

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 90th MEETING OF EXECUTIVE COMMITTEE

HELD AT VILLEFRANCHE-SUR-MER

ON

MONDAY, 3rd APRIL 1978, 9.00-17.35

AND

TUESDAY, 4th APRIL 1978, 9.00-15.40

PRESENT:

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

ABSENT:

Prof. H. Zollinger

IN ATTENDANCE:

Dr. M. Williams	- Executive Secretary
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Minute 1/78

INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

In his opening remarks Prof. Smets said that Prof. Zollinger was unable to be present because of another commitment in Japan. Also, Prof. Overberger would be absent for most of the second day due to professional duties. Prof. Zollinger had submitted written comments on various items of the agenda.

The following items were added to the agenda circulated by the Executive Secretary (78.03.17) before the meeting:

- 6.11 Iraqi Chemical Society
- 6.12 ICSU Policy Group on Scientific Information
- 6.13 Union of Arab Chemists
- 6.14 Democratic People's Republic of Korea

Minute 2/78

MINUTES OF 88th AND 89th MEETINGS OF EXECUTIVE COMMITTEE

2.1/78 Amendments and Approval of Minutes

The Minutes of the 88th and 89th Meetings of the Executive Committee were approved. Preparation and circulation of these Minutes had been delayed because the Secretariat had made a special effort to publish Membership Lists of IUPAC Bodies 1977-1979 as early as possible. It was agreed that in future the Minutes should receive priority.

2.2/78 Matters Arising from Minutes

2.2.1/78 Recommendations of Usage of the Terms "Equivalent" and "Normality"  
(Minute 18.2.1/77, 88th Meeting)

On the proposal of IDCNS, Council at Warsaw (Minute 16/77) had adopted IUPAC final recommendations on the matter and these were now in course of publication in PAC. The ISO/TC 12-ISO/TC 47-IUPAC ad hoc Group had met subsequently (London, 78.01.12-13) to consider the recommendations, but one of the IUPAC representatives, Prof. T. S. West, felt strongly that the report produced by ISO/TC 12 did not accurately reflect the deliberations. It was agreed to refer the report for the attention of IDCNS, although the Executive Committee was convinced that the Union had clearly fulfilled its obligations.

2.2.2/78 Recommendation on "Katal" (Minute 18.2.5/77, 88th Meeting)

IDCNS at Warsaw (Minute 3(h)/77) had rediscussed the subject of "katal". In the interest of uniformity with IUB it had decided to recommend the name "catalytic activity" for the physical quantity in question. "Katal" was proposed as a special name for the SI unit of mole per second, referring to the rate of a specified first-order catalysed reaction under specified assay conditions for a particular enzyme. The name was proposed in the limited context of clinical or biomedical assays, with no suggestion that it should apply to heterogeneous catalysis in general.

The Executive Committee accepted the recommendation of IDCNS that IUPAC should not present the name "katal" to Comité Consultatif des Unités of Bureau International des Poids et Mesures for consideration of approval for general international usage. However, if IUB or IFCC took an initiative in requesting CIPM for general approval of "katal" as a special name for mole per second in the limited context of enzyme assays, IUPAC might be willing to support that initiative.

Minute 3/78

MINUTES OF MEETINGS OF:

3.1/78 37th and 38th Bureau

The Minutes of the 37th and 38th Meetings of the Bureau were recorded as having been received officially by the Executive Committee.

3.1.1/78 Image of Chemistry (Minute 8/77, 37th Bureau)

Consideration was given to the suggestion of ICAG to make greater utilization of IUPAC-sponsored symposia for bringing to the general public a better understanding of the impact of chemistry on modern life.

Prof. Smets thought that not all IUPAC symposia would be suitable for holding a general public open day like that at the 4th International Congress of Pesticide Chemistry (Zürich, 78.07.24-28). Prof. Horn preferred the use of good press releases by symposia organizers. Sir Derek Barton was strongly in favour of making arrangements for schoolchildren and their teachers to attend some of the lectures, followed by an open discussion. The concern of Dr. Cairns that the primary purpose of such symposia, for scientists to communicate with each other, might be destroyed by incorporating communication between scientists and the general public, was not shared by the rest of the Executive Committee.

It was agreed that a paragraph should be included in future sponsorship-granting letters from the President, informing organizers of symposia of past and forthcoming attempts to attract the attention of the general public.

Prof. Overberger stressed the need to mention CHEMRAWN activities of the Union whenever possible. The Executive Committee agreed:

- (i) that the official representative of IUPAC should be asked to say a few words about CHEMRAWN at the opening ceremony of each sponsored symposium;
- (ii) that a statement on CHEMRAWN should be included in the International Newsletter on Chemical Education: the existing statement would need to be adapted for use at the secondary level of education.

3.1.2/78 Contract Work with CEE (Minute 13.1/77, 37th Bureau)

The Executive Committee noted that since Warsaw the President had made the following appointments to the Coordinating Committee on Analytical Methods for CEE: Prof. F. Pellerin (Chairman), Dr. H. Egan (Secretary), Prof. A. Hulanicki, and Dr. J. Bartos. Dr. E. O. Haenni, Dr. K. Kojima, Dr. R. Marcuse, and Dr. P. L. Schuller remained as Members.

The outstanding methods from the 1976 contract had been submitted to CEE (77.11.02). It was agreed that the President should take an initiative to meet officials from CEE to discuss possible further contracts between the two organizations. The Associated Organization status of the Union of FECS should be mentioned at such a meeting. The Executive Committee was in favour of adding 15% to any future contract rather than use money from the actual contract for IUPAC overheads.

3.1.3/78 Appointments to Division/Section Committees (Minute 14.3/77, 37th Bureau)

The Executive Committee decided that the additional paragraph to Bylaw 4.103

agreed by the Bureau at Warsaw should be circulated to the National Adhering Organizations before 1 October 1978, proposing the change to the Statutes and Bylaws in Council at Davos.

Dr. Cairns expressed concern that new nominations for membership of Division/Section Committees and Commissions, approved by the Bureau at a General Assembly, were already public knowledge before all National Adhering Organizations had an opportunity to endorse them officially. This made it difficult, even impossible for an NAO not to endorse all nominations for chemists from its country: nonendorsement in such circumstances could have a harmful effect.

