

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 111th MEETING OF EXECUTIVE COMMITTEE

Academy of Sciences of USSR, Moscow: 16th-17th May 1988

Present: Prof. V. A. Koptug (Chairman), Prof. A. Björkman - in part, Dr. Mary L. Good, Prof. S. Itô, Prof. Y. P. Jeannin, Prof. C. N. R. Rao, Prof. N. Sheppard, Prof. T. S. West

In Attendance: Dr. M. Williams (Executive Secretary), Dr. M. H. Freemantle (Information Officer) - in part

1/88 INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

The President regretted that, due to illness, Prof. Björkman would be unable to attend on the first day. Consideration of financial matters was therefore deferred to the second day.

The agenda circulated by the Executive Secretary (88.05.06) was approved.

2/88 MINUTES OF MEETINGS OF:

2.1/88 109th and 110th Executive Committee

2.1.1/88 Amendments and Approval of Minutes

The Minutes of the Executive Committee meetings at Veszprém (circulated by the Executive Secretary 87.07.22) and Boston (circulated by the Executive Secretary 88.02.29) were approved.

2.1.2/88 Matters Arising from Minutes

2.1.2.1/88 Section on Medicinal Chemistry (Minute 16/87, 110th Executive Committee)

Prof. Jeannin reported on his initiatives taken with Prof. C. G. Wermuth since Boston, and on that by COCI to solicit candidates for membership. Further to the recommendations from a meeting in Paris on 88.04.22 [attended by Profs. Jeannin and Wermuth, the Chairman of COCI (Dr. D. Wyrsh), the Secretary General and Executive Secretary], it was noted that the Provisional Section membership had been thanked for its service and the Executive Committee approved:-

(i) the appointment as Members for 1987-1991, and as Officers at least until Lund, of:

President	- Prof. C. G. Wermuth (France)
Vice-President	- Dr. B. Metcalf (USA)
Secretary	- Dr. N. Koga (Japan)

with the Section itself to decide at Lund which Members should thereafter be its Officers;

(ii) the Section Officers to meet (or correspond) in order to propose three other Section Members before the 1988 Bureau meeting, with a bias towards chemical industry rather than academic institutions, and the mandatory

inclusion of an East European at least in the first Committee;

(iii) no two Members should be from the same working country nor from the same multinational (industrial) company;

(iv) terms of reference (Appendix A).

It was felt that a working party structure should operate initially, developing if appropriate into Commissions, with an industrial emphasis needed in the programmes. The appointment of National Representatives was seen as a means of involving others in the work. As a Section President, Prof. Wermuth should be invited to the 1988 Bureau meeting. Drs. Koga and Metcalf might attend as observers, in order to familiarize themselves with the working practices of IUPAC.

#### 2.2/88 53rd-55th Bureau

The Minutes of the Bureau meetings at Boston were recorded as having been received officially by the Executive Committee.

#### 2.2.1/88 Involvement of Chemistry in the Biosciences (Minute 4.2.2/87, 54th Bureau)

The composition of the Study Group was noted: Dr. P. C. Kearney (Applied Chemistry Division) and Prof. N. Montalbetti (Clinical Chemistry Division) in addition to Prof. I. Wadsö (Chairman). Chairmen of IUPAC Commissions had been requested to list any of their projects relevant to basic or applied biological chemistry, and IUB and IUPAB had also been alerted.

Prof. Jeannin emphasized the need for the IUB-IUPAC Joint Commission on Biochemical Nomenclature to be actively involved in the Study Group. Prof. Rao said that the Study Group was opportune in connexion with the discussions on possible restructuring of the Union (Minute 2.2.6/88): a concerted approach to the biosciences by IUPAC was probably needed (e.g. for health) in view of the various separate Division projects (medicinal chemistry, clinical chemistry, biotechnology).

#### 2.2.2/88 Proposed IUPAC-UNESCO Initiative in Latin America (Minute 5.2/87, 54th Bureau)

The Secretary General had written to the United Nations Development Programme (87.09.16), confirming IUPAC's continuing enthusiastic support for the suggested joint initiative. Apparently the programme proposal, under discussion prior to Boston, was rejected by UNDP as being too academic. Following further discussions with the Federación Latinoamericana de Asociaciones Químicas, Prof. A. J. Arvía had drafted a new proposal (88.03.17).

The draft outlined objectives and strategies for the programme, an organizational structure (based on National Focal Points and a Directive Council), and various outlined activities (post-graduate courses, workshops, post-graduate fellowships, exchange visitors). The IUPAC Bureau would be represented in the Directive Council.

The Executive Committee accepted the draft as a basis for an imaginative programme for the development of chemistry in Latin America. Some indication of the National Focal Points and of the actual activity topics would be helpful, and the indicated budget (some USD 2.5M over six years) would need careful reappraisal: there should be no costs to IUPAC. Members of the Executive Committee were urged to submit comments by 88.06.15, so that the Secretary

General could reply to Prof. Arvía.

Prof. West had formally requested ICSU (87.09.09) to submit an application for USD 25 000 from the UNESCO Participation Fund in respect of the IUPAC Seminars/Visiting Professorships (IVPs) programme. Also, he had tried to enlist the support of NAOs in Latin America. Despite repeated pressure from the Executive Secretary, ICSU had not yet submitted the application.

2.2.3/88 Reformulation of Periodic Table/IUPAC-IUPAP Transfermium Element Working Group (Minute 5.3/87, 54th Bureau)

The Executive Committee noted that the article on new notations in the periodic table had been published by Prof. E. Fluck in PAC [1988, 60 (3), 431-436].

Prof. Jeannin reported on the first meeting of the IUPAC-IUPAP Working Group (Bayeux, 88.02.03-05). It was confirmed that IUPAC would retain responsibility for recommending names for the chemical elements. Discussion of the names for elements 102 and 103 would not be reopened, but that for element 104 onwards remained open. Detailed consideration had been given to the establishment of criteria that must be satisfied for the discovery of new elements to be recognized. The criteria presently used by IUPAC - common usage and practicality - were considered as satisfactory by the Working Group. In order to discuss the matter with those involved in the actual research, the Working Group planned to visit Darmstadt (December 1988), and Berkeley and Dubna (Spring 1989).

2.2.4/88 Possible Coordination of IUPAC Efforts for Developing Countries with COSTED (Minute 5.4/87, 54th Bureau)

At the suggestion of the Executive Secretary, the new IUPAC representative to COSTED (Dr. S. Varadarajan) would meet with the Secretary of COSTED (Prof. S. Radhakrishna) to discuss a joint approach on appropriate activities.

2.2.5/88 Statement of Treasurer's Responsibilities in CHEMRAWN Activities

In order to conform with the statement approved at Boston (Minute 6.1/87 and Appendix A, 54th Bureau), the Executive Committee agreed to replace the final sentence of the terms of reference in the Standing Orders for the CHEMRAWN Committee (IUPAC Handbook 1985-1987, p. 41) by

"The Treasurer is to be kept informed through plans, budgets, and audited accounts, of activities which have financial implications. Payments from IUPAC funds must be authorized by the Treasurer."

2.2.6/88 Reports of Division Forward Activity Planning Groups (Minute 7.8/87, 54th Bureau)

The papers prepared by the Division Forward Activity Planning Groups had been precirculated. The Executive Committee noted with concern that there were, in general, few positive ideas for new activities to be undertaken. In particular, the requirement for Division Presidents to identify which parts of their current programmes might be discontinued in order to initiate new activities, had been largely ignored. At the same time Prof. Jeannin expressed his concern about any pressure on Divisions to change immediately. The complete set of papers should be circulated to the Division Presidents, so that each might comment on the papers of his fellow Presidents. In addition, they should be requested to address themselves specifically to the two points made by the Officers at Boston. Further considerations, as necessary, should be undertaken within the Divisions, and the Division Presidents should come forward by 88.08.15 with an

addendum to, or replacement of, their existing papers.

