

Minutes of the 16th Commission V.8

meeting held at

Rensselaer Polytechnic Institute

Troy, New York, USA

July 30-31, 1990

Section I. DISCUSSIONS OF THE FULL COMMISSION

A. List of Attendees

C. Balarew (Bulgaria), R. Battino (USA), B. R. Churagulov (USSR), H. L. Clever (USA), R. Cohen-Adad (France), J. J. Counioux (France), R. Crovetto (Argentina), A. I. Dibrov (USSR), T. P. Dirkse (USA), U. Domanska (Poland), R. Duhlev (Bulgaria), M. Gaune-Escard (France), J. Eysseltova (CSFR), P. Fogg (UK), F. W. Getzen (USA), L. H. Gevantman (USA), C. Guminski (Poland), W. Hayduk (Canada), G. Hefter (Australia), R. Herrera (USA), J. B. Jensen (Denmark), C. Kalidas (India), S. Krause (USA), K. G. Kravchuk (USSR), G. A. Krestov (USSR), F. A. Lewis (Ireland), J. W. Lorimer (Canada), A. Maczynski (Poland), J. J. Markham (USA), A. Mather (Canada), H. Miyamoto (Japan), A. D. de Namor (UK), S. L. Phillips (USA), M. C. Ritt (UK), M. Salomon (USA), J. Sangster (Canada), M. Th. Saugier-Cohen-Adad (France), K. Sawada (Japan), P. Scharlin (Finland), D. Shaw (USA), R. P. T. Tomkins (USA), V. M. Valyashko (USSR), W. E. Waghorne (Ireland), E. Wilhelm (Austria), B. A. Wolf (Germany), Y. P. Yampol'skii (USSR).

B. Approval of Minutes and Agenda

The Chairman called the meeting to order and, after a brief introduction of attendees, noted the passing of W. Gerrard. Homage was paid to him in the form of a memorial statement delivered by P. Fogg, followed by a minute of silence. The minutes of the past meeting were then approved with duly noted corrections. The agenda was also approved.

C. Report of Chairman/Editor-in-Chief

1. The Chairman reviewed the status of publications required for 1990 and noted a possible shortfall due to the fact that only three volumes had been delivered to the publisher to date. He then discussed what could be done to improve the rate of volume production and proposed a change in how to meet the Commission's commitment for the delivery of six volumes per annum. There was considerable discussion on how to improve the rate of production. In the course of these discussions, some clarification regarding lay sheets and floppy disk

use for camera-ready copy was aired. In addition, the need to follow both IUPAC and Commission guidelines was pointed out. The new flowchart prepared by G. Hefter and contained in the 1989 minutes was highlighted. The Chairman then reviewed his proposed method for overcoming the shortfall in volume production by offering the publisher more than the usual six titles with the aim of delivering at least six from among the designated list. Some preliminary contact with publisher indicated acceptance. The Commission approved the proposal. The Chairman noted the need for authors and editors to be aware of the need for delivering a manuscript in the year promised and pointed out that the term "under preparation" means that the manuscript is to be published in the year named.

2. The royalties for 1989 and comparative figures for 1985-1988 as prepared by the Secretary were shown to the Commission. It was clear that sales figures have dropped off, particularly the subscription sales. Hefter suggested a renewed effort to get institutional libraries to sign on for the series. Other suggestions included a renewed effort to Pergamon to advertise more in all countries, aided by the National Representatives. It was generally acknowledged that Pergamon does a good job on advertising. Salomon suggested relaxing Pergamon's rules governing series subscription to allow subscribers to select their own titles in five- or ten-volume lots.

3. The Chairman then announced the publisher's request for a price increase. After discussions which took into account the various attitudes both from the Commission and the IUPAC Publications Committee, the Commission approved an increase for single volumes to \$95.00 and subscriptions to \$80.00.

4. The Chairman then reviewed the general finances of the Commission, which seemed satisfactory. The Franzosini Award for 1990 was given to Dr. P. Scharlin of Finland.

D. Progress Report on Automated Database

Using the evaluated data contained in Volume 38, "Hydrocarbons (C₈-C₃₆) With Water and Seawater, Part II," Maczynski has created an automated program format that is acceptable. After incorporating all of the comments received from Commission members and using the "Floppy Book" software, the program performs well and has considerable flexibility and accessibility. It is suggested that the data base can be expanded to include all of the volume data. It now remains for the data to be entered and demonstrated to the IUPAC Committee on Chemical Data Bases during the 36th General Assembly in Hamburg, 1991.