The Executive Committee was agreed on the continued need for NAOs to endorse all new nominations, but it asked the Executive Secretary to consider:

- (i) trying to obtain endorsement at an actual General Assembly from those National Delegations empowered to act officially in such matters;
- (ii) not including in the biennial Membership Lists of IUPAC Bodies any persons whose nominations were still to be endorsed by their NAOs.

Also, the Executive Committee decided to invite NAOs to submit names of suitable experts for vacancies in membership of IUPAC bodies arising at Davos.

### 3.2/78 29th Council

The Minutes of the 29th Meeting of Council were recorded as having been received officially by the Executive Committee.

#### 3.2.1/78 Association of Editors of European Chemistry Journals (Minute 11(iii)/77)

Because of the aftereffects of a temporary illness of its Convenor/Secretary, the activities of EdEuChem came to a halt and the 1977 General Assembly could not be organized within its agreed Bylaws. The necessary impetus had now been given to convene the next Assembly at Frankfurt/Main (78.06.01). In these circumstances the Executive Committee decided to continue the Associated Organization status of EdEuChem until Davos, when it would be reviewed by IUPAC.

#### 3.2.2/78 Proposal for Commission on Radiation Chemistry (Minute 15/77)

A further communication from the Canadian National Committee for IUPAC (77.06.01), supporting its proposal to establish a Commission on Radiation Chemistry, was considered by the Executive Committee. It was agreed to refer that additional documentation also to the Physical Chemistry Division.

#### 3.2.3/78 Nomination of Candidates by Bureau as Elected Members of Bureau (Minute 20.2/77)

Sir Harold Thompson (Convenor) had agreed to contact Prof. J. Bénard and Prof. M. Mandel about forming an ad hoc Committee to consider the specific problem arising at Warsaw. The ad hoc Committee should not be pressed into reporting to the 1978 meeting of the Bureau.

### 3.3/78 Division Presidents (77.08.15)

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

3.4/78 Finance Committee (77.08.16 and 78.02.20-21)

The Minutes of the Meetings at Warsaw and Zürich of the Finance Committee were recorded as having been received officially by the Executive Committee. The Treasurer gave a brief résumé of the deliberations at Zürich.

3.4.1/78 IUPAC Financial Guidelines and Procedures (Minutes 26/77 and 2.2.4/78)

The IUPAC Financial Procedures document was approved by the Executive Committee, subject to a note being added on the policy for travel expenses from a location other than a person's regular residence (Minute 20.1/77, 88th Executive Committee - Warsaw). The Procedures document, together with the Guidelines approved previously (Minute 18.2.8/77, 87th Executive Committee - Washington), was now ready for circulation to Officers of all IUPAC bodies.

3.4.2/78 Matters Arising from Zürich (78.02.20-21)

3.4.2.1/78 Statement of Accounts for 1977 (Minute 3.1/78)

The revised accounts for 1977 (Appendix A to Finance Committee Minutes) were accepted by the Executive Committee for presentation to Council at Davos.

3.4.2.2/78 Currency for IUPAC Financial Transactions (Minute 3.3/78)

The view of the IUPAC Banker was accepted that, despite the fluctuating situation of the US-dollar, it was still the most accepted international currency and should continue to be used for the financial transactions of the Union.

3.4.2.3/78 Advance Notice for Raising National Subscriptions (Minute 5.2/78)

The Executive Committee agreed that in future adequate notice of a proposal to raise national subscriptions must be given, to enable National Adhering Organizations to discuss the matter prior to a General Assembly. For the present, however, it was decided not to recommend any change to Statute 7.2 to specify the need for at least 12 months' formal notice to raise subscriptions. It was impossible to force NAOs to pay immediately any increases agreed, such as those by Council at Warsaw, but would inevitably postpone payment by member countries able to pay the increases immediately.

3.4.2.4/78 Mandatory Allocation of Membership Category and Chemical Turnover as Criterion for Categories (Minute 5.3/78)

The Executive Committee accepted the recommendation of the Finance Committee that, from the views so far submitted by National Adhering Organizations, at the present time there was no justification to move to mandatory allocation of membership categories at Davos. Also, it noted the Finance Committee view that there was no evidence to suggest a better criterion than chemical turnover as the basis of IUPAC membership categories.

3.4.2.5/78 Financial Contribution from France (Minute 5.3/78)

Existing IUPAC policy, that indirect financial support of the Union should not be considered officially as contributing towards national subscriptions, was reaffirmed by the Executive Committee: only subscription income from Company Associates could officially constitute part of the national subscription. The Treasurer was asked to consider drawing attention in his report to Council at Davos of the payment of travel and subsistence expenses for French participants at IUPAC General Assemblies by Comité National Français de la Chimie. The efforts of France and other countries to move into their correct membership categories were commended.

#### 3.4.2.6/78 Late Payment of National Subscriptions (Minute 5.5/78)

The Executive Committee accepted the recommendation of the Finance Committee that member countries persistently late with their annual subscriptions (Argentina, Belgium, Brazil, India) should be asked to explain the reasons for same. Their attention should be drawn to the possible introduction of additional sanctions to those specified in Statute 9.2, e.g. nonreimbursement of Titular Members of IUPAC bodies for travel and subsistence expenses if their country was in arrears with its subscription.

#### 3.4.2.7/78 Overrepresentation (Minute 5.8/78)

A survey by Prof. A. Björkman of national engagement in IUPAC activities during 1975-1979 and an updated table on overrepresentation by Prof. Horn were considered by the Executive Committee. The Treasurer defined "overrepresentation" as the situation when a member country regularly took more money out of the Union than it contributed. Profs. Smets and Overberger spoke against the use of this concept in the Union. Dr. Cairns stressed that USA was overrepresented financially simply because the majority of meetings of IUPAC bodies were held in Europe.

