

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 87th MEETING OF EXECUTIVE COMMITTEE

held at

AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC

SUNDAY, 6 MARCH 1977: 9.00 - 17.00

MONDAY, 7 MARCH 1977: 9.00 - 15.50

PRESENT:

Dr. R. W. Cairns	-	President, in the Chair
Prof. Sir Harold Thompson	-	Past-President
Prof. G. Smets	-	Vice-President
Prof. G. Ourisson	-	Secretary General
Prof. O. Horn	-	Treasurer
Prof. Sir Derek Barton		
Prof. N. M. Emanuel		(in part)
Prof. H. Suomalainen		

IN ATTENDANCE:

Dr. B. W. Rossiter	-	Chairman, CHEMRAWN Planning Committee (in part)
Dr. M. Williams	-	Executive Secretary

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Minute 1/77

INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

In his opening remarks, Dr. Cairns said that Prof. Emanuel's travel arrangements from Moscow would only permit his attendance on 7 March.

The Executive Secretary gave details of changes (as at 3.3.77) to the Agenda circulated prior to the meeting (11.2.77). At the request of Sir Harold Thompson, a further item was added

3.1.4 Involvement of Younger Chemists in IUPAC Affairs

Minute 2/77

MINUTES OF 86th MEETING OF EXECUTIVE COMMITTEE

2.1/77 Amendments and Approval of Minutes

The Minutes of the 86th Meeting of the Executive Committee were approved.

2.2/77 Matters Arising from Minutes

2.2.1/77 Increasing Relationship with WHO (Minute 15.2.1/76)

Preliminary consideration was given to a report of a recent visit to WHO headquarters (Geneva, 17.2.77) by Dr. H. Egan (President, Applied Chemistry Division) and Dr. M. Roth (President-Elect, Clinical Chemistry Section). Practical possibilities for increasing collaboration, particularly in the WHO environmental health criteria programme, had been identified. For the present the Executive Committee agreed to maintain the President plus IUPAC Secretariat as the prime contact within the Union for WHO interests.

2.2.2/77 Recommendations of Usage of the Terms "Equivalent" and "Normality"  
(Minute 15.2.2/76)

In the unavoidable absence of Prof. H. M. N. H. Irving, the Interdivisional Committee on Nomenclature and Symbols (Oxford, 16-18.9.76) had reached unanimous agreement on a statement about equivalent amount of substance for transmission to ISO. However, Prof. Irving was unable to accept the view that an agreed definition of "equivalent" was impossible, and he had stressed the need for it by a large number of practising analytical chemists. The President had, therefore, approved a proposal from Prof. T. S. West (President-Elect, Analytical Chemistry Division) to convene a meeting (York, 17.3.77) of Prof. Irving with Prof. D. H. Whiffen, to try and produce a definition which would find universal acceptance. The Executive Committee was concerned that the delays in dealing with the matter gave an unfavourable impression of the workings of IUPAC, especially to ISO.

2.2.3/77 Increasing Relationship with SCOR (Minute 15.2.3/76)

Following IUPAC participation in the 1976 Joint Oceanographic Assembly, 19 SCOR Working Groups had been identified whose interests included some chemical aspects in common with the Union. In addition, 21 IUPAC projects were of interest to SCOR. There was no SCOR Working Group concerned with chemicals and chemistry of the oceans, nor was it considered necessary for IUPAC to develop individual programmes in these areas. Preferably a liaison network should be set up between the necessary individuals at a working level in the two organizations.

The Executive Committee decided not to appoint an official representative to SCOR at this time, but to allow the IUPAC contact to remain focussed in the Applied Chemistry Division. Initiation of the liaison network could be discussed by the Division Presidents and ICAG in Warsaw.

#### 2.2.4/77 SCOPE (Minute 15.2.5/76)

The President reported on his efforts to improve and consolidate the IUPAC position with regard to SCOPE. A vacancy existed on the SCOPE Executive Committee for a person from a developing country and three persons of recognized IUPAC background and chemical experience had been suggested by Dr. Cairns. The Executive Committee was strongly in favour of the best relevant IUPAC chemist to effect the liaison with SCOPE.

#### 2.2.5/77 Revision of IUPAC Organic Nomenclature Rules (Minute 15.2.7/76)

Société Chimique de France had recently contributed FF10,000 towards the revision, and the Executive Committee agreed to pay to Chemical Abstracts Service the outstanding US-\$1,593.10 for work to the end of October 1975. Dr. Cairns reported that the revision was not yet complete. CAS hoped to finish the work before the Warsaw General Assembly, at no additional cost to the Union.

Minute 3/77

### MINUTES OF MEETINGS OF BUREAU, DIVISION PRESIDENTS, AND STANDING COMMITTEES

#### 3.1/77 36th Bureau

The Minutes of the 36th Meeting of the Bureau were recorded as having been received officially by the Executive Committee.

#### 3.1.1/77 Collaboration with ISO (Minute 2.2.1/76)

The Executive Secretary reported that a uniform mechanism was now being set up for handling ISO International Standards expeditiously through the Division Presidents. A proposal was accepted by the Executive Committee, in the case of nomenclature/symbols documents, for the authority to grant IUPAC approval to revised ISO Standards to be delegated, on behalf of the Bureau, to the Chairman of the Interdivisional Committee on Nomenclature and Symbols.

#### 3.1.2/77 Approval of New Members of IUPAC Bodies (Minute 2.2.4/76)

The Executive Secretary reported that the IUPAC National Committee of GDR had belatedly endorsed the nomination of Prof. G. Ackermann as a new Associate Member of the Commission on Analytical Reactions and Reagents. Therefore, it had not been necessary to delete his name from the current membership records of the Union.

#### 3.1.3/77 Contract Work with CEE (Minute 15.3/76)

The President had written to the CEE Director General for Agriculture, urging him to convene a meeting between CEE experts and relevant IUPAC bodies to facilitate progress in the contract work. It was decided to follow up with a telegram, pressing for an answer. Prof. Smets agreed to make a personal intervention if necessary.

The Executive Secretary reported that several methods were still outstanding for fulfillment of the 1976 contract. Some methods had been sent to the Secretariat inadequately edited and in a form not facilitating submission to CEE. The documents had been returned for further attention by the Coordinating Committee for Analytical Methods: this action was endorsed by the Executive Committee, and the President was asked to send an appropriate letter to the Chairman of CCAM. There was no need to alert CEE to delay in expediting the 1976 contract, because CEE was itself well behind in processing methods submitted by the Union under earlier contracts.

The Executive Committee noted that Prof. R. Truhaut would complete his term as Chairman and Prof. R. Belcher and Dr. H. Egan as Members of CCAM in 1977. The President was asked to write to Prof. Truhaut for his recommendations, suggesting Dr. P. L. Schuller as a possible new Chairman.

### 3.1.4/77 Involvement of Younger Chemists in IUPAC Affairs (Minute 2.2.3/76)

Sir Harold Thompson said that the Wates-IUPAC Bursaries Subcommittee of the British National Committee for Chemistry had met recently to review the operations of the past year and to consider new applications for Bursaries in 1977. Of the Bursaries awarded in 1976, 8 had already attended meetings of various Commissions and 5 would be participating in the General Assembly at Warsaw. About 8 more appointments had been made for 1977. The reports of the Bursars for 1976 meetings showed that they derived great benefit from seeing Commissions at work and took a positive part in the proceedings. Clearly, the scheme was an outstanding success in attaining the objectives of interesting younger chemists in IUPAC work and in providing a basis for later recruitment to Commissions.