Prof. Jeannin would enquire at the Division President interviews, prior to the Bureau meeting at Oxford in September, about suggestions for new initiatives in emerging areas (e.g. solid-state, theoretical, and bioinorganic chemistry) and changing needs of present day chemistry. Prof. Koptug was anxious that, in the reviews of Division structure, particular attention should be given to possibilities of improving IUPAC activities of direct interest to society as a whole (the image of chemistry), e.g. those relating to the environment, technology (best available and least polluting), agriculture and health (a closer involvement in CHEMRAWN programmes), informatics.

At Boston, Prof. Rao had called for a greater involvement of IUPAC in the activities of ICSU, especially its global programmes (Minute 5/87, 34th Council). However, the response from Division Presidents was rather poor to Secretary General West's invitation (87.11.03) to ensure that chemistry was more strongly represented in the ICSU International Geosphere-Biosphere Programme: A Study of Global Change.

Also, Prof. Rao was concerned that various chemistry teaching/education projects were still going on in individual Commissions, often independently of IUPAC-CTC. He advocated a reappraisal of the present activities of CTC (somewhat restricted and directed insufficiently towards the tertiary level): a Teaching of Chemistry "Think Tank" like those in the IUPAC Divisions was needed. Prof. Jeannin was urged to meet personally with the CTC Chairman (Prof. M. Chastrette), as part of the current Vice-Presidential critical review of IUPAC projects and programmes, to consider the wider involvement of the Divisions and of chemistry. A positive outcome of such discussions might be for Prof. Chastrette to attend the meetings of Division Presidents and Bureau (first morning) at Oxford.

Regarding an enquiry from Prof. D. B. Tonks (88.05.03), in respect of a forthcoming meeting of the Canadian National Committee for IUPAC (88.06.11), all documentation on possible restructuring of the Union, already presented at Boston (53rd Bureau), could be made available. However, the subsequent papers from the Division Forward Activity Planning Groups should not be presented.

2.2.7/88 Continuing Dispute between Commissions I.3 and V.5 (Minute 16.1/87, 54th Bureau)

The Chairman of the Commission on Electrochemistry (I.3: Prof. G. Gritzner) would be invited to put his complaints in writing for consideration by Prof. Koptug, and possible reply by the Commission on Electroanalytical Chemistry (V.5).

2.2.8/88 Approval of New Members of Division Committees and Commissions (Minute 19/87), 55th Bureau)

(i) The Executive Committee noted that

Prof. R. A. Alberty (Physical Chemistry Division Committee)  
Prof. G. J. Leigh (Inorganic Chemistry Division Committee)  
Dr. R. Greenhalgh (Applied Chemistry Division Committee)

were all elected as Division Secretaries at Boston, for which a four-years term was specified (Bylaw 4.103), but part way through their term as ordinary Members (1985-1989). Their total dates of service were therefore given incorrectly as "1985-1989", and should become "1985-1991".

(ii) At Lund Prof. L. V. Gurvich would reach ten years of service on the

Commission on High Temperature and Solid State Chemistry (TM-1979/1987, AM-1987/1989). Since Boston it had been established that he served previously on the Commission on Thermodynamics (AM-1965/1969, TM-1969/1977). This violated the twelve-years limit for total membership of Commissions [Bylaw 4.304(iii)], and the Executive Committee ruled that Prof. Gurvich could not continue as a Commission member after Lund.

- (iii) At Boston Prof. D. Klockow had been approved as an Associate Member (1987-1991) on the Commission on Atmospheric Chemistry (VI.4). However, he would reach twelve years of service at Lund on the Commission on Analytical Nomenclature (AM-1977/1981, TM-1981/1989). Unless exceptional reasons were raised, Prof. Klockow's membership on Commission VI.4 should cease at Lund.
- (iv) The exceptional reason (leader for project on educational aspects of photochemistry concepts), given belatedly for extending the Titular Membership beyond the statutory eight years for Prof. K. Tokumaru on the Commission on Photochemistry, was not accepted by the Executive Committee. He was approved only as an Associate Member (1987-1991).
- (v) The Executive Committee noted that:
  - a. the Associate Memberships of Drs. S. Narang, L. Nyeste, and S. Ramachandran on the Commission on Biotechnology had been terminated;
  - b. at Boston Mr. P. W. Hendrikse had been omitted inadvertently as a new Titular Member (1987-1991) on the Commission on Oils, Fats, and Derivatives, and he was approved retrospectively;
  - c. an analysis of the post-Boston memberships of IUPAC bodies revealed no serious transgressions of the limitation on IUPAC commitments to three per person (Minute 15.2.5/78, 91st Executive Committee - Brussels).

#### 2.3/88 34th Council

The Minutes of the Council meeting at Boston were recorded as having been received officially by the Executive Committee.

#### 2.3.1/88 IUPAC Component of Affiliate Subscription for 1989 (Minute 15/87)

The Secretary General reported that, due to the lower exchange rate now operative, the contribution needed for CI from the Affiliate subscription in 1988 (computed at USD 7.5 in mid-1987) would no longer enable BSP to recover its costs (USD 8.3 now required, and USD 8.5 envisaged for 1989). Because the national chemical societies operating AMS must be advised in June 1988, the Executive Committee, on behalf of the Bureau agreed that USD 12 was needed for the IUPAC component of the Affiliate subscription in 1989.

#### 2.3.2/88 Brazilian Membership of IUPAC (Minute 20/87)

The Secretary General reported on developments since Boston. The Executive Committee noted that negotiations had started to form a Brazilian National Committee for IUPAC. However, it was reconfirmed that membership of the Union should commence only when the National Committee was officially constituted.

#### 2.4/88 Division Presidents (87.08.22)

The Minutes of the Division Presidents meeting at Boston were recorded as having been received officially by the Executive Committee.

2.5/88 Finance Committee (87.08.23 and 88.02.15-16)

The Minutes of the Finance Committee meetings at Boston and Zürich were recorded as having been received officially by the Executive Committee.

2.5.1/88 Statement of Accounts for 1987 (Minute 3.1/88 and Appendix A)

The Executive Committee adopted the 1987 accounts and authorized the Executive Secretary to arrange for their auditing.

2.5.2/88 Use of Soft-currency IUPAC Funds (Minute 3.4/88)

The Executive Committee noted that AMS subscription monies were being accumulated in Eastern Europe (Bulgaria, Czechoslovakia, Hungary, USSR) on behalf of the Union. Prof. Koptug confirmed that the relevant NAOs must each identify bona fide ways to utilize these monies for IUPAC budgetary purposes, thereby ensuring that IUPAC did not suffer financial loss.

2.5.3/88 Need to Increase National Subscriptions/Company Associate Unit (Minutes 3.2, 5.5, and 6.5/88)

The Treasurer advised the Executive Committee of the anticipated need at Lund to raise the total national subscriptions income for 1990/1. However, it was decided not to circularize NAOs until after the Summer 1988 meeting of the Bureau.

2.5.4/88 Per Diem Allowance 1988 (Minute 6.3/88)

Due to the declining rate of exchange of the US-dollar the Treasurer, in conjunction with the Secretary General (88.02.01), had increased the per diem from USD 65 to a maximum of 95. Subsequently, an ad hoc start was made to introduce a flexible per diem according to location and other factors. In the absence of guidelines, Prof. West said that this had increased the administrative burden for the Secretariat. Dr. Good recommended that claim forms should be sent en bloc for Officers of IUPAC bodies to allocate travel and subsistence within their agreed budgets. Prof. Björkman intended to issue guidelines for handling IUPAC costs for travel and subsistence (e.g. on choice of low-cost locations for meetings). Despite the wish of the Treasurer to maintain the present practice, the Executive Committee resolved that there should be no differentiation financially between Standing Committees and Division Committees/Commissions.

2.5.5/88 Financial Review of Affiliate Membership Scheme/Chemistry International/IUPAC Handbook (Minute 6.4/88)

The Executive Secretary reported briefly on the discussion of these matters by the Finance Committee.

