



Newsletter - March 2004

ECTP NEWS

*To the members of the IOC
of the ECTP*

Dear Colleagues,

welcome to the second issue of the ECTP Newsletter. As indicated in our last meeting, this tool should help in improving communication among us in the period between conferences. The Newsletter is planned about once per year with additional issues if necessary.

This issue starts with an article about the work in progress toward ECTP 2005. The organizers present their plans for the event, giving information about the structure, the dates, the topics, publications and various other organizational details.

Two proposals have been received regarding a possible ECTP logo. Details are provided in one article inside the Newsletter. One of the proposals was easily implemented and appropriately modified using a commercial software program that I have available, and therefore I have adopted it for the present issue of our Newsletter.

Prof. Maglic has written a letter that addresses several points of the letter from Prof. Fortov printed in the previous issue with various other proposals open to discussion.

The section on IOC News starts with updated information about the planned Russian event in 2005 and with details about further contacts with Russian colleagues that took place after the circulation of related material and the debate among us via email that took place in late 2003. The section also contains information regarding those former IOC members that have expressed a desire to maintain contacts with the IOC. This Newsletter is also emailed to them

This Newsletter is distributed as a pdf file to improve portability. It is read using the Acrobat Reader software program freely available from www.adobe.com.

Comments, suggestions and contributions to improve this Newsletter are welcome.

Francesco Righini

Toward ECTP 2005

The preparation for the ECTP conference that will be held in Bratislava, Slovakia in the period 5–8 September, 2005 is continuing. Three groups participate on the organization of the event, namely the University of Pau (France), Constantine the Philosopher University in Nitra (Slovakia) and the Institute of Physics, Slovak Academy of Sciences in Bratislava. The most important points regarding the conference were preliminarily agreed as follows:

Conference structure:

- 3 plenary talks (45 minutes including discussion)
- 1 award talk of young scientist (30 minutes including discussion)
- oral contributions (20 minutes including discussion)
- 2 – 3 poster sessions (1 hour each)
- exhibition for the presentation of instruments, materials and services
- 3 workshops (one topic on solids, one on fluids, and one on thermophysics in Europe)

A discussion forum for each Workshop through the web will be opened, where the Workshop Leaders can start discussion on the topics in advance. The application(s) for the Netzsch Thermophysical Properties Award for a Young Scientist will be sent to the IOC where the selection will be made.

Conference schedule:

- Registration on September 4 at 2–5 pm with a Get Together Party at 5–7 pm.
- Main program including a Reception and a Conference Dinner on 5–8 September.

Twenty minute oral contributions were chosen to have a broader possibility of discussion. Thus the conference takes four days. Nominations for the European Thermophysical Properties Conference Award for lifetime achievements in thermophysics should be sent to the IOC where the final choice will be made.

Conference topics:

- Thermophysical properties of solids with special focus on emissivity and thermal radiation properties, heat transport on nano-scale and in ultra short times, nano-

materials, multi-functional materials, composites, ceramics, porous materials, thermal insulation, soft materials.

- Thermophysical properties of fluids with special focus on near critical and super critical fluids, interfacial properties, phase equilibria, petroleum fluids, environmentally friendly fluids, polymers, biomaterials, ionic fluids.
- Theory and modeling with special focus on heat transport in heterogeneous materials (composites, porous structures, layered structures), combined mechanism of heat transport (radiation-conduction-convection), heat transport in medium under transformation, inverse problems, theory of fluids, equation of state, molecular dynamics, transport properties in fluids.
- Multi-property measuring techniques and devices/instruments with special focus on thermal conductivity/diffusivity sensors, dynamic and transient measuring techniques, methodology of data acquisition, dilatometry, advances in calorimetry techniques.
- Thermophysics for engineering applications with special focus on sintering processes, polymerization, casting, plasma spraying, refrigerant techniques, thermoelectric cooling, insulation structures in civil engineering.

Publications:

- a two-page abstract will be required. Acceptance of contributions will be based on a referee procedure.
- a book of abstract will be prepared.
- a CD-Rom including all received manuscripts (not refereed) will be prepared.
- agreements with the Editors of High Temperatures – High Pressures, International Journals of Thermophysics and Journal Fluid of Phase Equilibria have been reached for publication of the presented papers. The refereeing will be performed according to the rules of the corresponding journal.
- consultations with the journal Editors are under way to verify the possibility of preparing a CD Proceedings of the published papers, to be sent to attendees

after the manuscripts have been published in the indicated journals.

