

Name: Carmen García Izquierdo

Title of the position: Head of mass and mechanical quantities

Institution: Spanish Metrology Center (CEM)

Dr Carmen García Izquierdo is currently head of mass and mechanical quantities department at the Spanish Metrology Center (CEM). She has more than 25 years of experience in thermal metrology and has been involved in Metrology for Meteorology and Climate activities for more than 12 years. She accomplished two field campaigns, the first one to determine the influence of buildings on air temperature measurements, and the second one about a comparison of thermometer radiation shields in the Arctic, as the coordinator of this last project.

Nowadays, she is member of the BIPM Consultative Committee for Thermometry (CCT) Working Group for Environment, and of the European Metrology Network for Climate. In addition, she is involved in several expert teams of the Standing Committee on Measurements, Instrumentation and Traceability (SC-MINT) of the World Meteorological Organization (WMO) Infrastructure Commission (INFCOM) , and also in Atmospheric Observation Panel for Climate (AOPC) and GCOS Surface Reference Network (GSRN) of WMO Global Climate Observing System (GCOS).



Name: Holger Dörschel

Title of the position: Manager of RIC Hamburg and Oberschleissheim

Institution: Deutscher Wetterdienst (German Meteorological Service)

He was originally trained as a communications electronics technician. By chance, he joined the military weather service (former German Military Geophysical Office, GMGO) and became a weather observer. Then he went to Deutscher Wetterdienst to work in the communication area. The opportunity arose to study. The aim of his studies was to become a weather forecaster. But he wanted to go into measurement technology. He came to the calibration laboratory in Hamburg in 2004. The task was to obtain accreditation in accordance with ISO/IEC 17025 for the areas of wind speed and wind direction, temperature, humidity, air pressure and precipitation. He completely rebuilt and realigned the outdated laboratories in Hamburg and Oberschleissheim. He mainly deals with the management of the laboratory, the elaboration of Java software and the creation of measurement uncertainty budgets. He is working on automating as many work steps as possible. He has been contributing to the World Meteorological Organization (WMO) Expert Teams (Expert Team on Metrology (ET-MET), and now Expert Team on Quality, Traceability and Calibration (ET-QTC)) working on measurements and traceability for several years.



Name: Andrea Merlone

Title of the position: Research Manager at the Italian National Research Institute of Metrology

Institution: Italian National Research Institute of Metrology (INRiM)

Dr Andrea Merlone is Research Manager at the Italian Istituto Nazionale di Ricerca Metrologica (INRiM). He is chair of the Working Group Environment of the Consultative Committee for Thermometry (CCT) of BIPM and of the Expert Team on Measurement Uncertainty of the World Meteorological Organization (WMO). He also serves as Co-Chair of the Task Group on "Air Temperature" of CCT BIPM and of the "Science and Research Group" of the GCOS Surface Reference Network (GSRN). He launched the European Union (EU) project MeteoMet, bringing a unique contribution in delivering metrology to the metrology community and climate science. He promoted and organized the series of international conferences "Metrology for Meteorology and Climate" and organized the "Arctic Metrology Workshop" series. He manages the WMO Measurement Lead Center on "Traceability and Field Metrology" hosted by INRiM in Torino, Italy.

In October 2013, he was awarded the European Association of National Metrology Institutes (EURAMET) impact prize for "... the personal role in achieving the exceptional outreach of the MeteoMet project, which brings together key national and international bodies in meteorology and metrology, to new levels of cooperation".

His recent activities ranged from the accurate measurements of phase transitions thermodynamics, to the determinations of the Boltzmann's constant for the new definition of the kelvin, to a new metrological approach for the traceability of meteorological observations and climate studies



Name: Stephanie Bell

Title of the position: Principal Scientist, Temperature and Humidity

Institution: National Physical Laboratory (United Kingdom)

Dr Stephanie Bell is an expert in humidity measurement and calibration, with more than 30 years' experience in the subject area. Her interests include humidity measurement techniques, primary humidity standards, moisture content of materials, water vapour pressure data and calculations, air temperature measurement and calibration, and uncertainty evaluation. She has chaired national and international committees on humidity, and she leads NPL's humidity training course. She has published more than 90 papers and reports on measurement and calibration for humidity, air temperature, moisture in materials and related subjects.



Name: Drago Groselj

Title of the position: Director of Environment Measurements Office; Head of WMO Regional Instrument Centre

Institution: Slovenian Environment Agency

Mr Drago Groselj (M.Sc) has been managing the Environmental Measurement Office at the Slovenian Environment Agency (ARSO) which plays a crucial role in managing operations of environmental measurements across the country. This includes meteorological, hydrological, oceanographic, air quality, and water quality measurements at 643 automatic and manual observation stations. The office is also responsible for coordinating investment activities and maintaining the measurement systems and infrastructure within the ARSO observation network. To ensure the accuracy and reliability of observational data, the office operates an ISO/IEC 17025 accredited calibration laboratory.

With two decades of involvement in the World Meteorological Organization (WMO), particularly in metrology, Mr Drago Groselj contributed as both a member and chair of various expert teams within the Commission for Instruments and Methods of Observation (CIMO), former technical commission, and Standing Committee on Measurements, Instrumentation and Traceability (SC-MINT). Additionally, he is actively engaged in two the Bureau International des Poids et Mesures (BIPM) task teams in the field of metrology.