The Executive Committee decided to take no action on the recommendation of the Finance Committee to pass the documents of Profs. Björkman and Horn for information to the Division Presidents, but preferred a person not to have too many assignments within the Union. It was agreed that the President should invite National Adhering Organizations, if they considered themselves "underrepresented", to submit names (especially of active younger chemists ready to serve in IUPAC) for vacancies at Davos (see also Minute 3.1.3/78).

#### 3.4.2.8/78 Per Diem Allowance for 1978 (Minute 6/78)

The Executive Committee ratified the interim decision of the President and Treasurer to raise the per diem allowance to US-\$40.00 in 1978. If devaluation continued, it might become necessary to increase the allowance to US-\$42.00.

#### 3.4.2.9/78 Revised Budget for 1978 and Forecast for 1977-8 (Minutes 7 and 8/78)

The IUPAC budget for 1978 (Appendix A), as revised recently by the Finance Committee, was accepted by the Executive Committee. The forecast for 1977-8 was now:

1977 - Surplus of US-\$45 000
1978 - Surplus of US-\$10 500
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Total Surplus of US-\$55 500

#### 3.4.2.10/78 Revised Budget for 1979 (Minute 9.2/78)

The IUPAC budget for 1979 had been fully revised by the Finance Committee and forecast an excess of expenditure over income of US-\$80 000 (Appendix B). The recommendation that the deficit should be met from the surplus of the previous two years (see Minute 3.4.2.9/78) was accepted by the Executive Committee.

#### 3.4.2.11/78 Membership (Minute 11/78)

The Executive Committee approved the suggestion for Dr. H. F. Wilson (USA) to fill the vacancy which would arise when Dr. B. W. Rossiter retired from membership of the Finance Committee after its February 1979 meeting. Also, it was decided for the present to retain the membership at 6 persons.

### 3.4.2.12/78 Priority Allocations to Divisions

Requests were considered by the Executive Committee for funds to finance additional activities within the Divisions, particularly to facilitate fulfilment of projects leading to publication and dissemination of IUPAC reports. The following allocations were agreed from the reserve set aside for travel, subsistence, and administration in the 1978 budget of the Union:

IDCNS	8 093
Physical Chemistry Division	2 776
Inorganic Chemistry Division	520
Macromolecular Division	2 405
Analytical Chemistry Division	4 227
Applied Chemistry Division	1 500

US-\$19 521

### 3.5/78 CHEMRAWN Planning Committee (77.08.15 and 78.02.22)

The Minutes of the Meetings at Warsaw and Zurich of the CHEMRAWN Planning Committee were recorded as having been received officially by the Executive Committee.

#### 3.5.1/78 Membership (Minute 3/78)

It was noted that the membership of the CHEMRAWN Planning Committee (CPC) would require the attention of the Executive Committee not later than Davos, when Prof. Zollinger would become President of the Union. By then the outcome of the World Conference on Future Sources of Organic Raw Materials (Toronto, 78.07.10-13) would be clear and it would be possible to decide on the permanency of CPC.

#### 3.5.2/78 ACAST and UN Conference on Science and Technology (Minute 6/78)

The Executive Committee supported the suggestion that a paper on CHEMRAWN should be presented at the 1979 UN Conference on Science and Technology in Vienna. No action was agreed on the further suggestion that IUPAC should try to obtain representation on the Advisory Committee for the Advancement of Science and Technology and/or its ad hoc Commission which was preparing the Vienna Conference.

#### 3.5.3/78 Involvement of ICSU in CHEMRAWN

Prof. Smets offered to make a brief presentation about CHEMRAWN at the 1978 General Assembly of ICSU. It was decided to review the matter at Brussels in terms of the success of the Toronto Conference.

#### 3.5.4/78 Proposed Lunch Meeting of Company Associates

A letter was considered from Dr. J. W. Barrett (78.03.08), recommending the allocation by IUPAC of US-\$1 000 to convene a lunchtime discussion of senior members of chemical companies present at the Toronto Conference. A report on recent and future IUPAC programmes pertinent to industrial interests should lead to the recruitment of some new Company Associates and improve the likelihood of existing Associates increasing their subscriptions. The Executive Committee was divided on the recommendation and it was agreed not to grant the US-\$1 000.



- 3.6/78 Committee on Teaching of Chemistry (77.08.24 and 30-31)  
3.7/78 Interdivisional Committee on Nomenclature and Symbols (77.08.12 and 17)

The Minutes of the Meetings of the Committee on Teaching of Chemistry at Ljubljana and of IDCNS at Warsaw were recorded as having been received officially by the Executive Committee.

Minute 4/78

FUTURE IUPAC GENERAL ASSEMBLIES

4.1/78 Arrangements for 30th General Assembly

Based on economy class air fares (as at September 1977) and a per diem of US-\$37.50, the cost estimate for the General Assembly at Davos (79.09.02-10) was US-\$285 800, whereas the Treasurer had hoped that expenditure could be limited to US-\$200 000. In his capacity as Chairman of the Swiss Organizing Committee, Prof. Zollinger had indicated that a demi-pension price of 65 Sw Fr (approx. US-\$32.50) seemed probable for Category A hotels at Davos in 1979. He had recommended that Kuoni be given complete control of IUPAC travel and accommodation arrangements.

The IUPAC Secretariat did not recommend the use of a single agency, such as TWCO at Madrid (1975) and Warsaw (1977). It preferred the Union to use several agencies which could advise individual participants on possibilities of reduced cost air travel, e.g. Kuoni in Europe, Swiss Air in UK, Gilbert Garber in USA, Japan Travel Bureau in Japan. Accommodation could be reserved by the recommended agencies in association with Kuoni. As a simplification of previous IUPAC practice, the Secretariat suggested that air travel to Zürich be reimbursed on a percentage basis (approximately 75%) of economy class air fares, according to the residue left after total subsistence and local travel costs had been deducted from the agreed sum to be allocated by IUPAC for the Assembly. Each participant should be reimbursed directly for his travel and subsistence entitlement, rather than the Union splitting the entitlement between participant and his agency. He would then be responsible personally for his travel and accommodation payments.