Dr. Cairns reported that the US National Committee for IUPAC had now obtained financial support from the American Petroleum Research Fund administered by ACS in order to assist some 8 young chemists from USA to go to Warsaw as observers at Commission meetings. Sir Harold Thompson hoped that other member countries of the Union would now feel it worthwhile to take similar initiatives.

### 3.2/77 Division Presidents (12.9.76)

The Minutes of the meeting of Division Presidents at Le Bischenberg, Strasbourg, on 12 September 1976 were recorded as having been received officially by the Executive Committee.

### 3.2.1/77 Distribution of IUPAC Publications (Minute 2/76)

Dr. R. N. Jones was concerned to see IUPAC publications made available more widely and free of charge, especially reprints of final nomenclature/symbols recommendations and other Commission reports from PAC. He was in favour of distributing the Comptes Rendus and Information Bulletin to members of IUPAC subcommittees. The need for wider dissemination of Commission recommendations was supported by Dr. E. D. Becker (Chairman, Commission on Molecular Structure and Spectroscopy), who had made a number of suggestions and queried whether reproduction of final recommendations should still be restricted to National Adhering Organizations and appropriate national societies.

Sir Harold Thompson and the Treasurer were firmly opposed to allowing free reproduction from PAC by commercial publishers, which might undermine the basis of the official publishing contract of the Union with Pergamon Press. However, Sir Harold Thompson was in favour of including an item in the annual budget to cover chemical public relations of the Union, which could embrace dissemination of IUPAC recommendations. In

order to increase adherence to the recommendations, Sir Derek Barton suggested that an appropriate letter be sent to about 50 major primary chemistry journals. While the Executive Secretary was anxious to give practical support in these various matters, the limitations of both staff and finance of the IUPAC Secretariat must be borne in mind.

The Executive Committee decided to refer the whole question of dissemination of IUPAC documentation for consideration by the Committee on Publications. Relevant financial facts should be provided by the Secretariat, so that firm proposals for future action could come forward for adoption by the Bureau.

### 3.2.2/77 Duties of Officers: Bibliography (Minute 2/76)

The need for incoming Officers of Divisions and Commissions to be made aware more clearly of their responsibilities might be overcome by updating the pamphlet "Duties of Officers: Bibliography" (Inf. Bull. No. 23, 1965). The Executive Committee felt that the Division Presidents themselves should undertake the updating, by collecting guidelines applicable to all Divisions based on their accumulated expertise. At least two Divisions, Physical Chemistry and Analytical Chemistry, were in process of revising their internal rules to bring them in line with the Statutes and Bylaws adopted in Madrid.

### 3.2.3/77 Difficulties Arising from Revised Statutes and Bylaws (Minute 5/76)

Council at Madrid had recognized the need for care to be exercised during the first two years of implementing the revised Statutes and Bylaws. However, despite an invitation for each Division President, together with his Division Committee and Commission Chairmen, to look into the matter, no difficulties had so far been referred for consideration by the Executive Committee. Any difficulties notified at Warsaw or earlier would be decided on their merits. Commissions requesting extensions of membership beyond statutory periods should provide exceptional reasons in writing, preferably in advance of Warsaw, to the Bureau.

### 3.3/77 Interdivisional Committee on Nomenclature and Symbols (16-18.9.76)

The Minutes of the meeting of IDCNS at Oxford on 16 - 18 September 1976 were recorded as having been received officially by the Executive Committee. The Secretary General was still awaiting a communication from the Chairman of IDCNS about the possibility for IUPAC to set up a body similar to IUB's Commission of Editors of Biochemical Journals.

#### 3.3.1/77 Recommendation on "Katal" (Minute 6(a))

IDCNS had proposed that IUPAC should request Comité Consultatif des Unités of Comité International des Poids et Mesures to consider for recommendation to the next Conférence Générale des Poids et Mesures a special name (katal) and symbol (kat) for the SI unit, mole per second, for use in the specific context of measuring the physical quantity, catalytic ability, an attribute of catalytic materials such as enzymes. Before proceeding further, the Executive Committee decided to refer the matter for attention of the new IUB-IUPAC Joint Commission on Biochemical Nomenclature (see Minute 13.2/77), to ensure that IUB also felt a need to establish the special name.

### 3.4/77 Interdivisional Committee on Machine Documentation (6-9.10.76)

The Minutes of the meeting of IDCMD at Lenzerheide on 6 - 9 October 1976 were recorded as having been received officially by the Executive Committee.

### 3.4.1/77 Recommendation for Dissolution

A report was received from IDCMD carefully and critically reviewing its remit, its work to date, and the ideas of Members on what should be done in future. There was general agreement that the remit was not sufficiently well defined or well conceived; also, that the problem area which IUPAC was trying to tackle was too broad to be dealt with by a single body with single remit. The unanimous recommendation of IDCMD that it should be wound up was accepted by the Executive Committee and would be conveyed, via the Bureau, to Council at the 29th General Assembly. There was no need for IDCMD to meet in Warsaw.

Sir Harold Thompson reported that, much to his dismay, the IUPAC International Symposium on Techniques for Retrieval of Chemical Information (London, 9-10.11.76) had failed almost completely to attract the interest of working chemists themselves. The majority of participants had been actual information experts.

### 3.5/77 Finance Committee (14-15.2.77)

The Minutes of a meeting of the Finance Committee at Zürich on 14-15 February 1977 were recorded as having been received officially by the Executive Committee, and a list of recommendations for its consideration was noted.

#### 3.5.1/77 Statement of Accounts for 1976 (Minute 4/77)

Following a few comments from the Treasurer, the revised accounts for 1976 and for the biennium 1975-6 were adopted for auditing and presentation to Council in Warsaw.

#### 3.5.2/77 Subscriptions from National Adhering Organizations (Minute 6.1/77)

The Executive Committee was unable to endorse the recommendation that not more than 25% of the minimum category payment be allowed to come from Company Associate income in a member country. Sir Harold Thompson said that it would be difficult for UK to follow such a ruling, the only alternative being to drop to a lower membership category. Prof. Horn felt that a similar situation might develop in FRG.

However, the Executive Committee agreed to recommend, via the Bureau, for Council in Warsaw to raise the basic unit of national subscription (presently US-\$550) by 15% for 1978 onwards.

#### 3.5.3/77 Company Associates (Minute 7/77)

Because it would be difficult to enforce the recommendation of the Finance Committee, it was adopted with a change in emphasis, namely that a National Adhering Organization should be advised to retain not more than 10% of collected Company Associate subscriptions, to cover administration and promotion of the scheme.

#### 3.5.4/77 Per Diem Subsistence Allowance (Minute 8/77)

Contrary to the view of the Finance Committee, the Executive Committee decided that the per diem subsistence in general for the rest of 1977 should be raised to US-\$37.50. This was in line with the current rate of inflation in USA compared with 1976. The Treasurer voted against this decision.

### 3.5.5/77 Guidelines for IUPAC Financial Operations (Minute 9/77)

Guidelines developed by the Finance Committee for IUPAC financial operations were approved by the Executive Committee. The Executive Secretary had been requested to revise the draft version of the actual financial procedures.

### 3.5.6/77 Budgets for 1977, 1978, and 1979 (Minutes 10, 11, and 12/77)

Revised budgets for 1977 and 1978 and a draft budget for 1979 (all as of 15.2.77: see Appendixes A, B, and C) were accepted by the Executive Committee. It was noted that the Treasurer should propose allocations in 1978 from the US-\$174,500 itemized for Travel, Subsistence, Administration of IUPAC Bodies, and that an attempt should be made to limit expenditure on the General Assembly in 1979 to US-\$200,000.

