

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF LXXX MEETING OF EXECUTIVE COMMITTEE

HELD AT ROYAL SOCIETY, LONDON

ON

FRIDAY-SUNDAY, 1-3 MARCH 1974, AT 9.30

PRESENT:

Prof. Sir Harold Thompson	-	President, in the Chair
Prof. J. Bénard	-	Past-President
Dr. R.W. Cairns	-	Vice-President
Dr. W. Gallay	-	Secretary General
Prof. O. Horn	-	Treasurer
Mr. P.M. Arnold		
Prof. N.M. Emanuel		
Prof. G. Smets		

IN ATTENDANCE:

Sir David Martin	-	Chairman, Committee on Statutes and Bylaws (in part)
Dr. M. Williams	-	Executive Secretary

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Minute 1/74

INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

After the opening remarks of the President, the following extra Agenda items were added to the listing in the file for the meeting:

- 3.11 Approval of New Members of IUPAC Bodies
(Minute 17/73, XXXII/B)
- 7.6 Chemical Aspects of Future Energy Sources
- 8.12 CODATA Solubility Task Group
- 8.13 Ad hoc Committee on Chemotaxonomy
- 20.9 II International Congress on Industrial Waste Water
- 20.10 VI International Congress on Catalysis

Minute 2/74

MINUTES OF LXXVI-LXXIX MEETINGS OF EXECUTIVE COMMITTEE

2.1/74 Amendments and Approval of Minutes

The Minutes of the LXXVI-LXXIX meetings of the Executive Committee were approved.

2.2/74 Matters Arising from Minutes

2.2.1/74 Use of Roman Numeral Designations for Meetings of Executive Committee, Bureau, Council (Minute 25/73, LXXVI/EC)

It was Resolved:

that Arabic numerals be used to designate future meetings of the Executive Committee, Bureau, and Council, and that the format for reference be "81st Executive Committee (Brussels)", etc.

2.2.2/74 Biennial Review of Memberships of Standing Committees
(Minute 29.1/74), LXXVI/EC)

It was Resolved:

that the membership of all Standing Committees be reviewed every two years by the incoming President in consultation with the Executive Committee.

2.2.3/74 Payment of Expenses (Minute 31/73, LXXVI/EC)

After reconsideration of the general directives to govern repayment of travel expenses and payment of daily subsistence for future IUPAC meetings, these were amended to read:

- (i) Conference (and large meetings): per diem allowance to be paid at the meeting in cash in the local currency; in exceptional circumstances, such as a meeting in an East European country, the allowance to be paid in advance by cheque in a person's national currency or in US-dollars.
- (ii) Non-Conference Meetings: per diem allowance to be paid in advance of the meeting by cheque in a person's national currency or in US-dollars.
- (iii) Travel: to be reimbursed by cheque in a person's national currency or in US-dollars; in the case of Conference (and large meetings) reimbursement may be requested at the meeting in local currency.
- (iv) Amendment of Claim Form: any amendment to a claim form made after submission to the Secretariat, to be notified to the person in advance of the meeting.

2.2.4/74 Memberships of Standing Committees (Minutes 38.2 and 38.3/73, LXXIX/EC)

Because of his heavy other commitments, Dr. K. Weissermel (Federal Republic of Germany) had been unable to join the Committee on Teaching of Chemistry. Therefore, the President had invited Prof. H. Hellmann (Federal Republic of Germany) to become a Member of the Committee.

The requested curriculum vitae for Prof. G.E. Zaikov (USSR) had been supplied and the President had appointed Prof. Zaikov to succeed Dr. R. Morf on the Finance Committee. A recent letter from Dr. Morf concerning membership of the Committee had been referred for the attention of the President and the Executive Committee. A reply drafted by Sir Harold Thompson was approved by the Executive Committee.

2.2.5/74 IUPAC Representatives on Other Organizations: 1973-1975
(Minute 39/73, LXXIX/EC)

The President reported that since the Munich Conference he had appointed the following additional representatives:

ICSU Scientific Committee on Water Research (COWAR)

1972-1975 Prof. E.A. Pearson

International Congress on Catalysis

1969-1975 Prof. D.H. Everett

Comité Consultatif des Unités de Comité International
des Poids et Mesures and

ISO/TC 12: Quantities, Symbols, Conversion Factors,
and Conversion Tables

1971-1975 Prof. M.L. McGlashan

ISO/TC 47/SC 3: Reagents for Chemical Analysis

1971-1975 Dr. W.I. Stephen

Dr. H. Hurtig was now deceased and a replacement was needed to the Permanent Committee on International Plant Protection Congresses. Also, replacements would be needed for Prof. V.A. Fassel and Dr. R.N. Jones at the end of 1974 to the Inter-Union Commission on Spectroscopy.

Minute 3/74

MINUTES OF MEETINGS OF BUREAU (XXXI-XXXII), COUNCIL (XXVII), DIVISION PRESIDENTS (73.8.30), FINANCE COMMITTEE (73.8.26 and 74.2.18-19), COMMITTEE ON PUBLICATIONS (73.8.23), COMMITTEE ON STATUTES AND BYLAWS (73.8.30), COMMITTEE ON TEACHING OF CHEMISTRY (73.9.22-23)

3.1/74 Minutes of XXXI and XXXII Bureau Meetings

These minutes were recorded as having been received by the Executive Committee.

3.1.1/74 Approval of New Members of IUPAC Bodies (Minute 17/73, XXXII/B)

The Czechoslovak National Committee of Chemistry had been unable to endorse the nomination of Dr. J. Čermák as a Member of the Sub-Commission on Mass Spectroscopy. It was decided to await the comments of the Chairman of the Sub-Commission and to discuss the matter further with Prof. V. Herout at the Bureau meeting later in the year.

3.2/74 Minutes of XXVII Council Meeting

The Minutes were recorded as having been received by the Executive Committee.

3.2.1/74 Elements 104 and 105 (Minute 13/73, page 7)

Sir Harold Thompson reported on his suggestions to the President of IUPAP for collaboration in the appointment of a neutral group of experts to consider the claims for priority of discovery of elements 104 and 105. The suggestions were approved by the Executive Committee, which thought it essential for the Chairman of the group to be from a neutral country. There had been no comment from the Commission on Nomenclature of Inorganic Chemistry on Council's decision to defer to a future meeting the possible adoption of a systematic nomenclature for elements after 105.

3.3/74 Minutes of Division Presidents Meeting (73.8.30)

The minutes were recorded as having been received by the Executive Committee.

3.3.1/74 Duration of IUPAC Bodies (Minute 3/73)

The Executive Committee sympathized with the proposal that each Division President should be asked to justify in writing to the Bureau before Conference the reasons for continuation of each IUPAC body under his jurisdiction: it constituted a constructive interpretation of Bylaw 4.1302. The President of the Union was requested, in January prior to Conference, to invite each Division President to act in accordance with the proposal.

3.3.2/74 Duration of IUPAC Conferences (Minute 6/73)

The need to try and reduce the duration of Conference was appreciated by Sir Harold Thompson, but he was unable to agree that the break between meetings of Council be discontinued (see Minute 7.1/74).