Conference announcements:

- April 2004 - web page publication in which conference venue, schedule, topics and location will be indicated together with an application form.
- First announcement will be mailed in September 2004 where information given on the web page will be printed.
- A list of potential participants is under preparation.

Additional suggestions are welcome. The preliminary web page of the conference is available at:

<http://ectp.sav.sk>

We look forward to meet again all of you in Bratislava in September 2005.

L. Kubičár, J. L. Daridon, L. Vozár

Logo proposals

In May 2003 Prof. De Castro proposed to use for the ECTP logo an adaptation of what was used for the ECTP Conference organized in Lisbon in 1993. His letter with explanations follows:

Dear Francesco,
as I promised some time ago, I enclose the logo of the 13 ECTP, held in 1993 in Lisbon. The logo has the number, which should be redesigned for each conference, keeping in mind that it reflects the different states of matter, from left to right, in the number 3 (solid – full black, liquid - waves and gas - dots) and the two principal phase transitions, melting and vaporization. If we choose a permanent logo, without the number append to it, it possibly could be applied to ECTP, with the corresponding design for the states of matter adapted to the P.

These are some suggestions. I did not even speak with the designer, which I have to find, after 10 years passed. However, since we paid for this design, it is our property and we can adapt it, if we wish.

Best regards

Carlos



The main difficulty regarding this proposal is that no information is known on the software used to prepare the logo and no original file is available, therefore modifications are impossible at this stage.

A second logo proposal was received in October 2003 from the organizers of ECTP 2005. The logo was prepared by a professional designer, a painter who teaches an industrial design course at Constantine the Philosopher University in Nitra, Slovakia. He explains his proposal as follows:

- the colors symbolize thermal conditions (cold-blue, hot-red),
- the letter C symbolizes fire, turbulence, it is up because of this condition,
- it follows contemporary modern trends in design,
- it is simple concerning the shape, but with enough contrast to draw attention

Several different versions of this logo have been made available, all using Corel Draw files that are easily manipulated to change writings and other details. The various versions will be used for ECTP 2005 (call for papers, sessions, web site,...). I have easily



changed some of the original writing to prepare the specific Newsletter logo that is reproduced in the first page.

A letter from Prof. Maglic

The following letter was received from Prof. Kosta Maglic in October 2003. It covers some of the topics raised by Prof. V. Fortov in the letter published in the previous Newsletter issue and other items of general interest. It is reproduced here with the approval of the sender...

Dear Francesco,

The ECTP Newsletter is an excellent contribution in establishing firmer bond among IOC members between conferences which was needed long time ago. Particularly now, with so many new members. I sincerely congratulate you on your effort. Irrespective how many responses you have received you may be sure that most of IOC members feel the same way.

I have read Fortov's attention deserving remarks, and was thinking about them for some time. In fact my delay in responding the appearance of the Newsletter was predominantly due to weighing how to expand on the last of them.

About the first comment. Abstracts on the web site before the conference would be certainly welcome. Regarding electronic presentation techniques I am not sufficiently familiar with them, however I should be inclined to favor something like this for smaller task or discussion groups, should they be established. Like the regular discussions on the progress of the Compendium I that I had in the eighties

with Ared Cezairliyan, Merrill Minges, and later on with V. E. Peletsky.

You might inquire with Fortov about the second one, i.e. what did he really mean. Is the proposal that all complete papers should be on the web site, or alternatively, after acquaintance with their contents from abstracts they be available to interested participants from their authors in electronic form?

The third is the most intriguing remark. The Award for life achievement by itself means that the awardee has devoted most of his professional life to thermophysics science and that he has attained marked results in it. If this person has contributed to the general purpose in the area of thermophysics in an active way, this normally represents further plus for recommendation. As Fortov has observed, this implicitly gives distinct advantage to the members of the IOC, since most of them have satisfied both criteria in their lifetime. This now opens question of the number of awards.

Firstly, as we now consist of two groups of scientists working in distinctly different areas of thermophysics, the solids and fluids, it seems reasonable that two awards for two directions in thermophysics, fluids and solids should be donated in parallel.

It might be also worthwhile to consider establishing an additional award for mature scientists similar to the one for the young ones, which should refer to an achievement on a certain rounded topic. Like an approved theory, a new method approved in practice and generally accepted, or similar. When you consider that in the period of eighteen years the European Conferences have distinguished only seven scientists in the whole area of thermophysics (without two recipients of the Netsch young scientist award which is of different nature), Fortov's comment deserves further attention.