### 3.5.7/77 Membership (Minute 15/77)

There was a division of opinion within the Executive Committee regarding two possible Members of the Finance Committee to succeed Dr. J. W. Barrett as its Chairman after Warsaw. It was left for the President to make a decision about the appointment. A suggested candidate to fill the vacancy on the Finance Committee was noted.

### 3.5.8/77 1978 Meetings of Finance Committee and Executive Committee (Minute 16/77)

If the Executive Committee could meet on about 20 - 21 March 1978, it should be possible to precirculate the actual minutes of the 1978 Finance Committee deliberations (Zürich, 20-21.2.78) rather than table them at the Executive Committee meeting. The suggestion would be reconsidered at Warsaw. Care should be taken not to clash with the Spring 1978 meeting of ACS.

### 3.6/77 CHEMRAWN Planning Committee (16.2.77) (Dr. Rossiter in attendance)

Because the Minutes were not yet available, Dr. Rossiter presented an interim report on the deliberations of the CHEMRAWN Planning Committee in Zürich on 16 February 1977. The President was keen to see the revised statement on CHEMRAWN and the 1978 World Conference on Future Sources of Organic Raw Materials publicized widely.

Arrangements for the plenary lectures at the World Conference were well advanced, and planning for the technical sessions was in progress. The organizers would shortly be contacting the Union with a view to deciding on publication commitments with Pergamon Press. A first circular was about ready for distribution. In addition to covering all expenditures of the World Conference, it was hoped to repay the financial loan from IUPAC. Dr. Cairns and Prof. Horn advised that any surplus funds should be set aside for mounting future CHEMRAWN activities.

Although the CHEMRAWN Planning Committee had identified some possible future projects, the Executive Committee felt that nothing major should be attempted until the success, especially financial, of the 1978 World Conference could be evaluated. Use of the CHEMRAWN label for other meetings should be controlled carefully as to quality by the Planning Committee. The latter should, in any case, remain ad hoc for the present and not be formalized at least until after 1978.

Dr. Rossiter was invited to present a brief formal report to Council at Warsaw (see Minute 5.2/77), covering development of the CHEMRAWN concept since Madrid.



FINANCIAL MATTERS

4.1/77 Subscriptions from National Adhering Organizations

The problem of outstanding payments from Republic of Vietnam no longer existed after statutory expulsion from the Union at the end of 1976. On the advice of ICSU, the Executive Secretary had written to the relevant chemical authority in Hanoi about membership of IUPAC by the Socialist Republic of Vietnam.

Because of poor financial circumstances, Sociedad Química de México wished to move retrospectively to a lower membership category of the Union. As a precondition for consideration by the Executive Committee, the President had stipulated that payment of the 1974 subscription should be completed and partial payment of the 1975 subscription made. Neither payment had yet been received by the IUPAC banker in Zürich, and the Executive Committee therefore had no alternative but to consider Mexico as having ceased automatically to be a member of the Union (Statute 9.2). The Secretary General was asked to suggest that Consejo Nacional de Ciencia y Tecnología might apply for reinstatement of Mexico as a member country.

An analysis for 1975-6 by the Treasurer of income and expenditure subdivided by countries was presented. The Executive Committee supported the suggestion of the Finance Committee (Minute 6.3/77, Zürich) that statistics should be collected for at least two more years to see if any definite trends could be recognized. A further paper by Prof. Horn, showing national breakdown of Titular and Associate Members of IUPAC bodies, was to be revised and extended for reconsideration by the Finance Committee (Minute 6.4/77, Zürich).

4.2/77 Ratification of Authorizations for Payment by IUPAC Bodies

The decision reached by postal ballot within the Executive Committee, to amend the present policy (Minute 23.2/75, 83rd Executive Committee - Madrid) on authorizations for payment by the IUPAC banker, was ratified. It would no longer be necessary for the Treasurer to obtain a counter-signature of another Officer in order to effect payments above US-\$450. This should save valuable time in expediting the financial business of the Union, especially when dealing with claim forms for meetings. Only, and exceptionally, if the Treasurer had any serious doubt about a particular expenditure should he seek the endorsement of another Officer.

4.3/77 Principles for Claims from IUPAC

Regarding difficulties arising from payment of the per diem allowance by cheque (Minute 6.3(i)76, 36th Bureau), the Executive Committee endorsed the Finance Committee support of the Treasurer's proposal for payment of total subsistence monies by a single cheque, cashable by a participant resident in the country of the meeting. Contrary to the view of the Finance Committee (Minute 3/77, Zürich), this method should be applied to all participants and not merely to those from soft-currency countries.

In the case of payments by cheque to members of IUPAC bodies, the IUPAC banker should seek procedures for avoiding bank charges by the recipients.

#### 4.4/77 Proposal for Scientific Associates of IUPAC

The President presented a proposal for a new class of membership, which would identify individuals as financial contributors to the Union. Administration would be undertaken by the National Adhering Organizations, collected monies being allowed to count towards the annual subscriptions of the member countries. It was agreed that Dr. Cairns should refer the proposal for consideration by the US National Committee for IUPAC. Sir Harold Thompson suggested that details should be found of a similar scheme operated by IAU.

Minute 5/77

#### 29th IUPAC GENERAL ASSEMBLY (Warsaw, 1977)

##### 5.1/77 Status Report on Arrangements

A report was available from the Assistant Secretary, Miss A. Troughton, covering her visit to Warsaw with Mr. R. Ratcliffe of TWCO on 15 - 17 November 1976, and budgetary discussions with the Treasurer in Frankfurt on 18 November. A further report summarized the position as at 2 March 1977.

The Executive Committee reaffirmed the directive of the President (letter of 20.1.77) that IUPAC was unable to accept changes proposed recently by ORBIS to the hotel price structure specified in July 1976. At the suggestion of Dr. Cairns, a letter was being sent to all participants stressing that some inconveniences were beyond the control of the Union. Many details remained to be settled. Miss Troughton would be in Warsaw during 4 - 6 May 1977 to try and complete the arrangements.

A telephone call to the Secretariat from the Polish organizers (4.3.77) had indicated a subsidy of 700,000 zlotys from the Polish Academy of Sciences (less than the budget as of 7.12.76), and given preliminary information on various social functions. The Executive Committee preferred 13 August 1977 for the main reception (500 persons), and the lecture by the Deputy Minister of Chemical Industry should be on 20 August. It was unwilling for the provision of mineral water at meetings to be charged against the subsidy.

Dr. Cairns asked the Executive Secretary to check into the basis of the commission for TWCO in its travel and accommodation arrangements for the Union.

##### 5.2/77 Council Agenda

A draft agenda was tabled by the Executive Secretary. The Executive Committee agreed that the following item should be added

Important Matters Discussed by Bureau at  
General Assembly Not Covered by Items on  
Council Agenda

as suggested by Sir Harold Thompson to Council at Madrid (Minute 24/75). Provision would also be needed to consider "Applications for Membership of IUPAC" (see Minute 6.1/77). In view of their wider appeal, the Finance Committee and Committee on Publications should continue to report to the Bureau. All other Standing Committees, including Committee on Teaching of Chemistry, should report to the Bureau. The National Adhering Organizations had been invited by the Secretary General (letter of 20.1.77) to submit items for the agenda by 19 April 1977 (Bylaw 2.25).

### 5.3/77 Elections

The Executive Secretary summarized the position with respect to nominations received to date for the Vice-Presidency and for Elected Members of the Bureau. Various contingencies were considered by the Executive Committee.

