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World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat

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Our ref.: 12876/2017/OBS/OSD/IMO/ICAWS-2017

19 April 2017

Annex: 1 (available in English only)

Subject: Announcement and Call for Abstracts for the WMO International Conference on Automatic Weather Stations (ICAWS-2017)

Action required: To distribute the announcement to interested parties, and to submit abstracts of papers via the WMO/CIMO website as soon as possible, but **not later than 31 May 2017**

Dear Sir/Madam,

The World Meteorological Organization (WMO) is organizing, under the auspices of the Commission for Instruments and Methods of Observations (CIMO) and in close collaboration with the Commission for Basic Systems (CBS), the International Conference on Automatic Weather Stations (ICAWS-2017) with the theme "Automatic weather stations for environmental intelligence – the AWS in the 21st century".

The conference will be held in Offenbach am Main, Germany, at the kind invitation of the Deutscher Wetterdienst (DWD), at their headquarters, from 24 to 26 October 2017.

The aim of the Conference is, through the multi-disciplinarity of the WMO Integrated Global Observing System (WIGOS), to enable exchange of experiences and knowledge on AWSs, to source information on best practices with AWSs, to present latest AWS-related technological innovations and to formulate recommendations for the development of needed guidance material and standards for AWSs.

The ICAWS-2017 is for managers and users of observing networks, AWS experts and technicians from National Meteorological and Hydrological Services, from research institutes and from partners running AWS networks, as well as for managers of AWS data. Manufacturers of hydrometeorological equipment and all others interested in AWSs, are also encouraged to take part in this event.

An International Programme Committee (IPC), chaired by Dr Bruce Forgan, the vice-president of CIMO, will oversee the Conference and will be responsible for the selection of papers for oral presentations or poster displays.

To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO

cc: Hydrological Advisers to Permanent Representatives)
Presidents and vice-presidents of technical commissions)
Presidents of regional associations)
Members of CIMO and CBS) (for information)
Director General, ASECNA)
Executive Secretary, HMEI)

Ref.: 12876/2017-1.2 OBS-WIGOS/OSD

The purpose of this letter is to announce the Conference and to invite submission of abstracts. Those wishing to present an oral or poster presentation at ICAWS-2017 are kindly requested to complete the electronic version of the Abstract Submission Form, which is available on-line, at:

<http://cimo.wmo.int/>, or

www.wmo.int/icaaws.

For technical reasons, consideration can only be given to abstracts in English, of less than **300** words, which are submitted on-line before **31 May 2017**.

Lead authors of papers selected by IPC will be advised in June 2017 with further instructions concerning the format and submission deadline for papers or posters for publication in the Conference Proceedings.

Limited financial support may be available for selected participants from developing countries, who are presenting papers.

The Conference Announcement is provided in the Annex and is also available at the afore-mentioned websites.

In the spirit of the WMO Integrated Global Observing System (WIGOS), CIMO is particularly keen on strengthening collaboration with other communities contributing to WIGOS and would particularly like to invite them to contribute to this Conference.

I should be grateful if you would make this announcement widely known within your respective Service and beyond.

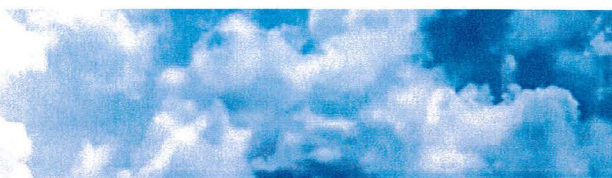
Yours faithfully,

A handwritten signature in black ink, appearing to read 'Zhang', with a stylized horizontal stroke at the end.

(W. Zhang)
for the Secretary-General



WORLD
METEOROLOGICAL
ORGANIZATION
Weather · Climate · Water



The World Meteorological Organization is pleased to announce
The WMO International Conference on Automatic Weather Stations
(ICAWS-2017)

Offenbach am Main, Germany, 24-26 October 2017

Theme: *Automatic weather stations for environmental intelligence – the AWS in the 21st century*

Topics:

1. Initiating automation and supporting migration from manual to automated measurements:

- User requirements for AWS data (e.g. uncertainty requirements, availability of data, reliability).
- Existing standards, recommended and best practices on AWSs.
- Planning the AWS networks (site selection, design and functional requirements, capabilities, maintenance, etc.).
- Procurement, including preparation of tenders and purchase of equipment.
- Installation and transition to operation.
- Total solutions and applications of AWSs.

2. Communications, data transmission, encoding, archiving and storage:

- Communication links and protocols, data processing and data transmission.
- Real-time and near-real-time data delivery through the WMO Information System (WIS).
- Homogeneity of time series.
- Data quality assurance and quality control, including metadata.
- Management of AWS information and data sharing.

3. Sustainability of the measurements:

- Preventive and corrective maintenance, servicing, replacements, protection against vandalism, mobility issues (sustainability of a location).
- Calibration, intercomparisons, laboratory and field performance tests, quality assurance and control assessment for traceable and non-traceable quantities (e.g. temperature and lightning).
- Environmental impacts (static or dynamic).
- Operation of AWSs in harsh environment and extreme weather conditions.
- Competences of personnel and training.

4. New developments, interoperability, intelligent measurements, and integration:

- New developments of AWS architecture and components (sensors, data loggers, processing units, Internet of Things (IoT), communication devices).
- Technological innovations and new approaches (e.g. use of new embedded system (Real Time Operating System (RTOS), Android).
- System interoperability.
- Use of other instrumentation with AWSs (such as cameras, Automated Weather Information System (AWIS), wind profilers, microwave radiometers, ceilometers, cell phones).
- Achievements in system integration (centralised processing for derived quantities).
- Concept for intelligent AWS based on IoT.

The Conference will be conducted in English only. All information concerning ICAWS-2017, including the Abstract Submission Form, is available on the WMO/CIMO website under:

<http://cimo.wmo.int/>, or

www.wmo.int/icaws.

The International Programme Committee will give preference to papers on the above-mentioned subjects.

The deadline for submission of full papers and posters in their required format will be provided in the acceptance letter to be sent to authors of selected abstracts, in June 2017. Papers accepted for presentation will be published in their original form (without editing) in the WMO Instruments and Observing Methods Report series.

Abstracts of proposed papers, not exceeding half a page, in **English only**, should be submitted, using the electronic version of the Abstract Submission Form only, via the above-mentioned web links, not later than **31 May 2017**.

Should you have any further questions, please do not hesitate to contact:

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