



WMO OMM

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

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15 March 2018

Annex: 1 (available in English only)

Subject: Announcement and Call for Abstracts for the 2018 WMO/CIMO Technical Conference on Meteorological and Environmental Instruments and Methods of Observation (CIMO TECO-2018)

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 20 April 2018**

Dear Sir/Madam,

The World Meteorological Organization (WMO), under the auspices of the Commission for Instruments and Methods of Observations (CIMO), is organizing the 2018 WMO/CIMO Technical Conference on Meteorological and Environmental Instruments and Methods of Observation (CIMO TECO-2018) with the theme: *Towards fit-for-purpose environmental measurements*.

CIMO TECO-2018 will be held in Amsterdam, the Netherlands, at the kind invitation of the Royal Netherlands Meteorological Institute (KNMI), at RAI Amsterdam Convention Centre, from 8 to 11 October 2018.

The Conference will take place in conjunction with the Meteorological Technology World Expo organized by UKi Media & Events, from 9 to 11 October, and the WMO-IOC International Forum of Users of Satellite Data Telecommunication Systems (Satcom) 2018 from 9 to 10 October 2018. CIMO TECO-2018 will also include the presentation of the 2018 Professor Dr Vilho Väisälä Awards.

CIMO TECO-2018 will gather together experts in instruments and methods of observation from National Meteorological and Hydrological Services, research institutes and the private sector, thus enabling exchange of experience and achievements in operational measurement practices, as well as in the latest developments in instrumentation, observing systems and related services. It will provide a valuable opportunity for a direct interaction with manufacturers of meteorological and other related instruments and systems, as well as for training and capacity development, particularly for participants from developing countries.

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  
 Director General, ASECNA  
 Executive Secretary, HMEI

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.

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 CIMO TECO-2018 are kindly requested to complete the electronic version of the Abstract Submission Form, which is available online, at:

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

<http://www.wmo.int/pages/prog/www/CIMO/cimo-teco-meteorex.html>.

For technical reasons, consideration can only be given to abstracts, in English, of less than **300 words**, which are submitted online before **20 April 2018**.

Lead authors of papers selected by IPC will be advised in June 2018 with further instructions concerning the format and submission deadline for papers or posters for publication in the Conference Proceedings.

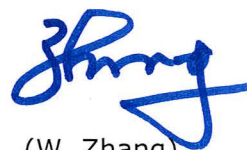
Limited financial support may be available for selected participants from developing countries, who are presenting papers.

The Conference Announcement is provided in the Annex and additional information will also be available at the above-mentioned web links.

In the spirit of the WMO Integrated Global Observing System (WIGOS), CIMO is focussing on strengthening collaborations with other communities contributing to WIGOS. As a result, CIMO TECO-2018 will be supporting the WIGOS measurement community initiative to preserve knowledge of existing environmental measurement methodologies of existing technical commissions, in the WMO transition process to a new structure.

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

Yours faithfully,



(W. Zhang)  
for the Secretary-General



CIMO TECHNICAL CONFERENCE ON  
METEOROLOGICAL AND ENVIRONMENTAL  
INSTRUMENTS AND METHODS OF OBSERVATION  
(CIMO TECO-2018)

***The World Meteorological Organization is pleased to announce***  
**The 2018 WMO/CIMO Technical Conference on Meteorological and  
Environmental Instruments and Methods of Observation (CIMO TECO-2018)**

**Amsterdam, the Netherlands, 8-11 October 2018**

**Theme:** *Towards fit-for-purpose environmental measurements*

The following main topics will be addressed at the Conference:

**1. Characterization and standardization of environmental measurements – traceability assurance;**

*This session will address metrology issues for meteorological and related measurements and methods of observation, such as calibration, standards and traceability to the International System of Units (SI), achievable uncertainty in the field and laboratory, user requirements, inter-laboratory comparisons, measurement standardization, measurement performance classification, siting classification, and guidance and regulatory material.*

**2. Emerging measurement technologies: from development to operation;**

*This session will address recent innovations in technology, new developments in instruments and systems for surface-based and space-based observations, and system interoperability including data acquisition and communication, with particular focus on procedures and experiences for the transition of new techniques and technologies into operation.*

**3. Ensuring sustainability of measurements;**

*This session will address the planning and management of changes to measurement instrumentation and observing methods, migration from obsolete measurement to modern alternatives, instrument intercomparisons, maintenance, equipment protection for operation in harsh environments and extreme weather conditions, continuity and consistency of measurements, data homogeneity, competences of personnel, and training.*

**4. Measurement and integration challenges in the next 20 years;**

*This session will address the visions for measurements in the future, strategies to ensure the persistency and accuracy of instruments and observing methods, opportunities and challenges as a result of the Internet of Things, low-cost measurement technologies, crowdsourcing and big data, and challenges with integration of measurements. Engagement experiences with public and private sectors towards improvement and integration of measurements, and possible mechanisms to foster this engagement will also be presented in this session.*

CIMO TECO-2018 will be conducted in English only. All information concerning the Conference, including the Abstract Submission Form, is available on the following WMO/CIMO websites:

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

<http://www.wmo.int/pages/prog/www/CIMO/cimo-teco-meteorex.html>.

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 2018. 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 **300 words**, in **English only**, should be submitted, using the electronic version of the Submission Form, via the above-mentioned web links, not later than **20 April 2018**.

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

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