On the basis that a main aim of AMS was to increase publicity about IUPAC activities throughout the world, how could the flow of information best be maintained if AMS was discontinued? By analogy with similar organizations to IUPAC, the Secretary General, in conjunction with the Treasurer and with the support of the Finance Committee, suggested that provision might be introduced in future general purposes budgets of say USD 25 000 per biennium for "Information/ Publicity for IUPAC". In order to justify such provision to Council, Dr. Good recommended that Prof. West should prepare comparison costings for production and distribution of a less sophisticated information piece as an alternative to CI.

#### 2.5.6/88 Revised Budgets for 1988-9 (Minute 6.5/88)

The Treasurer referred briefly to his precirculated memoranda on the 1988 budget/plans for financial improvements/supplementary allocation (88.04.06), on financial management of the 1988-9 and future biennia (88.05.04), and on possible restrictions on expenditure in non-Divisional bodies (88.05.02).

The Executive Secretary had analyzed the Secretariat expenses to ascertain the amount which might be attributed to non-recurring items. In view of the several financial uncertainties, Prof. Björkman had decided that it was hardly worth the effort, because of the small practical consequences, to revise the 1988-9 general purposes and AMS budgets, including drafting 1988-9 publication budgets.

The Executive Committee noted that the unpredictable further drop in value of the US-dollar towards the end of 1987, and the consequent need to raise the IUPAC per diem this year (Minute 2.5.4/88) would almost certainly require additional allocations to IUPAC bodies in 1988, stretching into 1989, while the General Assembly might be kept within the budgeted figure. This would increase the budgeted deficit for the biennium, but with the favourable state of the assets the Treasurer reckoned that the increase would be of minor significance. This proposal was acceptable, only if the situation could be improved for the future. For the future, Prof. Björkman suggested that subscriptions, calculated in national currencies, should not be allowed to vary up and down for an unpredictable US-dollar. Instead, they should be "frozen" at the exchange rates applicable at the time of the Council budget approval. NAOs would then be less liable to gain or lose on changes in the US-dollar, and the money allocated to IUPAC bodies could be kept at the planned level. Profs. Jeannin and Koptyug foresaw difficulties in operating subscriptions in this manner.

#### 2.5.7/88 Computerized Financial Accounting at Secretariat (Minute 7.1/88)

A management accountancy expert from the Royal Society of Chemistry in London, Mrs. L. E. Brett, had duly visited the Secretariat (88.03.22), and subsequently met the Treasurer briefly in London (88.03.24). Unfortunately, her report with recommendations for consideration of action by the Union, was not yet available. Some discussion took place on the work load of the Secretariat. Dr. Good supported the opinion of the Treasurer that "computerization" should be a fairly simple matter.

Prof. Sheppard enquired if it would be worthwhile to pay more for the IUPAC Banker in Zürich to provide the extra information. The Executive Secretary doubted if the bank would be able to monitor the financial comparison with budget expeditiously on a regular basis.

#### 2.5.8/88 Possible Alternative Location of Secretariat (Minute 7.2/88)

An amended paper from Prof. J. M. Ward (88.02.29), on behalf of the Finance Committee, was received by the Executive Committee. The paper recommended:

- (i) to seek Council's agreement, in principle, to buying accommodation in UK;
- (ii) to set up a small group to identify a suitable site with a complete estimate of the costs involved.

Answering an enquiry from the Treasurer, the Secretary General doubted if it would be possible for IUPAC to obtain a 'grace and favour' residence in UK. Prof. Sheppard pointed out that the report of the earlier ad hoc Subcommittee (Minute 12.1/87, 109th Executive Committee - Veszprém) had shown that the present location satisfied the criteria cited by Prof. Ward. Prof. West said

that the current lease on the Secretariat offices at Oxford was being renewed for ten years (Minute 10/88). It might be more appropriate to consider changing the location when the present Executive Secretary retired in 1997 and other considerations might then have to be taken in to account.

2.5.9/88 Distribution of Secretariat Staff Time between IUPAC Activities  
(Minute 7.3/88)

An analysis of staff time allocations at the Secretariat for 1987, prepared by the Secretary General (88.02.09) for the Finance Committee, was received by the Executive Committee. The Treasurer concluded it was clear that the Secretariat was providing the expected service to central IUPAC bodies (Minute 15/77, 87th Executive Committee - Washington, DC).

2.5.10/88 Membership (Minute 8/88)

The Executive Committee noted that Dr. H. F. Wilson (Chairman and ordinary Member) and Dr. W. Fritsche (ordinary Member) would complete their periods of service at the end of 1989. At the same time, Dr. V. L. Roubailo (ordinary Member) would complete his first term of four years. Prof. Björkman was asked to make some informal contacts for filling the vacancies, bearing in mind that a new Treasurer would also be required in 1992.

2.6/88 CHEMRAWN Committee (87.08.24 and 88.03.25)

The Minutes of the CHEMRAWN Committee meetings at Boston and London were recorded as having been received officially by the Executive Committee.

2.6.1/88 Membership

Two recommendations for Associate Membership were received by the Executive Committee:

Prof. D. A. Bekoe (Kenya/Ghana)  
Prof. C. Ponnampereuma (USA)

and Prof. Ponnampereuma was approved. In the case of Prof. Bekoe, it was noted that neither Kenya nor Ghana were NAOs or Observer Countries of IUPAC. As an exception to IUPAC practice and taking into consideration Prof. Bekoe's service as an Officer of ICSU and the special nature of the CHEMRAWN programme with its involvement in developing countries, Prof. Bekoe was also approved.

2.6.2/88 Rolling Fund

The Treasurer reported that, in addition to the agreed statement on his responsibilities in CHEMRAWN activities (Appendix A to Minutes, 54th Bureau), the CHEMRAWN Committee at London had asked its Secretary to draft a document of principle as to how the Committee would ensure ongoing finance of its operations, particularly replenishment of its rolling fund. Prof. Björkman would press for the draft to be available for the forthcoming meeting of the Bureau.

The Secretary General was against the principle involved by including the new biennial contribution of USD 5 000 from IUPAC in the rolling fund: other IUPAC bodies had no such facility for accumulating unused biennial monies. However, a decision to handle the monies separately was deferred, in order to see how CHEMRAWN progressed under its new Chairman.



2.7/88 Committee on Chemistry and Industry (87.08.24)

The Minutes of the COCI meeting at Boston were recorded as having been received officially by the Executive Committee.

2.7.1/88 IUPAC Conference on Safety in Chemical Production

A report was received from the provisional organizing committee. The Conference was scheduled tentatively for Basle during 1990.09.10-14 and, in order to be exclusive and innovative, would cover risk assessment, risk reduction, and implications for education. The use of IUPAC funds was not envisaged. The Executive Committee agreed to await a completed Advance Information Questionnaire and draft budget before officially granting IUPAC sponsorship and giving a guarantee against a possible financial deficit.

Dr. Good stressed the need for additional information to that likely to be available from the completed AIQ: an outline of the programme was required to establish the scientific quality, and a listing of those industrial companies which had agreed to support the programme (i.e., by attendance, through speakers, with finance). It was pointed out that experts on risk assessment were from a variety of backgrounds and not mostly from industry. There was some concern on the relevance of safety education in universities to industrial chemical production, and on the lack of mention of protection of the general public. Some experts from Eastern Europe should be involved to ensure a truly international status.

The COCI Chairman should be asked to present an up-to-date report to the forthcoming meeting of the Bureau.

2.8/88 Committee on Chemical Databases (87.08.21-25)

The Minutes of the CCDB meeting at Boston were recorded as having been received officially by the Executive Committee.

2.8.1/88 Distribution of Databases

The first IUPAC database (enthalpies of vaporization) was scheduled for final review when CCDB met shortly in Bolzano (88.05.20-21). The Treasurer and Secretary General had authorized the preparation of a request for proposals and its distribution by CCDB, with Blackwell Scientific Publications being given no special consideration. In general, Dr. Good was against the granting of exclusive licences, even for the enthalpies of vaporization diskette to BSP, which view was supported by Prof. Koptug. On behalf of the Executive Committee, Dr. Good was to be provided with a complete file on the matter, in order to consider fully the implications with the CCDB Chairman on a suitable occasion in Washington, DC.

