

MINUTES OF THE 17TH COMMISSION V.8 MEETING

HELD AT HAMBURG UNIVERSITY

HAMBURG, GERMANY

ON

AUGUST 8-11, 1991

DURING THE 36TH IUPAC GENERAL ASSEMBLY

SECTION I. DISCUSSIONS OF THE FULL COMMISSION

A. List of Attendees

H. Akaiwa (Japan)	S. Krause (USA)
C. Balarew (Bulgaria)	G. A. Krestov (USSR)
H. U. Borgstedt (Germany)	I. Lambert (France)
R. Bouaziz (France)	K. Lambert (UK)
B. R. Churagulov (USSR)	J. W. Lorimer (Canada)
H. L. Clever (USA)	A. Maczynski (Poland)
M. T. Saugier-Cohen Adad (France)	C. Magalhaes (Portugal)
R. Cohen-Adad (France)	A. E. Mather (Canada)
J.-J. Counieux (France)	H. Miyamoto (Japan)
A. F. Danil de Namor (UK)	P. R. Naidu (India)
T. P. Dirkse (USA)	M. Salomon (USA)
G. Dragan (Romania)	J. Sangster (Canada)
R. Duhlev (Bulgaria)	K. Sawada (Japan)
J. Eysseltova (CSFR)	B. P. Sazonov (USSR)
P. G. T. Fogg (UK)	P. Scharlin (Finland)
H. Gamsjaeger (Austria)	D. G. Shaw (USA)
M. Gaune-Escard (France)	A. Skrzecz (Poland)
F. W. Getzen (USA)	A. Pacheco Tanaka (UK)
L. H. Gevantman (USA)	R. P. T. Tomkins (USA)
H. Gruenbauer (Netherlands)	V. M. Valyashko (USSR)
E. S. Gryzlova (USSR)	J. Vanderdeelen (Belgium)
C. Guminski (Poland)	A. F. Vorob'ev (USSR)
W. Hayduk (Canada)	E. Waghorne (Ireland)
G. T. Hefter (Australia)	E. Wilhelm (Austria)
J. B. Jensen (Denmark)	B. A. Wolf (Germany)
E. M. Kirmse (Germany)	C. L. Young (Australia)

B. Approval of Minutes and Agenda

The Chairman called the meeting to order and, after a brief introduction concerning the aims of the Commission, asked attendees to identify themselves and their affiliation. The Chairman then noted the passing of V. K. Filipov with a minute of silence in memorium. The minutes of the past meeting and the agenda for the present one were then approved.

C. Report of the Chairman/Editor-in-Chief

1. Activities within IUPAC

There is a strong move by President Y. P. Jeanin and Vice-President A. J. Bard to combine several Commissions within the Analytical Division with those in the Physical Chemistry Division. The aim is to reduce duplication and expense. However, the Division Chairmen have taken a strong stance in opposition to such moves, fearing the loss of useful projects and personnel. Similarly, it was proposed that overlap between National Representatives and Titular or Associate Members from the same country must result in the removal of the National Representative. Again opposition to this plan by the Divisions and their Commissions has been mounted. The Chairman has registered his opposition with Jeanin and Bard. Finally, some question has arisen about not listing subcommittee members in the Blue Book. The Chairman has protested this proposed action in the strongest terms.

On a more positive note, the activities of Commission V.8 were reviewed by the IUPAC Vice-President, who reported that the Commission's work was very satisfactory.

2. Activities within the Analytical Division

Division President G. den Boef reported several activities within the Division which will affect the Commission. Most important was the suggestion that all Project Initiation Proposals (PIP) be prepared in the even years so that sufficient review by the Division is guaranteed. This action was approved.

Some difficulty was experienced with reviewing the Commission's activities by the Division reviewer due to lack of factual material. A new practice will assure that the reviewer, who will be named in advance, will receive the Commission's meeting minutes and the Chairman's report when they are issued. The Division reviewer for this next period is J. Jordan. The review by D. Klockow for the last period was generally favorable on the work of the Commission. One important suggestion which arose from the reviews was the listing of contributor names in the PIP's in addition to the editors, etc.