### 5.4/77 Proposal for Standing Committee on Scientific and Technical Communications

The President tabled a number of documents dealing with longterm problems of primary communication of scientific information via the journal system and of documentation systems (secondary services). He proposed that IUPAC should contribute to the resolution of these problems by establishing a new Standing Committee. Sir Derek Barton was not convinced that IUPAC needed an ad hoc Committee to look into the proposal: the financial implications of future publishing would dictate what would happen in practice. In view of the poor financial outlook of the Union, the Treasurer expressed his strong personal opposition to the creation of any new Standing Committees at this time. The Executive Committee decided not to proceed with the proposal.

### 5.5/77 Proposal for Standing Committee on Chemistry and Industry

The informal scheme for greater collaboration between IUPAC Company Associates, developed at the 27th IUPAC Conference in Munich during 1973, had been modestly successful. In order to stabilize and extend the collaboration, Dr. J. W. Barrett had proposed that a Standing Committee responsible to the Bureau for Chemistry and Industry, now be formed. It was anticipated that industry would support financially some members of the Committee. The Executive Committee agreed to ask the Bureau to recommend adoption of the proposal by Council at Warsaw. The Treasurer was against the proposal considering the financial forecast for 1978/9.

### 5.6/77 Arrangements for 30th IUPAC General Assembly

Schweizerisches Komitee für Chemie had assessed several possible locations in Switzerland for the General Assembly in 1979. Davos was recommended as the most suitable place. Although transport costs from Zürich airport would be significant, accommodation costs and daily expense rates were favourable. The Secretariat was requested by the Executive Committee to prepare a full cost estimate for consideration by the Bureau. Miss Troughton should visit Zürich and Davos to obtain all necessary data.

Prof. Suomalainen presented the latest version of the scientific programme for the 27th IUPAC Congress (Helsinki, 27-31.8.79). Consideration was being given to a proposal for a CHEMRAWN symposium on "Mineral Resources of Northern Europe". A short report on arrangements for the Congress should be presented to Council in Warsaw.

Minute 6/77

### APPLICATIONS FOR MEMBERSHIP OF IUPAC AND ASSOCIATED ORGANIZATION STATUS

#### 6.1/77 Supreme Council of Sciences of Syrian Arab Republic

An application was considered for membership of the Union (Category C) by the Supreme Council of Sciences of the Syrian Arab Republic. The Executive Committee decided to recommend the application, via the Bureau, for acceptance by Council at Warsaw. An appropriate item should be added to the Council agenda (see Minute 5.2/77).

## 6.2/77 International Association for Cereal Chemistry

An application for admission to ICSU by the International Association for Cereal Chemistry had been referred back with the suggestion that affiliation to IUPAC was more appropriate. A formal application had now been received from ICC for Associated Organization status of the Union. The Executive Committee decided to recommend the application, via the Bureau, for acceptance by Council at Warsaw.

Minute 7/77

### LOCATIONS OF 31st IUPAC GENERAL ASSEMBLY AND 28th IUPAC CONGRESS

Despite requests for Members of the Bureau (letter of 3.12.76) and for National Adhering Organizations (letter of 20.1.77) to investigate possibilities, no invitations had yet been received from member countries to host the 1981 General Assembly and Congress of the Union. If necessary, the President would make an informal approach to selected individuals regarding the Assembly, drawing attention to the possibility of using university facilities for accommodation in order to curtail expenditure for IUPAC.

Sir Derek Barton wondered if there was still a continued need for the IUPAC Congress, especially in view of the large number of symposia now sponsored each year by the Union. It was noted that Statute 13.1 did not specify the frequency with which Congress should be held. Therefore, Congress need not follow the present biennial pattern. The Executive Committee decided not to make any more solicitations to host the 1981 Congress and, if necessary, to recommend Council in Warsaw not to organize a Congress in that year.

Minute 8/77

### REPORT OF AD HOC COMMITTEE ON NUCLEAR AND RADIOCHEMISTRY

No advice was yet forthcoming from the Inorganic Chemistry Division Committee (see Minute 8/76, 36th Bureau) and consideration of this item was deferred. However, the future financial situation of the Union seemed to preclude creation of a new Commission on Nuclear and Radiochemistry.

Minute 9/77

### NAMES FOR ELEMENTS 104, 105, AND FOR 106 ONWARDS

IUPAP had not proposed replacements for Profs. U. Stille and A. Baumgartner on the neutral group of experts (Minute 11/76, 36th Bureau). Because it now appeared that element 104 was considered doubtful and element 105 even more so, IUPAP wondered whether at the moment there was any point in trying to establish priority of discovery in each case. Dr. Cairns had been advised by other parties that Prof. K. W. Bagnall (UK) and Prof. G. Herman (FRG) might be suitable new members of the neutral group. He had written (24.2.77) to the Berkeley and Dubna groups, urging submission within one month to Prof. J. Lewis of drafts of the history of their work and respective views on the naming of elements 104 and 105.

Prof. G. N. Flerov had proposed (letter of 17.2.77) that a meeting of the neutral group should be convened with other interested parties at Dubna during September - November 1977. However, Prof. Emanuel felt that it was unlikely the Berkeley group would participate, and he preferred the meeting to be held in USA.

Provisional recommendations for the systematic naming of elements of atomic numbers greater than 105 had duly been published by IUPAC (December 1976). Sir Derek Barton pointed out that the Bureau at Strasbourg had decided the systematic names should commence with element 101. The Executive Committee reconfirmed that systematic names for elements 101 - 103 were to be regarded as alternates to the trivial names already accepted by the Union; whereas the systematic names for 104 and 105 were the only IUPAC recommendations pending its assignment of trivial names.

Minute 10/77

## NOMINATIONS OF NEW OFFICERS AND MEMBERS OF IUPAC BODIES

### 10.1/77 Ratification of Nominations Approved by Correspondence

The nominations of new Officers (Bylaw 4.303) and Members (Bylaw 4.304) of IUPAC bodies, approved by correspondence through the President/Executive Committee since the 36th Bureau meeting (see Appendix D), were ratified by the Executive Committee. Dr. A. M. Anthony (Commission on High Temperatures and Refractory Materials) was a late addition to the details in the papers for the meeting.

It was confirmed that 1975 - 1979 was a correct assignment of period where the appointments constituted filling of casual vacancies between General Assemblies (Statute 4.2). Prof. Smets was concerned that in some cases there was an effective loss of two years of service. This should be borne in mind as an exceptional reason for extending Titular Membership in due course beyond eight years.

### 10.2/77 Nominations of New Officers and Members

The following nominations for Associate Membership (1975 - 1979) of the Commission on Nomenclature of Organic Chemistry, supported by the President of the Organic Chemistry Division, were approved by the Executive Committee:

Dr. D. Eckroth (USA)  
Prof. J. H. Fletcher (USA)

Prof. D. Hellwinkel (FRG)  
Prof. J. C. Richer (Canada)

### 10.3/77 Proposed Modifications to Approval Procedures

In the filling of casual vacancies on Commissions between General Assemblies, the Executive Committee decided that the President could approve appointments by correspondence on behalf of the Bureau, unless a meeting of the Bureau (or Executive Committee) was imminent.

It was confirmed that appointments to Standing Committees did not require approval of the Bureau nor of relevant National Adhering Organizations. However, the Executive Committee was of the opinion that there was an omission from the Statutes and Bylaws in not requiring appointments to Division/Section Committees to be approved by the Bureau nor by National Adhering Organizations. Pending a future revision of the Statutes, the situation could be covered pro tem by a recommendation from the Executive Committee for adoption by the Bureau.

The directives for filling membership vacancies on IUPAC bodies were now as detailed in Appendix E.