E. Volume on Experimental Solubility Determination

Hefter has now collected all comments on his outline and has reduced them to an acceptable format. They will include kinetics and thermodynamics of solution, methods for gas, liquid, and solid solution in all phases, high and low pressure and temperatures, and other measurement concerns. Wilhelm suggested a full chapter be devoted to solution kinetics. Funding for this project is proposed to fall under the Analytical Division B budget or UNESCO.

F. Report on the 4th ISSP

Krause reported a preregistration of 96 people from 23 countries, the majority coming from Canada and the USA. There was also a large group from the USSR. Support for the symposium was varied and included the U.S. Army, the American Chemical Society, four industrial organizations, and the School of Science at RPI. The plenary sessions will be published in IUPAC's journal "Pure and Applied Chemistry." Approaches to other journals for publishing the remaining papers have elicited no response. Lorimer questioned the need for publication in view of the small number that were published from past symposia. Comments on how to proceed were inconclusive.

G. Report on the 5th ISSP

Valyashko reported on the preliminary plans concerning the 5th ISSP in 1992. The meeting is proposed for the July-August time period, hopefully adjoining another important European meeting. The subject matter will include solubilities on electrolytes, colloids, pollutants, and polymers. The Cochairmen proposed are Professors Zolotov and Valyashko as well as eight other people in the USSR for program selection, paper selection, and other tasks. Valyashko solicited suggestions for speakers and sources of financial support. A side trip for attendees to visit Leningrad is also being considered.

H. Cooperative Project with Commission VI.4

Clever has been in touch with P. Warneck regarding pollutant gas solubilities and has sent him data sheets and a descriptive rundown on Commission V.8's modus operandi. To date no response has been received.

I. Titular Members Meeting

The subjects discussed at the titular members meeting were presented. They included the automated data project, the new volume proposed by G. Hefter, and the question on how to proceed in the molten salts solubility area. The first two items have been detailed earlier. The last was left for further investigation with the understanding that under proper circumstances, including those volumes already approved, the Commission would consider favorably topics within this area of concern. The final item concerned titular membership for 1991 and forward. Three titular members must step down because their terms of service in IUPAC will have expired. They are J. W. Lorimer, L. H. Gevantman, and R. Cohen-Adad. The membership will be polled during the coming year to suggest replacements. Election of a new Chairman/Editor-in-Chief and Secretary must also occur.

K. Time and Place of the Next Meeting

The next meeting of Commission V.8 (17th) will be held during the 36th General Assembly on August 7-15, 1991 at the University of Hamburg, Hamburg, Germany.

L. Adjournment

The meeting was adjourned July 31, 1990 at 5:30 PM.

Section II. REPORTS ON RELATED COMMISSION ACTIVITIES

A. Reports by National Representatives

Austria - E. Wilhelm

Reports on the activities of Commission V.8 were published in the Austrian Chemistry Monthly in 1988 and 1989. Austria now has an official committee of the Austrian Chemical Society devoted to promoting IUPAC activities. However, it is severely hampered by the lack of operating funds.

The Austrian Representative wishes to go on record as advocating a merger of the ISSP with the International Conference of Solution Chemistry. This should take place after the Moscow symposium.

Belgium - J. Vanderdeelen

The activities of Commission V.8 were reported to the Comité National Belge de Chimie and through them to Belgian industries.

Canada - A. Mather

No activity due to being newly appointed this year.

China - Fu Jufu

Requests for Chinese references and translations were minimal. Recruitment of people was not successful this year.

Denmark - J. B. Jensen

The Danish National Research Council supported the two-week visit of a foreign scientist to work on a Commission publication. The Council also contributed to the assignment of CAS Registry numbers connected with the W-Mo volume.

Germany - B. A. Wolf

The activities of Commission V.8 were published in several journals during this past year. Contact was made with the DDR representative E. M. Kirmse so as to coordinate recruitment of new people.

Ireland - E. Waghorne

No activity due to the new appointment in 1990.

Japan - H. Akaiwa

Dr. Sawada, the new Japanese representative, attended the Troy meeting. Other work deals directly with volume production.

United Kingdom - R. W. Cargill

Technical work on volumes continues. The Representative would like to hear from U.K. members so as to plan his activities better.

United States - K. R. Bullock

Recruited one person in the field of water treatment and scaling phenomena. Arranged for the visit of another scientist to the Representative's laboratory to advance volume production.

Union of Soviet Socialist Republics - B. R. Churagulov

There is considerable technical activity in the USSR on the preparation of at least nine volumes. In addition, some effort has gone into planning and advertising the 5th ISSP.