NEWSLETTER

IMEKO Technical Committee 12

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Dear Colleagues,

this issue of the Newsletter is a commemorative one, devoted to the development of TC12 in the last twenty years and beyond. Francesco Righini wrote the first issue of this Newsletter in 1994. If you have read the old issues (if you have not, check the TC12 website, but you will need a lot of stamina and some time), you may conclude that:

- during the last twenty years the course of the TEMPMEKO symposia was redefined
- the refereeing and publication policy have made it worthwhile for the academic and research community to present their work at TEMPMEKOs
- this gradual improvement led TC12 to the present "most active TC" status in IMEKO.

Francesco seemed to know the right people no matter where they lived and managed to muster their support and commitment to our work. TEMPMEKOs were often held in the right place and at the proper time in relation to other events.

Francesco is a rather reserved person, but in ageing he has revisited old events with some sense of humor. Download the "TEMPMEKO_tale" and judge for yourself. By looking at the photos in this issue, if you are old enough you might (regrettably) see yourself with Francesco on one of the "old events" pictures. If (fortunately) you are not, the chances are that unknown faded black and white figures on them are scientists whose many papers you may have read.

We have called this issue "a commemorative one", but do not panic! Francesco is doing well, but gradually taking leave from active duty to care for his wonderful family and to prepare perfect sea-food dishes in his elusive ("I will-only-have-sporadic-access-to-email") seaside hideout. He will continue to be an active member of TC12. We are taking over the responsibility of TC12 but will be looking forward to his help and advice about issues that will emerge in the future.

Davor Zvizdic
Andrea Merlone

TWENTY YEARS OF TEMPMEKOs (1994-2014)

Those of you who attended TEMPMEKO 2013 already know that the TC12 meeting held in that occasion indicated new Officers for the Committee. That decision was ratified by the IMEKO meetings that took place in Benevento, Italy on September 12-14. From that date Davor Zvizdic (Croatia) formally became TC12 Chair and Andrea Merlone (Italy) took the Scientific Secretary position. In occasion of the TEMPMEKO 2013 conference dinner I presented a semi-serious history of TC12 and TEMPMEKOs, titled "***A TEMPMEKO TALE***". Those of you interested in how our story changed during the past 35 years may find a version of that presentation (the slides without the talking part) at:

http://joomla.imeko.org/index.php/tc12-homepage/documents-tc12

The pdf file "TEMPMEKO_tale" is available at the bottom of the indicated web page and is freely downloadable.

Before leaving the responsibility of TC12, I have tried to fill some gaps, inserting in the TC12 website indicated above some detailed information about the various events organized over the life of the Committee and the complete set of the Newsletters, many of them previously available only in paper form because they originated before

the Internet era and were delivered by post to TC12 members only.

In these parting days, it seems appropriate to recall what happened during the last two decades in which I chaired TC12. What I had proposed to accomplish was clearly defined in the main article of the first Newsletter issued in June 1994, that is reported below (with some omissis indicated by dots….).

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…..

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 organisers by offering events of scientific and technological value. This change of role will apply both to the IMEKO World Congresses and to the Conferences organised by Technical Committees in their specific areas.

In this respect the main event organised by TC12 (the triennial TEMPMEKO Conference) has a unique advantage that we should capitalise on. Apart from the Temperature Symposium (organised every ten years by the American Institute of Physics, last editions in 1982 and 1992), we are the only group that organises regularly an event completely dedicated to temperature measurements. This is an important asset and we should continue to improve the organisational 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 specialised conferences (Thermal Conductivity Conference, Thermal Expansion Symposium, Eurotherm Conferences,...) are also organised regularly. Therefore we should recognise 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 recognised (along with the American Institute of Physics) as the "**organiser**" 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 on the strategy described before, here are some personal ideas regarding organisational 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 Comitè Consultatif de Thermomètrie (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 organisers 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 recognised 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….

Many of you reading this article have traveled with me along this path for two decades: it is up to you to evaluate the situation and make your own judgement if the ideas indicated above have helped TC12 and TEMPMEKOs to gain an appropriate recognition in our scientific community.

Let me conclude with many sincere thanks to all of you that have been active part of this story:

a) to the various TEMPMEKO Organizers and the people helping them, who have spent countless days worrying about their future event, and were always rewarded with a big attendance
b) to the various IPC Chairs and to anyone who has helped with the scientific part as IPC member, reviewer,…
c) to anyone who has contributed scientifically to the events as author, presenter, participant to the scientific discussions,…
d) and finally to all of you, the TEMPMEKO attendees. As I have often said in the closing remarks, we may do great preparations and choose appealing locations, but it is your presence and scientific interactions that make any conference a success.

I wish to the new TC12 Officers and to the future TEMPMEKOs all the possible success in the hard days of work ahead.

Francesco Righini

TC12 News

Dr. Osamu Tamura, AIST National Metrology Institute of Japan, has resigned from the Committee. He was replaced by Dr. Yoshiro Yamada, from the same Institute.

Many thanks are due to Dr. Tamura for his years of work with TC12 and a warm welcome is extended to Dr. Yamada, who for many years has been an important scientific contributor to TEMPMEKOs.

TC12 Events: A Photographic History

The following pages present TC12 events over the years using pictures. This story is complementary to the "TEMPMEKO tale" described elsewhere. It should be noted that the early events organized by TC12 took place many years before the era of

Internet and digital cameras. In those days information was sent by post, or by telex if both parties had such possibility. Cameras with 35 mm black and white film were the norm, and gradually they were replaced by color film. I rarely took a camera with me at the various events, therefore I had to rely on colleagues that kindly provided the photographic material you see on the following pages. Some of you reading this Newsletter may have photographic records available from the early years: if you are willing, please share with us your memories to complete the picture story.

