

 The logo for IMEKO TC12 features a blue square with the word "IMEKO" in white at the top. Below it is a white globe with a blue grid. Overlaid on the globe is the text "TC12" in large, bold, red letters.	<p style="text-align: center;"><b>NEWSLETTER</b> <b><u>IMEKO</u> <u>Technical</u> <u>Committee</u> 12</b></p> <p>c/o Andrea Merlone INRIM Istituto Nazionale Ricerca Metrologica Strada delle Cacce, 73-91 - 10135 Torino, Italy tel + 39 011 3919734 fax + 39 011 3919747 e-mail: a.merlone@inrim.it</p>
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## **Special Issue after TEMPMEKO 2013**

Dear Colleagues,

welcome to this Special Issue of the IMEKO TC12 Newsletter providing details of what happened during the TEMPMEKO 2013 Symposium. The following report on the event was prepared by

***Eduarda Filipe, PT, NOC Chairperson***  
***Francesco Righini, IT, TC12 Chairperson***  
***Rod White, MSL, NZ, IPC Chairperson***

Hope you'll enjoy the report and the pictures

*Andrea Merlone*

 The logo for TEMPMEKO 2013 features a stylized bird-like figure in a glass vase. To the right, the text "Madeira PORTUGAL" is written in green, and "TEMPMEKO 2013" is written in red.	<p><b>Symposium on Temperature and Thermal Measurements in Industry and Science</b></p> <p>14th - 18th October 2013 Funchal</p>  A horizontal collage of ten small images showing various scenes from Madeira, including a waterfall, a pink flower, a beach, a traditional house, a landscape, a blue sky, a globe, a modern building, a bird, and a swimming pool.
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<http://www.tempmeko2013.pt/>

The 12<sup>th</sup> edition of the international Symposium on Temperature and Thermal Measurements in Industry and Science – TEMPMEKO 2013 was held in Funchal, the capital of the Madeira Islands, Portugal, on October 14-18. The conference was organised jointly by the Portuguese Society of Metrology (SPMet) and the Portuguese Association of Accredited Laboratories (RELACRE), supported by IMEKO TC 12 (International Measurement Confederation – Technical Committee 12 on Temperature and Thermal Measurements).



*A real strelitzia, the symbol of TEMPMEKO 2013*

The conference was attended by 291 scientific participants, with the addition of 28 accompanying persons. The scientific attendees came from 42 countries; their geographic distribution is presented in the following table.

<b>EUROPE</b>	<b>205</b>	<b>ASIA-PACIFIC</b>	<b>64</b>	<b>AMERICAS</b>	<b>20</b>	<b>AFRICA</b>	<b>2</b>
AUSTRIA	3	AUSTRALIA	1	BRAZIL	2	EGYPT	1
BELGIUM	1	CHINA	11	CANADA	6	KENYA	1
BOSNIA HERZEGOVINA	1	INDONESIA	1	MEXICO	3		
CROATIA	2	JAPAN	26	URUGUAY	1		
CZECH REPUBLIC	11	NEW ZEALAND	4	PUERTORICO	1		
DENMARK	6	SINGAPORE	1	UNITED STATES	7		
FINLAND	5	SOUTH KOREA	11				
FRANCE	19	TAIWAN	2				
GERMANY	34	THAILAND	1				
HUNGARY	1	TURKEY	6				
IRELAND	2						
ITALY	10						
NETHERLANDS	5						
NORWAY	2						
POLAND	9						
PORTUGAL	21						
RUSSIAN FEDERATION	11						
SERBIA	1						
SLOVAKIA	6						
SLOVENIA	11						
SPAIN	10						
SWEDEN	3						
SWITZERLAND	8						
UNITED KINGDOM	23						



*The conference hotel*

Participation from the United States was lower than usual, due to the unexpected shutdown of the US government in October that prevented the attendance of several US colleagues.



*Opening session*

During TEMPMEKO's opening ceremony, the EURAMET 2013 Impact Prize was presented to Andrea Merlone (INRIM, Italy) by Janko Drnovšek, EURAMET Vice-Chairperson.



*Presentation of the EURAMET impact prize 2013  
for the coordination of the project "MeteoMet – Metrology for Meteorology"*

The Symposium received 420 contributions; 378 were accepted. The final numbers were 177 oral presentations and 161 posters. Over the four days of the conference there were 11 oral sessions (organized in 4 parallel streams) and 6 poster sessions. The parallel streams covered the following major areas:

- Fundamentals and applications
- Radiation thermometry
- Contact thermometry
- Humidity, Moisture, and Climate

Each conference day started with an invited plenary talk, that covered significant items of interest to the thermal measurements community:

- A. Merlone, (INRIM, IT) “Metrology for Meteorology and Climate”
- J. Fischer, (PTB, DE) “Towards the New Definition of the Kelvin”
- Y. Yamada (NMIJ, JP) “Towards Reliable Industrial Radiation Thermometry”
- R. White, (MSL, NZ) “Observations on the Nature of Measurement”

The submissions by country are reported in the following table, attributing the country count to that of the contact author:

Country	Count
China	39
Germany	30
Japan	26
United Kingdom	25
France	24
Russian Federation	23
Italy	20
Czech Republic	19
Slovenia	17
United States	16
Spain	15
South Korea	14
Mexico	12

Turkey	10
Poland	9
Finland New Zealand	7
Netherlands Portugal Slovakia	6
Brazil Canada Sweden Thailand	5
Australia Croatia Egypt Indonesia Taiwan	3
Austria Denmark Hungary	2
Argentina Colombia Estonia Ireland Norway Uruguay	1
<b>TOTAL ACCEPTED SUBMISSIONS</b>	<b>378</b>

