Bergen.

Acknowledgements: The book was published by Gyldendahl, one of the largest publishers in Norway, and is available through their website [www.gyldendal.no/Barn-og-ungdom/Faktaboeker/Kappflygning-i-all-slags-vaer](http://www.gyldendal.no/Barn-og-ungdom/Faktaboeker/Kappflygning-i-all-slags-vaer).

The book has an associated webpage, [www.metlab.no](http://www.metlab.no), which contains meteorological facts and experiments with accompanying videos. The intention is that school classes can try the experiments. The illustrator of the book is Stine Ledum. The project was partly funded and supported by the Norwegian Research Council and Norwegian Council for Cultural Affairs; support was also provided by the Norwegian Meteorological Institute.

## Spain Asociación Meteorológica Española

### AME President: Ernesto Rodríguez Camino

At the last General Assembly of the Asociación Meteorológica Española (AME) Ernesto Rodríguez Camino was elected as the new President. He succeeds José A. Maldonado who led AME for two terms of two years (since 2007). Ernesto had already been the AME President between 2003 and 2007.

Ernesto spent most of his professional career at the Spanish Met Office (AEMET) working on atmospheric modelling in the research department. For many years he was involved in NWP developments and focused most recently on climate modelling.

Ernesto was also actively involved in organising the 7th EMS Annual Meeting and 8th European Conference on Applications of Meteorology (ECAM) that took place in San Lorenzo de El Escorial, Spain, 1–5 October 2007.

## EMS Members



[www.metlab.no](http://www.metlab.no)



[www.ame-web.org](http://www.ame-web.org)

[www.smf.asso.fr](http://www.smf.asso.fr)

## EMS Members



Peter Lynch

[www.irishmetsociety.org/ims-honorary-life-members](http://www.irishmetsociety.org/ims-honorary-life-members)

### Ireland Irish Meteorological Society

#### New Honorary Life Memberships

In March 2012 the Irish Met Society (IMS) committee decided to award honorary life memberships to Prof. Peter Lynch and Dr Jim Hamilton, both of whom have contributed significantly to the development of global meteorology.

#### *Prof. Peter Lynch*

Peter Lynch studied mathematical science at University College Dublin (UCD) and, after various short-term jobs, joined the Irish Meteorological Service in 1971. After a training year in Rosslare, where his main activity was to read Ulysses, he went to Shannon Airport as an aviation forecaster. Three years later, he was transferred to the Research Division in Dublin, where he worked on the development of numerical weather prediction models for operational use. He was promoted to Head of Research and later became Assistant Director.

Peter spent a year 1984/85 working as a visiting scientist in KNMI, the Dutch Met Service. He served on the Scientific Advisory Committee (SAC) of the European Centre for Medium-Range Weather Forecasts for eight years, as Chairman of SAC for two. He was Project Leader of the HIRLAM Project for three years, 1997-99. In 2002 he established C4I, a climate modelling endeavour involving Met Éireann and UCD.

In 2004 Peter moved to UCD as Met Éireann Professor of Meteorology. In addition, he was Director of the UCD Meteorology & Climate Centre. He resigned at the end of 2011, but continues to teach and do research in numerical weather prediction and also in Hamiltonian mechanics.

Peter has been a member of the Meteorological Society since its establishment, and has addressed the society on many occasions. He is most grateful to be offered an honorary membership of the society. Peter's main interest is in dynamical meteorology and its application to numerical weather prediction (NWP). He developed the digital filter initialization technique, which is now in widespread international use in operational NWP. He is currently developing a numerical integration scheme based on the Laplace Transform.

#### *Dr Jim Hamilton*

Jim Hamilton attained a B.Sc. in Experimental Physics from UCD in 1974. As part of a final year project he became interested in computers and programming. He wrote his first graphics programmes for a calcomp pen-plotter. Then he did a Ph.D. at Reading University on computer simulation of the geomagnetic current sheet.

Jim joined the Irish Met Service (as it then was) in 1977 and trained in Rosslare Harbour, Shannon and CAFO, Dublin, before being transferred to the Research Division in 1979. His most memorable work, from an international point of view, was on computer graphics for meteorology. He started by writing programmes to plot meteorological observations and draw contour maps, which more or less duplicated work already done at various other met services, but later developed an interactive system for displaying meteorological charts, called CHARTS. This had a user friendly command processor and he was invited to work at ECMWF for three months in 1983 implementing and extending this command processor.

A year after returning from ECMWF he was approached by the WMO, on the recommendation of ECMWF, to provide graphics for a development project that was installing an MSS (message switching system) and graphics system in various developing countries. The Irish Met Service agreed to donate the system to the project and Jim personally installed it in various countries as part of this UNDP programme.