Related to the award(s), the procedures for proposing candidates for all awards should be more precisely defined and re-established. What proposals have to involve and contain at how much detail; the dates when particular contests start and end, the commission which proposes to the IOC members ranking among

applied candidates, the terms of its functioning, and timetable of particular steps etc. If a conference is an ECTP, then the time (at its opening or closing), the procedure of presenting award(s) as well as their justification should be always effected in the same way, irrespective of local customs and habits in the country of the organizer.

With best regards,

Kosta

IOC News

Russian event in 2005. After the circulation in early October 2003 to all IOC members of the material related to the event planned by the Russian National Committee on Thermophysical Properties (NCTP), a lively email debate followed, with various comments and considerations by different IOC members. In January 2004, while the small ad-hoc group (Kubicar, Wakeham and Righini) was collecting and evaluating the circulated material, information was received by the Secretary of the NCTP that they were considering to move their planned event to early October 2005. In relation to this new information, the small ad-hoc group debated the matter and sent to the Russian colleagues the following letter:

January 30, 2004

*Prof. A. I. Savvatimski
Scientific Secretary of the Russian National
Committee for Thermophysical Properties
Moscow, Russia*

Dear Prof. Savvatimski,

Thank you for your recent email message indicating a possible new date for the Russian National Conference on Thermophysical Properties in early October 2005. This letter intends to update you on the situation and on the views that have emerged from the debate that has taken place within the IOC of the ECTP in recent weeks. In preparing this letter I have consulted both the current ECTP Chairman and the previous ECTP Chairman.

The debate among IOC members indicated that several national events are already organized in various countries of Europe. In general these events cater mostly to local needs and are specifically tailored to the local thermophysics community. The IOC welcomes these local initiatives that spread knowledge and interest locally and are a real complement to the ECTP. The Russian thermophysics community has a long and proud history and our Russian colleagues are to be commended for having been able to re-organize their national event after a difficult period.

As indicated in my previous email message to Prof. Fortov, our main concern was that two conferences covering the same broad topics at the same time in Europe might come in conflict in the future and also present a wrong picture of European efforts to the international thermophysics community. The NCTP letter of September 28, 2003 has clearly set out your position and given us a better understanding of the related problems that you face. We would like to thank the Russian Colleagues for having reconsidered their earlier decision and think that the October date that you now propose minimizes possible conflicts in 2005.

We also understand the desire of the Russian thermophysics community to maintain contacts with related nearby scientific communities as well as with several important scientists of Russian nationality presently working abroad. For future editions (after 2005) of the Russian national event, enlarged as indicated earlier, we have the following suggestion for your consideration. It seems that the NCTP favors a triennial event; thus its future editions might be planned either in the years of the ASME Symposium in the USA (2006, 2009,...) or in the years of the Asian Thermophysical Properties Conference (2007, 2010,...). The reason for this suggestion is quite simple. If we suppose that the financial difficulties for many of us will unfortunately not be overcome soon, the cost of travel either to the USA or to a Far East destination will remain high. However the situation is different in Europe where distances are smaller and air travel not always necessary, and it is this quite likely that your Russian conference could attract a wider

international audience in these years. Of course, it is also our hope that the financial situation will evolve and make it possible for more Russian scientists to participate directly into ECTPs. We have taken notice of the difficulties you indicate and some efforts will be made to keep participation costs as low as possible within the local organizing possibilities.

During the IOC debate, several members expressed their desire to hold one of the next ECTPs in Russia. The locations for ECTPs in 2005 (Bratislava, Slovakia) and 2008 (Pau, France) have already been debated and defined. It is our sincere hope that the Russian community might consider the possibility of hosting a future ECTP, returning to your country after the 1976 edition.

With our best wishes to all the Russian Colleagues for their work

*Francesco Righini
Secretary of the IOC of the ECTP*

Newsletter distribution. Information about the Newsletter and on the availability of IOC minutes in electronic form was sent to all former IOC members whose address information was available. Several former IOC members have expressed an interest to remain in contact and to receive further issues of this Newsletter. The address details of those who responded positively are indicated in a special section of the updated IOC address list (see the last page of the attached file). The word file that is sent along with this issue includes updated address information about present and former IOC members, including updated telephones, fax and email. Please discard previous lists and communicate to me any incorrect information to maintain the list updated.

Comments. As indicated in the Editorial, comments and suggestions to all the items of the Newsletter are welcome. Please send all material via email to f.righini@imgc.cnr.it