



WORLD
METEOROLOGICAL
ORGANIZATION

WEATHER CLIMATE WATER

The WMO Commission for Instruments and Methods of Observation (CIMO) is pleased to announce:

TECO - 2016
(Technical Conference on
Meteorological and
Environmental Instruments
and Methods of Observation)
27-30 September 2016

In conjunction with

Meteorological Technology
World Expo 2016
27-29 September 2016

And

MMC - 2016
(Metrology for Meteorology and Climate,
2nd conference)
26-27 September 2016

Madrid, Spain





What and when:

TECO – 2016 (27 – 30 Sept 2016)

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

<http://www.wmocimo.net>, available from 1 April 2016

is for experts in instruments and methods of observation from NMHSs, research institutes and the private sector. It promotes the exchange of information on the latest developments in instrumentation, methods of observation and related topics. All this in a changing society: assessing the quality and traceability of data sourced from partner and private networks, capitalizing on information provided by social media and crowdsourcing, and also adapting to the challenges and opportunities of big data. It provides an invaluable opportunity for training and capacity development, particularly for participants from developing countries, who are strongly encouraged to present their work.

Meteorological Technology World Expo 2016 (27 – 29 Sept 2016)

<http://www.meteorologicaltechnologyworldexpo.com/visiting.php?n=visit>

is for people involved in the decision-making processes in specifying and purchasing climate, weather and hydrometeorological measurement, prediction and analysis technologies, plus service providers.

MMC – 2016 (26 – 27 Sept 2016)

<http://www.meteomet.org/>

is for scientists involved in the evaluation of overall measurement uncertainties for the quantities involved in the meteorological observations and climate change evaluations. It is dedicated to the achievements in JRP ENV58 MeteoMet2, which aims to extend the investigations on the traceability of some essential climate variables to SI, and the evaluation of calibration uncertainties, available from the previous JRP ENV07 MeteoMet1.

Where:

IFEMA – Feria de Madrid

Av. Partenón, 5, 28042 Madrid, Spain

<http://www.ifema.es/>

Accommodation:

<https://www.horizonresourcing.co.uk/meteorological-technology-world-expo-2016/>

Topics:

- 1. Traceability, uncertainty and standardization of meteorological and environmental measurements;**
 - metrological issues related to meteorological measurements and methods of observation: traceability to SI (including trace gas measurements), calibration of weather radars and space-based (satellite) instruments, measurement uncertainty achieved in the field and in the laboratory, CMCs of accredited calibration laboratories, collaboration with RICs and RRCs, competencies, implementation of and compliance with WIGOS related standards (such as siting classification, metadata, ISO/IEC 17025, ITU radio-regulations, the International Cloud Atlas).
- 2. Developments in observing technologies and systems;**
 - achievements of Lead Centres, developments in in-situ technologies, developments in remote sensing instruments, systems and technologies (such as weather radars, radar wind profilers, lidars and lightning detection systems), developments in integrated (composite) systems, developments in data acquisition and quality control software, developments in design and installation of measurement infrastructure including their standardization, performance of new technologies.
- 3. Intercomparisons, characterization and testing of instruments and methods of observation;**
 - outputs of international intercomparisons (such as SPICE, IPC), results of regional or national intercomparisons of different instruments, technologies and systems, inter-laboratory comparisons, outcomes of testing of instruments and observing methods, achievements of Testbeds, procedures for organization and conduct of intercomparisons and testing.
- 4. Challenges and opportunities for continuous improvement in observing technologies;**
 - transition from mercury-based and obsolete instruments to modern alternatives, migration from manual to automated observations, combining information from composite observing systems, introduction and experience with AWSs, low-cost technologies, weather-proofing - strategies for improving operation of observing equipment in harsh environments and extreme weather, assessment of externally-sourced meteorological data (incl. crowdsourcing, partner and private networks), adapting to the challenges and opportunities of big data, and strategies for meeting the observational needs of the coming decades.



Deadlines for TECO - 2016:

Abstract submission: **30 April 2016**

Notification of abstract acceptance: **15 June 2016**

Full paper submission: **15 August 2016**

Registration: **31 August 2016**

The International Programme Committee:

Dr Bruce Forgan (Chair)
Bureau of Meteorology
Melbourne, Australia

For further information please contact:

The WMO Secretariat:

Dr Roger Atkinson

World Meteorological Organization

Geneva, Switzerland

Tel.: +41 22 730 8011 | Fax: +41 22 730 8021 | ratkinson@wmo.int