

# *International Association of Chemical Thermodynamics*

## IACT



### **Minutes of the Meeting of the Board of Directors**

**Department of Chemical Engineering, University of KwaZulu-Natal**

**Durban, South Africa**

**Sunday July 27 2014, Time: 13.00 to 16.00**

Present at the meeting:

Chairman  
Treasurer

Dr. Anthony R.H. Goodwin  
Prof. Martin Trusler

Board Members

Prof. Derish Ramjugernath  
Prof. Kazuya Saito

Counsellors

Prof. Li-Xian Sun  
Prof. C. Schick (new)

### **1. Preliminary Matters and Announcements**

Dr. Goodwin welcomed new Members to their first Board meeting.

### **2. Apologies**

Apologies were received from Dr. Robert Chirico, Prof. Stanislaw Randzio, Prof. Josefa Fernandez, Prof. Manuel Minas de Piedade, Prof. Luis Galicia-Luna, Prof. Heiko Heerklotz, and Prof. Watson Loh.

### **3. Minutes of 2012 Board Meeting (Buzios)**

**3.1.** The IACT Secretary, Rob Chirico, reported that the minutes of the 2012 Board of Directors meetings held in Tsukuba were available on the IACT website (see <http://www.iactweb.org/membership/membership.htm>). These minutes were approved by the Board.

### **4. Secretary's Business**

#### **4.1. IACT Awards 2014.**

Three junior awards were granted for 2014, however, only one was able to attend the conference. There is one receipt of the Kehianian award.

#### **4.2. Appointment of counsellors.**

The secretary reported by email that there were four board vacancies and 2 counsellor vacancies. There were a total of 6 candidates. It was decided that the following four would be reappointed to the board to serve a second term: Professor Josefa (Pepé) Fernandez (Spain), Professor Luis Galicia-Luna (Mexico), Professor Manual Minas de Piedade (Portugal) and Professor Deresh Ramjugernath (South Africa). Deresh agreed to serve as Secretary.

There are two counsellor positions and two candidates that have put their names forward and these are as follows: Prof. E. May, University of Western Australia, Australia and Dr. K. Kroenlein, TRC, NIST, Boulder, USA (Treasurer). The term of Prof. Sun, whom is the

organizer of ICCT2016, also expires in 2014. The board, who choose the counsellors, will make a decision at the business meeting to either increase in the number of counsellors permitted from 5 to 6 or the candidates.

## 5. Treasurer's Report

### 5.1. Financial Statement.

Date	Paid in £	Paid out £	Balance £	Detail
7 Nov 2011	6391.00		6391.00	Transferred from HSBC account
14 Feb 2012	634.96		7025.96	Elsevier sponsorship 2011 (US\$1000)
6 Aug 2012		371.50	6654.46	Five books (2011 IACT Junior Awards)
12 Sep 2012		478.05	6176.41	2012 IACT Junior Award 1 (inc. £15 fee)
2 Oct 2012		476.79	5699.62	2012 IACT Junior Award 2 (inc. £15 fee)
27 Sep 2013	1292.24		6991.86	Elsevier sponsorship 2012/13 (US\$2000)

**5.2 Forecast.** One 2014 IACT Junior Awards will be paid out shortly, comprising US\$500 cash award plus a waiver of the conference registration fees (US\$430 approx.). Additionally, IACT will contribute US\$1000 towards the costs of the Rossini lecturer.

We also expect to receive income of US\$1000 in sponsorship for 2014 from Elsevier.

After these transactions, there should be a balance of about £6400 (approximately US\$10950).

## 6. ICCT 2014.

Prof. Deresh Ramjugernath reported on the status of the conference. 300 abstracts were submitted for 140 oral presentations and the remainder posters. There are 327 delegates attending and the conference had been based on the assumption there would be 400 delegates. There are two plausible reasons for the lower number. First, on July 1, South Africa changed the requirements for an entry visa and second the austerity measures that are in place. The conference had expected about \$50 k in sponsorship but received about \$25 k. The conference expects to make a loss but this will be accommodated by sponsorship from local government. In view of the financial situation the Gala dinner was eliminated from the event.

## 7. Chairmanship of IACT.

At the end of the business meeting that will be held on August 1, Prof. J.P. Martin Trusler will become Chair and Dr. Anthony Goodwin be become past Chair.