Financial support was requested from the Division for a book on Experimental Solubility Determination. The amount will be decided in December 1991.

Subsequently, at the end of the General Assembly, it was announced that G. den Boef was to become the new IUPAC Secretary General, succeeding T. S. West. This means that A. Hulanicki becomes the new President of the Analytical Division. At the same time, J. W. Lorimer was named as a coopted member to the Division Committee.

3. Activities within the IUPAC Secretariat

The Secretariat has moved to new, improved quarters. Some reorganization within the Secretariat regarding personnel responsibilities has also taken place. The handling of finances should improve inasmuch as it has all been entered on computer and the banking is now located in Oxford. It was noted that the Commission still has some difficulty with the processing of manuscripts through the Secretariat.

4. Relations with Pergamon Press

The Chairman announced the sale of Pergamon's scientific publication division to Elsevier Publications. Letters received from K. Lambert and Elsevier have assured the Commission that no changes in the present operation or policy are contemplated.

Problems still remain. The commission has not met its obligation for supplying five volumes/year. Lorimer stressed that June 1 was the deadline for announcing book titles for the following year. He urged the Subcommittee chairmen to honor that date and to help speed the output of new volumes. He also reminded prospective editors of the need to hold volume size within the bounds of 250-450 pages, with an allowance of 50 pages for all of the auxiliary material. As an aid to prospective book editors, guidelines for submission are given. (Appendix 1)

A problem has arisen with the reprinting of out-of-print volumes. Pergamon will no longer reprint these volumes. Lorimer has asked the IUPAC Publication Committee to consider alternatives. While only one or two volumes are out of print, several others are approaching a similar status.

Pergamon has proposed a price increase. The price for subscriptions will go from \$82.00 to \$92.90. The price of individual purchases will go from \$100.00 to \$110.00. The price for purchasing individual copies when the individual's organization is a subscriber remains the same at \$30.00. After some discussion and with the knowledge that the Publications Committee would accept the price increase, the Commission voted to agree with the new cost schedule.

The royalty statement for the year ending 31 December, 1990, with the list of current subscribers, from Pergamon Press was circulated for comment. Subscriptions now stand at 106. While one reason for a low subscription rate is undoubtedly a lower level of income for many university libraries, there may be other factors which are difficult to identify. G. T. Hefter noted that there were many countries represented on the Commission where no subscriptions to the SDS existed. Members were urged to persuade libraries in their respective countries to start subscriptions.

The Commission was reminded that the initial period of the publishing contract with Pergamon Press ends on 31, December, 1992. The contract then continues from year to year unless notice of termination is given by either party one year in advance. While the Commission does not foresee any reason on its part to terminate the contract, in the event that circumstances change, a committee will be necessary to examine terms for a new contract. This committee was created, with J. W. Lorimer, L. H. Gevantman, M. Salomon, and F. W. Getzen as members, and will report on the status of the contract at the next Commission meeting in Moscow.

Income from the Analytical Division and Pergamon Press, namely \$1,600 and \$3,000, respectively, was used to support member attendance at the meeting.

Income from the Franzosini Award Fund was employed to bring A. Pacheco Tanaka to the meeting. He was sponsored by A. F. Danil de Namor.

4(a). Meeting with K. Lambert - Pergamon Press

Subsequent to the Chairman's report, a meeting with the Pergamon Press representative, K. Lambert, ensued. Lambert stressed that the change from Pergamon to Elsevier would not affect the Commission's status inasmuch as the operation will remain a separate and distinct entity within Elsevier. The pricing policy remains the same as contained in the contract. Notification of price changes will now be given by at least mid-April.

The reprinting of books is not possible because the photocopying unit within Pergamon was disbanded. Upon further urging by the Commission, Lambert promised to review other possibilities for reprinting books. He then noted that print runs have dropped from 1,000 to 500 copies and, only if sales warranted would consideration be given to an increase in print runs. This resulted in a general appeal to all members to do whatever possible for increasing individual and subscription sales.

