



# NEWSLETTER

## IMEKO Technical Committee 12

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### **TO THE MEMBERS OF IMEKO TC12**

Dear Colleagues,

this is the first issue of a Newsletter that should keep you regularly updated with news and developments in IMEKO TC12 activities. As you know, we have no regular meetings between Tempmeko Symposia, except for some other IMEKO events where some of us happen to be present. The circulation of ideas and proposals is therefore limited, but I trust that this new initiative will somehow help in this matter.

This Newsletter will have no specific issue date, but as soon as important events happen or ideas need to circulate, I will try to prepare an issue. Anyone of you interested to contribute new ideas, to challenge some of what has been written or simply to put forward new proposals regarding our activities is welcome to use this Newsletter. It will be appreciated if you could send your contribution in the form of a file, either as a text file in a diskette or as an e-mail note (to be sent to termofis@imgcvm.to.cnr.it), followed by a printed copy via regular mail.

I am looking forward to your contributions and to your comments. With my best wishes for your work

Francesco Righini

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### **THE FUTURE OF TEMPMEKO SYMPOSIA**

With this note I would like to inform all of you about the future challenges regarding the Tempmeko Symposia and on gradual modifications that should take place in the future. I have shared part of these ideas with some of you in Prague during Tempmeko 93, but this is an important subject where each one of you can contribute to the future directions.

**1. Role of Tempmeko Symposia.** It is an open secret that one of the major roles of IMEKO (opening up scientific contacts between eastern and western scientists) has been completely superseded by the geopolitical events that took place in recent years. Therefore IMEKO itself must redefine its role and its continuation in the future will depend on the capability of IMEKO to stand up in the market of conference organizers by offering events of scientific and technological value. This change of role will apply both to the IMEKO World Congresses and to the Conferences organized by Technical Committees in their specific areas.

In this respect the main event organized by TC12 (the triennial Tempmeko Conference) has a unique advantage that we should capitalize on. Apart from the Temperature Symposium (organized every ten years by the American Institute of Physics, last editions in 1982 and 1992), we are the only group that organizes regularly an event completely dedicated to temperature measurements. This is an important asset and we should continue to improve the organizational and scientific level of the event, to prevent any other group from occupying the same scientific area. Regarding our complementary activity (thermal measurements) the situation is much more complicated: there are now three major conferences devoted to thermophysical properties that are held once per year (one year in Europe, then in America and then in Asia). Additional specialized conferences (Thermal Conductivity Conference, Thermal Expansion Symposium, Eurotherm Conferences,...) are also organized regularly. Therefore we should recognize that this complementary area is fully covered by other sources and any attempt to expand into this area is rather risky. In consequence of this situation, my personal suggestion would be **to expand as much as possible our coverage of the temperature measurement area**, leaving our effort into thermal measurements as a complementary activity. Many of you know that the measurement of thermophysical properties is my main scientific activity and it is therefore with regret that I suggest

that we keep a minor role in this area, but the reality of the situation is what I described before.

I therefore suggest that we strengthen our coverage of the temperature measurement area by adopting gradual changes that should take place within the next two Tempmekos' (in a five year period) so that by the year 1999 our TC is recognized (along with the American Institute of Physics) as the "organizer" of events in the field of temperature measurements. The changes that I have in mind cover the following areas:

- a) improvement in the scientific quality of the Tempmeko event
- b) full peer review of contributions before publication
- c) publication of reviewed and accepted papers either in a journal or in a Proceedings volume (most likely in a 6-12 month period after Tempmeko)
- d) invited speakers and invited papers by experts in the various technical fields.

**2. Ideas for Tempmeko 96 in Torino.** Following up the strategy described before, here are some personal ideas regarding organizational aspects of Tempmeko 96.

Other events in 1996. As described in Prague, the 14th European Conference on Thermophysical properties will be held at INSA, Lyon, France (probably in September 1996). In May 1996 the Comité Consultatif de Thermométrie (CCT meeting) will be held in Paris, France with the main world specialists in temperature attending. It is evident that Tempmeko must be held back-to-back with one of these events: given the previous reasoning, I am leaning toward holding it close to the CCT meeting, even if no decision has been taken.

Proceedings. Review and acceptance of the abstract should be a requisite for presenting a paper to the Tempmeko Symposium. The full text of the papers should be due by the time of the conference. The full texts will undergo peer review after the conference (with rules depending on the publication of the Proceedings). The Proceedings could be published in one of these forms:

- a) as one (or some) special issue(s) of a regular journal. In this case the refereeing must follow the journal rules. A bound volume could be made (after completion of publication) and sent to attendees. One (or two) person(s) from the Tempmeko organizers could take up the role of journal editor(s) for the special issue(s). The journal Measurement is of course the first choice in this case: I will contact the Editor of Measurement to verify the feasibility of this

possibility. From other experiences I lean toward this solution, because it does provide a journal publication to authors of accepted papers and because a journal has a large diffusion beyond the conference attendees;

- b) as a Proceedings Book with a recognized Publisher. In this case we can set up our own refereeing rules. A camera-ready format is probably necessary to keep costs within an acceptable range. The Editor(s) of the Proceedings could establish their own rules regarding all matters of publication.

In either case we should stress with authors that papers intended for publication must be original material, not published elsewhere and of adequate scientific quality. We can of course accept additional papers for presentation at the conference, with the reciprocal understanding that only those papers meeting the mentioned criteria will be published, with the other ones remaining as conference presentations only. I must also inform you that these matters have to be somehow discussed and cleared with the IMEKO Secretariat, but I expect no major hurdles, especially if we can follow the Measurement route.

In the next weeks I will discuss these ideas with colleagues at IMGIC involved in the organization of the event. Your views and comments on all these matters will be appreciated.

Francesco Righini

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### ***XIII IMEKO WORLD CONGRESS Torino, September 5-9, 1994***

The Final Announcement was sent several weeks ago. In our scientific area there will be four technical sessions:

- 12.1 *Sensors and new measurement methods* [1 keynote, 4 oral presentations (o), 10 posters (p)]
- 12.2 *Radiation temperature measurements* [4 o, 2 p]
- 12.3 *Electronics and computers in temperature and thermal measurements and control* [2 o, 5 p]
- 12.4 *Measurement problems in industrial applications* [2 o, 6 p]