



NEWSLETTER

IMEKO Technical Committee 12

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TO THE MEMBERS OF IMEKO TC12

Dear Colleagues,

I would like to thank all of you for your efforts in connection with TEMPMEKO '96. The main event promoted by TC12 was scientifically interesting and very well attended: the highlights are reported in the next article. Please note that some work is still going on: the Editor of the Proceedings has sent all manuscripts to referees for their scientific evaluation. The reviewed manuscripts are slowly trickling in and those needing corrections (of scientific and/or editorial content) will be returned to authors in early 1997. The Proceedings Volume (of approximately 700 pages) should be available in mid-1997.

The meeting of TC12 held at the end of TEMPMEKO '96 was an important occasion to focus the attention on our activities. The participation was excellent (15 members out of 23, plus 6 invited persons) and there was a lively discussion on different matters of interest. Asian participants solicited the organization of one of the future TEMPMEKOS in their geographical area, and serious thoughts should be given to the fact that our base is spreading and therefore regional meetings will become more and more important in the future. The discussion on possible future activities was very encouraging, with ideas circulated for various Workshops/Seminars on specialized topics that might attract considerable attention by researchers in these fields. Anyhow it should be kept in mind that it is rather difficult to sustain more than one specialized Workshop per year, therefore the organizers of meetings with complementary topics are urged to consider the possibility of joint Workshops/Seminars, also in consideration that travel budgets are getting very tight in several laboratories.

Details on the events planned for 1997 and other information are added to keep you informed on the various activities. I am taking this occasion to send to all of you and to your families the best wishes for the Holiday Season.

Francesco Righini

TEMPMEKO '96

The Symposium was held on September 10-12, 1996 at the Politecnico of Torino. The organizers were:

- CNR Istituto di Metrologia "Gustavo Colonnetti" (IMGC)
- Dipartimento di Energetica - Politecnico di Torino
- Associazione Italiana Proprietà Termofisiche (AIPT)

The Symposium was sponsored by:

- European Commission - Directorate General XII (SMT programme)
- Comune di Torino
- Azienda Energetica Municipale - Torino

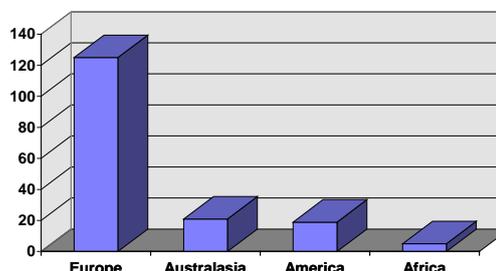
The final scientific programme consisted in 107 contributions distributed as follows:

invited papers	5
oral presentations	58
poster presentations	44

The Symposium programme included a wide variety of topics in temperature and thermal measurements. A novel addition was the inclusion of humidity measurements, with an invited lecture and several contributed papers.

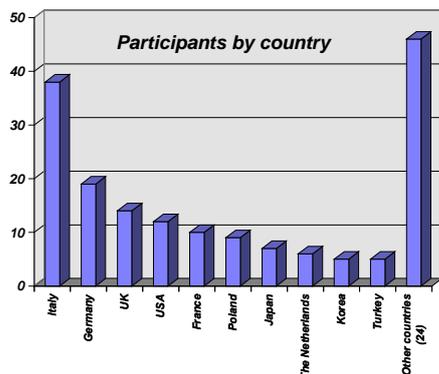
There were 171 attendees, with the geographical distribution reported in the following figure.

TEMPMEKO '96 Participants



The Symposium was very well received by the temperature and thermal measurements community, as indicated by the participation of researchers from 34 different countries, as shown in the following

figure that reports attendance by country (10 countries had 5 or more participants, while 24 other countries had less than 5 participants each).



The large attendance to TEMPMEKO '96 created the opportunity for several international meetings, that were held in the same days either at IMGC or at the Symposium location. The following meetings were held:

- AIPT (Italian Society for Thermophysical Properties): annual general meeting open to foreign participants
- International Working Group on Humidity Measurements
- EAL Temperature and Humidity Experts Group: a two-day meeting was held on September 12-13

A small instrument exhibition was held during the Symposium. Thirteen firms exhibited their products for temperature and thermal measurements. The stands attracted considerable interest and a brief follow-up indicated that also the exhibitors were pleased with the outcome.

On Friday, September 13, a large group of participants visited the Temperature Department of IMGC. An "open laboratory" visit was organized, giving each visitor the possibility to spend as much time as necessary in the laboratory(ies) of interest.

After the conference we have received positive comments from several attendees. Any large event like TEMPMEKO '96 owes its success to the dedication of many individuals that contributed time and efforts to the various scientific and organizational aspects. In this occasion I would like to thank again all the staff of the Temperature Department of IMGC for their work on behalf of the Symposium.

Francesco Righini

TC 12 NEWS

New members.

In relation to contacts established during TEMPMEKO '96, two new members have recently joined TC12. They are:

Ms. Hafidzah Othman from the National Measurement Centre, SIRIM, Shah Alam, Malaysia.

Mr. Neville Robinson from the National Metrology Laboratory, CSIR, Pretoria, South Africa.

The membership of TC12 stands now at 25, with 13 members from Europe, 8 members from Australasia, 3 members from America and 1 member from Africa.

Seminar in Poland.

An international Seminar on "Low Temperature Thermometry and Dynamic Temperature Measurements" is planned in Wroclaw, Poland on September 23-25, 1997. The chairpersons are L. Michalski and A. Szymyka-Grzebyk. The main topics are:

- thermodynamic temperature determinations in the low temperature range
- national realisations of the ITS-90 below 273.16 K
- low temperature fixed points
- dynamic temperature measurement theory and errors
- identification of sensor dynamics
- correction of dynamic errors
- microprocessor based equipment in dynamic temperature measurements

The First Announcement and Call for Papers will be mailed shortly.

Temperature and Thermal Measurements Sessions at the XIV IMEKO World Congress, Tampere, Finland, June 97.

The programme of this conference is taking shape with the following scientific sessions in topics of interest to TC12:

Session 12.1 "Precision temperature measurements", June 4 at 10.15 (6 oral presentations)

Session 12.2 "Application of temperature and thermal measurements", June 5 at 10.15 (6 oral presentations)

Session 12.3 "New approaches in temperature and thermal measurements", June 5 at 14.00 (5 oral presentations)

Additional papers in temperature and thermal measurements are scheduled for poster presentations.