



*Newsletter - March 2005*

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ECTP NEWS

*To the members of the IOC  
of the ECTP*

Dear Colleagues,

Springtime as usual brings to you the yearly issue of the ECTP Newsletter, with details and information on what has happened recently. As agreed in our last meeting, this tool should help in improving communication among us in the period between conferences. Since this is the third issue, it might be appropriate in our future meeting later in the year to evaluate the interest and usefulness of this way of communication.

The main topics of this issue deal with the work in progress toward ECTP 2005. In the first article following this note, the organizers present the status of preparations of the event, giving specific information about the structure, the topics, publications and other organizational details. The event has been well received by the thermophysics community: more than 300 high quality abstracts were received from all over the world and covering many interesting topics. The refereeing of abstracts is under way and thanks are due to the various people that are helping in this area, keeping a tight schedule.

The thermophysics community seems to have appreciated the efforts that have been made in publicizing and opening up the Awards to scientific competition. Specific information on the matter is reported in the second article.

The section on IOC News provides information on a prestigious award assigned to a former IOC member.

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](http://www.adobe.com).

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

*Francesco Righini*

## ***Toward ECTP 2005***

The preparation for the ECTP 2005 that will be held in Bratislava, Slovakia in the period 5–8 September, 2005 is proceeding at full rate. As previously indicated, 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 (Slovakia).

The profile of the conference has been outlined and the role of the members of the organizing committee has been agreed. The activities performed by individual members are synchronized to reach the main goal of the conference – creation of a fruitful platform for knowledge exchange through cross-disciplines and within a discipline. A significant point of the conference is the introduction of young scientists to the arena of ideas confrontation.

### ***Conference structure:***

The conference program will consist of oral and poster presentations, key and Award lectures, Workshops and Exhibition.

The following key lectures are planned:

- *P. Ungerer*: **Molecular simulation of the thermophysical properties of fluids: from understanding toward quantitative prediction**
- *J. Fricke, H Schwab and U. Heinemann*: **Vacuum insulation panel - exciting thermal properties and convincing applications**
- *Y. Nagasaka*: **Applications of micro and nanoscale thermophysical properties sensing for novel fluids and solids**

The ECTP 2005 will also include the following three workshops:

- **Properties of novel fluids: bio-, nano- and beyond**, *Workshop Leaders M. Assael (Greece) and B. Wakeham (U.K.)*
- **Photothermal and related measurement techniques**, *Workshop Leader C. Glorieux (Belgium)*
- **The industrial requirements for thermophysical properties - are we responding to industry needs?**, *Workshop Leader P. Quisted (U.K.)*

### ***Current activities:***

The web-page [www.ectp.sav.sk](http://www.ectp.sav.sk) has been available since December 2004. Please consult it regularly for details on the conference. Online abstract submission and online registration were also arranged using the ECTP web – page. A list of potentially interested persons was compiled and the first announcement was e-mailed before the end of December 2004. The deadline for abstract submission, originally set to the end of January 2005, was extended to the end of February 2005. The ECTP database now contains more than 300 valuable abstracts from all around the world.

### ***Conference topics:***

The abstracts have been divided into tentative topics and subtopics that will form a base for the conference scientific sessions, as shown in the following table.

<b><i>Topic</i></b>	<b><i>Subtopic (number of received abstracts)</i></b>
1. Solids	1.1 Emissivity and radiation properties (17)
	1.2 High temperature materials (6)
	1.3 Insulations (13)
	1.4 Engineering materials (15)
	1.5 Metals (13)
	1.6 Nanomaterials (5)
	1.7 Advanced materials (34)
2. Fluids	2.1 Petroleum fluids (16)
	2.2 Refrigerants (11)
	2.3 Modeling (6)
	2.4 Phase equilibria / calorimetry (17)
	2.5 Transport properties (32)
	2.6 Volumetric properties / Speed of sound (25)
	2.7 Interfacial properties (7)
	2.8 General (13)
3. Theory and modeling	3.1 Modeling (8)

4. Experimental techniques	4.1 New techniques (14)
	4.2 Fast measurement techniques (11)
	4.3 Photothermal techniques (12)
	4.4 Transient techniques (13)
	4.5 Advances in measurement techniques (15)
5. Engineering applications	5.1 Processes (7)

The refereeing of abstracts is underway to keep the next deadline: March 31 – Notification of Acceptance. A vital support was received from some IOC members that have helped with the subtopics structure and with the abstract referee procedure.

***Publications:***

Consultancy with the editors of the Fluid Phase Equilibria, International Journal of Thermophysics and High Temperatures – High Pressures are underway. The procedure of publication of ECTP contributions in the journal Fluid Phase Equilibria has been finalized and the French group will organize the related referee procedure.

***Conference location:***

The conference location has been defined. It will take place in the Faculty of Electrical Engineering and Information Technology, Slovak Technical University in a suburb of Bratislava. All activities, i.e. presentations, lectures, exhibition and lunches will take place in the same building. Public transport connects the ECTP venue with downtown Bratislava where most of the hotels are located. There will be a 10 minutes walking distance from the nearest stops of busses and trams. The social events are presently being organized.

Please keep in touch with the event by checking often the conference web- page for

updates on the organization, programme and related activities. We are looking forward to meet all of you in Bratislava next September.

*L. Kubičár, J. L. Daridon, L. Vozár*

***Information on the Awards***

The thermophysics community gave a positive response to the efforts that were made to publicize both the ECTP Lifetime Award and the Netzsch Award for a young scientist.

By the deadline four applications were received for the ECTP Lifetime Award, originating from Russia (2 applications), from Germany and from the United Kingdom (1 application from each country).

Similarly four applications were received for the Netzsch Award for a young scientist, in this case with two applications from Germany and one application each from the United Kingdom and from Portugal.

The respective Award Committees are presently examining the received application material and performing the related work.

***IOC News***

***Prize to former IOC member.*** Professor Alexander Sheindlin, a former IOC member and the organizer of the ECTP 1986, received recently the 2004 Global Energy Prize. He was awarded with two other scientists for “*fundamental research into the thermophysical properties of substances at very high temperatures for applications in power engineering*”. Full details are available in High Temperatures High Pressures, vol. 35/36, pages 377-8 (2003/4).

In learning about the prize, I sent the following congratulatory note to Prof. Sheindlin on behalf of the IOC:

*Dear Prof. Alexander I. Sheindlin,  
the recently arrived issue of High  
Temperatures High Pressures informs the  
thermophysics community of your recent  
Global Energy Prize. I would like to extend  
many congratulations to you personally and  
also on behalf of the International Organizing  
Committee of the European Conferences on  
Thermophysical Properties.*

*We are very happy of the deserved recognition*

*of your work. I plan to include a small note on  
the matter in the future issue of the ECTP-IOC  
Newsletter.*

*Many congratulations again from all your  
colleagues of the thermophysics community*

**Comments.** Comments and suggestions to all  
the items of the Newsletter are welcome.  
Please send all the material via email to  
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