

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

Department of Mathematics Building, Room Math 100, University of Colorado, Boulder CO, U.S.A.
1 August 2006

19.00-20.00

Ballot papers were given out on entry.

1. *Preliminary Matters*

The Chairman welcomed those present and referred to the first slide of the Power-point presentation, with the IACT logo and its aim of “promoting the advancement of chemical thermodynamics world-wide through measurement, evaluation and theory”.

He said that IACT had been set up in 2002 to extend the role of the former IUPAC Commission on Thermodynamics. In 2003, the IUPAC Council had granted Associated Organisation status to IACT.

The main objectives of IACT are to arrange the biennial IUPAC Conferences on Chemical Thermodynamics, to select the Rossini Lecturer, to encourage young thermodynamicists by making Doctorate Awards, and to encourage collaboration between thermodynamicists through various projects.

The Agenda for the meeting was shown on slide 2.

2. *Apologies.*

Apologies had been received from Profs. Manuel Ribeiro da Silva, Ron Weir, Bill Wakeham and Mary Anne White.

3. *Election of Directors*

The Secretary showed a slide with the names of the current elected members of the Board of Directors, and explained that there were a further 5 members of the Board who are Counsellors. These are appointed by the elected Directors so as to ensure that, as far as possible, there was representation from all the main geographical areas of the world and with expertise in all the different areas of thermodynamics.

Elected Directors serve 4-year terms, and 4 of them stand down at this time: Professor Theo de Loos, Professor Trevor Letcher, Professor Ken Marsh and Professor Eckhard Vogel. They offered themselves for re-election, with the exception of Ken Marsh. Dr. Dymond asked everyone to join him in expressing sincere thanks to Ken for all his work, advice and support during these early years of IACT.

As per the Constitution, a Nominating Committee had been set up. It produced a list of 7 nominees who were listed on the next slide. No additional names were submitted. Members were asked to complete the ballot papers, by voting to fill the 4 vacancies. Those elected will serve from 2006-2010.

4. *Minutes of the Business Meeting held in Beijing, 2004*

Copies of the Minutes of the Beijing meeting had been sent out to Members with the notification of this meeting. The Minutes were approved and signed.

5. *Matters Arising*

The Chairman said that any matters arising would be discussed under the following agenda items.

6. *Report on ICCTs (slide).*

Professor Grolier expressed thanks to the Organisers of the present Conference, and reported that the total number of participants was about 750.

He announced that the 20th ICCT would be held in Warsaw, Poland from 3 to 8 August 2008, organised by Professors Randzio and Gregorowicz. The following Conference, in 2010, will be held in the Tokyo area, organised by Professor Atake. The dates will be 1 to 6 August.

He invited proposals to host the Conference in 2012. As was shown by the slide, the aim was to hold Conferences in different parts of the world, to encourage the development of thermodynamics in different regions. We would particularly welcome proposals from North or South America or Canada, or any country which has not previously hosted an ICCT. Further information could be obtained from himself or the Secretary.

7. *The Rossini Lectureship Award (slide)*

Professor Grolier explained that the Rossini Lectureship Award was made by the IACT in recognition of a significant contribution to the field of thermodynamics. It was presented every two years at the Biennial ICCT, when the recipient delivered the Rossini Lecture. Nominations were accepted from any member of the IACT during the three-month period following a Biennial Conference for the award to be made at the following Biennial Conference. The Award recipients are selected by the vote of the Board of Directors, as set out in the Bylaws of the Constitution, ARTICLE XI, Sections 3 and 4.

He invited nominations for the 2008 Award, pointing out that the deadline for nominations would be 30 November 2006. The timetable for the ballot was as follows: 15th Dec 2006, circulation of ballot papers with résumés or c.v.'s to Board members, and 10 Jan 2007, deadline for receipt of ballot papers.

Details will be posted on the Association website, www.iactweb.org and emailed to Members, after this Conference.

8. *Report on IACT Doctorate Awards (slide)*

Professor Grolier pointed out that the Doctorate Awards were based on research work in thermodynamics. Applicants, who must be under 30 years of age at the time of the Conference, should submit an abstract of their paper at the latest three months before the ICCT. Further details will be given on the IACT web site for the 2008 Awards. The selection of prize winners will be made by a small committee under the past-Chair, set up by him, and with the approval of the Board of Directors.

On the first occasion on which these Awards were offered, in 2004, there were 5 applications. This year there were only 4 applications, all high quality. He expressed the hope that there would be many more, high quality applications next time.

9. *Report on IACT Projects (slides)*

The Secretary first of all drew attention to the publications resulting from projects since ICCT-2004. These were listed on two slides, and illustrated the variety of the projects being undertaken.

- A volume edited by Trevor Letcher on *Chemical Thermodynamics for Industry*
- A volume in the Experimental Thermodynamics series on *Measurements of properties in multiple phases*
- A volume in the series on *Electrolyte solution data* by Josef Barthel
- *Standards, Calibration and Guidelines in Microcalorimetry* by Pino Della Gatta
- A paper in the series on *Vapour-liquid critical properties* – this one is on organic compounds containing nitrogen
- An important publication setting out the *IUPAC standard for thermodynamic property data storage and capture*. As a result of this, all data submitted for publication to the major thermodynamic journals is now checked for any inconsistencies and errors prior to publication.
- *A Recommendation on viscosity values for molten iron and aluminium*

This, he said, left a very healthy list of current projects (*slide*). The names given here are of the task group leaders, from whom further details may be obtained.

- Electrolyte Solution Data (J. Barthel)
- Thermochemistry of Chemical Reactions (M.A.V. Ribeiro da Silva)
- Vapour-Liquid Critical Properties of Elements and Compounds (K.N. Marsh)
- Ionic Liquids (K.N. Marsh)
- Ionic Liquids Database (K. Seddon)
- Heat capacity of liquids. This is a supplement to the earlier publications, and will cover the period from 2000 to 2004
- Thermodynamic properties of hydration for selected organic solutes
- Two volumes related to solubility

10. *Proposals for New Projects (slide)*

The Secretary reported that they had a proposal for a project on Guidelines for temperature modulated DSC, which would be discussed at their next Board meeting.

He encouraged Members to propose new projects to any Board member at any time. Experience had shown that project proposals submitted to IUPAC for financial support benefited from having the support of IACT.

11. *Treasurer's Report (slide)*

The Treasurer presented the accounts with reference to slides, which showed the Income and Expenditure for the period from November 2002 to April 28th 2006. As at that date there was £3149.69 in the Abbey bank account and USD 1218.37 held as cash. The Secretary then read out the report from Professor C. Peters (Delft, The Netherlands), Chair of the Audit Committee, which had been set up to review the IACT accounts. The other members were Dr. J. Magee (NIST, USA) and Prof. K. Saito (Tsukuba, Japan). They found the IACT's financial records to be thorough and well documented, and had no problems or concerns to report.

The accounts were moved by Professor K.N. Marsh, seconded by Professor T. M. Letcher, and unanimously adopted.

Thanks were expressed to the Treasurer.

12. *Any Other Business*

Professor Marsh, on behalf of the tellers announced that the following Directors had been elected: Prof. Theo W. de Loos. Dr. M. Frenkel, Prof, T. M. Letcher and Prof. E. Vogel.

13. *Date of next meeting*

The next meeting will be held during ICCT-2008 in Warsaw, Poland at a time and venue to be arranged.