3.3.3/74 Sponsorship of Symposia by IUPAC (Minute 7/73)

The Executive Committee agreed to retain, as a desirable principle, the two-year advance application requirement for IUPAC sponsorship of symposia. However, it was decided that each application should be judged on its merits, especially for sponsorship of timely meetings when breakthroughs had suddenly opened new fields.

3.4/74 Minutes of Finance Committee Meetings (73.8.26 and 74.2.18-19)

The Minutes of the meeting held in Munich (73.8.26) were recorded as having been received by the Executive Committee. No minutes were available yet from the meeting in Zürich (74.2.18-19), but the Chairman of the Finance Committee, Dr. J.W. Barrett, had submitted a report on the deliberations.

It was noted that the revised scheme for national subscriptions was only likely to bring in an extra \$10,000 in 1974 of the potential total increase of \$35,000. However, the full amount should be realized in 1975. Hungary had disputed the rounding off to \$1,500 for Category B1. In view of the minimum subscriptions set specially for Categories C and A3, the Finance Committee believed that the rigid system of multiplication factors for the various categories was no longer so important. The Executive Committee supported the recommendation of the Finance Committee that Category B1 should remain at \$1,500. Prof. Emanuel indicated that USSR would not be able in 1974 to move into the category equivalent to its chemical turnover (A2). The President was requested to write officially to Prof. Emanuel, reporting on the increased subscription now being paid by other countries and enquiring if USSR could increase its contribution to the Union.

The Executive Committee approved the recommendation that positive balances from IUPAC-sponsored symposia be returned to the general account of the Union on a pro rata basis of any grant provided, and that a statement be generated to indicate the possible availability of such returned balances to subsequent symposia. Also, it agreed that only 50% of any grant from IUPAC be made available initially and that, in principle, all grants should be regarded as deficit guarantees.

(3.5/74 Minutes of Committee on Publications Meeting (73.8.23)

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(3.6/74 Minutes of Committee on Statutes and Bylaws Meeting (73.8.30)

These minutes were recorded as having been received by the Executive Committee. Some recommendations from the Committee on Statutes and Bylaws would be considered during the discussions by the Executive Committee on review of Statutes (see Minute 22/74).

3.7/74 Minutes of Committee on Teaching of Chemistry Meeting (73.9.22-23)

The minutes of the meeting in Wrocław were recorded as having been received by the Executive Committee.

Both the minutes and a subsequent letter to the Secretary General from the Chairman, Prof. R.W. Parry, expressed the concern of the Committee on Teaching of Chemistry that so little financial support for its work had come directly from IUPAC. The Executive Committee wished to encourage the work of the Teaching Committee and it was in favour of providing better financial support from the Union. Also, it felt strongly that the Teaching Committee should not be dominated by the influence of UNESCO. The President was requested to hold discussions with the Secretary of the Teaching Committee so that the Executive Committee could consider the matter further at its next meeting.

Minute 4/74

STATEMENT OF ACCOUNTS FOR 1973

Contrary to budgetary expectations, the 1973 preliminary accounts showed an excess of receipts over expenses of \$26,605.23, due largely to collection of outstanding national subscriptions, more Company Associates, increase in interest and dividends, and higher income from publications. As set against this were increased expenditures in respect of bank charges and of travel, subsistence, and administration of IUPAC bodies, including the Munich Conference. The preliminary accounts contained some incorrect allocations which were to be remedied prior to audit, and some minor changes of format had been proposed by the Finance Committee.

Minute 5/74

REVISED BUDGET FOR 1974

In view of the success of his policy in 1972, Prof. Horn had again introduced limits for Divisional expenditures in 1974. At its recent meeting in Zürich the Finance Committee, in the light of the most up-to-date information, had given further detailed consideration to the budget for 1974. The revised budget (see Appendix A) showed an excess of income over expenditure of about \$13,000. This was approved by the Executive Committee and also a per diem allowance of \$25 for the year.

The Treasurer reported a high projected deficit for 1975 and the preliminary indication of a considerable deficit also in 1976. Further consideration was being given to the financial situation for the biennium 1975-6 by the Finance Committee, which would be presenting the position in more detail to the Executive Committee for its meeting later in the year at Brussels.

Minute 6/74

PROPOSALS FOR FINANCIAL SUPPORT FROM TRUSTS AND FOUNDATIONS

Some 20 draft proposals had been submitted at Munich for projects which might be suitable for attracting financial support from trusts and foundations. A preliminary assessment had been made independently by the Chairman of the Finance Committee and the President of the Union, who had reached similar conclusions. Letters of support for the selected proposals had been received from the relevant Division Presidents.

The Executive Committee endorsed the proposals selected, particularly those stressed by the President of the Applied Chemistry Division. The project proposers would now be invited to produce more detailed documents with specific objectives, budget, and time factors, for consideration by the Executive Committee at its next meeting. Dr. Gallay said it would also be important by then to have some idea of which trusts and foundations to approach. Mr. Arnold suggested that the Peanut Growers Association in USA might finance the International Aflatoxin Check Sample Assay.

Minute 7/74

ARRANGEMENTS FOR XXVIII IUPAC CONFERENCE (1975)

7.1/74 Confirmation of Dates and Location in Spain

Sir Harold Thompson proposed that the Conference be held in Madrid during 2-11 September 1975. Divisional meetings would be from 2 to 7 September, Executive Committee on 7 September, Bureau on 8 September, Council on 9 and 11 September, new Bureau/Executive Committee during the afternoon of 11 September. This would give a reduction of one day over the duration of the Munich Conference. A number of factors made it desirable to have a break in the middle of the Council meetings. These proposals were endorsed by the Executive Committee.

A letter was considered from the US National Committee for IUPAC, drawing attention to the probable effect on attendance at the 1975 Congress of the wide separation in dates from the Conference. Unfortunately, it was now too late to change the arrangements for 1975.

7.2/74 Arrangements for Accommodation, Meetings, Travel

All meetings would be held, free of cost, in the Institutes of the Consejo Superior de Investigaciones Científicas. Instead of trying to accommodate the majority of participants at a single large hotel, several small hotels had been approached. The number of rooms offered to date was

insufficient and the prices were much higher than expected. It was decided that the Treasurer should seek the advice of Farbwerke Hoechst (Spain) about accommodation in Madrid, and that the Assistant Secretary might then be sent to try and negotiate more advantageous hotel terms. The Executive Committee supported the view of Prof. Bénard that some university hostel accommodation should be available for those who required it.

7.3/74 One-day Conference

The President reported briefly on developments regarding the suggestion of Dr. O. Isler (Minute 21/73, XXXII/B), to hold a one-day meeting in conjunction with the Conference, devoted to perspectives in chemistry. After making further specific proposals along these lines, Dr. Isler had now withdrawn them in favour of Sir Harold Thompson's idea to have a single lecture on a topic of a rather general character by Lord Todd, a former President of the Union. The Executive Committee agreed that the lecture should be given on the day between Council meetings at a time suitable for attendance by both Conference participants and the general public.

7.4/74 Letter from Section on Medicinal Chemistry

The Executive Committee reaffirmed once again its policy that all IUPAC bodies should meet at Conference in an IUPAC Conference year. Dr. Gallay would inform the Section on Medicinal Chemistry with regret that it could not meet in conjunction with the 1975 Congress in Jerusalem rather than at the Conference in Spain.

