

**Minutes of the Meeting of the Board of Directors
of the
International Association of Chemical Thermodynamics (IACT)**

Chautauqua Meadow Conference Centre, Boulder Outlook Hotel, Boulder, Colorado, USA

on 30 July 2006 from 17.00-19.00 h

Present at the meeting:

Chairman	Prof. J.-P. E. Grolier
Past Chair	Prof. R.D. Weir
Secretary	Dr. J.H. Dymond
Treasurer	Dr. A.R.H. Goodwin
Members	Prof. T. Atake Prof. U.K. Deiters Prof. T.W. De Loos Prof. K.N. Marsh Prof. M.A.V. Ribeiro da Silva Prof. E. Vogel
Counsellors	Dr. M. Frenkel Prof. N. Smirnova Prof. W.A. Wakeham
By invitation:	Prof. C. Peters (Delft, The Netherlands)

1. *Preliminary Matters and Announcements.*

The Chairman welcomed those present.

2. *Apologies.*

Apologies were received from Prof. T.M. Letcher, Prof. M.A. White and Prof. H. Yan.

3. *Minutes of the Sesimbra Meeting, 2005.*

The Minutes of the Meetings held in Sesimbra, Portugal on 8 April 2005 were approved, and signed.

4. *Matters arising from the Beijing Minutes.*

Matters arising were dealt with under the following Agenda items.

5. *Secretary's Business.*

5.1 *IACT Publicity: IACT Stand at ICCT-2006*

A recently commissioned IACT banner would be on display on 31 July at the IACT stand in the registration room in the University Memorial Centre on the campus of the University of Boulder for the International Conference on Chemical Thermodynamics. Pens engraved with the IACT logo and A5-size flyers with information on IACT were available for distribution, to increase awareness of the aims and achievements of IACT. This was an ideal opportunity as the ICCT was being held jointly with the 61st Calorimetry Conference and the 19th Symposium on Thermophysical Properties as part of ThermoInternational 2006.

5.2 *Arrangements for IACT Board Meetings*

It was agreed that the present arrangements, whereby the Board of Directors were responsible for the venue and buffet meal for the Board Meetings, should continue.

5.3 *IACT Awards 2006*

Award winners and arrangements for presentation of the certificates were as follows:

The winner of the 2006 Rossini Lectureship Award is Prof. Alexandra Navrotsky of the University of California at Davis. Her Award certificate will be presented by Professor Grolier, immediately before her lecture "Calorimetry of Nanoparticles, Surfaces, Interfaces, Thin Films, and Multilayers".

2006 recipients of the IACT Doctorate Awards, with the titles of their lectures, are:

Ms Jing Xu, Norwegian Univ. of Science and Technology, Trondheim, Norway. Molecular Dynamics Simulations of a Chemical Reaction; Conditions for Local Equilibrium in a Temperature Gradient.

Dr. Michal Fulem, Institute of Chemical Technology, Prague, Czech Republic. Vapor Pressures, Enthalpies of Vaporization and Heat Capacities of C1 to C5 Alkanols at Ambient and Subambient Temperatures

Ms Elena A. Asabina, Nizhny Novgorod State University, Russian Federation. Synthesis, Characterization and Thermodynamic Properties of the Phosphates $\text{NaM}_2(\text{PO}_4)_3$ and $\text{Na}_5\text{M}(\text{PO}_4)_3$ (M = Ti, Zr, Hf)

Dr. Yauheni U. Paulechka, Belarusian State University, Minsk, Belarus. Thermodynamic Properties and Polymorphism of Bis(Trifluoromethanesulfonyl) Imide Ionic Liquids

Certificates will be presented by Professor Grolier during the final ceremony, except in the case of Dr. Yauheni Paulechka, where the presentation will be made after his presentation scheduled for 10:40 am on Tuesday (Ionic Liquids).

It was noted that there had been only 4 nominations for the Doctorate Awards. Although these were all of a high standard, the number had been disappointing and it was agreed that they should be advertised more widely well in advance of the next ICCT, with details sent direct to research group supervisors.

Prof. Jean-Pierre Grolier raised the question of the name of these awards for young thermodynamicists. Board members had preferred the name "Junior Awards", but the sponsor Elsevier required the name "Doctorate". It was noted that Michiel Thijssen was no longer the Elsevier contact person, and it was queried whether their sponsorship would continue. Tony Goodwin agreed to raise this point with Elsevier.

IUPAC Poster Awards:

IUPAC has offered 3 Poster Awards to this Conference. The winners will receive a framed certificate and a personal copy of the IUPAC Gold Book during the Closing Ceremony. The judges are Drs. Joe Magee and Jason Widgren from NIST and Prof. Manuel Ribeiro da Silva and Prof. Tooru Atake from IACT. For a fair distribution, there will be one award to the 19th ICCT, one to the 16th Symposium, and one to the Joint Symposia.

5.4 *Sponsorship of RCCT-2007*

The organisers of the 16th Russian Conference on Chemical Thermodynamics, to be held in Suzdal, Russia from 1 to 6 July 2007, had submitted a request that IACT should sponsor this meeting. After discussion, it was agreed that the Secretary should draw up a list of conditions to be met in order for any Conference to receive IACT sponsorship. This might include a slot at the Opening Ceremony to describe the work of IACT, and representation on the Advisory Board, with the possibility of awarding IACT poster prizes. With this list, we could approach the organisers of all conferences in the general area of thermodynamics and offer sponsorship from IACT.

