

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

Rostock, Germany, Wednesday 31 July 2002

2000-2300h

Present at the meeting at the Moon and Stars Restaurant:

Past Chair and Chair for this meeting	R.D. Weir
Chairman	J.P.-E. Grolier
Secretary	J.H. Dymond
Treasurer	A.R.H. Goodwin
Members	T.W. De Loos U.K. Deiters T.M. Letcher K.N. Marsh M.A.V. Ribeiro da Silva M. Sorai E. Vogel
Counsellors	M. Frenkel Natalia Smirnova Mary Anne White Haike Yan
By invitation:	J.P.M. Trusler

1. Preliminary Matters and Announcements.

The Chair welcomed those present. He reported that, following discussions with the elected members, he had approached five people earlier that day to see if they would agree to stand as Counsellors: M. Frenkel, Natalia Smirnova, W.A. Wakeham, Mary Anne White and Haike Yan.

The draft Constitution allowed for four Counsellors, but members unanimously agreed to appoint all five, on a motion proposed by K. Marsh and seconded by T. Letcher. R. Weir noted that W.A. Wakeham was unable to attend, as he had had to leave Rostock that lunch-time. M. Trusler was present in his place. R. Weir explained that this Board was taking over from IUPAC Commission I.2 on Thermodynamics. Members of this former Commission had met on Sunday 28 July at the University of Rostock to discuss on-going projects. Detailed information on these was contained in the Minutes of that Meeting (copy attached as Appendix A to these Minutes).

The results of the election and names of Counsellors would be announced by R. Weir at the Conference the following morning, and J.-P. Grolier would give a short talk.

2.1 The 18th. ICCT, Beijing, P.R. China in 2004.

The following suggestions were made for Symposium Organisers and plenary lecturers:

Symposium	Organiser	Plenary Lecturer
1. Education	T. Letcher	

2. Molecular Simulation and Theory	P. Cummings	
3. Colloidal and Interface Science	Ard Louis	Hank Lenkknirker
4. Non-equilibrium Thermodynamics	2 Chinese	(China)
5. Calorimetry	M. Ribeiro da Silva, M. Sorai	
6. Solution Thermodynamics	H. Krienke	
7. Phase Equilibrium, supercritical Mixtures & Separation Techniques	T. W. De Loos	Peng
8. Biological, Medical, Pharmaceutical, Agricultural & Food Thermodynamics	E. Marti	
9. Industrial Thermodynamics & Data Bases	C. Tsionopoulos, W.Parrish	

Workshops

1. Ionic Liquids	K.N. Marsh
2. New Experimental Techniques, including Nanotechnology	A.R.H. Goodwin

Haike Yan will discuss this list with his Committee, with the aim of establishing the list of plenary lecturers as soon as possible, and complete the application form for IUPAC sponsorship of this Conference.

It was agreed that, for each Symposium, there should be, at least, one Chinese and one non-Chinese organiser, with a named more-experienced person as Chair, who would be the contact person for the Conference Chairman. The Conference Chairman will take the final decisions, especially with regard to financial support for plenary and invited speakers.

2.2 The 19th. ICCT, Boulder, Colorado in 2006.

Approval was given of the decision taken by members of the former IUPAC Commission I.2 to accept the offer from M. Frenkel and M. Haynes to host the 19th. ICCT, jointly with the 16th. Symposium on Thermophysical Properties and the Calorimetry Conference, in Boulder, 30 July to 4 August 2006. Points which were made in discussion in their meeting (see Appendix A) were noted. Attention would have to be given to themes of joint interest. A. Goodwin, J.-P. Grolier and E. Vogel agreed to act as IACT members of the liaison group with M. Frenkel and M. Haynes. The need for poster sessions for ICCT was emphasised, with refreshments provided. It was suggested that these might be preceded by a plenary lecture.

2.3 Future ICCT's

José Cheda (Spain) wrote in July that "we maintain the offer to be the organisers in the future (2008?) or to help someone else in Spain to do that."

An invitation was also received from Tooru Atake (Tokyo Institute of Technology) to host ICCT-21 in 2010. Svein Stølen supported this application, on the basis of a meeting which he attended and which Atake had organised. Atake had been sent a copy of the "Guidelines for Organisers of an ICCT", and encouraged to submit an official proposal before the 2003 meeting.

C. Panayiotou has indicated that he could not be involved in the organisation of a Conference in Greece before 2010.

It is recommended that ICCT-2008 should be in Europe. Offers to host this meeting should be sought before end-2003

3. IACT

The Association was not yet legally set up, and the purpose of the election at the Conference the previous evening, which was open to all attendees, had been to form a committee with the composition

set out in the Constitution. K. Marsh suggested that the term of office should be for two years for all Board members appointed at this time, so that new elections could take place in 2004, when the new Constitution was legally in place.