## 8. Board of Directors for IACT.

### 8.1. Board Status and Departures.

The current board members with the end of term shown in parentheses are as follows:

Dr. Anthony R.H. Goodwin, Sugarland, Texas U.S.A.(Chairman) (2016)

Dr. Robert D. Chirico, Boulder, Colorado, U.S.A. (Secretary) (2014)

Prof. J.P. Martin Trusler, London, U.K. (Treasurer and Chair Elect) (2016)

Prof. Josefa Fernandez, Santiago de Compostela, Spain (2014)

Prof. Luis Galicia-Luna, Mexico City, Mexico (2014)

Prof. Manuel Minas de Piedade, Lisbon, Portugal (2014)

Prof. Deresh Ramjugernath, Durban, South Africa (2014)

Prof. Kazuya Saito, Japan (2016)

Prof. Heiko Heerklotz, Canada (2016)

## 8.2. New Board members.

The secretary reported by email that there were four board vacancies. There were a total of 6 candidates. The board recommends to the business meeting that the following four would be reappointed to the board to serve a second term: Professor Josefa (Pepé) Fernandez (Spain), Professor Luis Galicia-Luna (Mexico), Professor Manual Minas de Piedade (Portugal) and Professor Deresh Ramjugernath (South Africa).

A secretary and Treasurer must also be appointed. Deresh expressed an interest in acting as Secretary. A counsellor has been permitted to act as Treasurer and in view of that precedent it was recommended that Dr. K. Kroenlein. Both suggestions were approved subject to the resolution to the matter of section 8.3.

## 8.3. New Counsellors to the Board of Directors.

There are two counsellor positions and two candidates that have put their names forward and these are as follows: Prof. E. May, University of Western Australia, Australia and Dr. K. Kroenlein, TRC, NIST, Boulder, USA (Treasurer). The term of Prof. Li-Xian Sun, whom is the organizer of ICCT2016, also expires in 2014. The board, who choose the counsellors, will make a decision at the business meeting to either increase in the number of counsellors permitted from 5 to 6 or the candidates.

## 9. ICCT 2016 update

Prof. Li-Xian Sun reported the ICCT 2016 website [www.icct2016.org](http://www.icct2016.org) would be operating soon. Prof. Li-Xian Sun stated he would present ICCT 2016 at the closing ceremony. Prof. Li-Xian Sun stated there were many students and faculty available to assist in the organization. Professor Deresh Ramjugernath suggested, based on his experience, that ICCT 2016 seek sponsorship sooner rather than later.

## 10. Offers to host ICCT 2018

Prof. J.P. Martin Trusler suggested that either the 2018 or 2020 could be held at Imperial College, London. Dr. Goodwin suggested that IACT explore the possibility of organizing a joint meeting with the Thermophysical Properties Conference, Boulder CO in 2018.

## 11. Project updates

- 11.1. Thermochemistry of Chemical Reactions, by M. A. V. Ribeiro da Silva, is no longer an active project.
- 11.2. Guidelines for Modulated-Temperature Differential Scanning Calorimetry by J.-P. Grolier has been terminated by IUPAC and in view of this will also be suspended by IACT
- 11.3. Vapor-Liquid Critical Properties by K. N. Marsh, has been removed from the list of active project.
- 11.4. Establishing Recommended Data on Thermodynamic Properties of Hydration for Selected Organic Solutes, by J. Sedlbauer, has been suspended.
- 11.5. Guidelines for Reporting of Phase Equilibria Measurements, by R. D. Chirico, has been completed.
- 11.6. Thermodynamic Study of Hydrogen Storage Materials: Metal Organic Frameworks and Metal or Complex Hydrides, by Li-Xian Sun, has been completed.
- 11.7. Recommended Standard Systems for Phase Equilibria, by R. D. Chirico, has been completed.
- 11.8. International Standard for Viscosity at Temperatures up to 473 K and Pressures

below 200 MPa, by A. R. H. Goodwin. Correlations for squalane have been completed and measurements are on-going for Kyrtox GPL 102. Prof. J.P. Martin Trusler stated that Imperial will also, based on independent work, publish another correlation. It would be good if this project could reconcile the two correlations. Martin also suggested this project would be better placed with IATP.

## **12. New Projects**

- 12.1. Mechanical and Isentropic Coefficients of Liquid Systems: Pure and Mixed, by T. M. Letcher was now in progress.
- 12.2. Guidelines for Isothermal Titration Calorimetry, by J.-P. Grolier, was of uncertain status.
- 12.3. Experimental Thermodynamics IX: Transport Properties. Has been published
- 12.4. Experimental Thermodynamics X: non-equilibrium Thermodynamics. Is in the final stages of preparation.
- 12.5. IUPAC recommendation for the definition and preferred symbols for all transport properties by W. A. Wakeham has been funded by IUPAC.

Prof. J.P. Martin Trusler recommended that items 12.3 through 12.5 remain on the agenda but that these projects should fall to IATP.

## **13. New Projects**

The board reported almost unanimously there were problems accessing [www.iactweb.org](http://www.iactweb.org). The arrangements to operate the website, which reside with NIST, had experienced some issues with the payment for the domain name to GoDaddy. These matters have been resolved. The board requested that NIST be informed of other issues that included the difficulty of loading and time-outs received while attempting to access the webpage.

## **14. Any other business.**

No other business arose.