There was general agreement within the Finance Committee not to recommend the use of TWCO as an agency for Davos, and it had decided (Minute 9.1/78) to recommend to the Executive Committee that:

- (i) the total budget for travel and subsistence be US-\$260 000,
- (ii) the per diem allowance be US-\$40.00,
- (iii) a percentage of economy class air fares be reimbursed on the basis advocated by the IUPAC Secretariat,
- (iv) full local travel costs in Switzerland and country of residence to be paid.

At a subsequent meeting of representatives of IUPAC and parties interested in organizing the Davos Assembly (Zürich, 78.02.21), the concept of recommending the use of several agencies was unacceptable to Kuoni. Dissatisfaction was also expressed by Swiss Air and Davos Congress Centre. Kuoni was only willing to collaborate with IUPAC if appointed sole official agent for the Assembly, with Swiss Air as official carrier, and all hotel accommodation already reserved by the Congress Centre for the Union be bookable through Kuoni. This would justify the extensive backup service deemed necessary by Kuoni to ensure success of all arrangements. After an extended discussion, IUPAC

had reluctantly acceded to the pressures of Kuoni and Swiss Air. However, Kuoni had not yet submitted, as requested for consideration by the Executive Committee, any detailed travel-accommodation proposals for effecting cost savings over economy class air fares from throughout the world.

The Executive Committee accepted the recommendations of the Finance Committee and decided to invite Kuoni to visit the IUPAC Secretariat within one month, bringing proposals whereby Davos participants could be reimbursed by the Union at about 75% of the economy class air fares. Without such proposals Kuoni could not be appointed official agent for the Assembly, and the Union should then proceed immediately to make arrangements along the lines originally advocated by the Secretariat.

#### 4.2/78 Requests from IUPAC Bodies to Meet prior to 30th General Assembly

Requests were considered from the Commissions on Nomenclature of Organic Chemistry and on Nomenclature of Inorganic Chemistry to meet at Davos immediately prior to the 1979 General Assembly and from the Committee on Teaching of Chemistry to meet in conjunction with a chemical education symposium in Dublin during August 1979. Notwithstanding the policy of the Union for all IUPAC bodies to meet at the Assembly in a year in which it was held, the requests were approved by the Executive Committee on condition that the same financial arrangements should apply as for Davos.

#### 4.3/78 Reconsideration of Policy for all IUPAC Bodies to Meet at General Assembly

As requested by the Executive Committee (Minute 22/77, 88th Meeting - Warsaw), the Executive Secretary had prepared a paper on the effects of introducing a minimum schedule for the General Assembly. It was decided to circulate the paper for comment by the Division Presidents well in advance of the Bureau meeting in Brussels, together with a letter from Prof. Smets pointing out that savings on travel and subsistence for a minimum schedule Assembly would not necessarily be passed on completely for use by the Divisions. For instance, some of the savings could be allocated to make a balanced budget for the Union (cf. Appendix B, which for 1979 forecast an excess of expenditure over income of US-\$ 80 000). It might become necessary to reduce the number of Commissions and/or the frequency of their meetings. Other possibilities, should a minimum schedule eventually be introduced, were to convene Commission meetings in conjunction with symposia or to have less than eight Titular Members.

Minute 5/78

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

The proposal of IDCNS (letter dated 78.03.24) to delay publication of the final document "Recommendations for Naming of Elements of Atomic Numbers Greater than 100", adopted by Council at Warsaw (Minute 16/77), was accepted by the Executive Committee. The document would be referred back to the Commission on Nomenclature of Inorganic Chemistry for resolution of controversies regarding a preface introduced since Warsaw and the question of two- or three-letter symbols.

No progress had been made in appointing replacement members of the neutral group of experts, nor had the summary reports from the Berkeley and Dubna groups yet been received (Minute 12/77, 37th Bureau - Warsaw). Instead of taking any further initiative to convene a meeting of the neutral group, the Executive Committee accepted a proposal from Prof. Emanuel to initiate the organization of an international scientific symposium on 'New Elements and Their Names Now and in Future'. Sir Derek Barton preferred the symposium to be entitled 'Synthesis and Properties of Elements of Atomic Number Greater

than 103' and Prof. Smets supported that title. The official Advance Information Questionnaire should be completed by the organizers, then handled by the usual IUPAC channels regarding sponsorship by the Union.

Minute 6/78

#### RELATIONS WITH OTHER ORGANIZATIONS

##### 6.1/78 Official Representatives of IUPAC on Other Organizations

A listing of official representatives of IUPAC on other organizations appointed by Prof. Smets for the period mid-1977 to mid-1979 had just been published in Membership Lists of IUPAC Bodies 1977-1979 (pp. 44-47).

##### 6.2/78 ICSU Matters

###### 6.2.1/78 Decisions and Recommendations of 8th Meeting of ICSU General Committee

The draft report and decisions-recommendations arising from the 8th Meeting of the ICSU General Committee (Budapest, 77.09.08-09) were considered briefly by the Executive Committee. Neither Prof. Smets as official representative of IUPAC nor Prof. Ourisson as his deputy had been able to attend the meeting. Dr. A. F. Langlykke had acted for the Union in Budapest at the ad hoc Group on Agriculture and he had assisted subsequently in preparing an IUPAC entry for the ICSU directory of international organizations concerned with the advancement of agriculture.

###### 6.2.2/78 Nominations for Officers

Two Past-Presidents of the Union, Prof. J. Bénard and Dr. R. W. Cairns, were suggested as possible IUPAC nominations for the Vice-Presidency of ICSU. Three possible IUPAC candidates from less developed countries were also suggested: Prof. A. Abou-El-Azm, Prof. R. C. Mehrotra and Prof. C. N. R. Rao. Dr. Williams was asked to discuss the matter with the Executive Secretary of ICSU who he would be visiting shortly, and report back to Prof. Smets. The latter would then decide whether IUPAC should nominate a candidate and who it should be.

###### 6.2.3/78 Applications for Admission

It was left to the judgement of Prof. Smets, as official representative of IUPAC to the 17th ICSU General Assembly (Athens, 78.09.24-29), to decide whether to support any applications for admission to ICSU.