Acknowledgements. Several people contributed either personal or institutional pictures to make this story possible. I am particularly indebted to:

Frank Bernhard for providing all the pictures of events up to 1993 and for helpful discussions on identifying persons

Joachim Fisher for sending many pictures of TEMPMEKO 2001

Davor Zvizdic for having provided a CD full of pictures taken at TEMPMEKO 2004

INRIM Colleagues: we pooled the pictures taken at TEMPMEKO 2007 and I have made free use of them, without knowing the original photographer

Jovan Bojkovski for providing a selection of pictures taken during TEMPMEKO-ISHM 2010

Portuguese Organizers of TEMPMEKO 2013: I freely made use of photos from their website

The (good or bad, depending on your opinion) choice about selecting the pictures and providing captions was made by me. I hope no offense is taken, since I have tried to recapture the "*spirit of the event*". I only hope that seeing these pictures brings back some happy memories to many of you.

Francesco Righini

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WORKSHOPS

Opening of the Workshop on "Major Problems of Present Day Radiation Pyrometry", Moscow, 1986

Participants to the Workshop on "Uncertainty in Temperature Measurement", Paris, 1993

TEMPMEKO 1984

The famous Suhl temperature scale...

A careful examination...

TEMPMEKO 1993

Evaluating submissions...

TC12 meeting

Front row: Michalski (PL)- ??? - Jencik (CS) - Kovacs (H) - Ancsin (CDN)

Back row: Zvizdic (HR) - Righini (I) - Bloembergen (NL) - Besley (AUS) - ??? - Lach (UA) - Ptacek (CS)

TEMPMEKO 2001

Berlin, a great conference location...

Every occasion is good...for high level contacts

German hospitality...

TEMPMEKO 2004

TEMPMEKO 2004

vth international symposium on temperature and thermal measurements in industry and science

Discussing the future...

Dubrovnik at sunset

Cavtat panorama from conference hotel

A temperature seminar...

A humidity seminar...

Local residents... attending TEMPMEKO

Complimenting some invited speakers...

An alternate road ...to the Chair

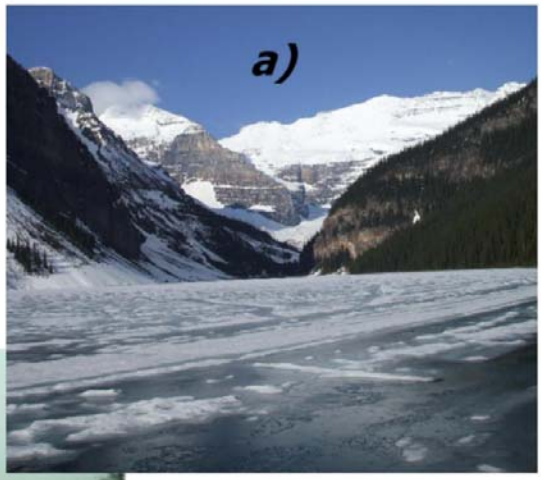
Directly from producer to consumers... km 0 Croatian food

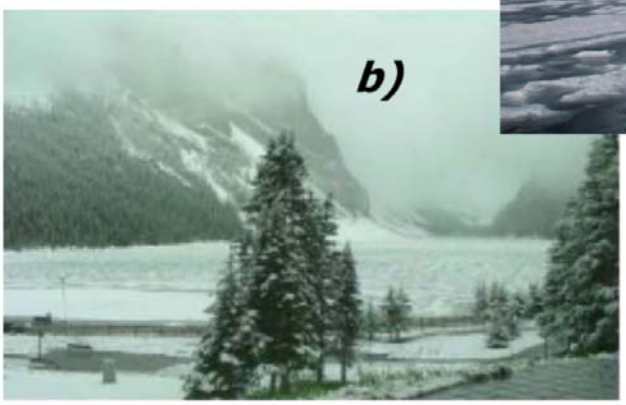
TEMPMEKO 2007-1

TEMPMEKO 2007
10th International Symposium on Temperature and Thermal Measurements in Industry and Science
21-25 May 2007

The responsible ones...

Symposium location

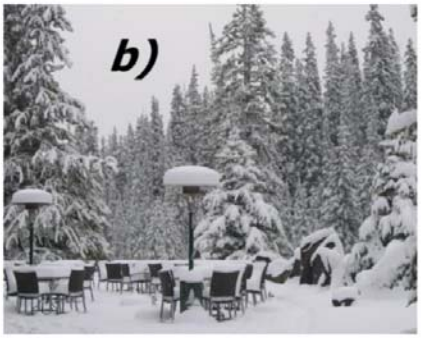




The world largest ice point:
a) on arrival b) Mother Nature
at work to make it better...

Canadian fast food...

TEMPMEKO 2007-2



a) the road to the TC12 meeting...
b) coffee anyone...?

Oh, the wild West...

Local residents...interested in TEMPMEKO?

How did
it do it??

Twisted...

TEMPMEKO-ISHM 2010-1

Fake proteus anguinus

Happy registration...

Hotelroom with a view...

TEMPMEKO-ISHM is... hard work!!!

TEMPMEKO-ISHM 2010-2

A cultural visit... travelling back in time

Back to basics...

TEMPMEKO 2013 - 1

Real and wooden strelitzias

Symposium opening

The Portuguese organizing team

Plenary speakers

Conference dinner

TEMPMEKO 2013 - 2

Smiling on the way up to Monte...praying on the way down... and celebrating a safe return afterward...

Colors of Madeira markets...