MATTERS ARISING FROM IUPAC BODIES

11.1/77 Financial Support for Committee on Teaching of Chemistry

The Executive Committee ratified the decision of the Treasurer that, if the Committee on Teaching of Chemistry wished to meet at Ljubljana in conjunction with the International Congress on Chemical Education (25-30.8.77), Members would be entitled to receive subsistence for only three days (plus one travel day). A sum of US-\$250 was allocated for administrative expenses of the Teaching Committee in 1977, which could be used to cover participation of its Secretary, Dr. D. J. Waddington, in the forthcoming meeting of the FECS Working Party on Chemical Education (Norwich, 14-16.4.77).

Some views were again expressed (see also Minute 6.4/76, 36th Bureau) that, with present limitations of funds available for activities of the Union, there were greater priorities than chemical education. However, the President hoped that the Teaching Committee would continue to submit new defined projects for consideration of initiation by IUPAC funding, in order to retain some financial independence of UNESCO (cf. Minute 3.7/74, LXXX Executive Committee - London).

11.2/77 Future of Food Chemistry and Pesticide Chemistry in IUPAC

Dr. Cairns elaborated his views regarding evolutionary development of the Applied Chemistry Division and the need to move towards a single Commission for both Food Chemistry and Pesticide Chemistry. The President of the Division had, however, expressed resistance to the phasing of such changes. Prof. Suomalainen agreed with Dr. Cairns that there was little progress in formulating viable programmes for the Commissions on Air Quality and on Water Quality. Nevertheless, as President-Elect he was dedicated to the concept of a vigorous and more widely based Applied Chemistry Division.

With the exception of Prof. Suomalainen, the Executive Committee agreed to recommend, via the Bureau, to Council that the Commissions on Food Additives and on Food Contaminants be combined into a Commission on Food Chemistry at Warsaw, with 12 Titular Members until 1979, after which there should be only 8 Titular Members. The Applied Chemistry Division Committee should consider a similar consolidation of the two Pesticide Commissions and a possible merger of the Commissions on Air Quality and on Water Quality, but it should come forward with definite proposals for the creation of other new Commissions.

A further meeting of the ad hoc Committee on Proposed Division of Environmental and Health Chemistry (Minute 9/76, 36th Bureau) had been convened for London on 5 April 1977, but Prof. Smets was doubtful if there were sufficient new views for discussion. It was left for him to decide whether to cancel the meeting.

11.3/77 Proposed Change of Name for Commission on Oils and Fats

A request had been received from the Commission on Oils and Fats, supported by the Applied Chemistry Division Committee, to change its name to Commission on Oils, Fats, and Derivatives. The Executive Committee would ask the Bureau to recommend Council to approve the change at Warsaw.

SPONSORSHIP: REPRESENTATION, SPONSORSHIP, SUBVENTION

12.1/77 Ratification of Sponsorships Approved by Correspondence

The sponsorship of symposia, approved by correspondence through the Officers/Executive Committee since the 36th Bureau meeting (see Appendix F), was ratified by the Executive Committee.

12.2/77 Ratification of Official Representatives to Symposia in 1977

The following official representatives of IUPAC to its sponsored symposia in 1977, appointed by the President, were ratified by the Executive Committee:

International Symposium on Clinical Chemistry and Chemical Toxicology of Toxic Metals  
(Monte Carlo, Monaco: 2-5.3.77) - Prof. D. B. Tonks

VI International Symposium on Magnetic Resonance  
(Banff/Alberta, Canada: 21-27.5.77) - Dr. E. D. Becker

International Symposium on Microchemical Techniques 1977  
(Davos, Switzerland: 22-27.5.77) - Prof. R. Belcher

12.3/77 Proposed Modifications to Approval Procedures for Representation, Sponsorship, and Subvention

Proposed modifications to the existing approval procedures for appointing official representatives of IUPAC and for granting sponsorship and subventions to symposia were considered. Regarding sponsorship, the Executive Committee decided that it was unnecessary to consult the Scientific Editor of the Union about publication rights, although he should be allowed to referee and reject symposia papers subsequently on the basis of quality. Prof. Ourisson was in favour of seeking the advice of the official publisher to the Union on publication rights, but Dr. Cairns said that such consultations should be restricted to the relevant Division President and Chairman of the Committee on Publications. No change to the present practice of granting subventions was deemed necessary.

The directives for the various approval procedures were now as detailed in Appendix G.

12.4/77 Politicization of Scientific Meetings

The Executive Committee supported the recent strong condemnation by the US National Committee for IUPAC of the politicization of international scientific meetings and symposia. It noted, but did not consider it essential to adopt additional conditions suggested for the granting of sponsorship of the Union. The most important factor for IUPAC was still felt to be freedom for participation by all bona fide chemists.

RELATIONS WITH OTHER ORGANIZATIONS

13.1/77 Federation of European Chemical Societies

As official representative of the Union at the 1976 FECS General Assembly (Minute 15.1/76, 36th Bureau), Prof. Suomalainen had requested amplification of the draft minutes to reflect more clearly his remarks about overlap between existing IUPAC activities and those planned for various FECS Working Groups. The Executive Committee noted that an addition had now been made to the Directives for Working Parties of FECS, asking that particular consideration should be given to close cooperation with corresponding groups of IUPAC.

### 13.2/77 IUPAC-IUB Commission on Biochemical Nomenclature (CBN)

The Executive Committee ratified its acceptance by correspondence of the proposal to replace the existing CBN, for a trial period of three years, by a new IUB-IUPAC Joint Commission on Biochemical Nomenclature. It was agreed that the four Members from IUPAC should be Dr. H. B. F. Dixon (UK), Prof. Y. Jeanin (France), Prof. W. Klyne (UK), and Dr. K. L. Loening (USA), with Prof. P. Karlson (IUB) as Chairman and to decide on the Secretaryship. JCBN linkage to IUPAC would be through the Interdivisional Committee on Nomenclature and Symbols.

CBN was now to be considered defunct and a meeting called for 1977 would not take place.

### 13.3/77 IUB-IUPAC ad hoc Committee on Radioactive and Isotopic Specifications of Labelled Compounds

The resignation was reported of Dr. G. Goldstein (IUB) as Chairman of the ad hoc Committee. It was agreed to await the views of IUB rather than take an initiative about his replacement. The Executive Committee directed that any papers arising from the ad hoc Committee should be referred to a relevant IUPAC body prior to publication, in order to ensure that there was no conflict with existing policy of IUPAC.

### 13.4/77 Ratification of New UNESCO Contract on Teaching of Chemistry

The Executive Committee ratified the action of the President in signing a contract for the Union to assist the UNESCO Secretariat in development of its programme on University Chemical Education.

### 13.5/77 Report on 16th ICSU General Assembly

The resolutions passed at the 16th ICSU General Assembly (Washington, DC, 11-15.10.76) were considered, together with a brief report from the official representative of IUPAC, Sir Harold Thompson. Establishment of a Scientific Committee on Genetic Experimentation (COGENE) was particularly significant, and Dr. Cairns had asked Prof. P. Berg (USA) to represent IUPAC at the first meeting (Paris, 21-23.5.77). The President announced that Prof. Smets had now replaced Sir Harold Thompson as IUPAC representative to ICSU. However, because of a prior commitment of Prof. Smets, Prof. Ourisson would act for the Union at Budapest during 7-8.9.77.

Dr. Cairns referred to his recent correspondence with the Chinese Chemical Society to see whether it should be included in IUPAC records under the heading of simply "Taiwan" rather than "Republic of China". Having noted the ICSU resolution on Universality of Science, the Executive Committee decided to maintain the records unaltered and to see how ICSU handled the matter.