The CHARTS programmes served Met Éireann well for a period of roughly 30 years. Over that period the system was continually refined and improved and it saw various generations of computer hardware.

A more detailed account is available at [www.irishmetsociety.org/ims-honorary-life-members](http://www.irishmetsociety.org/ims-honorary-life-members)



Jim Hamilton

## Lecture Recordings

In November 2010 Sinéad Duffy, IMS Committee member, started making podcasts (audio recordings) of all of the IMS lectures. All of these recordings are available within the member section of the IMS website. Then in May 2011, Dominic Foley, committee member, began filming all of the IMS lectures and events. These can be viewed on <http://vimeo.com/user7404516/videos> and are accessible to all. Among the recorded lectures are: 4 short talks on the history of Met Éireann, the Irish Met Service, The Greenhouse Effect and Global Warming and Hidden Treasures in Met Éireann's Old Manuscripts.

## Austria Austrian Society for Meteorology (OeGM)

**New President:** Fritz Neuwirth

It is a longstanding tradition that the Austrian Meteorological Society (ÖGM) holds its Annual General Assembly around the date of the World Meteorological Day and this was also followed in 2012.

The Chairman of the Society, Prof. Dr. Franz Rubel, resigned after four years in office due to considerable additional workload in recent times. The board of the society elected Dr. Fritz Neuwirth as new Chairman. He is a former President of the EMS, and in the past already served the Society as Vice-Chair and Secretary General.

In addition to the regular activities of ÖGM this year the society will support the annual meeting of graduate students in meteorology (STUMETA), to be held in Vienna from 16 to 20 May 2012. For the STUMETA, which was established in 1984, some 250 students in meteorology from Austria, Germany, The Netherlands and Switzerland are expected. In November 2012 a day of training will take place organised together with the Munich section of the German Meteorological Society (DMG).

The Meteorologische Zeitschrift, the traditional scientific journal of the three Meteorological Societies of Austria (ÖGM), Germany (DMG) and Switzerland (SGM), was founded in 1884, but discontinued after World War II. Twenty years ago, in 1992 the Meteorologische Zeitschrift was re-founded: this anniversary was celebrated on 2 April 2012 at the University of Hohenheim, Germany.

## Croatia: Hrvatsko meteorološko društvo (HMD)

### Challenges in meteorology 2012 - 6-7 March 2012 in Zagreb, Croatia

The second scientific-professional meeting of the Croatian Meteorological Society *Challenges in meteorology 2* was held in the Technical Museum of Zagreb from 6 to 7 March 2012. The meeting was co-organised by the Meteorological and Hydrological Service of Croatia (DHMZ), the Department of Geophysics in the Faculty of Sciences and Zagreb Technical Museum. The subject of this year's meeting was *Meteorology in the Public Eye*.

The sponsors of the meeting were the Ministry of Environment and Nature Protection, the Ministry of Science, Education and Sports and the European Meteorological Society. The opening addresses were given by the President of HMD, Dr. Amela Jeričević, the Director of DHMZ, Mr. Ivan Čačić, the Head of the Department of Geophysics, Prof. Zvezdana Bencetić Klaić, and the Assistant to the Minister for Environmental Protection, Prof. Davor Škrlec. They emphasised the growing importance of meteorological research, particularly regarding environmental protection, the risk of natural hazards and climate change.

Apart from exchanging knowledge between meteorologists, the goal of the meeting was to highlight the importance of meteorology in many aspects of human activity and to boost communication between scientists and the media.

Around 150 participants from Croatia, Bosnia and Herzegovina, Slovenia, Italy, Germany and the USA attended the meeting. Most were meteorologists, but there were also scientists from other fields and institutions (Agency for Environmental Protection, Ekolog, Institute Hrvoje Požar, UNDP, Faculty of Mechanical Engineering and Naval

## EMS Members

[www.irishmetsociety.org](http://www.irishmetsociety.org)

[vimeo.com/user7404516/videos](http://vimeo.com/user7404516/videos)



[www.meteorologie.at/ausschussmitglieder.htm](http://www.meteorologie.at/ausschussmitglieder.htm)



Architecture, Faculty of Agriculture, Faculty of Civil Engineering in Rijeka, Centre for Croatian Studies, Croatian Radio and Television, etc.). In all, 70 papers were presented (48 oral presentations and 22 posters) and 6 meteorological workshops were held for younger people.