7.5/74 Linguistic Difficulties at Meetings

A letter had been received from the Chairman of the Food Section, drawing attention to linguistic difficulties in international cooperation. It was agreed that the Secretary General, in a circular letter prior to the next Conference, would request the Chairmen of all IUPAC bodies to invite the members to make the remarks at meetings slowly and simply to help the participants from non-English speaking countries.

7.6/74 Chemical Aspects of Future Energy Sources

IUPAC had been invited to suggest speakers for a Symposium on Chemical Aspects of Future Energy Sources at the 1975 Congress. Some doubts were expressed how far the Union was at present competent to deal with this complicated matter. Also, it was pointed out that other large meetings were planned on the subject, including a World Power Congress. It was decided that the President of the Applied Chemistry Division should be consulted, but that IUPAC should not enter this field unless it had some important contribution to make.

Minute 8/74

RELATIONS WITH OTHER ORGANIZATIONS

The files for the meeting contained a list of official representatives of IUPAC at meetings of other organizations in 1973-4 (Appendix B). Sir

Harold Thompson said that a report on any meeting in which Members of the Executive Committee were interested, could be obtained from the Secretariat.

8.1/74 Contact with International Organizations

Commenting on the remarks of Dr. Isler in Munich (Minute 14.3/73, XXXI/B), the President pointed out that IUPAC was already a nongovernmental organization in official relationship with FAO and WHO. If invited to do so, the Union would also be willing to collaborate with UNIDO, OECD, ILO, and UNCTAD.

8.2/74 World Meteorological Organization

After representing IUPAC at a WMO-WHO Technical Conference on Observation and Measurement of Atmospheric Pollution (Helsinki, 1973.7.30-1973.8.4), Prof. P. Koivistoinen had recommended a need to develop contacts in the air quality field between IUPAC and WMO-WHO. The Sections on Air Quality and on Pesticides should be consulted to ascertain whether appropriate representatives from WMO and WHO should be invited to the 1975 IUPAC Conference to discuss matters of mutual interest.

Sir Harold Thompson drew attention to the recommendations of Dr. M. Roth, who had represented the Union at a WHO meeting on Environmental and Health Monitoring in Occupational Health (Geneva, 1973.7.31 - 1973.8.6). The Secretary General would inform WHO that IUPAC bodies could help in the provision and evaluation of monitoring procedures, but not in the formulation of criteria.

8.3/74 COSTED

The President referred to recent discussions within IUPAC about COSTED and developing countries (Minute 5/73, XXXI/B). In view of the limited finances of the Union, it was still not clear what contribution IUPAC could usefully make on these matters.

8.4/74 CODATA

Prof. W. Klemm had provided a report on the VIII General Assembly of CODATA (Stockholm, 1973.9.10-11) and some general remarks concerning his experience with CODATA over the past eight years. His term as the official representative of IUPAC finished at the end of 1974, but Prof. Klemm wished to be replaced immediately. The Executive Committee approved the proposal of Sir Harold Thompson that Prof. H. Kienitz (Federal Republic of Germany) should become the new representative to CODATA. However, because Prof. Kienitz was unable to attend the 1974 meetings of CODATA, Dr. R.N. Jones (President of the Physical Chemistry Division) would be invited to act for the Union on that occasion. Dr. Jones should be informed about the views of the Executive Committee regarding the wider terms of reference for CODATA.

8.5/74 COSPAR

Sir Harold Thompson had been urged by its President to appoint a permanent representative to COSPAR, but at least to appoint an ad interim representative to the 1974 COSPAR meetings in Brazil. Apart from

photochemical work in the upper atmosphere, it was not clear which other COSPAR matters involved chemistry. In view of the shortage of IUPAC funds to send representatives long distances to meetings, Sir Harold Thompson would try and find a suitable person already going to Brazil who might act there for the Union.

8.6/74 International Union of Pharmacology

IUPHAR had requested the help of appropriate experts from IUPAC to develop an attractive programme for its 1975 meeting in Finland. The Section on Medicinal Chemistry should be invited to nominate an observer to attend some future meetings of the IUPHAR Executive Committee, taking into account the financial consequences. In view of its expressed intention to set up a Commission on Toxicology, IUPHAR should be informed about the new IUPAC Commission on Clinical Toxicology created at Munich.

8.7/74 Recommendations of ICSU General Committee

Consideration was given to recommendations from the II Meeting of the ICSU General Committee (Leningrad, 1973.9.19-21) and particularly to the observations of the IUPAC representative, Prof. Bénard. The Executive Committee noted the recommendations in respect of registration fees for symposia, but decided not to include them in IUPAC sponsorship letters. In order to assist in coordination of scientific meetings, copies of IUPAC sponsorship letters were now being sent to the ICSU Secretariat. Sir Harold Thompson drew attention to his recent report to ICSU, summarizing IUPAC activities.

8.8/74 Resolution of UNESCO Executive Board regarding People's Republic of China

The Executive Committee reaffirmed its previous views with respect to the People's Republic of China (Minute 24/73, LXXV/EC), and decided to take no action about the IUPAC membership of the Republic of China (Taiwan).

8.9/74 Committee on Teaching of Chemistry

A contract with UNESCO, requiring the Committee on Teaching of Chemistry to prepare and publish two Chemical Education Newsletters in 1974, was approved. The President was authorized to sign the contract, subject to the provision of satisfactory budgetary data by Prof. C.N.R. Rao, who was to print and distribute the Newsletters from India. Mr. Arnold drew attention to the need for amendment in future contracts of the clause vesting ownership of completed documents in UNESCO. IUPAC should have the possibility to publish if UNESCO decided to take no action.

8.10/74 IUPAP Representative to Macromolecular Division

The Executive Committee approved Prof. G.W. Becker as the new representative of IUPAP to the Macromolecular Division.

8.11/74 Centenary Celebrations of Society for Analytical Chemistry

The President agreed to act as the official representative of IUPAC and present fraternal greetings at the Centenary Celebrations of SAC (London, 1974.7.16)

8.12/74 CODATA Solubility Task Group

The appointment of Prof. A.S. Kertes (Israel) as the official representative of IUPAC to the CODATA Solubility Task Group was confirmed. The Secretary General would inform Prof. Kertes that he should not solicit funds for the work of the Sub-Commission on Solubility Data without prior approval of the Bureau (Statute 9.42).

8.13/74 Ad hoc Committee on Chemotaxonomy

On the recommendation of the President of the Organic Chemistry Division, the Executive Committee approved the appointment of Dr. H. Grünewald and Dr. K.L. Loening as representatives of the Commission on Nomenclature of Organic Chemistry to the unaffiliated Committee on Chemotaxonomy.

Minute 9/74

ROLE OF NATIONAL COMMITTEES FOR IUPAC

Some minor changes in wording were agreed to the revised draft tabled by Dr. Gallay. He was requested to add a short introduction, indicating that the document constituted guidelines which might be helpful to the more recently formed National Committees. The amended version would be reviewed at the next meeting of the Executive Committee.