Copies of the draft Memorandum of Association were circulated to all members, with a request that a note of corrections and of points requiring clarification should be made to the Secretary as soon as possible. He explained that certain sections were included to comply with company law and for application for charitable status, but acknowledged that there was confusion regarding the use of the word “members”, which was used to apply to members of the Board of Directors and also to participants at the ICCT. It was agreed that all people who wished to join IACT should be allowed to do so, and pay the appropriate subscription. All members should be able to vote, and it was suggested that the election should take place at the beginning of each ICCT. This would mean that the list of nominations, including the names of additional persons who wish to put themselves forward for election, should be available several weeks ahead of the Conference so that non-attendees can cast their vote, possibly by fax with a signature.

K. Marsh pointed out that several clauses in the Memorandum permitted IACT to undertake actions which we would never want to do, and asked if the Bye-laws would be amended specifically to exclude such possibilities. The Secretary replied that the Constitution would have to be rewritten to fit in with the Memorandum, and that he would take up this important matter with the lawyers.

The Constitution was approved subject to the following agreed changes:

- i) it should be specified that future elections should be for the Board of Directors, whose members would subsequently elect the Chair, Secretary and Treasurer. (Under the present Bye-laws, where there was an election for any of these positions, the person who was not elected could not become a Director at that time.)
- ii) a clause should be added to allow the co-option of non-voting members to ensure a) that there was representation of interests across the wide range of chemical thermodynamics and b) that major regions of the world were represented, where this has not been achieved by appointment of Counsellors.
- iii) a change to “five” for the number of Counsellors, to reflect the number of appointments this time.

[Note added: With regard to the status of IACT, consideration of establishment as a Company limited by guarantee was on the basis of the strongest recommendation of the University of Glasgow legal advisers, who knew exactly what the aims and objectives, and possible liabilities, of this organization might be. Subsequently, Bill Wakeham approached his legal advisers at the University of Southampton who queried the earlier advice on the grounds that, in their view, it would be expensive and unnecessarily complicated. They favoured Unincorporated Association status.

Following a consultation of the interim Board members, there was unanimous agreement that the simpler alternative, namely Unincorporated Association status, should be the route for IACT to follow. This result was declared to Board members on 18 December 2002.]

4. On-going Projects

These are listed here for information. Details can be found in Appendix A.

- 4.1 Electrolyte Solution Data (J. Barthel).
- 4.2 Project on the Thermochemistry of Chemical Reactions (M.A.V. Ribeiro da Silva)
- 4.3 Standards, Calibration and Guidelines in MicroCalorimetry (G. Della Gatta, M.J. Richardson, S.M. Sarge and S. Stølen)
- 4.4 Vapour Liquid Critical Properties of Elements and Compounds (K.N. Marsh)

- 4.5 International Thermodynamic Tables of the Fluid State. Benzene (W.A. Wakeham)
- 4.6 New Edition of Experimental Thermodynamics
Volume VI. Measurement of the Thermodynamic Properties of Single Phases : Editors: A.R.H. Goodwin,
K.N. Marsh and W.A. Wakeham.
Volume VII. Measurement of the Properties of Multiple Phases: Editors: Th. W. de Loos and R.D. Weir.
- 4.7 Ionic Liquids (A. Heintz and K.N. Marsh)
- 5. Proposed New Projects
 - 5.1 Thermophysical properties of polymers: to include $\Delta_f H$, T_g , glass transition temperatures and thermo-mechanical coefficients over extended temperature and pressure ranges. (J.-P. E. Grolier)
 - 5.2 Guidelines for temperature modulated DSC (J.-P. E. Grolier).
 - 5.3 Thermodynamics in the 21st Century (T.M. Letcher)
 - 5.4 XML based IUPAC Standard for Thermodynamic Property Data Capture and Storage (M. Frenkel, K.N. Marsh, W.A. Wakeham and J.H. Dymond)

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

(July 2002 - July 2004)

Past Chair
Chair
Secretary
Treasurer

R.D. Weir
J.P.-E. Grolier
J.H. Dymond
A.R.H. Goodwin

Members

T.W. De Loos
U.K. Deiters
T.M. Letcher
K.N. Marsh
M.A.V. Ribeiro da Silva
M. Sorai
E. Vogel