2.9/88 Committee on Teaching of Chemistry (87.08.24-25)

The Minutes of the CTC meeting at Boston were recorded as having been received officially by the Executive Committee. It was noted that four Members of CTC would complete their terms of service at the end of 1989.

2.9.1/88 Trust Fund for International Newsletter on Chemical Education  
[Minute 87/5(d)]

In order to provide financial security for the International Newsletter on Chemical Education, the Treasurer presented a proposal from CTC to set up a trust fund (USD 50 000). Contributions were to be solicited from IUPAC,

national chemical societies, and multinational companies. Only the annual interest would be used for the Newsletter. A decision on the trust fund was deferred by the Executive Committee, pending the meeting of Prof. Jeannin with the CTC Chairman (Minute 2.2.6/88), after which the future format of CTC might become clearer. An interim solution suggested by Prof. Rao was for the Union to make a grant in 1989, but Dr. Good preferred CTC to include provision for the Newsletter in its biennial budget request.

2.10/88 Interdivisional Committee on Nomenclature and Symbols (87.08.20-21)

The Minutes of the IDCNS meeting at Boston were recorded as having been received officially by the Executive Committee.

3/88 FINANCIAL MATTERS

3.1/88 Proposed Paolo Franzosini Fund

The total fees and honoraria from SDS Vol. 33 (editor: Prof. P. Franzosini - deceased) had been offered to the Commission on Solubility Data. IUPAC approval was sought to have the monies paid to the Commission in order to set up a fund, from which the annual interest might be used to assist participation in the solubility data project. Prof. Björkman was concerned about setting up a fund with an uncertain location (i.e., outside the Union and under the jurisdiction of limited term Commission Officers). He preferred to place the money with the IUPAC Banker in Zürich, where the Union already enjoyed sound investment advice, and he had sought (88.05.05) the opinion of the Finance Committee Chairman on the matter. The Executive Committee decided to await the reply from Dr. H. F. Wilson.

3.2/88 Budget Procedure 1990-1

Based on his experience in preparing the 1988-9 budget, Prof. Björkman tabled a draft schedule for 1990-1. The Executive Committee recommended that Chairmen of Standing Committees (excluding Executive Committee, Bureau, Finance Committee/Zürich) should present their budget requests to the Treasurer at the same time as stipulated for Division Presidents (combine stages 1 and 3). It was pointed out by the Executive Secretary, that in recent years the Finance Committee (Dr. A. Hartmann), not the Secretariat, had provided the first cost estimate for the General Assembly (stage 4). Also, Dr. Williams doubted if a significant increase in subscriptions was realistic for 1990, following a decision by Council at Lund. In order to improve continuity, the Treasurer stressed the need for incoming Division Presidents to be issued with guidelines on their financial responsibilities. Prof. Björkman would revise the draft schedule for presentation at the forthcoming meetings of the Division Presidents and Bureau.

3.3/88 Additional Allocations for 1988

Subject to the provision of a satisfactory billing, the Executive Committee approved USD 3 000 in 1988 for the purchase and distribution of additional copies of Low Cost Locally Produced Equipment - Vol. II, in lieu of the B-project money unused by CTC in 1987 for this purpose. Also, an additional allocation of USD 5 000 was approved to enable the Commission on Atmospheric Chemistry to meet in 1988, bearing in mind its requested involvement in the next CHEMRAWN Conference. The Secretary General stressed that Commissions wishing exceptionally to request additional allocations of money should do so via their Division President: they should not approach the Secretariat directly. It was noted that a stand alone COMPAQ computer (USD 6 500) had recently been purchased for the Information Officer, particularly to facilitate work on CI.

4.1/88 Arrangements for 35th General Assembly (Lund, 1989)

A report was tabled on the recent visit (88.05.02-05) by the Deputy Executive Secretary to Lund. The Assembly dates had been finalized as 89.08.09-17 (not finishing on 18th August as mentioned in Minute 18.1/87, 34th Council). Provided that the hire of the required student rooms could be negotiated, a per diem of SEK 600 (presently USD 100) should suffice (but not for all hotels): the per diem was approved by the Executive Committee. In addition, an administrative charge of SEK 50 would be payable by any person reserving accommodation through the Lund Congress Bureau. The proposed claim form (89.01.13) and participation questionnaire (89.01.31), with deadlines for return, were noted, as was the possibility of Bob Warren Travel Service again assisting participants with travel arrangements. No shortage of reasonably sized and located rooms for registration, secretariat, meetings, etc., was foreseen. However, Miss Troughton would be revisiting Lund immediately after the 1988 Bureau meeting to check the rooms situation: some rebuilding and reorganization currently being undertaken would by then have been completed.

The Treasurer outlined a new policy for claiming travel monies, which it was hoped would lead to lower expenditure by the Union. Titular Members would be asked to state their required airfares by 89.01.13 (with encouragement to use reduced-cost flights): a contingency fund might be necessary to deal with a few late submissions. Only if the total claims exceeded the sum available for travel, would an agreed sliding scale be imposed for reimbursement.

Requests were approved from IDCNS and from the Commissions on Nomenclature of Inorganic Chemistry and of Organic Chemistry to meet at Lund immediately prior to the Assembly. There was support for the view of Prof. Rao to continue with the special lectures delivered at Boston.

4.2/88 Registration Fee for 32nd Congress (Stockholm, 1989)

A complaint was received that the registration fee proposed for full participants of SEK 2 000 (about USD 340) was significantly higher than usually applicable for IUPAC-sponsored meetings. The Executive Committee was concerned that it would seriously restrict the attendance, and organizers should be informed accordingly. A breakdown of the fee should be requested (e.g., into provision of abstracts book, social events, convention organizers fee, etc.), and attention drawn to the fact that the organizers of the Sofia Congress (1987) eventually reduced their registration fee from USD 250 to 200 in order to attract greater participation.

The President pointed out that the geographical spread of plenary and invited lecturers, as detailed in the second circular, was unbalanced, with nobody from Eastern Europe. The organizers should be requested to invite some additional speakers.

The registration fee for Stockholm had only been announced through the completed AIQ (received 88.02.02) and in the second circular (received 88.04.12). In future the AIQ should be sent to Congress organizers earlier: to the Hungarian organizers for 1991 no later than following the 1988 Bureau meeting.

4.3/88 Invitations for 36th General Assembly/33rd Congress (1991)

At the suggestion of the Secretary General, the Assembly in Athens should precede the Congress in Budapest. To avoid conflict with other major meetings at that time, the proposed dates were 7th-15th and 17th-22nd August,

respectively. It was agreed to invite Prof. E. Pungor, on behalf of the Hungarian organizers, to attend the forthcoming Bureau meeting in order to outline the scope of the scientific programme for the Congress (Statute 13.1). The Deputy Executive Secretary would be visiting Athens during 88.06.27-07.03 to discuss possible arrangements for accommodation and meeting rooms. She would report back to the Bureau, especially in respect of the need for air-conditioned facilities.

#### 4.4/88 Invitations for 37th General Assembly/34th Congress (1993)

It was decided to circulate NAOs immediately to submit invitations to host the Assembly and Congress. Each NAO should be provided with the listing, which was to be published in IUPAC Handbook 1987-1989, of past locations and dates.

#### 5/88 IUPAC BODIES

##### 5.1/88 Ratification of Memberships Approved by Correspondence

The appointments, made through correspondence by the President since Boston (Appendix B), were ratified by the Executive Committee.