Minute 10/74

APPLICATION FOR ASSOCIATED ORGANIZATION STATUS

Letters of support had been received from the Commissions on Molecular Structure and Spectroscopy and on Spectrochemical and Other Optical Procedures for Analysis, in respect of the application from Groupe pour l'Avancement des Méthodes Spectroscopiques et Physico-Chimiques d'Analyse (GAMS) (see Minute 4.3/74, XXXI/B).

It was Resolved:

that the Executive Committee recommends the Bureau to ask Council to admit GAMS to Associated Organization status at the XXVIII IUPAC Conference (1975).

Minute 11/74

CONTRACT WORK WITH CEE

The Executive Secretary reported that it had proved impossible to increase the money provided by CEE for fulfilment of the 1974 Contract. Therefore, the number of methods required from IUPAC had been reduced. The Executive Committee endorsed the signing of the contract by the President. However, Dr. Williams was asked to try and ensure that the draft contract for 1975 was available for earlier consideration by IUPAC. It was noted that the Assistant Secretary was now maintaining a record of expenses as incurred by the Secretariat on the CEE work.

Minute 12/74

COLLABORATION WITH ISO: PROPOSALS OF ANALYTICAL CHEMISTRY DIVISION

The President was concerned at the increasing level of requests for cooperation of IUPAC with ISO in recent months, and particularly of the financial implications for the Union. For the present, the Executive Committee agreed that each request should continue to be treated on its merits. The importance of continuity in IUPAC representation, especially for nomenclature matters, was stressed. It was decided that the proposals of the Analytical Chemistry Division for a mechanism leading to IUPAC approval of ISO International Standards (Minute 19/73, XXXII/B), should be tabled at the Bureau meeting later in the year, so that each Division President could comment on them.

Minute 13/74

COMPANY ASSOCIATES: A SCHEME FOR IMPROVING THE INVOLVEMENT OF INTERNATIONAL CHEMICAL INDUSTRY WITH IUPAC

All Company Associates had been informed about the agreement of the Bureau (Minute 20/73, XXXII/B) in Munich to the proposals regarding formation of an International Company Associates Group. In several countries National Groups had been set up with an appointed convenor and meetings held. Dr. J. W. Barrett was now trying to arrange a meeting of National Group convenors later this year. The Executive Committee suggested that at the projected meeting a Chairman should be elected for ICAG.

The President reported on a paper discussed at the recent meeting of the Finance Committee in Zürich, which dealt with present sources of industrial revenue for IUPAC and possible means of encouraging more such revenue. Sir Harold Thompson and Dr. Barrett had been asked to edit the paper into a form suitable for distribution to NCAG convenors and to Division Presidents.

Also, the Finance Committee had recommended to the Executive Committee that IUPAC should encourage arrangements with groups of industrial

companies. The direction of any such programmes should lie entirely with an appropriate formal body of the Union. It was decided to incorporate this suggestion into the paper on industrial revenue. The edited paper should be circulated for comment by and approval of the Executive Committee, then distributed under signature of the President of the Union.

Prof. Bénard was surprised that the Finance Committee was against raising the unit of subscription for Company Associates at this time. His personal experience in France showed that industry thought the present unit was low.

Minute 14/74

REORGANIZATION OF INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS

It was agreed that the proposals for reorganization of the Interdivisional Committee on Nomenclature and Symbols, approved in principle by the Bureau at Munich (Minute 6.1/73, XXXI/B), should now be put into effect. However, Standing Orders of the Executive Committee for the reorganized Interdivisional Committee would not be drafted until it had been working for some time. As with other Standing Committees, the Chairman of the Interdivisional Committee should be appointed by the President of the Union in consultation with the Executive Committee. Prof. M.L. McGlashan would be invited to continue as Chairman until 1975.

The matter of ensuring use of nomenclature recommendations of the Union in reports of IUPAC bodies and symposia papers published in Pure and Applied Chemistry, had not been considered by the ad hoc Committee on Nomenclature and Symbols. Its importance was acknowledged by the Executive Committee, which referred the matter for the attention of the reorganized Interdivisional Committee.

Minute 15/74

AD HOC COMMITTEE ON CRITICAL COMPILATION OF THERMODYNAMIC DATA OF BIOCHEMICAL PROCESSES AND REACTIONS

Dr. Gallay reported that representatives of IUB and IUPAB and the ad hoc Committee had met recently in Miami, but he had not yet received any report on the deliberations. Further consideration by IUPAC on establishment of an Inter-Union Commission on Biothermodynamics was deferred until the attitudes of IUB and IUPAB were known.

Minute 16/74

OPPORTUNITIES FOR INTERNATIONAL COOPERATION THROUGH IUPAC

Following discussion of the statement on "Opportunities for International Cooperation through IUPAC" at Munich by the Bureau (Minute 5/73, XXXI/B) and Council (Minute 23/73, XXVII/C), it had recently been

reconsidered at a meeting of the US National Committee for IUPAC. Dr. Gallay pointed out that the environmental matters were all being well tackled by SCOPE, while the problems of developing countries had been discussed by the Executive Committee at the present meeting (Minute 8.3/74). Mr. Arnold said that the two broad areas cited by the US National Committee were not necessarily for action by the Union. Sir Harold Thompson suggested that, in the context of the statement, his recent report to ICSU summarizing IUPAC activities (Minute 8.7/74) might be circulated for the information of the Bureau.

Minute 17/74

OPEN LETTER ON PROLIFERATION OF COMMERCIAL JOURNALS IN CHEMISTRY

An open letter, signed by eleven prominent international chemists and drawing attention to the proliferation of commercial journals in chemistry, was considered by the Executive Committee. The letter had been published already in some national chemistry society journals. Whilst the Executive Committee was in general sympathy with the views expressed, the need for specialist journals was also appreciated. The Executive Committee was doubtful if IUPAC could organize an impartial mechanism for evaluating the need for new journals and monitoring their quality. Sir Harold Thompson agreed to draft a short note on the matter for circulation to the Executive Committee which, if approved, could be published in the Information Bulletin and other publications of the Union and possibly in relevant national media. The matter might also be raised at the next IUPAC Conference in an appropriate Presidential speech.

Minute 18/74

PUBLICATIONS

18.1/74 Continued Publication of Reprints from Pure and Applied Chemistry

In view of the steady decline in sales over the past two years, Butterworths had proposed to discontinue the issue of hard-cover reprints of symposia material from PAC starting in 1975. The proposal would be considered in full at a meeting of the Committee on Publications in London (probably during May). Meanwhile, Sir Harold Thompson thought that a much more detailed analysis was necessary before IUPAC supported discontinuation of symposia reprints, even in soft-cover form. He also expressed dissatisfaction with the effectiveness of Butterworths promotion of IUPAC publications. The Executive Committee asked the President to attend the Committee on Publications meeting in person.

18.2/74 Thermodynamic Tables Project

Contrary to previous thoughts (Minute 33/73, LXXVI/EC), Sir Harold Thompson suggested that the Union should now offer to pay directly to the Project Centre 75% of the royalties received from publications, for a trial period of three years starting with the sales in 1972. This suggestion was approved by the Executive Committee.