The conference also benefited with the involvement of 15 Sponsors & Exhibitors (**ACT, BPI, CHINO, FRIATEC, FLUKE, GUILDLINE, INSCO, ISOTECH, KAMBIC, MBW, MICHELL, MI, NOVASINA, ROTRONIC, WIKA**) in the domain of temperature and humidity measuring equipment. The exhibition booths, available through the conference days, were located adjacent to the poster presentations and close to the coffee-break location. The conference participants had a very active and interested

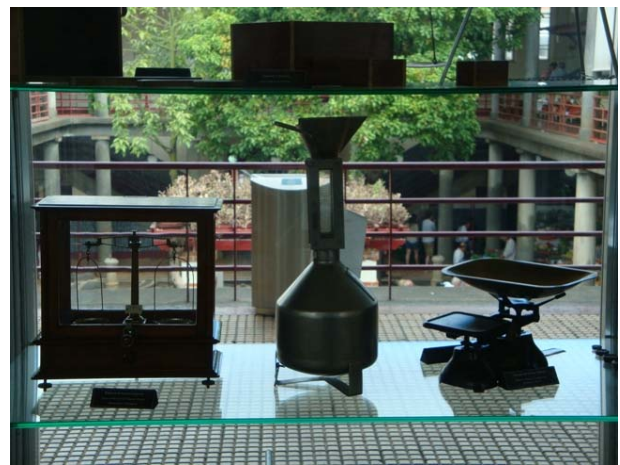
involvement, taking the opportunity to view the exhibits and talk with the representatives in attendance.

Twelve different satellite meetings were arranged, covering the needs of specialized groups or different research projects. Most of the meetings took place on the Friday following the Symposium.

Beyond the technical and scientific aspects of the Symposium, the participants had the opportunity to enjoy Funchal and its surroundings, as well as the many cultural and recreational activities available in the Madeira Islands.



*Market colours in Funchal*



*Metrology in Madeira.*

The cultural visit took people to different locations around Funchal on Wednesday afternoon, including a trip to Monte, where a large majority of attendees braved a rather unsafe and dangerous toboggan ride down car infested roads, as you can see in the following pictures. We all came back safe and enjoyed the conference dinner that concluded the event on Thursday evening.



*Way up to Monte...*



*and way down!*





*Conference dinner*

TEMPMEKOs have not issued conference proceedings since the 2007 edition. Authors of presentations had the opportunity to submit manuscripts to the International Journal of Thermophysics. By the deadline (November 2013) about 230 manuscripts were received. They are currently undergoing peer review and those accepted will be published in several Special Issues devoted to the conference. At the time of this writing 120 manuscripts have completed the first stage of the review and final decisions have been made on 25 of them. Before printed publication, the accepted papers will appear on the IJOT Online First webpages. So far about 160 different reviewers have been involved and it is expected that about 500 different reviews will be done by the end of the process.

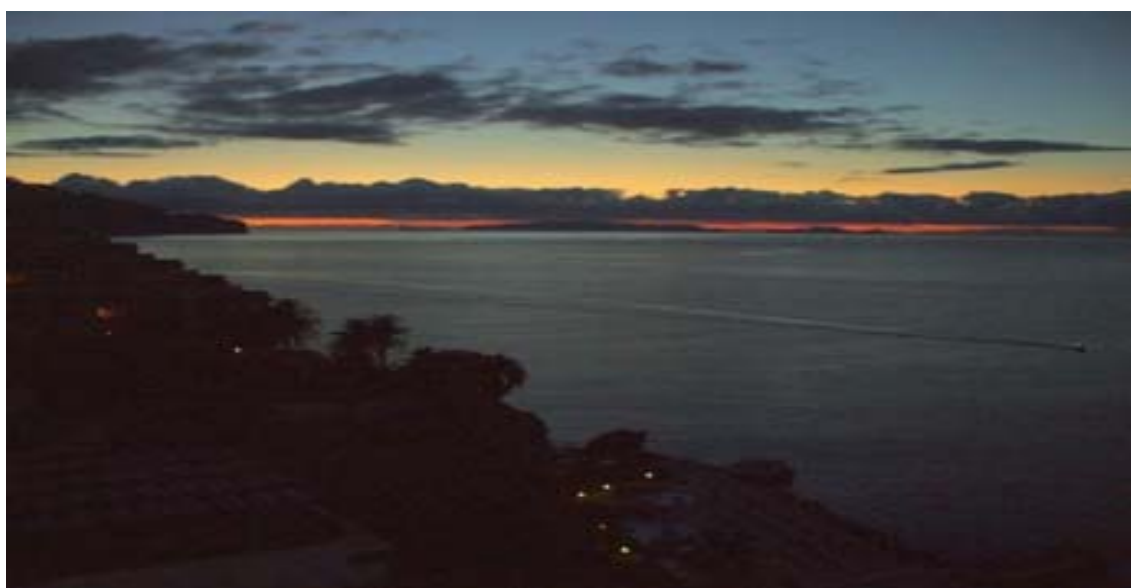
For those of you who could not attend TEMPMEKO 2013, the few pictures presented in this Newsletter have tried to capture some of the most significant moments of the event. If you are interested, please have a look at the many more pictures available on the conference website.

We would like to conclude by thanking all the Portuguese Organizers for their excellent work and warm hospitality.



*The Portuguese National Organizing Committee*

If you liked the event, and are already missing the wonderful view out of your hotel window, start to make preparations for the next one in 2016!!



*Looking outside a hotel window...*