##### 5.2/88 Nominations of New Members and Reappointments

The following appointments were approved by the Executive Committee:-

IDCNS, PAC-EAB, - persons marked with an asterisk (\*) in Appendix C  
CI-EAB

COCI - reappointment of Dr. W. J. Mijs as Netherlands representative (1988-1991); Prof. H. Rudolph (1989-1992) to succeed Prof. K. H. Büchel

CTC - as Associate Members at least until the meeting of CTC in Lisbon (88.08.29-30):

Prof. G. Gritzner	-	Physical Chemistry Division
Prof. A. B. P. Lever	-	Inorganic Chemistry Division
Prof. J. March	-	Organic Chemistry Division
Prof. E. M. Pearce	-	Macromolecular Division
Dr. H. G. J. Worth	-	Clinical Chemistry Division

##### 5.3/88 Standing Orders for PAC-Editorial Advisory Board

Noting the recent deliberations of the Bureau [Minute 11.1(vi)/86, 52nd Meeting - Oxford], the Secretary General recommended that the Terms of Reference for PAC-EAB should be similar to those already agreed for CI-EAB. The proposed Standing Orders (Appendix D) were approved by the Executive Committee.

##### 5.4/88 Statutes and Bylaws Problems/Presidential Rulings

The Executive Secretary reported on some membership problems in connexion with the Inorganic Chemistry Division Committee and, in conjunction with the Secretary General, he tabled various proposals for changes to the IUPAC statutes and bylaws. Some proposals contravened an earlier Presidential ruling (Minute 19/80, 96th Executive Committee - Zürich), which Prof. West now believed to have been incorrect. Dr. Good and Prof. Sheppard were unhappy about the potential restrictions for recruiting new Division Officers. Therefore, the Executive Committee resolved that the proposals for statutory change should be circulated

immediately to the Division Presidents for discussion at their forthcoming meeting in Oxford.

There was general agreement that Presidential rulings should preferably be converted into the appropriate statutory changes, otherwise there was a danger that they would be overlooked. Consequently, the Executive Secretary was asked to prepare a list of Presidential rulings since the last major revision of statutes and bylaws (1975), for re-evaluation by the Bureau.

Regarding a suggestion that it might be advantageous for new Members of IUPAC bodies to commence their term of service from 1st January of the year following their election at a General Assembly, Dr. Good was again doubtful if this would be beneficial. Also, the Treasurer could foresee difficulties with the biennial allocation financial procedures.

#### 5.5/88 Vice-Presidential Critical Assessment of IUPAC Projects and Programmes

Prof. Jeannin said that his first appraisal of the documentation received from the Secretariat was difficult: most Division Presidents had supported very positively the activities of their Commissions. Also, he observed that speed could not be a decisive factor in elaborating recommendations on nomenclature and symbols. Prof. Rao advised that the personal interviews of the Vice-President with each Division President, on the occasion of the forthcoming Bureau meeting, were equally important to the written input. Prof. Sheppard felt that Prof. Jeannin should take the Division Presidents very much into his confidence at the interviews about the strengths and weaknesses of their Commissions. Because Prof. Jeannin would be conducting the fifth biennial assessment since it was started by Prof. Zollinger (1980-1), the Executive Committee concluded that the procedure would inevitably be less extensive in succeeding biennia. The Executive Secretary asked Prof. Jeannin to report back on the usefulness of the project review sheets, since the Vice-President was not provided with earlier information, such as the original initiation forms.

#### 5.6/88 Proposal for IUPAC Initiative to Meet Problems Connected with Adverse Effects of Chemical Compounds

The proposal from Prof. I. Wadsö (88.01.11) concerned problems, in the widest sense, caused by the production, storage, and transportation of chemical compounds, which frequently lead to severe accidents and sometimes to disasters. The Executive Committee reaffirmed the responsibility of the Union to address matters of chemical safety in their broadest aspects and in a continuing way [Minute 19(i)/85, 33rd Council - Lyon]. Following the report of an IUPAC Study Group on Safety in Production and Application of Chemical Products (Minute 3.2/86, 52nd Bureau - Oxford), plans were now being made for an IUPAC Conference on Safety in Chemical Production (Minute 2.7.1/88). Therefore, the proposal should be referred, prior to the 1988 Bureau meeting, for comment by COCI in particular, and also by the CHEMRAWN Committee, CTC, and the Applied Chemistry and Clinical Chemistry Divisions. Furthermore, there could be some overlap with the United Nations Environment Programme and with ICSU-SCOPE.

#### 6/88 STATUS OF AFFILIATE MEMBERSHIP SCHEME

The Secretary General was pleased to note no significant decrease in the number of Affiliates this year (nearly 7 500 as at 88.04.13, compared with over 7 850 in 1987), despite the increase in subscription. Also, there was still a wide spread of participating countries (nearly 100). No major promotion of AMS was undertaken last year, but this would be remedied in 1988. The President

cautioned against reconsidering the creation of a Committee on Affiliate Membership (Minute 13/87, 34th Council) during the current two years, while it was established whether the membership of AMS had reached a plateau.

In the spirit of trying to increase their participation in the activities of the Union, Prof. West proposed that Affiliates from non-Member countries should be eligible for membership of subcommittees of IUPAC bodies (i.e. working groups/parties, task forces, etc.). The Executive Committee agreed to recommend the proposal to the Bureau.

## 7/88 RELATIONS WITH OTHER ORGANIZATIONS

### 7.1/88 Application for Membership by Nigeria

An application for full Membership of the Union from the Chemical Society of Nigeria (88.02.01) was considered. It included details of the Society's Officers and activities, together with the constitution, and an assurance that the annual subscription to IUPAC would be settled by the Nigerian Academy of Sciences. Noting that the Society had been an Observer Country since 1986, the Executive Committee agreed to ask the Bureau to recommend acceptance of the application by Council at Lund.

### 7.2/88 Nomination for Maison de la Chimie Prize

The Executive Committee accepted a proposal from the Secretary General to nominate Prof. Rao for award of the next Prize.

### 7.3/88 Union of International Technical Associations

Prof. Jeannin presented documentation from UITA (88.02.29), an international non-governmental organization founded in 1951, enquiring if IUPAC would join as a representative of the field of chemistry. The general feeling of the Executive Committee was that IUPAC was insufficiently active in chemical technology to warrant its involvement in UITA. Dr. Good wondered if an international council of chemical industries associations or similar body existed, which might have more in common than IUPAC with the other members of UITA. The Executive Secretary was asked also to check on the relationship of ICSU to UITA.

### 7.4/88 International Organization for Chemical Sciences in Development

The Secretary General elaborated briefly on a recent exchange of correspondence with IOCD, which had culminated in an application for Associated Organization status of IUPAC (88.04.18). The Executive Committee agreed to ask the Bureau to recommend acceptance of the application by Council at Lund.

### 7.5/88 International Centre for Chemistry

The Executive Committee noted a suggestion from the Executive Secretary of ICSU (88.04.19), for IUPAC to initiate action to establish an International Centre for Chemistry like those already created for Theoretical Physics (Trieste, 1964) and for Pure and Applied Mathematics (Nice, 1978). Consideration was deferred until the forthcoming meeting of the Bureau, pending the availability of some background information on the purposes, activities, and funding of the two existing Centres.

7.6/88 International Francophone Centre for Chemical Education (CIFEC)

Profs. Jeannin and Rao endorsed the importance of the work being done by CIFEC at Montpellier, which was having a great impact in French-speaking countries, especially in Africa, where nothing similar to the English-speaking Centres for Chemical Education existed previously. On behalf of IUPAC, the President was asked to support a request to promote CIFEC as a UNESCO Centre of Excellence.

8/88 PUBLICATIONS

8.1/88 Minutes of Publications Committee (87.08.21-23)

The Minutes of the Publications Committee meeting at Boston were recorded as having been received officially by the Executive Committee. The conclusions to date of the Publications Committee, with respect to a preferred system for literature references in publications, were noted. The views of IDCNS on this matter [Minute 2.2(2)/87] should be reported back directly to the Publications Committee, for the latter to make an agreed recommendation/preference to the Bureau.