18.3/74 Enzyme Nomenclature Report 1972

The soft- and hard-cover versions of this publication mentioned that the copyright was held by Elsevier, although the contractual agreement stated "Copyright of the said work remains with IUPAC-IUB". Action had now been taken by Elsevier to remedy the matter. Also, the US-dollar price of the hard-cover version was much higher than anticipated. Sir Harold Thompson said that IUPAC would need to watch the situation carefully in future.

18.4/74 Comptes Rendus XXVII Conference

The delay in publication of the Comptes Rendus from the Munich Conference was considered. As an experiment, it was decided to issue the Comptes Rendus in two parts with the Membership lists for 1973-5 to be published first.

Minute 19/74

NOMINATIONS OF NEW MEMBERS OF IUPAC BODIES

19.1/74 Ratification of Nominations Approved by Correspondence through Executive Committee

Those nominations for new Members of IUPAC bodies approved by correspondence through the Executive Committee since the XXXII Bureau meeting (see Appendix C) were ratified.

19.2/74 Nominations of New Members and Officers

- (i) For exceptional reasons cited by the President of the Organic Chemistry Division and in accordance with Bylaw 4.1303, the Executive Committee agreed to extend the Titular Memberships of Dr. W.E. Cohn and Prof. W. Klyne on the IUPAC-IUB Commission on Biochemical Nomenclature until 1975.
- (ii) Further to the resolution of Council at Munich (Minute 18(viii), XXVII/C), the Chairman of the Clinical Chemistry Section had recommended the following composition for the new Commission on Clinical Toxicology:-

Titular Members:	S.S. Brown (UK)	(1973-1977)
	R. Bourdon (France)	(1973-1977)

Associate Members:	M.J.G. Mercier (Belgium)	(1974-)
	D.B. Tonks (Canada)	(1974-)

[Chairman: F.W. Sunderman, Jr. (USA) - see Minute 17(vii)/73, XXXII/B]

The recommended composition was approved by the Executive Committee.

19.3/74 Committee on Teaching of Chemistry

Prof. R.W. Parry had submitted his resignation as Chairman, having served in that office for five years. Dr. P. Sykes, should also be replaced in 1974. Suggestions from Prof. Parry for new Members were discussed by the Executive Committee, which asked the President to consider the matter further with the Secretary of the Teaching Committee.

Prof. Emanuel advised that it was impossible for Prof. A.F. Platé to attend meetings of the Teaching Committee. He recommended that Prof. Platé be replaced by Prof. I.V. Berezin.

19.4/74 IUPAC-IUB ad hoc Committee on Radioactive and Isotopic Specifications of Labelled Compounds

The proposal of the US National Committee for IUPAC for a joint study by IUPAC and IUB on commercial isotopically labelled biochemicals (Minute 12/72, XXX/B), had been discussed in Munich at a meeting with a representative of IUB and participants from the Commissions on Nomenclature of Organic Chemistry (CNOC) and on Analytical Radiochemistry and Nuclear Materials. The question of nomenclature of organic labelled compounds and biochemicals was already well covered by CNOC. It was agreed to form an ad hoc Committee, with two representatives from IUPAC and two from IUB, to study purity aspects and their analytical control. The Executive Committee endorsed the nomination of Prof. F. Giradi (Italy) and Dr. D. Comar (France) as the representatives of IUPAC.

Minute 20/74

SPONSORSHIP: REPRESENTATION, SPONSORSHIP, SUBVENTION

20.1/74 Official Representatives of IUPAC to Symposia in 1974

The Executive Secretary reported that investigations were in progress to ascertain suitable persons for appointment by the President as official representatives of IUPAC to its sponsored symposia in 1974.

20.2/74 Ratification of Symposia Sponsored by Correspondence through Executive Committee

The granting of sponsorship, by correspondence through the Executive Committee since the XXXI Bureau meeting, was ratified for the symposia in Appendix D.

20.3/74 V IUPAC Symposium on Photochemistry (Enschede, 1974.7.21-26)

Very late application, supported by Organic Chemistry Division. IUPAC wished to publish 12-13 main lectures, but schedule for 1975 nearly complete. Careful reconsideration showed just possible to include in PAC. Sponsorship granted.

(20.4/74 Symposium on Plasma Chemistry (Vienna, September-October 1975)

(20.5/74 Étude et Applications des Transferts entre un Plasma Thermique et une Phase Condensée (Table Ronde, Font Romeu, September 1975)

Supported by Physical Chemistry Division. IUPAC wished provisionally to publish 5 main papers from Vienna with 4 main papers from Font Romeu. Final decision on publication deferred, pending details of Font Romeu papers. Sponsorship granted.

20.6/74 International Symposium on Marine Natural Products (Aberdeen, 1975.9.9-11)

Supported by Organic Chemistry Division. Committee on Publications not unanimous about wishing to publish 6 main papers. Sponsorship granted, subject to resolution of publication position.

20.7/74 V International Fermentation Symposium (Berlin, May-June 1976)

Supported by Applied Chemistry Division. Noting previous practice in this series, IUPAC reluctantly agreed to waive publication rights. Sponsorship granted.

20.8/74 X International Symposium on Chemistry of Natural Products (Dunedin, 1976.8.23-28)

Supported by Organic Chemistry Division. Sponsorship granted, with provisional publication of about 12 main lectures by IUPAC. Final decision on publication deferred, pending availability of lecture details. Draft realistic budget to be requested in respect of application for subvention.

20.9/74 II International Congress on Industrial Waste Water (Stockholm, 1975.2.4-7)

Supported by Applied Chemistry Division. IUPAC wished to publish 14-15 main lectures, subject to screening by organizers to ensure it was all new material. Sponsorship granted.

20.10/74 VI International Congress on Catalysis (London, 1976.7.12-16)

Sponsorship already granted. Application for subvention deferred to Bureau meeting later in year, when decision will be made if IUPAC can provide any subventions to symposia in 1976.

Minute 21/74

INVOLVEMENT OF YOUNGER CHEMISTS IN IUPAC ACTIVITIES

Sir Harold Thompson expressed concern at the lack of younger chemists in the membership of IUPAC bodies. The Executive Committee supported, in principle, his suggestion to try and finance from foundations in a few countries the attendance of some younger chemists at IUPAC meetings and asked him to come forward with more definite proposals at the next meeting.

Minute 22/74

REVIEW OF STATUTES (Sir David Martin in attendance)

Sir David Martin reminded the Executive Committee of the progress to-date in respect of revision of the 1965 IUPAC Statutes (Minute 34/73, LXXVI/EC). The deliberations of the Committee on Statutes and Bylaws in Munich on these matters were included in the files for the meeting (Minute 3.6/74). He advised that changes to the Statutes should not be made lightly and only to improve the functioning of the Union.

All Statutes and Bylaws requiring policy decisions were considered carefully by the Executive Committee, whose conclusions are recorded in Appendices E and F.

Minute 23/74

DATE AND PLACE OF NEXT MEETING

The following revised schedule was confirmed for the meetings at the Club de la Fondation Universitaire, Brussels, later in the year:

Division Presidents	29 August
Executive Committee	30 August
Bureau	31 August and 1 September

VOTES OF THANKS

Formal thanks were to be minuted for the provision of facilities and a dinner by the Royal Society, for a buffet luncheon provided by Sir David and Lady Martin, and for the preparation of the meeting by the Secretariat.