The talks were divided into six sessions: Meteorology in the Media, Weather Forecast and Warning Systems, Climatology and Biometeorology, Environmental Protection: Air Quality, Agrometeorology: Food and Forest Protection and Renewable Energy Sources and Applied Meteorology.

Invited talks were given by Zoran Vakula (The DHMZ weather forecast in the media), Tanja Cegnar (EMS Media and Communication Team), Andrej Ceglar (The use of the Dynamic Crop Growth Model for Simulation of Maize Yield in Current and Changing Climate Conditions), Goran Georgievski (Climate change in the Croatian media) and Darko Koračin (Challenges in Assessment and Forecasting of Wind Energy in Complex Terrain; Societal Knowledge, Assumptions and Preferences regarding Climate Change in Nevada).

Five meteorological workshops, primarily aimed at young people, were organised on the following topics: *The little meteorological workshop*, *Meteorological measurements within DHMZ and GLOBE*, *The little TV-weather forecast*, *Measurement systems and programming support in automatic meteorological station network*, *From bora to dust devil*. The workshops were attended by about 150 students from 12 schools. As part of the meeting, the exhibition *Meteorology in Philately* was also organised.



### France **Météo et Climat**: new name of French Meteorological Society

On the occasion of its 160th anniversary, the French Meteorological Society took on a new name: **Météo et Climat**, la société française de la météorologie et du climat. The decision was formally adopted by members during the General Assembly in February 2012.



### 9th International Weather and Climate Forum

*International Symposium: Hydro-meteorological Information: A tool for social and economic development?*

Météo et Climat has just organised the 9th International Weather and Climate Forum at the World Meteorological Organization H.Q. in Geneva. Over 160 participants attended the Symposium on March 22 on the theme of hydrometeorological information as a tool for social and economic development. Professional meteorologists, climate experts and weather presenters discussed the benefits that developing countries could expect from increased investment in meteorological and hydrological information. Proposals have been made to accelerate investments in this area, and thereby improve the quality of life for people and help them to escape poverty.

Alongside the symposium a training course for weather presenters from African countries provided them with the opportunity to improve their skills in the use of audiovisual technology and information on websites such as data sources and satellite pictures.

Some 200 children from schools in Switzerland participated in outreach activities and educational workshops by ESA, Eumetsat, MeteoSwiss and associations such as WWF Switzerland, Geneva Environment Network and J'aime ma Planète. The event was also attended by about 50 weather presenters from 30 countries.

On March 23, after having participated in a Media Workshop, weather presenters were then invited to the official WMO ceremony marking the World Meteorological Day. A welcome address by the Secretary-General of WMO, Michel Jarraud, was followed by presentations by the following guest speakers: Jean Jouzel, President of Météo et Climat, and Dr. Kandeh K. Yumkella, Director General of the United Nations Industrial Development Organization (UNIDO).



## Workshops

### Climate Monitoring SAF workshop

A Climate Monitoring (CM) SAF workshop will be organised in cooperation with Eumetcal and EUMETSAT on Sunday 9 September 2012, prior to the EMS & ECAC conference. The workshop will provide a platform for climatologists working with CM SAF data to discuss the (potential) applications, experiences, strength and limitations of the data.

Participants are invited to actively contribute to the workshop with oral and/or poster presentations. Much of the time will be devoted to discussions. The participants will also have the chance to exchange experience and to discuss issues about CM SAF data. SAF experts will give an overview of the data and services. Lectures on the concept of monitoring climate with satellites and the differences between this and in-situ based climate monitoring are planned. The advantages and shortcomings of satellite data and in situ data in climate monitoring will also be discussed.

More information regarding this workshop will be available soon. Please check the conference website for updates: [ems2012.eu/workshops/saf\\_climate\\_monitoring.html](http://ems2012.eu/workshops/saf_climate_monitoring.html)

### RCC Workshop to demonstrate capacities and tools to increase benefits to NMHSs of the WMO RAVI Pilot Regional Climate Centre Network

Regional Climate Centres (RCC) are institutions with the capacity and mandate by WMO to develop high-quality regional-scale products, using global products, national input and incorporating regional information. Recently a pilot network of three Regional Climate Centre consortia was established for the WMO region RAVI (Europe and the Middle East) one on Climate Data, one on Climate Monitoring and one on Long Range Forecasting.

The aims of the workshop are: to bring together representatives of NMHS's to demonstrate the capacities/capabilities of the existing RCC Network in the region; to explore the existing RCC-applications; to discuss potential barriers which hamper collaboration within the RCC; to discuss opportunities to enhance the benefits for NMHSs; to discuss potential new applications which respond to user needs.