A leaflet, produced recently by BSP to publicize new and recent titles from IUPAC, was tabled. The Executive Secretary felt that increased royalties from BSP, compared with the Pergamon era as official publisher to the Union, might well derive from the improved contract with BSP rather than from increased sales. The Executive Committee reaffirmed its previous guidance on publication philosophy and policy [Minute 3.7.1(ii)/83, 102nd Executive Committee - Tokyo], concerning wider dissemination (through lower prices) or maximization of income. Once the IUPAC publication budget was balanced, the priority should be to achieve widespread dissemination, especially of the Union's compendia of recommendations on nomenclature and symbols. The Publications Committee should be asked to review the sales of IUPAC publications via BSP during 1985-7, and compare them with 1982-4 for Pergamon. Unless there was clear evidence of greater dissemination, pressure should be exerted on BSP to improve its sales efforts throughout the world.

8.2/88 US National Research Council Reports (Minute 12.2/87, 54th Bureau)

The draft group meeting in Helsinki (87.10.26-28) had recommended that the WHO International Programme on Chemical Safety should establish an editorial group for finalizing the IUPAC-NRC document on Prudent Practices for Handling and Disposing of Hazardous Laboratory Chemicals, for joint publication by IUPAC and IPCS. The costs of editing and printing would be covered by IPCS. The Executive Committee noted that an exchange of letters with IPCS had been initiated by IUPAC (88.04.08), as a basis for proceeding towards a contract with a publisher.

8.3/88 New Contract for Solubility Data Series

At the instigation of the Commission on Solubility Data (V.8), the Union had given formal notice (87.12.22) to terminate the present contract from the end of 1988. This afforded both parties an opportunity to review the situation constructively, following three years of operating the present contract and some eight years of total publishing experience with SDS. Surprisingly, Pergamon had accepted in full (88.05.09) the proposals made by the Chairman of Commission V.8 for a further contract.

The Executive Committee upheld unanimously the view of the Secretary General/Executive Secretary, that the Union was therefore obliged to award the

new contract to Pergamon. There was a strong feeling that it would be unethical for IUPAC now to approach other possible publishers for better terms. In order to ensure smooth implementation, a meeting of IUPAC and Pergamon representatives should be held prior to signing the new contract.

8.4/88 History of IUPAC (Minute 10.2/87, 109th Executive Committee)

The Executive Secretary reported that Mr. R. W. Fennell was falling behind schedule to provide BSP with a completed manuscript by the end of 1988. However, he now had access to a word processor, which should facilitate his work. It appeared that the book might be available up to a year later than originally planned for Lund. The Executive Committee proposed that, prior to publication, the manuscript should be read by 3-4 responsible IUPAC persons.

8.5/88 IUPAC Handbook 1987-1989

The Executive Secretary reported that, due to one of the Secretariat staff leaving towards the end of 1987 and not yet having been replaced, preparations for the Handbook had been delayed. It was anticipated that copies would be available for the forthcoming Bureau meeting.

9/88 SPONSORSHIP OF SYMPOSIA

9.1/88 Ratification of IUPAC Sponsorship of Symposia

The sponsorships of symposia (Appendix E), approved through correspondence by the Secretary General on behalf of the President since the 54th Bureau meeting, were ratified by the Executive Committee. It was noted that the International Conference on Aquatic Toxicity Reduction and Control had subsequently been postponed, and that sponsorship was not granted to the 9th International Symposium on Polymer Networks because of very late submission of the AIQ (see Minute 9.3/88).

9.2/88 Ratification of Official Representatives to IUPAC-sponsored Symposia

The appointments of official representatives of IUPAC to its sponsored symposia (Appendix F), as made on behalf of the President, were ratified by the Executive Committee.

9.3/88 Deadline for Granting of IUPAC Sponsorship to Symposia  
(Minute 13.3/87, 54th Bureau)

The Secretary General reported that since Boston a number of completed Advance Information Questionnaires had been received belatedly with respect to the relevant symposia. In one case it was decided not to grant sponsorship (Minute 9.1/88). After reviewing the matter carefully, including a memorandum from the Scientific Publications Secretary (88.04.11), the Executive Committee reaffirmed the Union's policy as being:

- (i) no symposium can be considered as sponsored officially unless it had gone through the necessary procedures, the first step being to obtain an AIQ from the IUPAC Secretariat;
- (ii) the symposium organizers should preferably return to IUPAC a completed AIQ two years before the actual meeting (even if details of plenary/invited lectures are not then definite);



(iii) the latest permitted date for receipt of a completed AIQ by IUPAC is twelve months in advance;

(iv) the latest permitted date for granting sponsorship is six months in advance.

The intention was to give credibility to sponsorship by the Union, and to ensure that IUPAC's policy on entry visas was publicized in symposia second circulars, distributed no later than six months in advance. After confirming via the relevant Division President(s) that a symposium was of a high scientific standard, the granting of sponsorship should not be delayed unduly by publication considerations. Where necessary, provisional publication responsibility should be accepted by IUPAC, with a final decision to be made later.

9.4/88 Proposed Grant for IUPAC-sponsored Symposia [Minute 12.1(iv)/87, 54th Bureau; Minute 4/87, Publications Committee]

The Treasurer was unable to make any recommendation before the forthcoming meeting of the Bureau. There were often considerable delays in reaching agreement about publication responsibility, and the Secretary General felt that a grant might be made too late by IUPAC to influence symposia organizers.

9.5/88 Repudiation Documents and Entry Visas

The ICSU Standing Committee on Free Circulation of Scientists had advised the Secretary General (88.02.11) to contact IUPAC's Japanese NAO in order to ascertain the current situation regarding repudiation documents and entry visa availability for participants at forthcoming IUPAC-sponsored symposia in that country. In 1986 the International Union of Crystallography had already resolved not to sponsor symposia in countries where a repudiation document must be signed to obtain a visa.

These matters had already been considered at various times by IUPAC, specifically in connexion with the 7th International Biotechnology Symposium (Minute 11.3/85, 106th Executive Committee - London) and more generally (Minute 9.2/86, IUPAC Officers - New Delhi). If IUPAC responded as suggested by ICSU and like IUCr, it could lead to the Union being unable to sponsor meetings in Japan, India, and possibly Sweden. Noting that the IUPAC policy on freedom of participation in its meetings had operated satisfactorily since introduction in 1975, the Executive Committee decided to take no action about repudiation documents unless entry visas were refused and the Union was advised accordingly.

9.6/88 Subventions to IUPAC-sponsored Symposia in 1988

The Executive Committee noted that USD 4 500 had so far been allocated by the Officers from the 7 000 budgetted for subventions in 1988. It was decided to grant USD 1 500 to the 9th International Congress on Thermal Analysis, specifically to support the registration fees of scientists from East Europe, China, and South America, who had submitted abstracts for the scientific programme.

10/88 REPORT ON IUPAC SECRETARIAT

The Secretary General reported on his recent annual inspection of the Secretariat (88.04.25-26). New leases were due to operate from July 1988 on all offices in the present building, and it was hoped to locate the whole Secretariat on the same floor not later than mid-1989. The Secretariat was now

well equipped with word processing/computer systems, telex and facsimile transmission, which had greatly improved operations and communication. The use of two separate word processing/computer systems (AES and COMPAQ) had been vindicated, but careful reconsideration would be needed soon, because the present equipment for one system (AES) was being phased out. Some recommendations for staff regrading on the UK university salary scales were approved by the Executive Committee.

11/88 DATES AND PLACE OF NEXT MEETING (Minute 13/87, 109th Executive Committee)

Sociedade Portuguesa de Química had confirmed that it was willing to host the Spring 1989 meeting of the Executive Committee in Lisbon. The Executive Secretary was asked to propose 89.04.22-23 to SPQ as the preferred dates.

VOTES OF THANKS

Votes of thanks were recorded to the Academy of Sciences of USSR and the National Committee of Soviet Chemists, for the provision of hospitality and services.