Lambert also promised to inform the Commission whenever a volume approached out-of-print status.

D. Volume on Experimental Solubility Determination

G. T. Hefter reported that four chapters are in preliminary form. He and his co-editors, C. L. Young and J.-J. Counioux, expect a preliminary draft at the end of 1991. Contributors on the kinetics of dissolution, gases in polymers, solid metals, and pharmaceuticals have not yet been identified. Suggestions for names were solicited. Contact with suggested individuals will be made. A PIP will be prepared for submission in 1992.

E. Report of the Molten Salt Task Group

L. H. Gevantman reported that the Task Group decision was to avoid the establishment of such an activity on a formal basis. It acknowledged the value of such efforts in selected areas but preferred that they be reviewed on an individual basis within the existing formal structure so as to avoid duplication and overlap with other ongoing activities outside the Commission. This led to an intense discussion on the merits of the Task Group report and whether the Commission should endorse their recommendations. After postponing a decision for a day, a compromise was reached wherein the activity would still reside within the Solid-Liquid Subcommittee with leadership provided by M. Gaune-Escard. The criteria as set out by her would be followed in approving new projects. If required, reconsideration of this activity can take place in two years.

F. Production of an Automated Solubility Database

The Commission met with members of the Committee on Chemical Data Bases (CCDB). Lorimer reviewed progress to date and noted that the Commission was in receipt of reviews/proposals by H. B. Kehiaian and K. N. Marsh which called for decisions by CCDB based on Commission progress with the data base. A presentation of the updated data base format and capabilities was made by A. Maczynski, aided by A. Skrzecz.

The presentation was favorably received. Speaking for the CCDB, S. R. Heller proposed that the CCDB would entertain a proposal with the following points: (a) Method of approach, (b) Scope of data, (c) Data base producer, and (d) Cost of production. He went on to state that ideally the program software should be in dBase III. However, it would accept it in present form with a C language conversion file or, failing that, in ASCII. Maczynski indicated that he could provide the C language conversion file. A suggested guideline describing criteria for the contents of the database was established and is reproduced in Appendix II to these minutes.

Heller then asked for the preliminary proposal as soon as possible to be followed by a final proposal if the details of the former were acceptable.

Inasmuch as the CCDB had not yet met formally, Heller could not comment on the Kehiaian/Marsh papers, and it was left that the next step was with the Commission regarding the submission of a proposal.

G. Proposed Inter-Divisional Project on Gas Solubilities in Aerosols

H. L. Clever and others met P. Warneck of commission IV.4 to discuss mutual interests in solubility in aerosol clouds for substances such as acetone and formaldehyde. Warneck's prime interest was in obtaining Henry's Law Constants over a specified temperature range. Clever stated that interaction between the two Commissions would probably be limited, although commission V.8 would have a role to play. Lorimer mentioned a need to alter the preface of the gas-liquid volumes to accommodate to an expansion into aerosols which would be required. Further development of this subject area was left to be pursued by Clever.

H. Meeting with Committee on Teaching of Chemistry

A. F. Danil de Namor provided background to the Commission by describing the Surrey-South America teaching program which has graduated 41 master-level chemists and is looking to expand this activity in Peru, Bolivia, Argentina, Colombia, and Venezuela. She noted that a European-Latin American research group has been established and is meeting in September 1991. Dr. Sané, the Chairman of the Committee on Teaching of Chemistry, is very enthusiastic about the involvement of Commission V.8.

I. Report on the Fourth International Symposium on Solubility Phenomena

S. Krause and M. Salomon reported on the results of this highly successful meeting wherein 100 participants from approximately 26 countries were in attendance. Financially the Commission earned a surplus which will be used to support the fifth ISSP.

J. Report on Planning for the Fifth International Symposium on Solubility Phenomena (ISSP)

V. M. Valyashko reported that the first circular had been distributed and the second would be issued in December. His Co-chairman is Professor Yu. A. Zolotov and the secretary is Dr. K. G. Kravchuk. There will be seven plenary lectures along with submitted papers for both oral and poster presentation. The deadline for submission of papers is the end of March 1992. The dates are July 8-11, 1992, following the commission V.8 meeting which will be held on Monday and Tuesday, July 6-7, 1992.