###### 6.2.4/78 Allocations from UNESCO Subvention

The Executive Committee noted the suggestion of the ICSU Finance Committee that, because there were no simple criteria for quantifying activities of the various Unions, the least unfair method was to divide equally among the Unions the balance of the UNESCO subvention after grants had been made to special projects. It was agreed to inform ICSU that, should IUPAC receive a reduced basic allocation (provisionally US-\$8 500 instead of US-\$16 000), financial subventions to IUPAC-sponsored international symposia would have to be reduced accordingly.

##### 6.3/78 ICSU Abstracting Board

Dr. J. W. Barrett was unable to act as the official representative of IUPAC at the 1978 meetings of ICSU AB (Toulon, 78.07.08-14). Prof. Ourisson was

unwilling to deputize because he was not a documentation-information specialist. Following an extended discussion in which Prof. Horn, having contacted documentation experts in FGR, spoke strongly against the continued need for IUPAC to collaborate, it was decided for IUPAC to retain membership of ICSU AB for the present and to invite Dr. A. Kent (or Mr. D. Baker) to represent the interests of IUPAC at Toulon. Continuation of participation in 1979 by IUPAC would be judged on the activity of the ICSU AB Working Party in Chemistry.

#### 6.4/78 ICSU Scientific Committee on Problems of Environment

It was agreed to support financially, if necessary, the participation as an observer of Dr. H. Egan at the forthcoming meeting of the SCOPE Executive Committee (Puschino, 78.05.15-17) and to check if there was still a membership vacancy on that body.

#### 6.5/78 ICSU Committee on Genetic Experimentation

After discussion whether IUPAC should assume an active role in COGENE, the Executive Committee decided (5 in favour, 1 against) to appoint an official representative to act for the Union. Prof. Emanuel suggested Prof. L. P. Kayushin and Prof. K. E. Krugljakova (Institute of Chemical Physics, Academy of Sciences of USSR) as suitable candidates. Sir Derek Barton said that Dr. D. Koshland would be acceptable to represent chemistry from some names put forward by Prof. P. Berg, who had acted for IUPAC at the 1977 meeting of COGENE. Dr. Cairns proposed Dr. A. F. Langlykke, who was currently Vice-President of the  $\Delta$  and working at the Frederick Cancer Research Center in USA. It was left for Prof. Smets to decide on the representative.

Applied  
Chemistry  
Division

#### 6.6/78 Standing Orders for Joint Commissions with Other International Unions

##### 6.6.1/78 IUB-IUPAC Joint Commission on Biochemical Nomenclature

Revised draft standing orders regarding the IUB-IUPAC Joint Commission on Biochemical Nomenclature (JCBN), tabled at Warsaw but deferred because of lack of time (Minute 25/77, 88th Executive Committee), were considered. A number of minor changes reflecting current IUPAC practice were suggested by the Executive Committee, which preferred the Secretary to be one of the eight Members of JCBN and appointed by the Presidents of the two Unions. The sum of the years of service as an ordinary Member and as Chairman or Secretary should not exceed ten years (see Appendix C).

It was agreed that IUPAC would contribute £311.90 in 1978 towards the office expenses of the Secretary of JCBN and, subject to provision of a budget, £100 in 1979.

##### 6.6.2/78 IUB-IUPAB-IUPAC Commission on Biothermodynamics

Standing orders regarding the IUB-IUPAB-IUPAC Commission on Biothermodynamics (see Appendix D), based on the previously approved tasks and membership (Minute 3.1.2/76, 85th Executive Committee - Villefranche), were accepted by the Executive Committee. They should be reviewed in two years time to see how they worked out in practice. IUPAC would have preferred to use "Titular Members" rather than "regular Members", and it was normal practice for a Commission to nominate its Chairman but for a higher authority (President or Executive Committee) to approve the appointment. Nothing was mentioned about publication authority, and IUPAC was not prepared to assign full publication authority to the Interunion Commission.

The Executive Committee reaffirmed its previous decision (Minute 3.1.2/76) to pay the travel and subsistence expenses of the two IUPAC regular Members

to attend one meeting per year, rather than for the three Unions to pay an equal share of the expenses of all regular Members. The proposed location of Washington DC for the 1978 meeting was approved.

#### 6.7/78 Report on US National Committee's Awardees Programme

A report was received on the USNC-Awardees programme for 1977. Of twelve nominees approved for travel awards to the Warsaw General Assembly, eight scientists had eventually attended Commission meetings at Warsaw and been accepted as working participants in their activities. The programme was to be continued in 1978, with an emphasis to involve younger chemists from chemical industry in IUPAC affairs.

The Executive Committee applauded the initiative of USNC and expressed the hope that other countries would shortly follow the steps taken in UK and USA.

#### 6.8/78 Status of Taiwan in IUPAC

Prof. Smets proposed that, in conformity with the existing practice of ICSU, all reference to "Republic of China" be replaced in IUPAC records by "Taiwan". Also, he advocated that "Chinese Chemical Society" should be changed to "Taiwanese Chemical Society" or simply to "Chemical Society". The Executive Committee approved these proposals, except that it preferred the wording "Chemical Society", and agreed that the National Adhering Organization in Taiwan be informed of the changes.

Prof. Ourisson, in conjunction with Sir Derek Barton, was asked to contact Peking's Cultural Attaché in Paris about possible participation of the People's Republic of China in IUPAC and observer attendance at the Davos General Assembly.

#### 6.9/78 Proposed International Chemical Society

Dr. Cairns outlined the background to Prof. G. T. Seaborg's proposal to form an International Chemical Society (ICS), which had culminated in an informal meeting at Warsaw (77.08.20) of representatives from Canada, Japan, USA and FECS. He anticipated that, in due course, IUPAC would receive a proposal via the American Chemical Society and US National Committee for Divisional membership of external individuals within the Union for a fee of US-\$10, entitling them to receive a Divisional newsletter, participate in elections to Division Committees, and be eligible for a reduced registration fee to symposia sponsored by the Union.

Prof. Ourisson drew attention to alternative suggestions to an ICS made by Dr. J. W. Barrett at Warsaw, such as the possibility of national chemical societies becoming Company Associates of IUPAC. Dr. Cairns doubted if ACS would be satisfied with Company Associate status.