\* \* \* \* \*

CHAIRMAN:

V. Dopyug

DATE:

22.04.88

TERMS OF REFERENCE FOR SECTION ON MEDICINAL CHEMISTRY

- (i) To identify areas of chemistry related to medicine, such as the discovery, study, and development of drugs and other active compounds, where there is a clear need for more scientific information, experimental data, and theory.
- (ii) To facilitate the application of chemistry to medicinal science by promoting cooperation between chemists and medical scientists, e.g., by studying topics of international importance which from a scientific viewpoint need standardization, codification, or regulation; additionally, from the view point of the needs of mankind, particularly to consider such matters in relation to the problem of developing countries.
- (iii) To cooperate with other international organizations which deal with matters related to chemistry applied to medicine.
- (iv) To contribute to the advancement of all aspects of chemistry applied to medicine.

MEMBERSHIPS APPROVED BY PRESIDENT THROUGH CORRESPONDENCESINCE 110th EXECUTIVE COMMITTEECHEMRAWN Committee

Prof. E. Grzywa (Poland) - as Member (1988-1991)  
Dr. S. Varadarajan (India) - as Member (1988-1991)  
Prof. F. A. Kuznetsov (USSR) - as Associate Member (1988-1991)  
Prof. Kazuo Saito (Japan) - as Associate Member (1988-1991)

Committee on Chemical Databases

Dr. L. Kiessling (FRG) - as Member (1988-1991)

Committee on Chemistry and Industry

Dr. E. H. Blair - reappointment as USA representative  
(1988-1991)  
Dr. D. A. A. Fagandini - reappointment as UK representative  
(1988-1991)  
Dr. N. Darby - as Canadian representative (1988-1991)  
Dr. M. Kavala - as Czechoslovakian representative  
(1988-1991)  
Prof. N.-G. Vannerberg - as Nordic representative (1988-1991)

Committee on Publications

Dr. D. H. M. Bowen (USA) - as Member (1988-1991)  
Prof. D. V. S. Jain (India) - as Member (1988-1991)  
Dr. A. J. Lawson (FRG) - as Member (1988-1991)  
Prof. H. Ratajczak (Poland) - as Member (1988-1991)

Finance Committee

Dr. J. Brunner (Switzerland) - as Member (1988-1991)

IUB-IUPAC Joint Commission on Biochemical Nomenclature

Dr. A. Cornish-Bowden (France) - reappointment as Member/Secretary  
(1988-1991)  
Mr. J. C. Rigg (Netherlands) - as Associate Member (1988-1991)

Commission on Electrochemistry

Dr. C. Andrieux (France) - as Associate Member (1987-1991)  
Prof. Yu. Chizmadzhev (USSR) - as Associate Member (1987-1991)  
Dr. D. Pletcher (UK) - as Associate Member (1987-1991)  
Prof. W. Plieth (FRG) - as Associate Member (1987-1991)  
Prof. M. J. Weaver - as Associate Member (1987-1991)

Commission on Molecular Structure and Spectroscopy

Prof. S. Leach (France) - as Associate Member (1987-1991)  
Prof. S. Tsuchiya (Japan) - as Associate Member (1987-1991)

Commission on Photochemistry

Dr. E. A. San Román (Argentina) - as Associate Member (1987-1991)

Commission on Equilibrium Data

Dr. P. A. Manorik (USSR) - as Associate Member (1987-1991)

Commission on Biotechnology

Dr. R. Chaleff (USA) - as Associate Member (1987-1991)  
Prof. J. Engels (FRG) - as Associate Member (1987-1991)

INTERDIVISIONAL COMMITTEE ON NOMENCLATURE  
AND SYMBOLS (IDCNS)

(Established in its present form 1975)

Prof. N. Sheppard (1987-1991)  
Chairman  
Dr. A. D. McNaught (1987-1991)  
Secretary

Members

Prof. N. Kallay (1985-1989)  
Physical Chemistry Division  
Prof. J. Reedijk (1985-1989)  
Inorganic Chemistry Division  
Dr. R. A. Y. Jones (1985-1989)  
Organic Chemistry Division  
Dr. P. Kratochvíl (1985-1989)  
Macromolecular Division

- \* Prof. M. Grasserbauer (1983-1991)  
Analytical Chemistry Division
- \* Mr. S. G. Luxon (1983-1991)  
Applied Chemistry Division
- \* Prof. R. Zender (1983-1989)  
Clinical Chemistry Division

Associate Members

- \* Prof. K. Kuchitsu (1983-1989)  
Physical Chemistry Division
- Prof. J. Corish (1985-1989)  
Inorganic Chemistry Division
- \* Dr. O. Weissbach (1987-1991)  
Organic Chemistry Division
- Dr. R. E. Bareiss (1985-1989)  
Macromolecular Division
- Prof. G. G. Guilbault (1985-1989)  
Analytical Chemistry Division
- Dr. R. Greenhalgh (1985-1989)  
Applied Chemistry Division
- Mr. J. C. Rigg (1985-1989)  
Clinical Chemistry Division

Bureau International des Poids et Mesures

Dr. T. J. Quinn

International Organization for  
Standardization

Mr. A. Thor

International Union of Biochemistry

Dr. H. B. F. Dixon

International Union of Crystallography

Dr. S. C. Abrahams

International Union of Nutritional  
Sciences

Dr. F. Weber

International Union of Pure and Applied  
Physics

Dr. B. W. Petley

PURE AND APPLIED CHEMISTRY EDITORIAL  
ADVISORY BOARD (PAC-EAB)

Prof. D. H. Whiffen (1986-1990)  
Chairman  
Mr. P. D. Gujral  
Secretary

Members

- \* Dr. E. D. Becker (1987-1991)  
Committee on Publications
- Prof. N. Sheppard (1985-1989)  
Interdivisional Committee on Nomenclature  
and Symbols
- \* Prof. J. Haber (1987-1991)  
Physical Chemistry Division
- \* Prof. E. Fluck (1983-1991)  
Inorganic Chemistry Division
- \* Prof. N. J. Leonard (1983-1991)  
Organic Chemistry Division
- \* Prof. A. D. Jenkins (1987-1991)  
Macromolecular Division
- Prof. G. H. Nancollas (1985-1989)  
Analytical Chemistry Division
- \* Dr. L. E. Coles (1983-1991)  
Applied Chemistry Division
- \* Prof. W. C. Purdy (1983-1991)  
Clinical Chemistry Division

CHEMISTRY INTERNATIONAL EDITORIAL  
ADVISORY BOARD (CI-EAB)

- \* Prof. T. S. West (1983-1991)  
Chairman
- Dr. M. H. Freemantle  
Secretary

Members

- Dr. R. H. Marchessault (1985-1989)  
CHEMRAWN Committee
- \* Dr. S. R. Heller (1987-1991)  
Committee on Chemical Databases
- \* Dr. D. A. A. Fagandini (1987-1991)  
Committee on Chemistry and Industry
- Dr. D. A. O'Sullivan (1985-1989)  
Committee on Publications
- \* Prof. R. J. Gillespie (1987-1991)  
Committee on Teaching of Chemistry
- \* Prof. K. Kuchitsu (1987-1991)  
Interdivisional Committee on Nomenclature  
and Symbols
- Prof. G. E. Zaikov (1985-1989)  
Physical Chemistry Division
- \* Prof. E. Fluck (1983-1991)  
Inorganic Chemistry Division
- \* Prof. N. J. Leonard (1983-1991)  
Organic Chemistry Division
- \* Prof. A. D. Jenkins (1987-1991)  
Macromolecular Division
- \* Prof. G. den Boef (1983-1991)  
Analytical Chemistry Division
- \* Dr. L. E. Coles (1983-1991)  
Applied Chemistry Division
- \* Prof. N. Montalbetti (1987-1991)  
Clinical Chemistry Division

PURE AND APPLIED CHEMISTRY EDITORIAL ADVISORY BOARD (PAC-EAB)

Composition and Terms of Office

- (i) There shall be an Editorial Advisory Board for the IUPAC journal Pure and Applied Chemistry (PAC), composed of a Chairman, a Secretary, the Chairman of the Committee on Publications, and one representative from each of the Divisions and from the Interdivisional Committee on Nomenclature and Symbols.
- (ii) The representatives shall be nominated by the President or the Chairman of the relevant IUPAC bodies, and be appointed by the President of the Union in consultation with the Executive Committee. Their period of service shall be four years, renewable for a further term of four years.
- (iii) The President in consultation with the Executive Committee shall appoint the Chairman and the Secretary. Their period of service shall be four years, renewable for a further term of four years.