Chairman: *Her. Humphreys*

Date: *... August 30 ... 1974*

APPENDIX AIUPAC BUDGET 1974*

(as of 19 February 1974)

<u>INCOME</u>		<u>EXPENDITURE</u>	
<u>Subscriptions from National Adhering Organizations</u>	133,000	<u>Office Expenses</u>	
		Secretary General and Officers	4,000
<u>Subscriptions from Company Associates</u>	68,164	IUPAC Secretariat	67,636
<u>Interest and Dividends Earned</u>	20,000	Audit, Bank Fees, and Other Charges	9,000
			80,636
<u>Publications</u>		<u>Travel, Subsistence, Administration IUPAC Bodies</u>	123,568
Butterworths	36,000		
Secretariat	6,000	<u>Publications</u>	
	42,000	Butterworths	1,568
<u>Other Income</u>		Secretariat	41,248
Contract with CEE	9,266		42,816
Subvention from ICSU	14,000	<u>Contributions to Symposia</u>	10,000
	23,266		
		<u>Other Expenses</u>	
		Contributions to ICSU and ICSU Committees	3,655
		IUPAC Representatives on Other Organizations	1,500
		Publications for Company Associates Scheme	6,156
			11,311
		<u>General Contingency Fund</u>	5,000
			273,331
		<u>Excess of Income over Expenditure</u>	13,099
	<u>286,430</u>		<u>286,430</u>

* All figures in US dollars

EXPLANATION OF EXPENDITURES

	<u>Residual Contingency</u> <u>Funds 1972/3</u>	<u>Divisional</u> <u>Fund 1974</u>	<u>Total</u>
Standing Committees			34,986
Clinical Chemistry Section	425	5,000	5,425
Physical Chemistry Division	-	13,000	13,000
Inorganic Chemistry Division	383	7,000	7,383
Organic Chemistry Division	225	7,000	7,225
Macromolecular Division	794	9,000	9,794
Analytical Chemistry Division	261	11,000	11,261
Applied Chemistry Division	2,494	32,000	34,494
			<u>123,568</u>

OFFICIAL REPRESENTATIVES OF IUPAC
AT MEETINGS OF OTHER ORGANIZATIONS

1973-4

Reports have been received by the President as follows. Members of the Executive Committee may obtain from the Secretariat copies of any reports in which they are interested.

LI Session of WHO Executive Board (Geneva, Switzerland: 16-26 January 1973) - Dr. R. Morf (Switzerland)

XVII ISO Conference of International Organizations for Joint Study of Programmes and Activities in the Field of Agriculture in Europe: Standardization Problems of Agricultural Products and Means of Production (Paris, France: 20-23 February 1973) - Prof. F. Pellerin (France)

ISO Coordinating Meeting on Oils and Fats (Paris, France: 8 March 1973) - Drs. H. J. Vos (Netherlands)

Advisory Panel of ISO/TC 12: Quantities, Symbols, Conversion Factors, Conversion Tables (Copenhagen, Denmark: 23-27 April 1973) - Prof. M. L. McGlashan (UK)

XXVI World Health Assembly & LII Session of WHO Executive Board (Geneva, Switzerland: 7-26 May 1973) - Dr. R. Morf (Switzerland)

IX IUB Council Meeting (Stockholm, Sweden: 30 June 1973) - Dr. G. Aulin-Erdtman/Prof. H. Erdtman (Sweden)

VIII Session of Codex Committee on Methods of Analysis and Sampling (Budapest, Hungary: 3-7 September 1973) - Dr. H. Guthenberg (Sweden)

XXIII Meeting of ISO/TC 61: Plastics (Montreux, Switzerland: 29 September - 6 October 1973) - Dr. G. M. Kline (USA)

WHO Western Pacific Regional Meeting (Wellington, New Zealand: 28 August - 5 September 1973) - Dr. H. V. Brewerton (New Zealand)

II Meeting of ISO/TC 47: Water Quality (Washington, DC, USA: 10-14 September 1973) - Dr. P. O. Bethge (Sweden)

VII Meeting of ISO/TC 12: Quantities, Symbols, Conversion Factors, Conversion Tables (Washington, DC, USA: 12-14 September 1973) - Dr. M. A. Paul (USA)

WHO South-East Asia Regional Meeting (New Delhi, India: 18-24 September 1973) - Prof. S. Rangaswami (India)

III FAO-WHO Conference on Food Additives and Contaminants (Geneva, Switzerland: 22-26 October 1973) - Dr. R. Marcuse (Sweden)

Organisation Internationale de Métrologie Légale Meeting on Reference Materials (Washington, DC, USA: 5-6 November 1973) - Dr. J. P. Cali (USA)/Prof. H. Kienitz (Federal Republic of Germany)

FAO/IAEA Coordinated Research Meeting on Isotopic Tracer Aided Studies (Vienna, Austria: 5-9 November 1973) - Dr. W. Klein (Federal Republic of Germany) (for Prof. F. Korte)

VIII Meeting of ISO/TC 91: Surface Active Agents (Brussels, Belgium: 21-23 November 1973) - Prof. H. Van Olphen (USA)

ISO/IUPAC/FIL Meeting on Gas Phase Chromatography (The Hague, Netherlands:
23 November 1973) - Prof. C. Paquot (France)

IV Meeting of WHO Protein Advisory Group ad hoc Working Group on Single Cell
Protein (New York, USA: 13-14 December 1973) - Dr. A. Langlykke (USA)

CID International Committee on Ecology (Paris, France: 10 January 1974) -
Mr. Siou (France) (for Prof. R. Truhaut)

IFCC Executive Board Meeting (Lausanne, Switzerland: 27-28 January 1974) -
Dr. M. Roth (Switzerland)

Codex Committee on Pesticide Residues (The Hague, Netherlands; February 1974) -
Dr. H. Frehse (Federal Republic of Germany)

Reports are still outstanding from:

II Meeting of ISO/TC 146: Air Quality (Washington, DC, USA: 6-7 September 1973) -
Mr. J. L. Monkman (Canada)

ECE Seminar on Pollution of Wastes by Agriculture and Forestry (Vienna, Austria:
15-20 October 1973) - Dr. P. R. L. A. Dalcq (Belgium)

ECE Seminar on Chemical Industry and the Environment (Warsaw, Poland:
3-8 December 1973) - Prof. W. Kemula (Poland)

NEW MEMBERS OF IUPAC BODIES

ENDORSED BY CORRESPONDENCE THROUGH

EXECUTIVE COMMITTEE SINCE XXXI BUREAU MEETING

Commission on Thermodynamics and Thermochemistry (I.2)

Titular Member - Dr. C. W. Beckett (USA)

Commission on High Temperatures and Refractory Materials (II.3)

Titular Members - Prof. O. Kubaschewski (Federal Republic of Germany)
Dr. B. C. H. Steele (UK)

(Enlargement of Commission from 6 to 8 Titular Members)

Commission on Soaps and Oleochemicals (VI.3.2)

Associate Member - Prof. T. Asahara (Japan)

Commission on Nomenclature of Inorganic Chemistry (II.2)