### 13.6/77 Matters Raised by British National Committee for Chemistry

A number of matters had been referred (letter of 13.1.77) by the British National Committee for Chemistry for consideration by the Union. There was general support for the recommendation to encourage Division Committee Members to attend meetings of as many different Commissions as possible at the General Assembly, in order to become fully informed of all aspects of Divisional business. The suggestion for IDCNS to meet more frequently, so that nomenclature matters could be handled expeditiously, could only be implemented if the financial situation of the Union improved. It was impractical to hold the next meeting of IDCNS outside the period of the Warsaw General Assembly. The Executive Committee agreed to ask ICAG to reconsider with the Applied Chemistry Division Committee at Warsaw the question of an IUPAC initiative on trivial names. As a starting point it might be possible to collect together listings of trivial names which existed already for some areas of chemistry.



### 13.7/77 IUB-IUPAB-IUPAC Commission on Biothermodynamics

The Commission was planning to prepare a monograph entitled "Basic Principles and Applications of Equilibrium Thermodynamics to Biological Systems". A number of publishers were being approached, including Pergamon Press, about publication and the Commission would then make a recommendation to the Executive Committees of the three parent Unions.

### 13.8/77 ICSU Input into Preparation of UNESCO Programmes

It was decided to refer for comment by the CHEMRAWN Planning Committee, a request from ICSU for suggestions of items which IUPAC thought should be included in the UNESCO draft programme for 1979-80 and in the draft proposals for the medium-term plan 1979-84.

Minute 14/77

### PUBLICATIONS

#### 14.1/77 Status of Publishing Programme

The Executive Secretary drew attention to two aspects of a recent IUPAC publications status report (as at 25.2.77):

1. The last two issues of Pure and Applied Chemistry for 1976 would not be published until the end of March 1977, because of poor handling by Pergamon of an IUPAC nomenclature recommendations document.
2. No book version had yet appeared of any symposia published in PAC during 1976.

It was agreed that these matters should be referred to Mr. I. R. Maxwell at Pergamon Press.

#### 14.2/77 Future IUPAC Publishing Policy

There had been no objections to proposals (Minute 12/76, Committee on Publications - Oxford) that:

1. All data, numerical or otherwise, should be issued under the title "IUPAC Chemical Data Series"
2. All other material presently issued separately from PAC, especially monographs, should appear under the title "IUPAC Chemical Reference Books"

and they could therefore now be regarded as adopted as official IUPAC policy. However, in view of reservations about proposals to reshape PAC and the Information Bulletin (Minute 16.1/76, 86th Executive Committee), Prof. Ourisson suggested that all implications be reconsidered carefully by the Committee on Publications at Warsaw.

Both Dr. Cairns and Prof. Ourisson expressed concern at the extent of some reports of meetings of IUPAC bodies as just published in Part B of Comptes Rendus 28th Conference. Prof. Ourisson was anxious to limit the coverage to a summary of decisions taken and recommendations made, particularly for actual progress on existing activities and initiation of definite new programmes. He was asked to instruct all IUPAC bodies accordingly. Not only should this make the Comptes Rendus and Bulletin more readable, but the editorial work needed at the IUPAC Secretariat would become less extensive. Verbatim minutes could still be distributed internally if desired.

The 1976 Information Bulletin commitment would be fulfilled by publication of Bulletin Nos. 52/53 in May 1977. Sufficient material was available to issue a Bulletin No. 54 later in the year, and the Executive Secretary was requested to negotiate a subscription price with Pergamon.

#### 14.3/77 Membership of Committee on Publications

The President reported that Dr. H. Gr̄unewald had now assumed the Chairmanship of the Committee on Publications, with Prof. Ourisson remaining an ordinary Member. Dr. C. T. Bishop (Canada) had accepted an invitation to fill one of the two vacancies on the Committee. Agreement was reached by the Executive Committee for action by Dr. Cairns to fill the other vacancy.

#### 14.4/77 Proposed Modifications to Approval Procedures

It was noted that because of increased work for the Scientific Editors of the Union, arising from introduction of the camera-ready copy publication system, from the start of 1977 they were responsible only for handling material to appear in PAC. This had made it opportune to propose modifications to existing procedures for handling publication of various IUPAC documents. All IUPAC bodies should be encouraged to prepare documents initially in camera-ready form.

The Executive Committee agreed to the following changes in policy:

1. On behalf of the Bureau, IDCNS should approve publication of provisional recommendations on nomenclature and symbols unless there were unresolved matters of controversy. A suggestion that such recommendations might go forward directly from a Commission to IDCNS, without being checked by the relevant Division Committee, was deferred for future reconsideration.
2. In order to expedite handling of final recommendations on nomenclature and symbols, unless there were unresolved matters of controversy Council should be asked at Warsaw to delegate its authority for approval of publication to IDCNS.
3. On behalf of the Bureau, the relevant Division Committee should approve publication of Commission reports (excluding recommendations on nomenclature and symbols), monographs, and data compilations.

The directives for preparation, approval, and publication of IUPAC documents until further notice were now as detailed in Appendixes H - K.

Minute 15/77

#### REVIEW OF FUNCTIONING AND STAFFING OF IUPAC SECRETARIAT

The President reported on continuing efforts of the Officers with the Executive Secretary to simplify the work load of the Secretariat (Minute 18/76, 86th Executive Committee). A greater delegation of responsibilities and inevitably lesser involvement of the Executive Committee was already evident from earlier decisions at the present meeting (see Minutes 4.2, 10.3, 12.3, and 14.4/77). Publications work had been reorganized, on a trial basis, so as to involve the Assistant Secretary (Publications), Mr. P. D. Gujral, to a much greater extent. Some of his previous duties would now have lesser priority.

A simplified memorandum on the responsibilities and authorizations of the Secretariat under the Executive Secretary (Appendix L) was approved by the Executive Committee, and it superceded the earlier document from 1972 (Appendix D, Minutes of LXXIII Executive Committee - Paris). A listing of typical tasks carried out by the Assistant Secretary (Administration), Miss A. Troughton, on behalf of IUPAC bodies occasioned some surprise because of its extent. This reinforced the directive (Appendix L) that it was not mandatory for the Secretariat to provide backup services to IUPAC bodies (other than central bodies): such work was optional and only actionable within Secretariat budget and staff availability and expertise.

Minute 16/77

DATE AND PLACE OF NEXT MEETING

The schedule for the 29th IUPAC General Assembly in Warsaw presently envisaged meetings of the 'old' Executive Committee at 9.00 on 17.8.77 and of the 'new' Executive Committee at 15.00 on 21.8.77.

VOTES OF THANKS

Prof. Smets asked for formal votes of thanks to be recorded to the American Chemical Society for the generous provision of hospitality and of facilities and to the US National Committee for IUPAC for the kind provision of hospitality.