Further agenda items include

- Pilot RCC Node on Climate Data
- Pilot RCC Node on Climate Monitoring
- RCC on Long-range forecasting (RCC-LRF)

More information can be found at

[meetingorganizer.copernicus.org/EMS2012/sessionprogramme/SID](http://meetingorganizer.copernicus.org/EMS2012/sessionprogramme/SID).

Participation is free. Please register by emailing the RCC Network Coordinator, Mr. Stefan Rösner [rcc.cm@dwd.de](mailto:rcc.cm@dwd.de).

Detailed information about the programme will be communicated to registered participants. Note that a large part of the workshop will be devoted to hands-on work. Participants are requested to bring their own laptops.

## Meetings

### 7th European Conference on Radar in Meteorology and Hydrology (ERAD 2012)

Toulouse, France, 25 – 29 June 2012: **Early Bird Rates are available until 15 April 2012**. Register through [www.meteo.fr/cic/meetings/2012/ERAD/registration.html](http://www.meteo.fr/cic/meetings/2012/ERAD/registration.html).

Three short courses on radar will be organised on Saturday, 23 June and Sunday, 24 June 2012 before the conference starts:

- Dual-Polarization and Doppler Weather Radar
- Millimeter Wavelength Radars
- Short course on radar QPE, QPF and hydrology

Information and registration are available from

[www.meteo.fr/cic/meetings/2012/ERAD/courses.html](http://www.meteo.fr/cic/meetings/2012/ERAD/courses.html).

## Meetings & workshops

[www.ems2012.eu/workshops](http://www.ems2012.eu/workshops)

ERAD 2012: Early Bird  
[www.meteo.fr/cic/meetings/2012/ERAD](http://www.meteo.fr/cic/meetings/2012/ERAD)

## Meetings & workshops

[www.meteorologicaltechnologyworldexpo.com](http://www.meteorologicaltechnologyworldexpo.com)

[www.emetsoc.org/meetings-events/schools-workshops-courses](http://www.emetsoc.org/meetings-events/schools-workshops-courses)

[www.eufar.net/ET](http://www.eufar.net/ET)

[www.environnement.ens.fr/enseignement/ecole-thematique-cnrs](http://www.environnement.ens.fr/enseignement/ecole-thematique-cnrs)

[www.istitutoveneto.org/bess/index.htm](http://www.istitutoveneto.org/bess/index.htm)

### **Meteorological Technology World Expo 2012**

16 – 18 October 2012, Brussels, Belgium.

Meteorological Technology World Expo is an international exhibition of the latest climate, weather and hydrometeorological forecasting, measurement and analysis technologies and service providers for a global community of key decision makers within the aviation industry, shipping companies, marine/port installations, airports, military operations, off-shore exploration companies, wind farm operators, met offices, agriculture operations and research institutes.

The exhibition is intended to act as a meeting place for professionals and purchasers of major technological systems, and will not be open to the general public or students. Registration is free.

### **Summer Schools**

#### **5th EUFAR FP7-EUROSPEC Training Course On “Regional Experiments For Land-atmosphere EXchanges” (REFLEX)**

18–28 July 2012, Albacete, Spain.

Registration deadline: **30 April 2012, 6pm**

This training course aims to educate and train early-stage researchers and a limited number of university lecturers in airborne hyperspectral imaging and field measurements supporting their research in the framework of multi-scale (“leaf to ecosystem”) land-atmosphere exchanges.

#### **CNRS summer school 'Michael Ghil' : Feedbacks in environmental systems**

10–17 June 2012, Résidence-Club La Fayette, La Rochelle, France.

Registration deadline: **9 May 2012**.

The objective of the Summer School is to stimulate an interdisciplinary research community working on the theme of interacting complex environmental systems, building on the expertise of invited specialists who teach the lectures and interact with working groups. The second edition of the Summer School will take place from 11-16 June 2012, focussing on interactions between climate <-> ecosystems <-> oceans. More details are available at:

[www.environnement.ens.fr/enseignement/ecole-thematique-cnrs/?lang=fr](http://www.environnement.ens.fr/enseignement/ecole-thematique-cnrs/?lang=fr)

#### **Summer School on Biogeodynamics and Earth System Sciences (BESS)**

8–15 June 2012, Venice, Italy

Deadline for applications: **30 April 2012**

This School will be organised around a set of three cycles of lectures of four units each and a series of topical lectures. Attendees will also be engaged in focused group work, co-ordinated by each lecturer and by appointed assistants. The objective of the group work is to foster interaction with the lecturers and among attendees with the aim to produce a scientific paper which will be finalised through coordinated efforts after the summer school.