Counsellors

M. Frenkel
Natalia Smirnova
W.A. Wakeham
Mary Anne White
Haike Yan

BOARD MEMBERS

Professor U.K. Deiters	Tel: +49-221-470-4543
Institute of Physical Chemistry	Fax: +49-221-470-4900
University at Cologne, Lexemburger Strasse 116	Email: deiters@xenon.pc.uni-koeln.de
D-50939 Cologne	
F.R. Germany	
Professor Th.W. de Loos	Tel: +31-15-278-8478
Delft University of Technology	Fax: +31-15-278-8047
Department of Chemical Technology	Email: t.deloos@tnw.tudelft.nl
Julianalaan 136	
P.O. Box 5045	
2628 BL Delft The Netherlands	
Dr. J.H. Dymond	Tel: +44-141-330-5949
Department of Chemistry	Fax: +44-141-330-4888
University of Glasgow	Email: johnd@chem.gla.ac.uk
University Avenue	
Glasgow G12 8QQ	
U.K.	
Dr. A.R.H. Goodwin	Tel: +44 1223 325347
Schlumberger Cambridge Research	Fax: +44 1223 467004
High Cross	Email: AGoodwin@slb.com
Madingley Road	
Cambridge CB3 0EL, UK	
Professor J.-P.E. Grolier	Tel: +33-473-40-71-86
Laboratoire de Thermodynamique	Fax: +33-473-40-71-85
et Génie chimique	Email: j-pierre.grolier@univ-bpclermont.fr
Université Blaise Pascal	
Clermont-Ferrand	
24 avenue des Landais	
F-63177 Aubière Cédex FRANCE	
Professor T.M. Letcher	Tel: +27-31-260-3090
School of Pure and Applied Chemistry	Fax: +27-31-260-3091
University of Natal	Email: lecher@nu.ac.za
Durban 4041	
Republic of South Africa	
Professor K.N. Marsh	Tel: +64-3-364-2140
Department of Chemical and Process Engineering	Fax: +64-3-364-2063
University of Canterbury	Email: k.marsh@cape.canterbury.ac.nz
Christchurch, Private Bag 4800	
New Zealand	

Professor M.A.V. Ribeiro da Silva	Tel: +351-2-608-2821
Departamento de Quimica	Fax: +351-2-608-2822 (dept.)
Faculdade de Ciencias	: +351-2-200-8628 (faculty)
Rua Campo Alegre 687	Email: Risilva@fc.up.pt
Universidade do Porto	
P-4150 Porto	
Portugal	
Professor M. Sorai	Tel: +81-6-6850-5523
Research Centre for Molecular Thermodynamics	FAX: +81-6-6850-5526
Graduate School of Science	Email: sorai@chem.sci.osaka-u.ac.jp
Osaka University	
Toyonaka Osaka 560-0043 Japan	
Professor E. Vogel	Tel: +49-381-498-6510
Fachbereich Chemie, Abt. Physikalische Chemie	FAX: +49-381-498-6502
Universität Rostock	Eckhard.vogel@chemie.uni-rostock.de
Albert-Einstein-Strasse 3a	
D-18059 Rostock	
Germany	
Professor R.D. Weir	Tel: +1-613-541-6612
Dept. of Chemistry & Chemical Engineering	FAX: +1-613-542-9489
Royal Military College of Canada	Email: weirr@rmc.ca
P.O. Box 17000, Stn Forces	
Kingston, ON K7K 7B4	
Canada	

COUNSELLORS

Dr. M. Frenkel	Tel: +1-303-497-3952
Thermodynamics Research Center	Fax: +1-303-497-5044
Physical and Chemical Properties Division	Email: frenkel@boulder.nist.gov
National Institute of Standards and Technology	
325 Broadway	
Boulder, CO 80305-3328, USA	
Professor N. Smirnova	Tel: 812-428-67-90
Department of Chemistry	Fax: 812-428-69-39
Universitetsky prosp.26	Email: smirnova@nonel.pu.ru
Petrovoretz	
St. Petersburg 198504, Russia	
Professor W.A. Wakeham	Tel: 02380592801
Vice-Chancellor's Office	Fax: 02380593159

School of Engineering Sciences	Email: vice-chancellor@soton.ac.uk
University of Southampton	
Highfield	
Southampton SO17 1BJ, UK	
Professor M.A. White	Tel: +1-902-494-3894
Department of Chemistry	FAX: +1-902-494-3894
Dalhousie University	Email: Mary.Anne.White@dal.ca
Halifax N.S. B3H 4J3	
Canada	
Professor Haike Yan	Tel: +86-10-6-256-2821
Institute of Chemistry	FAX: +86-10-6-256-9564
Academia Sinica P.O. Box 2709	Email: hkyan@public.east.cn.net
Beijing 100 080	
China	

OBSERVERS

Professor J.M.G. Barthel	Tel: 011-49-941-943-4042
Institut für Physikalische und	FAX: 011-49-941-943-4532
Theoretische Chemie	Josef.Barthel@chemie.uni-regensburg.de
Universität Regensburg	
Universitätstrasse 31 D-93053	
Regensburg FRG	