\* \* \* \* \*

CHAIRMAN:

Robert W. Cairns

DATE:

17<sup>th</sup> Aug. 1977

APPENDIX A

IUPAC GENERAL PURPOSES BUDGET 1977\*

(as of 15 February 1977)

<u>INCOME</u>		<u>EXPENDITURE</u>
<u>Subscriptions from National Adhering Organizations</u>		
Current year	180,000	Secretary General & Officers 5,000
Outstanding	10,000	IUPAC Secretariat 54,000
<u>Subscriptions from Company Associates</u>		Audit, Bank Fees and Other Charges 13,800
<u>Interest &amp; Dividends Earned</u>		
<u>Subvention from ICSU</u>	30,000	<u>Travel, Subsistence, Administration IUPAC Bodies</u>
<u>Transfer from Reserves</u>	14,000	Meetings other than General Assembly 26,000
<u>Transfer from Publications Account</u>	31,300	General Assembly 250,000
		Divisional Activities 26,100
		New & Extended Activities 5,200
	16,000	
<u>Transfer from Contracts Account</u>	2,000	<u>Other Expenses</u>
		Contributions to ICSU and ICSU Committees 6,000
	343,300	IUPAC Representatives on Other Organizations 2,800
		Free Comptes Rendus, Inf. Bull. & Appendices 12,800
<u>Excess of Expenditure over Income</u>	63,400	<u>General Contingency Fund</u> 5,000
	406,700	

\* All figures in US-dollars

IUPAC PUBLICATIONS BUDGET 1977\*  
(as of 15 February 1977)

<u>INCOME</u>		<u>EXPENDITURE</u>	
Publications (Pergamon)	45,000	Scientific Editors	5,000
Publications (Secretariat)	7,700	Assistant Secretary (Publications) & Typist	15,000
Free Comptes Rendus, Inf. Bull. & Appendices	12,800	Printing & Postage of Comptes Rendus Inf. Bull. (4) & Appendices	40,600
Transfer from Reserves	27,800	Share of IUPAC Secretariat Costs	16,700
	<hr/>		<hr/>
	93,300	Excess of Income over Expenditure	16,000
	<hr/>		<hr/>
	93,300		93,300
	<hr/>		<hr/>

\*All figures in US-dollars

APPENDIX B

IUPAC GENERAL PURPOSES BUDGET 1978\*  
(as of 15 February 1977)

<u>INCOME</u>		<u>EXPENDITURE</u>
<u>Subscriptions from National Adhering Organizations</u>		
Current year	180,000	Secretary General & Officers 5,500
Outstanding	10,000	IUPAC Secretariat 62,000
<u>Subscriptions from Company Associates</u>		Audit, Bank Fees & Other Charges 80,500
62,000	62,000	
<u>Interests &amp; Dividends Earned</u>		
30,000	30,000	Travel, Subsistence, Administration of IUPAC Bodies 200,000
<u>Subvention from ICSU</u>		Contributions to Symposia 10,000
14,000	14,000	
<u>Transfer from Publications Account</u>		
17,100	17,100	Other Expenses
<u>Transfer from Contracts Account</u>		Free Comptes Rendus, Inf. Bull. & Appendices 36,000
2,000	2,000	Contributions to ICSU and ICSU Committees 6,000
315,100	315,100	IUPAC Representatives on Other Organizations 3,100
		General Contingency Fund 5,000
<u>Excess of Expenditure over Income</u>	25,500	
	340,600	340,600

\*All figures in US-dollars

IUPAC PUBLICATIONS BUDGET 1978\*  
(as of 15 February 1977)

<u>INCOME</u>		<u>EXPENDITURE</u>	
Publications (Pergamon)	50,000	Scientific Editors	5,000
Publications (Secretariat)	8,500	Assistant Secretary (Publications) & Typist	17,200
<u>Free Comptes Rendus, Inf. Bull. &amp; Appendices</u>	36,000	Printing & Postage of Comptes Rendus, Inf. Bull. & Appendices	36,000
		Share of IUPAC Secretariat Costs	19,200
			<hr/> 77,400
		Excess of Income over Expenditure	17,100
	<hr/> 94,500		<hr/> 94,500

\*All figures in US-dollars





APPENDIX D

NOMINATIONS OF NEW OFFICERS AND MEMBERS  
OF IUPAC BODIES APPROVED BY CORRESPONDENCE  
THROUGH PRESIDENT/EXECUTIVE COMMITTEE  
SINCE 36th BUREAU MEETING

- (i) CHEMRAWN Planning Committee  
Member (1976- ) - Prof. G. E. Zaikov (USSR)
- (ii) Committee on Publications  
Chairman - Prof. H. Grunewald (FRG)
- (iii) Committee on Teaching of Chemistry  
Secretary and Member (1977- ) - Dr. D. J. Waddington (UK)  
Member (1976- ) - Dr. T. M. Sugden (UK)
- (iv) Commission on Nomenclature of Organic Chemistry  
Titular Member (1975-1979) - Dr. K. Hirayama (Japan)
- (v) Commission on Photochemistry  
Chairman - Prof. K. Schaffner (FRG)  
Secretary and Titular Member (1975-1979) - Prof. F.C. de Schryver (Belgium)
- (vi) Commission on Food Contaminants  
Vice-Chairman - Dr. P.L. Schuller (Netherlands)
- (vii) Commission on High Temperatures and Refractory Materials  
Associate Member (1975-1979) - Dr. A.M. Anthony (France)

MEMBERSHIP VACANCIES ON COMMISSIONS

(Statute 4.2, Bylaws 4.303 and 4.304)

1. At General Assembly nominations from Commissions to fill vacancies in their Officers or Titular and Associate Membership to be endorsed by Division Committee, then to be approved by Bureau.
2. New Titular and Associate Members to be endorsed by relevant National Adhering Organizations via correspondence, then appointment letters issued by IUPAC Secretariat.

Casual Vacancies

In filling of casual vacancies between General Assemblies, nominations for Officers or Titular and Associate Membership, their endorsement by Division Committee (or Division President), and their approval by President of Union, on behalf of Bureau, to be via correspondence.

MEMBERSHIP VACANCIES ON DIVISION/SECTION COMMITTEES

(Statute 4.2, Bylaws 4.102 and 4.103)

1. Members of Division/Section Committees to be elected by Division/Section Membership (i.e. by existing Members of Division/Section Committees plus Titular and Associate Members of Commissions).
2. Vacancies to be filled either by postal ballot involving Division/Section Members prior to General Assembly or at meeting of Division/Section Members during General Assembly.

Casual Vacancies

Bureau may authorize filling of casual vacancies between General Assemblies. Elections must be conducted by postal ballot.

Note. Appointments to Division/Section Committees, including filling of casual vacancies, do not require approval of Bureau nor of relevant National Adhering Organizations.

MEMBERSHIP VACANCIES ON STANDING COMMITTEES

President of Union in consultation with Executive Committee to make appointments to fill vacancies amongst Officers or Membership of Standing Committees.

Note. Such appointments may be made at any time, may be carried out entirely via correspondence, and do not require approval of Bureau nor of relevant National Adhering Organizations.

SPONSORSHIP OF SYMPOSIA APPROVED BY

CORRESPONDENCE THROUGH OFFICERS/EXECUTIVE COMMITTEE

SINCE 36th BUREAU MEETING

International Symposium on Materials for High Temperature Energy Sources (Odeillo, France: 27.6 - 9.7.77)

VI AIRAPT International Conference on High Pressure (Boulder/Colorado, USA: 25-29.7.77)

V International Conference on Chemical Thermodynamics (Ronneby, Sweden: 23-26.8.77)

International Conference on Chemical Education in the Coming Decades (Ljubljana, Yugoslavia: 25-30.8.77)

International Mass Spectrometry Symposium on Natural Products (Rehovot, Israel: 28.8-2.9.77)

IUPAC-IUPHAR Symposium on Biological Activity and Chemical Structure (Noordwijkerhout, Netherlands: 30.8-2.9.77)

VII International Vacuum Congress/III International Conference on Solid Surfaces (Vienna, Austria: 12-16.9.77)

V International Symposium on Carotenoids (Madison/Wisconsin, USA: 24-29.7.78)

VI International Symposium on Medicinal Chemistry (Brighton, UK: 4-7.9.78)

IV IUPAC Conference on Physical Organic Chemistry (York, UK: 4-8.9.78)

XI International Symposium on Chemistry of Natural Products (Varna, Bulgaria: 17-23.9.78)

OFFICIAL REPRESENTATION OF IUPAC

1. President of Union to decide on need for any continuing representations of IUPAC (e.g. on ICSU bodies) and to appoint the representatives.
2. Incoming President to review all existing appointments not later than General Assembly at which he takes Office.