#### 6.10/78 Matters Raised by British National Committee for Chemistry

Consideration of a letter from BNCC (dated 77.07.22) at Warsaw had been deferred because of lack of time (Minute 25/77, 88th Executive Committee). That letter had been superseded by one dated 78.03.03.

Of various suggestions for improving the dissemination of IUPAC final recommendations on nomenclature and symbols, Sir Derek Barton was firmly in favour of their continued publication in Pure and Applied Chemistry. He was not opposed to their republication in entirety or in abstract form in the proposed new news journal of the Union.

BNCC was still of the opinion that the compilation of trivial names was a worthwhile activity to be undertaken by IUPAC. ICAG had recommended that a summary listing of existing compilations of trivial names should be prepared for circulation, comment, and addition by NCAG convenors, and Dr. H. Egan had agreed to prepare such a summary listing (Minute 7/77, Warsaw). IDCNS had concluded that the Applied Chemistry Division might assume the initiative with a compilation of documents in the field, after which a decision could be reached on how to update and extend the material (Minute 3(g)/77, Warsaw). The Executive Committee left it for IDCNS to review the situation after replies had been received from NCAG convenors to Dr. Egan's summary listing.

#### 6.11/78 Iraqi Chemical Society

An application was considered for membership of the Union (Category B1) by the Iraqi Chemical Society. The Executive Committee agreed to ask the Bureau to recommend acceptance of the application by Council and to invite an observer to attend the Davos General Assembly.

#### 6.12/78 ICSU Policy Group on Scientific Information

A preliminary draft paper by Prof. J. Ziman on "Scientific Needs in Developing Countries" was tabled, attention having been drawn by Dr. J. W. Barrett to a possible input from the international scientific unions. No action was agreed by the Executive Committee.

#### 6.13/78 Union of Arab Chemists

The Executive Committee agreed to ask the Bureau to recommend acceptance by Council at Davos of an application for Associated Organization status of IUPAC by the Union of Arab Chemists.

#### 6.14/78 Democratic People's Republic of Korea

Prof. Emanuel reported briefly on scientific aspects of his recent visit as leader of an official delegation from USSR to the Democratic People's Republic of Korea. The Executive Committee accepted his proposal to send relevant documentation about IUPAC with a view to soliciting an application to join the Union from the Academy of Sciences of the Democratic People's Republic of Korea in Phyongyang.

Minute 7/78

### NOMINATIONS OF NEW OFFICERS AND MEMBERS OF IUPAC BODIES

#### 7.1/78 Ratification of Nominations Approved by Correspondence

The nominations of new Members (Bylaw 4.304) of IUPAC bodies, approved through correspondence by the President since the 38th Bureau meeting (see Appendix E), were ratified by the Executive Committee. Approval was given for the reelection of Prof. A. R. H. Cole (Australia) as an Associate Member of the Commission on Physical Organic Chemistry for a further four years (1977-1981).

#### 7.2/78 Standing Committee on Chemistry and Industry

, on behalf  
of the  
President,

The nomination by Dr. Cairns of Dr. R. J. Fawcett (USA) for membership of the new Committee on Chemistry and Industry (CCI) was accepted by the Executive Committee, as was his approach recently to Dr. J. Montet (France). Dr. Cairns was asked to contact Teijin Ltd. about a suitable member from Japan. The nomination by Prof. Smets of Ir. R. Mormont (Belgium) was approved and

it was agreed that he should invite Dr. J. W. Barrett to act for UK. Prof. Horn would ascertain a suitable member from chemical industry in Federal Republic of Germany.

The following member countries (regions) of IUPAC had more than one Company Associate and were therefore eligible for membership of CCI: Arab Republic of Egypt, Czechoslovakia, Italy, Switzerland, and Scandinavia. The President would write to the relevant National Adhering Organizations or NCAG convenors, and also decide about the Chairmanship of CCI.

The Executive Committee accepted the recommendation of the Finance Committee (Minute 5.9/78, Zurich) to allocate US-\$1 500 from the 1978 reserve for Standing Committees as seed money for an inaugural meeting of CCI in late 1978.

#### 7.3/78 New Nominations

The following nominations (Bylaws 4.303 and 4.304), supported where necessary by the relevant Division President, were approved by the Executive Committee:-

(i) Commission on Physical Organic Chemistry:

Chairman - Prof. J. F. Bunnett to replace Prof. H. Zollinger (Vice-President of IUPAC), who should retire immediately from Titular Membership rather than at Davos;

(ii) IUB-IUPAC Joint Commission on Biochemical Nomenclature:

Member (1978-1982) - Dr. G. P. Moss (UK) to replace Prof. W. Klyne (deceased);

(iii) Commission on High Temperatures and Refractory Materials:

Titular Member (1977-1981) - Prof. K. Komarek (Austria) to fill a vacancy.

In addition, the Executive Committee agreed

- (iv) to allow an increase in Associate Members from eight to nine (Bylaw 4.304) during 1977-1979 for the Commission on Photochemistry, in order to rectify the inadvertent omission from the membership at Warsaw of Dr. D. W. Turner as an Associate Member (1975-1979);
- (v) to allow an increase in Associate Members from eight to nine (Bylaw 4.304) during 1977-1979 for the Commission on Nomenclature of Organic Chemistry, in order to accommodate Dr. L. C. Cross (UK) as a new Associate Member (1977-1981);
- (vi) to change the Standing Orders for IDCNS (Minute 14.1/75, 34th Bureau - Madrid) so that from Davos onwards each Division should have only one representative (if necessary, deputies would be allowed to attend meetings of IDCNS).

Minute 8/78

#### SPONSORSHIP: REPRESENTATION, SPONSORSHIP, SUBVENTION

#### 8.1/78 Ratification of Sponsorships Approved by Correspondence

The sponsorship of symposia, approved by the President by correspondence

since the 37th Bureau meeting (see Appendix F), was ratified by the Executive Committee.

8.2/78 Ratification of Official Representatives to Symposia in 1978

The appointments of official representatives of IUPAC to its sponsored symposia in 1977, as made by the President by correspondence since the 37th Bureau meeting (see Appendix G), were ratified by the Executive Committee.