K. Site of the Sixth ISSP

The review of progress on the fifth ISSP led to a discussion on the selection of a site for the sixth ISSP. A number of sites were suggested including Argentina, Australia, Austria, Czechoslovakia, and Alaska. It was tentatively decided that Argentina was the first choice with Alaska as an alternative should any problems arise. The time would be July-August 1994.

L. Meeting with C. N. R. Rao on New Materials

This meeting of the Commission with Professor C. N. R. Rao was postponed due to the latter's late arrival. A new date was set for September between A. F. Danil de Namor and C. N. R. Rao.

M. Report on Titular Member Meeting

The results of the voting of new officers, titular and associate members, was reported by the Chairman. He then turned over the meeting to the new Chairman M. Salomon and Secretary R. P. T. Tomkins. Salomon thanked the outgoing officers for their service to the Commission and, following a brief ceremony honoring their work, he adjourned the meeting.

N. Time and Place of Next Meeting

The next Commission meeting (18th) will be held at the Kurnakov Institute of General and Inorganic Chemistry, Moscow, USSR, on Monday and Tuesday, July 6-7, 1992.

O. Adjournment

The meeting was adjourned at 12:20 pm, August 11, 1991.

SECTION II. REPORTS ON RELATED COMMISSION ACTIVITIES

A. Reports by National Representatives

Australia - C. L. Young

The Australian Representative has disseminated information about the IUPAC and, in particular, the efforts of Commission V.8 to graduate students and academics throughout the country. In addition, he has personally been involved in the production of three SDS volumes as well as the book on experimental methods of determining solubility.

Belgium - J. Vanderdeelen

The Belgian Representative continues to promote the work of the Commission by bringing its work to the attention of Belgian scientific organizations. He has also reported his efforts with the Commission, which include the writing of a volume for the SDS, to the "Comité National Belgede Chimie."

Canada - A. E. Mather

One compiler (J. Carroll) has been recruited to help the Canadian Representative complete a volume for the SDS.

Denmark - J. B. Jensen

The Danish Representative has been active in compiling and recruiting new people for his volume in the SDS. He has traveled to the USSR to expand the data base in his volume and to consult on other subject matter affecting the Commission's work.

Finland - P. Scharlin

The Finnish Representative has been active in bringing the Commission's work to the attention of Finnish scientists including the Finnish Academy of Science. She has also recruited compilers for contributions to the volume she is editing.

France - R. Bouaziz

The new French Representative has made contact with a number of scientific laboratories whose activities impact on the Commission's work. He is also in close contact with the groups who now contribute volumes to the SDS.

Germany - B. A. Wolf

The German Representative continues his effort to make the work of the Commission known throughout all of Germany. He also is involved in volume production and seeks new compilers for its completion.

Ireland - W. E. Waghorne

The Irish Representative continues in his effort to find new people for the Commission's work.

Japan - K. Sawada

The new Japanese Representative has familiarized himself with all of the Commission's efforts in Japan. Three volumes have been compiled, and one other is proposed. New contributors will be sought.

Poland - A. Bylicki

Efforts in Poland continue to make a large contribution to the Commission's output. In addition to a strong effort to produce an automated database, the production of at least seven new volumes are in various stages of preparation. Some problems involving communication with scientists outside Poland and financial support for workers within Poland are cited.

USSR - B. R. Churagulov

The Russian Representative has been active in recruiting and has reported on at least 12 volumes which are currently under way in the USSR. In addition, plans for the Fifth ISSP are becoming firm as reported in these minutes. Cooperation both within as well as outside the USSR is sought to complete the work currently under way.

B. Reports by Subcommittees

In reviewing the Subcommittees' efforts, reference again was made to the large number of compiled data sheets which did not fit within any planned volume. Gevantman suggested that the loose data sheets be distributed and held by the subcommittee chairman, who would then review them to see what could be done in terms of their ultimate publication.