Associate Member - Prof. J. Riess (France)

Commission on Physical Organic Chemistry (III.2)

Titular Members - Dr. J. R. Penton (Switzerland) - Secretary
Prof. J. F. Bunnett (USA)
Prof. V. Gold (UK)
Prof. Ch. Rüchardt (Federal Republic of Germany)
Prof. A. Streitwieser (USA)
Dr. J. Toullec (France)

Commission on Spectrochemical and Other Optical Procedures for Analysis (V.4)

Associate Member - Dr. R. Müller (Switzerland)

APPENDIX D

SPONSORSHIP OF SYMPOSIA

APPROVED BY CORRESPONDENCE

THROUGH EXECUTIVE COMMITTEE

SINCE XXXI BUREAU MEETING

II International Symposium on Mycotoxins in Food
(Pulawy, Poland: 74.7.23 - 24)

IV International Conference on Raman Spectroscopy
(Brunswick, Maine, USA: 74.8.26 - 30)

IV Discussion Conference on Macromolecules
(Mariánské Lázně, Czechoslovakia: 74.9.2 - 5)

Biopolymer Interactions: Workshop on Physical Chemistry of Biologically Active
Assemblies
(Amsterdam, Netherlands: 74.9.2 - 6)

V International Conference of Organic Phosphorus Chemistry
(Gdansk, Poland: 74.9.16 - 21)

STATUTES REQUIRING POLICY DECISIONS BY EXECUTIVE COMMITTEE

No.

- 4.1 The introduction of "Standing Committees" was agreed (in line 54 after "Committee", and as necessary in other Statutes: 4.2, 5.1, 5.404, etc., and Bylaws).

This would require either an addendum to Statute 8 or a new Statute 9 to define "Standing Committees". They would be limited to Finance, Publications, Statutes and Bylaws. All other bodies attached to the Bureau would become (Interdivisional) Commissions.

- 4.2 The possibility of appointing Members of IUPAC bodies between Conferences should be permitted. The following additional sentence was approved:

"The Bureau in exceptional circumstances may authorize an appointment to Standing Committees, Division Committees, Sections, Commissions, and Sub-Commissions to begin at an intermediate date".

Any such appointment should be regarded as dating from the previous Conference in respect of the period of office for Division Committees, Sections, Commissions, and Sub-Commissions.

- 4.4. The following wording for a new Statute was approved:

"For purposes of legal domicile the Union is accepted by Finanzdirektion des Kantons Zürich as an Association under Swiss Law and for legal purposes the Union will act in accordance with Articles 60 and following of the Swiss Civil Code and by the present Statutes".

- 5.1 The majority of Members of the Executive Committee were against the principle of "one country - one vote", preferring to retain the system of votes per membership category.

- 5.1 (and proposed new 12) Consideration of the suggestion that Company Associates might be offered a statutory voice at a high level in the affairs of the Union was deferred, pending developments of the new initiatives to establish National Company Associate Groups. The Executive Committee sympathized with the opinion of Sir David Martin that the views of Company Associates should be expressed to the Bureau through their National Adhering Organizations.

- 5.31 The Executive Committee was against allowing voting by proxy. A sentence to this effect should be included in the Statutes. However, it was agreed that a letter, expressing the views of an absent National Adhering Organization, might be read out to the Council.

- 5.401 It was decided to state specifically in the Statutes that the period of office for the Vice-President and Secretary General begins at the close of the Conference at which they are elected. This might be done by inserting "Officers" before "Members" in line 6 of Statute 4.2.

(For period of office of Treasurer, see later under Statute 6.52)

- 5.406(ii) The wording should be left unchanged. However, the Bureau (Executive Committee) should decide, prior to each Conference, which of the bodies attached to it should be asked to report to Council.

- 6.31 It was agreed to make a general statement, possibly under Statute 6.1, that all Officers shall be elected at a regular meeting of Council.

- 6.32 This should be amplified to confirm that it is without prejudice to his forthcoming period of office as President.

- 6.42, 6.52 The Executive Committee was firmly of the opinion that the maximum period of office for the Secretary General and for the Treasurer should be eight years (i.e., they are only eligible for reelection for one period of four years).

- 6.52 The status of written comments concerning the proposal of the German Delegation to change the period of office of the Treasurer (Minute 16/73, XXVII/C) was as follows:

In favour	-	19
Against	-	3
No reply	-	22

44

Several Members of the Executive Committee concluded that the proposal should be considered as carried. However, at the suggestion of the President, it was agreed that two forms of wording should be drafted for the period (to cover the existing period and that proposed by the German Delegation). These should be brought before the Bureau later in the year, together with the detailed views expressed in writing by France and UK.

- 7.2 Council should state which bodies attached to the Bureau should have their Chairmen as ex officio Members of the Bureau. It was agreed that ex officio Members of the Bureau should have no voting rights.

The Executive Committee was not in favour of specifying a maximum number of Elected Members of the Bureau.

- 8.1. The following additional sentence was approved:

"The Executive Committee may formulate standing orders to facilitate its discharge of the foregoing functions."

Such standing orders should not be included in the same booklet with the Statutes and Bylaws.

- 8.2 Although the principle of fair geographical representation should be borne in mind with respect to the Elected Members of the Executive Committee, it should not be stated in this Sub-Section.

Alter the wording in lines 35-37 to read:

"The period of service of an Elected Member shall be four years or until the end of his term as a Bureau Member, whichever is the shorter."

- 10.1 The wording should be amended to allow other bodies of the Union than the Divisions to undertake scientific work.
- 10.4, 10.5 The implications of discontinuing the existence of Sections should be drawn up by the Committee on Statutes and Bylaws, so that the Bureau could decide later in the year whether to recommend discontinuation.
- 10.6 The implications of the necessity for creation, continuation, and dissolution of Sub-Commissions by Council (see also Bylaws 4.1061 and 4.1062) should be drawn up by the Committee on Statutes and Bylaws for consideration by the Bureau later in the year. The Executive Committee suggested that these responsibilities of Council might be transferred to Division Committees.
- 13.3 Sir David Martin reaffirmed his view that changes in the Statutes should not be made lightly, with which the Executive Committee agreed. It was decided not to amend the voting regulations in this Sub-Section.
- 14 and Bylaw 6 Bylaws are an amplification of the Statutes. Dr. Ambrose should be advised of the need to retain both Statutes and Bylaws.

BYLAWS REQUIRING POLICY DECISIONS BY EXECUTIVE COMMITTEE

No.