8.3/78 International Symposium on Chemical Education in the Coming Decades  
(Ljubljana: 77.08.25-31)

The organizers had requested IUPAC (letter dated 78.01.16) to grant US-\$5 000 to cover half of the deficit on the meeting. The Executive Committee noted that the Bureau (Minute 6.4/76, 36th Meeting - Strasbourg) had previously considered an application for a subvention of US-\$5 000 to the Symposium, but had decided not to give any financial support. It was agreed to grant US-\$1 000 to help cover the deficit, without condition regarding publication of the proceedings, and to point out that the organizers should have made better financial arrangements prior to the meeting.

8.4/78 II IUPAC Symposium on Organic Synthesis  
(Jerusalem/Haifa: 78.09.11-15)

After considering the draft budget for the meeting, the Executive Committee agreed to grant US-\$1 000 as a deficit guarantee.

8.5/78 XI International Symposium on Chemistry of Natural Products  
(Varna: 78.09.17-23)

It was noted that the President of the Organic Chemistry Division no longer recommended that any subvention be granted by IUPAC to the meeting.

Minute 9/78

PUBLICATION MATTERS

9.1/78 Minutes of Committee on Publications (77.08.12-15)

The Minutes of the Meeting at Warsaw of the Committee on Publications were recorded as having been received officially by the Executive Committee.

Prof. Smets was strongly against rejection by the Scientific Editor of PAC on scientific grounds of any symposium paper (Minute 4.1/77). Also, he was opposed to any preselection by IUPAC for publication from within the main lectures invited by symposia organizers. The Executive Committee believed that scientific excellence was the duty of symposia organizers, but confirmed that actual presentation (language and format) for publication was the responsibility of the Scientific Editor. Prof. Ourisson agreed to convey the concern of the President and Executive Committee to the Committee on Publications about its present policies on rejection and preselection.

It was noted that, in order to avoid delays, all papers from a particular symposium were no longer being published in the same issue of PAC.

9.2/78 Progress in Reorganization of IUPAC Publications Structure

The Committee on Publications had proposed (Minute 14.2/77) that the Union should start in 1979 a new monthly news journal to replace the present



Information Bulletin (and its Appendixes) and Part B of the Comptes Rendus. A chemist-journalist should be appointed in the Secretariat to act as editor of the new journal and as Information Officer of the Union.

The cost estimates for the project made by Pergamon Press at Warsaw had been revised at the start of 1978. After considering the reactions of the Chairman of the Committee on Publications and Secretary General, the Finance Committee (Minute 2.5/78, Zürich) had given its full support to the project and recommended that IUPAC should:

- (i) meet the costs of the editor (salary for second half of 1978 and for the whole of 1979) from its reserves;
- (ii) waive any royalty on the new journal during 1979, but not contribute to any losses suffered by Pergamon in 1979 or thereafter;
- (iii) receive a 13% royalty on each subscription to the new journal for 1980 and for 1981, such royalties to contribute to the minimum annual royalty guarantee in those years;
- (iv) review the situation with Pergamon at the end of 1981.

The recommendations were accepted by the Executive Committee.

The Executive Secretary advised that the new journal should be issued only bimonthly during the first year. The Union would also need to decide whether to continue for the new journal its present policies for the Information Bulletin of:

- (i) distributing copies gratis to members of all IUPAC bodies;
- (ii) providing bulk copies gratis to National Adhering Organizations.

The Secretary General spoke briefly about progress during 1978 in the interim towards establishment of the new journal

- Comptes Rendus-Part A from the Warsaw General Assembly had just been published as Membership Lists of IUPAC Bodies: 1977-1979
- the Information Bulletin would comprise three issues, with format and cover design similar to PAC
- the first Bulletin (June 1978) would include the Council material from Warsaw, previously published in Comptes Rendus-Part B
- synopsis minutes of Commission meetings at Warsaw would appear in the other two Bulletins (provisionally September and December 1978)
- Appendixes on Provisional Nomenclature Recommendations would be incorporated into the Bulletin itself.

#### 9.3/78 Scientific Editors of PAC

The Secretary General reported that, as a result of reviewing the status of IUPAC publications with the Chairman of the Committee on Publications at the Secretariat (77.12.08), he had asked Profs. G. F. Cullis and D. N. Kirk to complete their duties as Scientific Editors of PAC at the end of 1977. Dr. Grünwald had agreed to act as Scientific Editor until a permanent replacement was considered by the Committee on Publications (Oxford, 78.04.25-26).

9.4/78 International Technical Seminar

Prof. Ourisson outlined the aims for an International Technical Seminar of Editors of Chemistry Journals (see Minute 18.2.4/77, 88th Executive Committee - Warsaw), with limited attendance, to be organized by the Committee on Publications for three-four full days at Strasbourg during May 1979.

9.5/78 Membership

The Executive Committee noted that, in accordance with the advice of the Committee on Publications (Minute 10/77, Warsaw), the President had appointed as new Members from the start of 1978: Prof. S. Claessen (Sweden), Mr. T. H. G. Michael (Canada), Dr. D. P. den Os (Netherlands), and Dr. I. A. Williams (UK).

9.6/78 IUPAC Project Programmes Listing

In view of the numerous changes to the IUPAC Project Programmes Listing (as of May 1977), the British National Committee for Chemistry had urged the Union (letter of 78.03.03) to bring forward to 1978 the updating scheduled for 1979. Taking into consideration the future workload of the Secretariat, however, the Executive Committee reaffirmed the previous decision to produce the Listing on a biennial basis (Minute 2.2.2/76, 36th Bureau - Strasbourg).

Minute 10/78

DIVISIONAL RULES

10.1/78 Physical Chemistry Division/Macromolecular Division

The finally revised Physical Chemistry Division Rules tabled at Warsaw (Minute 17/77, 37th Bureau) and Macromolecular Division Rules elaborated more recently were considered by the Executive Committee and found to be in accord with the general policy of the Union and its Statutes and Bylaws. The Bureau would be asked to recommend approval of these Rules by Council at Davos (Statute 10.3).