5.5 *Arrangements for the election of Chair-Elect*

It was agreed that written nominations of those willing to stand, signed by the proposer and seconder, should be given to the Secretary before the meeting of the new Board of Directors on Friday.

5.6 *Arrangements for Appointment of Counsellors*

It was noted that the following have reached the end of their 4-year term: Prof. Mary Anne White (Halifax, Canada), Prof. Natalia Smirnova (St. Petersburg, Russia), and Prof. Hai-Ke Yan (Beijing, China).

The new board should consider whether to appoint them for a further 4-year term, or make new appointments, at a meeting after the election of new Directors, so that counsellors can be informed in time for the meeting of the new Board on 4 August.

6. *Treasurer's Report*

The Treasurer presented his accounts covering the period from 6 January 2003, when the account with the Abbey Bank was opened, to 28 April 2006. Income and expenditure were given in the actual currencies of USD, GBP and Chinese RMB. Income from previous ICCTs, Elsevier sponsorship, IACT subscriptions and bank interest came to £ 8285.11 plus \$ 3311.18 and RMB 245. Expenditure on special Board meetings, on the IACT webpage, on award winners, on membership cards and IUPAC subscriptions amounted to £ 5141.42 plus \$ 2143.88 and RMB 210. As at 28 April 2006, the balance in the Abbey bank was £ 3149.69, with \$ 1218.37 held as cash (because of difficulties in opening up a USD bank account). RMB 35, in non-convertible currency was written off.

The Secretary read out a written report from Prof. Cor Peters (Delft, The Netherlands), Chair of the Audit Committee, which had been set up to review the accounts. Other members of the committee were Dr. Joe Magee (NIST, Boulder, USA) and Prof. Kazuya Saito (Tsukuba, Japan). This report read, in part "On behalf of the Audit Committee, I am pleased to report that we have found that the IACT Treasurer has provided a

complete and accurate record of the financial transactions of the IACT. We find that IACT's financial records are thorough and well documented. Thus we have no problems or concerns to report to the IACT Secretary." He concluded by congratulating the Treasurer for an exemplary job as IACT Treasurer.

The Treasurer noted that there had been the following expenditure in connection with the IACT stand and the Board meetings: IACT banner \$ 77.94; IACT pens \$ 146.01 and flyers \$268.58, with shipping costs to Boulder \$ 26.07. The cost of the meeting rooms was \$ 324.94. This expenditure had been approved by the Chairman.

Dr. Frenkel announced that he would be having a meeting after the end of ThermoInternational to discuss payment to IACT.

The Treasurer had looked into the question of opening a USD account with not-for-profit status, which was fee free and not subject to income tax. The fee for application for such an account was \$ 250 and, if successful, our accounts would then have to be submitted to the IRS. Professor Marsh moved that we continue our banking arrangements as at present. This was seconded by the Secretary and unanimously approved.

The possibility of having an Abbey bank credit card machine was raised. The Secretary undertook to investigate this.

7. *Membership 2006-2008*

The Secretary noted that Dr. Frenkel had drawn up a list of 393 names of people who would either give oral or poster presentations at ICCT-2006, or at joint meetings, or who would act as session chairs. They all qualified for membership of IACT for the period 2006-2008.

8. *IACT Website*

This was up-dated earlier this month. Minutes of the various meetings will be added after the Conference. Projects which have been completed are listed separately, and the publication list has been brought up to date.

9. *ICCT 2006*

Dr. Frenkel reported that ThermoInternational, with the three Conferences – 19th International Conference on Chemical Thermodynamics, 16th Symposium on Thermophysical Properties and 61st Calorimetry Conference – to be held 31 July to 4 August had attracted some 750 participants, with a total of 1100 presentations. As well as excellent plenary speakers, there were invited lecturers, and software demonstrations. There would be two afternoons set aside for poster presentations. Tuesday afternoon would see the Major Awards ceremony, followed by a Reception and on Thursday the Conference Banquet would be held at the National Centre for Atmospheric Research. Presentation of the IACT Doctorate Awards and IUPAC Poster Awards would take place during the Closing Ceremony.

Dr. Frenkel and the other Conference Organisers were thanked for all their hard work in the organisation of these meetings.

10. *IACT Business Meeting*

The Secretary reported that he had prepared a power-point presentation in preparation for this meeting, which would be held in room Math-100 of the Mathematics building on campus. Voting slips had been produced for the election of four Directors to the Board. Prof. K. N. Marsh and Dr. A.R.H. Goodwin agreed to act as tellers for the election.

11. *Any Other Business*

It was noted that the following two volumes published by Elsevier were out of print: Experimental Thermodynamics V. Equations of State for Fluids and Fluid Mixtures, Eds. J.V. Sengers, R.F. Kayser, C.J. Peters and H.J. White, Jr., (2000), and Experimental Thermodynamics VI. Measurement of the Thermodynamic Properties of Single Phases, A.R.H. Goodwin, K.N. Marsh and W.A. Wakeham, Elsevier (2003). The publisher was apparently declining to print further copies. The Secretary agreed to approach the IUPAC Secretariat over this issue.

It was agreed to postpone discussion of the under-mentioned items until the meeting of the new Board of Directors of IACT to be held on Friday 4 August in the Chautauqua Meadow Conference Centre, Boulder Outlook Hotel, Boulder:

- ICCT-2008 and ICCT-2010
- IACT Publications and Current Projects
- Proposals for New Projects

The meeting closed at 19.00

C:\iact\meetings\boulder 06 a.doc