

	<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 TEMPMEKO 2013

Dear Colleagues,

You are welcome to this Special Issue of the IMEKO TC12 Newsletter devoted to the TEMPMEKO 2013 Symposium. You will find interesting news and information on the event and details on the submitted abstracts. Further news and deadline reminders will be sent to you according to the reported schedule. I am looking forward to meet again all of you in Funchal!!

*Andrea Merlone*



TEMPMEKO 2013: 12<sup>th</sup> Symposium on Temperature and Thermal Measurements in Industry and Science

<http://www.tempmeko2013.pt/>

TEMPMEKO 2013 is now about 6 months away, and with a record number of submitted abstracts we are expecting a well-attended and very interesting conference.

TEMPMEKO 2013 will take place in Funchal, located in the South Coast of the island of Madeira. An archipelago with a wonderful subtropical climate and breathtaking scenery, Madeira is justifiably known as the 'floating garden' or the 'Pearl of the Atlantic'. It is located in the North Atlantic Ocean, about 900 km from continental Portugal and about 600 km from the coast of Morocco; an European outpost in the Atlantic Ocean.

The conference will be held at the [Congress Centre of VIDAMAR Resorts Madeira Hotel](#) which offers Conference Center facilities and accommodation. There is also a large exhibition space, which will enable all the interested exhibitors from the relevant fields to present their products. The venue offers many possibilities for interesting cultural visits to beautiful places available to accompanying persons.

We will start on Sunday evening with a Welcome Party and conclude the symposium on Thursday with the Conference Dinner. In between, a cultural and sightseeing visit is planned for Wednesday afternoon. Friday will be devoted to satellite meetings of CCT working groups and some project meetings as well.

### Important dates

Notification of acceptance of abstracts.....	30 <sup>th</sup> April 2013
Submission of papers .....	30 <sup>th</sup> June 2013
Start of registration .....	31 <sup>st</sup> January 2013
Special rate registration fee until .....	1 <sup>st</sup> June 2013
Conference begins on.....	14 <sup>th</sup> October 2013

We have received a record number of 405 abstracts promising a good mix of presentations covering contact thermometry, radiation thermometry, humidity and moisture, thermophysical properties, as well as a the usual good selection of industrial applications and climate related papers. The reviewing process has commenced and already it looks as though the overall quality of the papers is very good.

The geographic distribution of the countries of origin of the papers is very similar to past TEMPMEKO conferences, but we do have a few more papers from Europe, and very similar numbers from other parts of the world.

**The grand tally is Europe: 243, Asia-Pacific: 108, Americas: 50, and Africa: 4.**

Argentina	1	France	24	Poland	8
Australia	4	Germany	32	Portugal	6
Austria	2	Hong Kong	1	Russian Fed.	25
Brazil	5	Hungary	2	Serbia	1
Burkina Faso	1	Indonesia	3	Slovakia	7
Canada	5	Ireland	1	Slovenia	16
China	42	Italy	21	Spain	16
Colombia	1	Japan	26	Sweden	5
Croatia	3	Rep. Korea	14	Taiwan	4
Czech Republic	20	Malaysia	1	Thailand	6
Denmark	2	Mexico	17	Turkey	12
Egypt	3	Netherlands	7	United Kingdom	24
Estonia	1	New Zealand	7	United States	20
Finland	7	Norway	1	Uruguay	1

The topics identified for the submissions are also nicely distributed:

T1.1 - Thermodynamic Temperature Determinations	19
T1.2 - Boltzmann Constant Determinations	6
T1.3 - Temperature Scales	10
T1.4 - Fixed Points (metal, gas, metal-carbon, water TP)	79
T1.5 - Humidity and Moisture Standards	20
T1.6 - Strategy and Roadmaps	4
T2.1 - Thermoelectric Thermometry (noble, base, W-Re)	16
T2.2 - Resistance Thermometry (incl. thermistors)	27
T2.3 - Radiation Thermometry (incl. blackbodies)	59
T2.4 - Noise Thermometry	4
T2.5 - Acoustic Thermometry	7
T2.6 - Hygrometers and Moisture Sensors	20
T2.7 - Phosphor Thermometry	1
T2.8 - Other Methods and Sensors (incl. liquid-in-glass)	6
T3.1 - Water Vapour Pressure	3
T3.2 - Interaction of Water with Other Substances	1
T3.3 - Moisture Profile and Transport	1
T3.4 - Emissivity	16
T3.5 - Thermal Diffusivity, Conductivity, Electrical Resistivity, Heat Capacity	24
T3.6 - Other Thermophysical Properties	6
T4.1 - Inter-laboratory Comparisons	24
T4.2 - Calibration Procedures	19
T4.3 - Uncertainty Estimation	17
T4.4 - Instrumentation and Facilities	31
T4.5 - Accreditation and Proficiency Testing	1
T4.6 - Software and Data Processing	3
T5.1 - Control and Automation	8
T5.2 - Dynamic and Transient Measurements	10
T5.3 - Surface Temperature Measurement	3
T5.5 - Industrial Processing Applications	14
T5.6 - Medical and Biological Measurements	7
T5.7 - Environmental Measurements	4
T5.8 - Climate and Weather Applications	11
T5.9 - Other Applied Thermal Measurements	9

*Note: the larger number of submissions by topics is related to the possibility for authors to indicate multiple areas for their contributions*

Taking into account the number of submitted abstracts, we expect three parallel oral sessions together with three poster sessions over the four days of the conference. In total, we plan about 190 oral presentations and up to 215 posters. Furthermore, there will be four plenary sessions.

The IPC is working hard to review all of the papers by the end of April, so that we can notify authors and give them plenty of time to prepare presentations, posters, and

manuscripts of papers, for those who want to submit their papers for publication. The Proceedings will appear in the International Journal of Thermophysics, published by Springer, with fully refereed articles spread over four Special Issues.

Participants are expected from industry, calibration services, universities, research centres and national measurement institutes, creating a good opportunity for exhibitors from related areas to present their products and services and to meet and exchange ideas with customers and colleagues. Several exhibitors (CHINO, FLUKE, GUILDLINE, INSCO, KAMBIC, MBW, WIKA) and one sponsor (MICHELL) have already confirmed their participation.

All the details for potential participants and exhibitors are available from the website <http://www.tempmeko2013.pt> Please consult it often because all communication and information will be updated there. In addition, for specific queries, you can send emails to the Organizers at [admin@tempmeko2013.pt](mailto:admin@tempmeko2013.pt)

We are looking forward to meet again all of you in Funchal, Madeira, Portugal for TEMPMEKO 2013

*Euarda Filipe, SPMet, PT, NOC Chairperson*  
*Rod White, MSL, NZ, IPC Chairperson*