



# NEWSLETTER

## IMEKO Technical Committee 12

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### TO THE MEMBERS OF IMEKO TC12

Dear Colleagues,

the June issue of this Newsletter was skipped because during that month many of us met at TEMPMEKO '99. This edition of the Symposium was a great success, surpassing again, both in attendance and presentations, all previous editions of the event. Many congratulations are due to the Organizers, for their excellent work that was appreciated by all attendees. The refereed Proceedings Volumes are presently at the printer and will be available shortly. Complete details about TEMPMEKO '99 are presented in the following report.

TEMPMEKO 2001 will be held on June 19-21, 2001 in Berlin, Germany. It will be organized by the VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik (GMA, the German member organization of IMEKO) and by the Physikalisch-Technische Bundesanstalt (PTB, the German national measurement institute). Dr. Joachim Fischer (PTB) will chair the IPC and Dr. Eric Tegeler (PTB) will be responsible for the NOC. I look forward to meet all of you at TEMPMEKO 2001.

I am taking this occasion to send to all of you and to your families the best wishes for the Holiday Season.

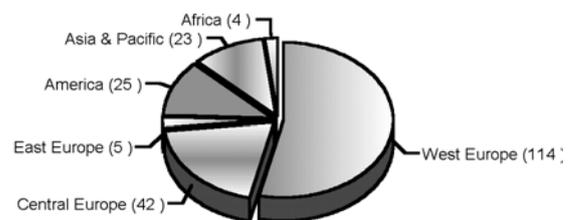
*Francesco Righini*

### REPORT ON TEMPMEKO '99

With the Proceedings of TEMPMEKO '99 at the printer we can now look back somewhat more relaxed at the very successful Symposium. We had a record of 149 contributions presented either orally or as a poster. As you know, the Proceedings of TEMPMEKO '96 contained 101 peer-reviewed papers collected in a 650-page thick Proceedings Volume. The present Proceedings are split in two volumes containing 119 papers for a total of 777 pages. The Proceedings shall be back from the printer for distribution by early December 1999 and should reach most delegates before Christmas, assuring a good read for the dark days of the Northern Hemisphere and some leisure at the beach

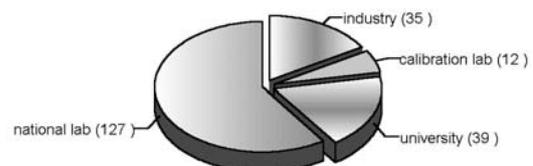
for those South of the equator. For those that did not attend TEMPMEKO '99 but do wish to receive the Proceedings, one set of volumes can be purchased from NMI at 135 Euro (ex vat, ex shipping costs).

Indeed, it is good to see that there was a wide geographical spread of attendees (see the figure below).

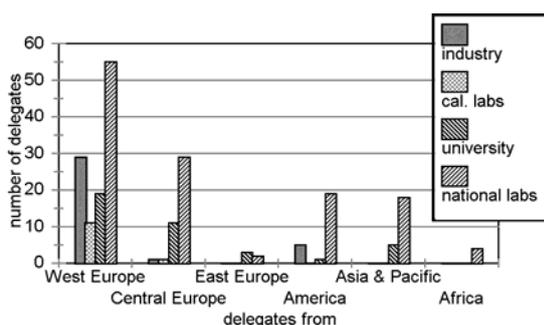


TEMPMEKO, as well as its parental organisation IMEKO, finds its origin in Central Europe and almost 20% of the attendees were from that part of the world. With over 50% of the delegates travelling to Delft from Western Europe, the Symposium location was clearly marked. Still, the present world-wide impact of the event follows from the large number of delegates from other continents. We welcomed 12% of the delegates from the America's and another 10% from Asia and the Pacific. We hope that future events shall show a growing number of delegates from Africa that is currently showing a stimulating interest in standards and metrology.

The institutional background of attendees is presented in the pie chart below.

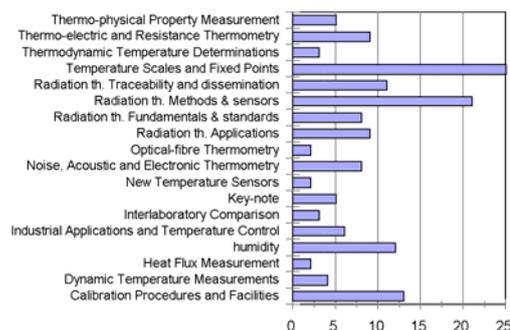


The Symposium title includes industry and science equally. Historically, the attention of the Symposium has been primarily on reference measurements. In this occasion we have tried to increase the industrial interest in the event. The history of the event is clearly reflected in 60% of the participants that work in or are related to a (national) standards laboratory. Secondary calibration laboratories that depend for their traceability on these national laboratories were also significantly represented at 5%. The increasing representation from industry (16%) proves a growing interest in the event from this major group to which the Symposium is dedicated. To continue this growth is a task for the organizers of forthcoming events, where the funding of research depends more and more on the shown relevance of a project proposal to societal needs. Moreover, this is the natural cause of existence for most fields of research discussed in these Proceedings, also applying to most of the work performed by the universities represented (18%) at TEMPMEKO '99. A combination of the background of delegates and of their geographical distribution is presented in the histogram below.



Many papers in the Proceedings of TEMPMEKO '99 also reflect the development of industrially related research. Some interesting papers are related to the needs of industry for better measurements. One of these is the contribution by Frank Bernhard et al. related to surface temperature measurements. This poster, combined with its scientific content, was of such high quality that it received the Best Poster Presentation Award. That, on the other hand, fundamental research can still be very rewarding was shown by Moldover et al. Their paper discusses the fruit of many years of research on acoustic thermometry. It shall prove a valuable contribution to future discussions on the temperature scale. It was presented orally in such a clear manner that it received the Best Oral Presentation Award.

The distribution of contributions among different topics is presented in the following figure.



Radiation thermometry remains a very interesting area to work in as shown by 30% (50 out of 149) of the contributions to the Symposium. We hope that in the future humidity shall continue to prove a growing field of interest where, despite the short time between the NPL-hosted Third International Symposium on Humidity & Moisture (April 1998) and this occasion, 13 contributions were presented. This is also a growing number with respect to the previous TEMPMEKO.

This is the second TEMPMEKO resulting in Proceedings with fully refereed papers, imposing a tight time schedule on the submission, reviewing and editing of manuscripts. That the Proceedings appear on time as scheduled more than a year ago, is only possible because of the great effort by all authors, referees and assistants to the editors. For this, the editors are very grateful to all the contributors. This time schedule also imposed a potential threat to the spontaneity of the event, where last minute results had always been interesting themes of discussion. To enable this kind of information exchange during TEMPMEKO '99, the organisers introduced the late posters. That this was a good approach was shown by 27 late poster contributions. These are not reported in the Proceedings, but were included in the abstract book. During the Symposium there were 73 oral presentations and 76 posters (including the late posters).

We wish our colleagues of PTB and GMA good luck in organizing TEMPMEKO 2001 in Berlin.

*Martin de Groot  
Jaco Dubbeldam*