Terms of Reference

On behalf of the Committee on Publications:

- (i) to review the editorial policy and contents of PAC at a General Assembly,
- (ii) to advise the Scientific Editor/Executive Editor, upon request, on material to appear in PAC,
- (iii) to discuss future contents and format.

SPONSORSHIPS OF SYMPOSIA BY IUPAC APPROVED BY CORRESPONDENCESINCE 54th MEETING OF IUPAC BUREAU

(see Appendix C, 54th Bureau, Boston)

3rd International Symposium on Biological Reference Materials  
Bayreuth, FRG: 4th-6th May 1988

6th International Conference on Surface and Colloid Science  
Hakone, Japan: 5th-10th June 1988

1st International Argentinian Meeting on Methodology in Teaching of Chemistry  
San Luis, Argentina: 22nd-25th June 1988

8th International Biotechnology Symposium  
Paris, France: 17th-22nd July 1988

14th International Carbohydrate Symposium  
Stockholm, Sweden: 14th-19th August 1988

9th International Congress on Thermal Analysis  
Jerusalem, Israel: 21st-26th August 1988

13th International Symposium on Macrocyclic Chemistry  
Hamburg, FRG: 4th-8th September 1988

3rd International Congress on Automation and New Technology in Clinical  
Laboratory  
Kobe, Japan: 5th-8th September 1988

4th International Conference on Nickel Metabolism and Toxicology  
Espoo/Helsinki, Finland: 5th-9th September 1988

4th International Workshop on Vapor-Liquid Equilibria in 1-Alkanol + n-Alkane  
Mixtures: Applications  
Thessaloniki, Greece: 24th-26th October 1988

International Symposium on Surface Chemistry, Adsorption and Chromatography  
Moscow, USSR: 13th-17th November 1988

International Conference on Oils, Fats and Waxes  
Auckland, New Zealand: 12th-17th February 1989

6th International Conference on High Temperatures  
Gaithersburg/Maryland, USA: 3rd-7th April 1989

9th International Symposium on Cationic Polymerization and Related Processes  
Strasbourg, France: 5th-9th June 1989

International Congress Chevreul for Study of Fats  
Angers, France: 6th-9th June 1989

International Symposium on Molecular Design of Functional Polymers  
Seoul, Korea: 26th-28th June 1989

27th International Conference on Coordination Chemistry  
Broadbeach/Queensland, Australia: 2nd-7th July 1989



32nd Microsymposium on Macromolecules  
Prague, Czechoslovakia: 17th-20th July 1989

4th International Conference on Bioinorganic Chemistry  
Cambridge, USA: 24th-28th July 1989

20th International Conference on Solution Chemistry  
Jerusalem, Israel: 6th-11th August 1989

International Conference on Calorimetry and Chemical Thermodynamics  
Beijing, China: 25th-28th August 1989

International Conference on Applications of Mössbauer Effect  
Budapest, Hungary: 4th-8th September 1989

17th International Symposium on Chemistry of Natural Products  
New Delhi, India: 4th-9th February 1990

2nd International Symposium on Characterization of Porous Solids  
Alicante, Spain: 6th-9th May 1990

10th International Conference on Physical Organic Chemistry  
Haifa, Israel: 6th-10th August 1990

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International Conference on Aquatic Toxicity Reduction and Control  
Nashville, USA: 1st-3rd November 1988  
- Sponsorship granted, but Conference subsequently postponed

\* \* \* \* \*

9th International Symposium on Polymer Networks  
Freiburg, FRG: 26th-30th September 1988  
- Sponsorship not granted, because of late submission of Advance Information  
Questionnaire

OFFICIAL REPRESENTATIVES TO IUPAC-SPONSORED SYMPOSIAAPPROVED BY CORRESPONDENCESINCE 54TH MEETING OF IUPAC BUREAU

(see Appendix D, 54th Bureau - Boston)

CHEMRAWN IV: Modern Chemistry and Chemical Technology Applied to the Ocean and its Resources

Keystone/Colorado, USA: 4th-9th October 1987

Prof. Y. P. JEANNIN

3rd International Symposium on Biological Reference Materials

Bayreuth, FRG: 4th-7th May 1988

Dr. S. S. BROWN

1st International Symposium on Drugs in Competitive Athletics

Islands Brioni, Yugoslavia: 29th May-3rd June 1988

Prof. N. MONTALBETTI

16th International Symposium on Chemistry of Natural Products

Kyoto, Japan: 29th May-4th June 1988

Prof. SUKH DEV

6th International Conference on Surface and Colloid Science

Hakone, Japan: 5th-10th June 1988

Prof. KAZUO SAITO

1st International Argentinian Meeting on Methodology in Teaching of Chemistry

San Luis, Argentina: 22nd-25th June 1988

Prof. M. CHASTRETTE

7th International Conference on Organic Synthesis

Nancy, France: 4th-7th July 1988

Prof. J. MATHIEU

7th Bratislava International Conference on Modified Polymers

Bratislava, Czechoslovakia: 5th-8th July 1988

Prof. M. RATZSCH

11th Discussion Conference on Macromolecules: Chemical and Physical Phenomena in Ageing of Polymers

Prague, Czechoslovakia: 11th-14th July 1988

Prof. A. D. JENKINS

8th International Biotechnology Symposium

Paris, France: 17th-22nd July 1988

Prof. M. RINGPFEIL

12th International Symposium on Photochemistry

Bologna, Italy: 17th-23rd July 1988

Prof. K. SCHAFFNER

31st Microsymposium on Macromolecules: Poly(Vinyl Chloride)

Prague, Czechoslovakia: 18th-21st July 1988

Dr. P. KRATOCHVÍL

32nd International Symposium on Macromolecules

Kyoto, Japan: 1st-6th August 1988

Prof. W. HEITZ

19th International Conference on Solution Chemistry

Lund, Sweden: 15th-18th August 1988

PROF. G. SOMSEN

7th International Symposium on Mycotoxins and Phycotoxins

Tokyo, Japan: 16th-19th August 1988

DR. A. E. POHLAND

9th International Congress on Thermal Analysis

Jerusalem, Israel: 21st-25th August 1988

Prof. G. DELLA GATTA

9th International Conference on Physical Organic Chemistry

Regensburg, FRG: 21st-26th August 1988

Prof. I. P. BELETSKAYA

3rd International Symposium on Solubility Phenomena

Guildford, UK: 23rd-26th August 1988

Prof. A. S. KERTES

10th Conference on Chemical Thermodynamics

Prague, Czechoslovakia: 29th August-2nd September 1988

Prof. G. M. SCHNEIDER

26th International Conference on Coordination Chemistry

Porto, Portugal: 29th August-2nd September 1988

Prof. E. FLUCK

International Symposium on Electronic Structure and Properties of Molecules  
and Molecular Crystals

Cavtat/Dubrovnik, Yugoslavia: 29th August-3rd September 1988

Prof. T. CVITAS

13th International Conference on Organometallic Chemistry

Turin, Italy: 4th-9th September 1988

Prof. G. F. PREGAGLIA

3rd International Congress on Automation and New Technology in Clinical  
Laboratory

Kobe, Japan: 5th-8th September 1988

Mr. T. D. GEARY

4th International Conference on Nickel Metabolism and Toxicology

Helsinki, Finland: 5th-9th September 1988

Dr. J. O. JARVISALO

11th International Conference on Raman Spectroscopy

London, UK: 5th-9th September 1988

Prof. I. M. MILLS

International Symposium on Surface Chemistry, Adsorption and Chromatography

Moscow, USSR: 13th-17th November 1988

Prof. K. S. W. SING