- 2.11 The text should be reworded in terms of current practice, particularly to permit the Bureau to approve the publication of provisional nomenclature rules between Conferences.
- 2.12 The Executive Committee agreed with the interpretation that a postal vote by the Adhering Organizations is permissible to approve the publication of (final) nomenclature rules between Conferences. The Executive Secretary should bring to the attention of the Bureau any case where there would be undue delay in publication by awaiting the approval of Council.
- 2.222 Regarding the need to supply biographical notes for any additional nominations made by the Bureau, the Executive Committee felt that it would suffice to add wording along the lines "and provide information about such nominations".
- It was agreed not to leave the ballot procedure for Elected Members of the Bureau to be determined by the Bureau, but to specify in this Sub-Section the procedure used successfully at the XXV-XXVII Conferences. However, the ballot procedure for Elected Members of the Executive Committee (Statute 8.2) should continue to be determined by the Bureau.
- 4.102 The present policy for the Division Membership (see Bylaw 4.104), and not simply the Division Committee, to elect new Members of the Division Committee was reaffirmed by the Executive Committee.
- Alter "By-laws" in line 37 to "Rules".
- (i) The Vice-President of the Union should also be an ex officio member of all Division Committees. Also, a note should be added under Statute 6 to the effect that the President or his deputy is an ex officio member of all IUPAC bodies.
 - (ii) If all Chairmen of Sections (and Commissions where no Sections exist) were automatically Members of their Division Committee together with the Division Officers, in some cases there would be no independent Members. The Executive Committee preferred that where Chairmen were not Members of the Division Committee, they should be invited to its meetings.
 - (iii) The Executive Committee was against allowing ordinary Membership of Division Committees to be extended beyond four consecutive years.
 - (iv) It was agreed that there should be a maximum of ten consecutive years as an ordinary Member and Officer on a Division Committee, eight consecutive years as Division Secretary, and two years only as Division Past-President.
 - (v) The power of cooption to a Division Committee is a matter for the Divisional Rules. Coopted Members should not, however, be included in the Comptes Rendus membership lists.

- (vi) The possibility to have National Representatives to a Division Committee is a matter for the Divisional Rules. Such National Representatives should not, however, be included in the Comptes Rendus membership lists.
- (vii) The possibility of having "Working Parties" attached directly to a Division Committee is a matter for the Divisional Rules. Such "Working Parties" should not, however, be included in the Comptes Rendus membership lists.
- (viii) The Executive Committee did not agree that the principle of fair geographical representation should apply to Membership of Division Committees. It should be taken into account, but expertise was a more important consideration.

4.104 "Section Committees" are simply "Sections" in some current practice.
(and Statute The wording should be amended if necessary.
10.4)

4.105 The Executive Committee was against the suggestion that the President of the Union should appoint the Division Presidents.

Delete "one or more Vice-Presidents".

4.110 Delete the last sentence, because a maximum is now recommended for the number of Titular Members of a Commission (see below under Bylaw 4.1303 (x)).

Prior to Directives regarding membership and activities of Sections should be
4.13 drafted by the Committee on Statutes and Bylaws if it believes that the existence of Sections should be continued (see above under Statutes 10.4, 10.5)

4.1303 (i) The Executive Committee agreed that the choice of persons for the ad hoc Committee to study the need to create a new Commission inevitably prejudiced its recommendation to the Bureau. However, no action was contemplated on the matter.

(ii) Although cumbersome, the approval of nominated Titular and Associate Members by their respective Adhering Organization was important for some countries and should be retained.

In the case of disapproval, it should be left to the judgement of the relevant Division whether to propose an alternative person, otherwise the Bureau (Executive Committee) or Council should examine the matter as specified in this Sub-Section.

There was no support for the suggestion that, in the case of disapproval, the person should be (re)nominated as a Member (at large) representing the international scientific community.

(iii) The following additional sentence should be added at line 48 on page 13:

"Notwithstanding Statute 4.2 and the foregoing, a Division President may, for exceptional reasons, replace a Member of a Commission between General Assemblies by special permission of the Bureau"

- (iv) In order to discourage the practice, wording to the following effect might be added at line 48 on page 13:

"The rotation of persons through alternate periods of Titular and Associate Membership is prohibited without special permission of the Bureau."

- (v) The Suggestion of a maximum of ten years for consecutive service as a Titular Member and Officer was accepted by the Executive Committee, otherwise Titular Membership should be limited to eight consecutive years.

- (vi) Reword lines 52-53 on page 13 as follows:

"The number of Associate Members of a Commission shall not normally exceed the number of Titular Members but, in exceptional cases, may be increased to twelve by a decision of the Bureau."

- (vii) In view of (iii) above, it was unnecessary to consider the suggestion of an initial term of up to four years for Titular Membership.

- (viii) The Executive Committee believed it was unnecessary to add at line 36 on page 13:

"except in the election of Members of the Division Committee"

- (ix) Contrary to the previous interpretation (Minute 459, LXV/EC) of "Membership" (line 45) as meaning "Titular Membership" (and "Members" (line 43) as meaning "Titular Members"), the Executive Committee was now convinced that there should be a maximum period of service for Associate Members.

Delete "these" from line 42 on page 13.

- (x) Reword lines 50-52 on page 13 as follows:

"The number of Titular Members of each Commission shall not exceed eight."

- (xi) The Executive Committee reaffirmed the desirability for the Chairman of a Commission to explain to candidates their duties and obtain their agreement to serve before submitting their names for election to Membership.

- 4.1304(a) (i) It was agreed that it should also be possible for an Adhering Organization to approve the nominee of a Commission.
- (ii) There is no implication that a National Representative is nominated to attend a specific meeting of a Commission, but he has a permanent existence.
- (iii) National Representatives are intended primarily to effect liaison between a Commission and their respective countries, but they may participate in its scientific work.

- 4.1304(b) The possibility should be allowed of an Observer for bodies other than a national delegation, e.g., representatives of UN agencies, CEE, etc.
- 4.1307 The suggestion that greater precision is needed with regard to the period of office is covered by Bylaw 4.1303(v) above.
- 4.1308, 4.1309 (or a new 4.2) The need to detail procedures for Project Groups will depend on the implications for continuation of Sub-Commissions (see Statute 10.6 above).
- 4.1309 In case of a meeting held without financial expense to the Union, any decisions reached must still be referred for approval of the Division President.
- 4.1311 Provisional reports, especially of nomenclature rules, should also be forwarded via the Division Committee to the Bureau, but not then to Council (see revision of Bylaw 2.11 above).
- 5 The Editorial Board is now the Publications Committee. The latter will be a Standing Committee (see Statute 4.1 above). It was thought advisable not to specify directives regarding Publications of the Union in a Bylaw, but to deal with the matter via Standing Orders for the Publications Committee. From time to time guidelines should also be issued by letter to Division Presidents and Officers of Commissions.

This Bylaw may now be deleted.

- New 5 The following wording was approved by the Executive Committee:

"Associated Organizations"

- 5.1 The Bureau, having satisfied itself that the claims and activities of an organization seeking to become an Associated Organization of the Union are in accordance with Statute 11, may recommend acceptance to associate membership by Council provided that
- (a) the period of existence of the applicant organization has been adequate to establish its stability and the quality of its activities;
 - (b) the Statutes and Bylaws of the organization do not conflict with the Statutes and Bylaws of the Union;
 - (c) the activities of the organization neither duplicate nor are in conflict with the legitimate functions of the Union such as regulation, standardization or codification or other matters of scientific importance.
- 5.2 The Union shall invite Associated Organizations to send representatives to its General Assembly and to relevant meetings of IUPAC bodies when joint sponsorship of meetings or other joint activities may be discussed.

- 5.3 The Union shall offer assistance in publicizing meetings of Associated Organizations.
- 5.4 The Union shall present to Associated Organizations such particulars as are decided by the Officers of the Union to be relevant to joint activities."