Occasional Representation

1. Occasional needs (e.g. sponsored symposia) and occasional requests (e.g. meetings of ISO bodies) for representation of IUPAC to be referred by correspondence for advice of relevant Commission Chairman and Division President.
2. Unless doubts arise, appointment letter to be issued by Executive Secretary on behalf of President of Union.

IUPAC SPONSORSHIP OF SYMPOSIA

1. Organizers to complete official Advance Information Questionnaire via IUPAC Secretariat.
2. Executive Secretary to correspond with relevant Division President and Chairman of Committee on Publications for their advice on granting of sponsorship and on publication rights.
3. Unless a meeting of Bureau is imminent, President of the Union to decide via correspondence on granting of sponsorship and publication rights.

IUPAC FINANCIAL SUBVENTIONS FOR SPONSORED SYMPOSIA

1. Organizers to submit draft realistic budget to IUPAC Secretariat.
2. Executive Secretary to correspond with relevant Division President for advice on whether any subvention is warranted in terms of specific need and general criteria determined by Bureau.
3. Decision on granting of subvention to be taken at a meeting of Bureau, with Treasurer to inform organizers accordingly.

Criteria for Granting Subventions

1. Is subject a new and developing area as opposed to a well established area of chemistry?
2. Is symposium part of a well established series on a particular theme? (IUPAC generally against subventions in such cases)

3. Is symposium to take place in a developing country or one located at great distance (e.g. New Zealand) from normal venues (e.g. Europe, N. America)?
4. For what purpose(s) do organizers wish to use subvention? (IUPAC requires it to be used for scientific purposes, e.g. to support participation of plenary lecturers, but NOT for social events)

PROVISIONAL IUPAC RECOMMENDATIONS ON

NOMENCLATURE AND SYMBOLS

(Bylaw 2.11)

1. After consultation of other relevant bodies, Commission to prepare in camera-ready form, and to be responsible for general editing, especially for language editing where author(s) writing in a language not his own.
2. Unless a meeting of Division Committee is imminent, by correspondence Division President to check on scientific standard, to check on general editing, especially language editing, and to recommend on publication by IUPAC.
3. Unless a meeting of Interdivisional Committee on Nomenclature and Symbols is imminent, by correspondence its Chairman to check compatibility with existing recommendations, to ensure relevant bodies have been consulted and, on behalf of Bureau, to approve publication by IUPAC.
4. Approved camera-ready copy to be submitted to IUPAC Secretariat for publication as Provisional Nomenclature Appendix (yellow booklet) to IUPAC Information Bulletin.

Note. Matters of controversy unresolved by Commission/Division Committee/IDCNS to be referred via IUPAC Secretariat for attention of Bureau.

## APPENDIX I

### IUPAC RECOMMENDATIONS ON NOMENCLATURE AND SYMBOLS

(Bylaw 2.11)

1. After considering comments on provisional recommendations and if necessary making amendments, Commission to prepare in camera-ready form and to be responsible for general editing, especially for language editing where author(s) writing in a language not his own.
2. Unless a meeting of Division Committee is imminent, by correspondence Division President to recommend on publication by IUPAC of amended recommendations.
3. Unless a meeting of Interdivisional Committee on Nomenclature and Symbols is imminent, by correspondence its Chairman to support recommendation for publication by IUPAC of amended recommendations.
4. At its biennial General Assembly, Council to approve publication by IUPAC of amended recommendations.
5. Approved camera-ready copy to be submitted via IUPAC Secretariat to Scientific Editor for publication in the journal Pure and Applied Chemistry.

Note. Matters of controversy unresolved by Commission/Division Committee/IDCNS to be referred via IUPAC Secretariat for attention of Bureau.

## APPENDIX J

### IUPAC REPORTS

(excluding Recommendations on Nomenclature and Symbols, Data Compilations, Monographs)

1. After consultation of other relevant bodies, Commission to prepare in camera-ready form and to be responsible for general editing, especially for language editing where author(s) writing in a language not his own.
2. Unless a meeting of Division Committee is imminent, by correspondence Division President to ensure relevant bodies have been consulted, to check on scientific standard, to check on general editing, especially language editing and, on behalf of Bureau, to approve publication by IUPAC.
3. Approved camera-ready copy to be submitted via IUPAC Secretariat to Scientific Editor for publication in the journal Pure and Applied Chemistry.

#### Notes

1. Matters of controversy unresolved by Commission/Division Committee to be referred via IUPAC Secretariat for attention of Bureau.
2. Reports from IUPAC bodies not responsible to a Division Committee must be approved by Bureau for publication by IUPAC.
3. For exceptional reasons and subject to approval by Bureau, a report may be published as a Technical Report Appendix (blue booklet) to IUPAC Information Bulletin.



IUPAC DATA COMPILATIONS AND MONOGRAPHS

As soon as a potential publication commitment is foreseen by an IUPAC body, this should be drawn, via the Secretariat, to the attention of the Committee on Publications and of the official publisher to the Union for a decision on publication by IUPAC or waiving of publication rights.

If IUPAC accepts publication responsibility:

1. After consultation of other relevant bodies, Commission to prepare camera-ready copy and to be responsible for general editing, especially for language editing where author(s) writing in a language not his own.
2. Unless a meeting of Division Committee is imminent, by correspondence Division President to ensure relevant bodies have been consulted, to check on scientific standard, to check on general editing, especially language editing and, on behalf of Bureau, to approve publication by IUPAC.
3. Approved camera-ready copy to be submitted to IUPAC Secretariat for publication in separate form from the journal Pure and Applied Chemistry by official publisher to Union.

Notes

1. Matters of controversy unresolved by Commission/Division Committee to be referred via IUPAC Secretariat for attention of Bureau.
2. Data compilations and monographs from IUPAC bodies not responsible to a Division Committee must be approved by Bureau for publication by IUPAC.

APPENDIX L

RESPONSIBILITIES AND AUTHORIZATIONS OF

IUPAC SECRETARIAT

Organization and Performance

Office organization shall be a direct responsibility of the Executive Secretary as to all personnel and functional matters, with regular review by Secretary General and occasional discussions and review by other Officers. Performance shall also be a responsibility of the Executive Secretary, including evaluation of all employees.

Duties and Work Requirements

Prime administrative responsibility is to Officers and central bodies (i.e., Executive Committee, Bureau, and General Assembly):

Planning/agenda/minutes of meetings of central bodies  
Resultant actions of central bodies

Other main duties are:

Membership of Union and all its bodies  
Collection of documents of all bodies and examination for organization implications  
Operation of Company Associates Scheme

Financial Responsibilities

Invoicing for national subscriptions  
Processing of claims  
Collection of budget information  
Support for Finance Committee

Publications Procedures

Responsibility for Comptes Rendus, Information Bulletin and its Appendixes  
Support for Publications Committee

Contractual Work

Performance of IUPAC bodies for external compensation:

ICSU  
UNESCO  
CEE  
Pergamon Press

Assisting in collaboration with:

WHO  
FAO  
ISO

Representation, Sponsorship, and Subvention

Receiving requests and seeking approvals, where necessary.

Requests for Information

Response shall be processed through Executive Secretary if they require more than a few minutes of time.

Optional Work

Need for backup service to IUPAC bodies other than central bodies: only within budget and staff availability and expertise. The Executive Secretary must be the judge. If in doubt, he will consult with Secretary General or other Officers.