10.2/78 Analytical Chemistry Division

The Executive Committee was unhappy to be asked to accept such detailed Rules as those submitted by the Analytical Chemistry Division (Minute 17/77, 37th Bureau - Warsaw). The Division Committee should be asked to consider resubmitting its Rules in simplified form like those of the Physical Chemistry and Macromolecular Divisions.

Regarding specific Rules, the Executive Committee advised that:

Rule 1.104 - Bylaw 4.103 did not prohibit an ordinary Member of a Division Committee, having completed a term of four consecutive years, from being reelected after a further two years had elapsed.

Rule 1.109 - Bylaw 4.104 specifically restricted election of a Division Secretary to Division Committee Members and it was not permissible to extend the election to all Division Members.

Rule 1.110 - although Bylaw 4.103 did not prohibit a fair geographical representation for Division Committee Members, the formal geographical distribution proposed by the Analytical Chemistry Division was unacceptable.

Minute 11/78

REVIEW OF FUNCTIONING OF IUPAC SECRETARIAT

The Executive Secretary was pleased to report that, after an extended period of secretarial changes and low morale, all staff positions were now competently filled. He was confident that the Secretariat would once again be able to provide a fully efficient service to the Union.

The President was anxious to improve liaison between the Officers of the Union and those of Divisions and Commissions. He advocated more use being made of the telephone, and would present his ideas in greater detail to the Division Presidents at Brussels.

Minute 12/78

DATE AND PLACE OF NEXT MEETING

The Executive Committee agreed to meet on 31 August 1978 at Brussels, immediately prior to the 39th Meeting of the Bureau.

Minute 13/78

ANY OTHER BUSINESS

13.1/78 UNESCO European Experts Committee on Polymer Science

Prof. Smets reported briefly on his discussions with Dr. J. Jaz of UNESCO, regarding membership of a UNESCO Committee to meet in Leuven during November 1978 to consider requirements in the teaching of macromolecular chemistry. This subject had been tackled in a preliminary manner within the Macromolecular Division a few years ago. He intended to discuss with the Macromolecular Division Committee (London, 78.08.29) how to effect further collaboration between IUPAC and UNESCO in the field of macromolecules.

13.2/78 50th Anniversary of USSR Institute of Chemical Physics

The Union had already committed itself to holding the 1981 Congress in Vancouver (Minute 22.2/77, 29th Council - Warsaw). Nevertheless, Prof. Emanuel was given permission to enquire if the Canadian National Committee for IUPAC would agree to transfer that meeting to 1983, so that the 1981 Congress might be in Moscow to celebrate the 50th anniversary of the foundation of the Institute of Chemical Physics of the Academy of Sciences of USSR. As long as there was no clash of dates with the Vancouver Congress, the Executive Committee saw no difficulty in organizing an IUPAC-sponsored symposium in Moscow during 1981.

VOTES OF THANKS

Votes of thanks were recorded to Comité National Français de la Chimie and to the Recteur de l'Académie de Nice for the provision of hospitality and services.

\* \* \* \* \*

CHAIRMAN: 

DATE: 31 Aug 1978

APPENDIX C

STANDING ORDERS REGARDING IUB-IUPAC  
JOINT COMMISSION ON BIOCHEMICAL NOMENCLATURE

Composition and Terms of Office

- (i) There shall be a standing IUB-IUPAC Joint Commission on Biochemical Nomenclature (JCBN) composed of eight Members, one of whom shall serve as Chairman and one as Secretary.
- (ii) The Chairman and Secretary shall each be appointed for a term of three years by the Presidents of the two Unions, subject to whatever ratification is imposed by Union Statutes and Bylaws. JCBN may propose names of persons suitably qualified for appointment.
- (iii) Four of the Members shall be appointed by IUB and four by IUPAC. One of the four IUB Members shall be an Officer of the IUB Committee of Editors of Biochemical Journals (CEBJ).
- (iv) The Members appointed by IUB shall also be Members of the Nomenclature Committee of IUB (NC-IUB).
- (v) Candidates for membership may be proposed by the Commission and shall be appointed by the respective Unions.
- (vi) The periods of service of Members shall be in accordance with the Statutes and Bylaws of the appointing Union. The sum of the years of service as an ordinary Member and as Chairman or Secretary shall not exceed ten years.

Terms of Reference

- (i) To consider the nomenclature and symbolic representation of natural products and related compounds including synthetic analogues, and, where appropriate, to make recommendations in conformity with those issued by other nomenclature Commissions of IUB and IUPAC.
- (ii) Before recommending any material for publication as an IUB-IUPAC document, to ensure that the fullest possible consultations have taken place and the widest possible consensus has been reached with the appropriate bodies of the two Unions. For IUPAC, these are the Interdivisional Committee on Nomenclature and Symbols (IDCNS), or, through IDCNS, the appropriate divisional nomenclature Commissions. For IUB, these are NC-IUB and CEBJ.
- (iii) Approval to publish any material as an IUB-IUPAC document is to be obtained, in the case of IUPAC, from IDCNS, and, in the case of IUB, from the IUB Executive Committee.
- (iv) The Commission shall normally hold an annual meeting, concurrently with NC-IUB, and with the approval of the President of IUPAC and the Executive Committee of IUB.

APPENDIX C (continued)

- (v) The Commission shall be entitled to invite observers from other Commissions and experts in special fields to attend the meeting. The respective Executive Committees shall be asked in advance to defray any expenses that would arise from such an invitation.
  
- (vi) The continuation of JCBN will be reviewed by the Executive Committees of the two Unions in 1980.

## APPENDIX D

### STANDING ORDERS REGARDING IUB-IUPAB-IUPAC COMMISSION ON BIOTHERMODYNAMICS

#### Composition and Terms of Office

- (i) There shall be a standing IUB-IUPAB-IUPAC Commission on Biothermodynamics composed of a Chairman, five other regular Members and up to six Associate Members.
- (ii) Each Union, in consultation with the Commission, shall appoint two of the regular Members. The Commission shall appoint its Associate Members. The regular Members shall elect the Chairman from among themselves.
- (iii) The initial period of appointment of regular Members shall be three years. Appointments shall be renewable for additional three-year terms up to a maximum of nine years.
- (iv) The period of appointment of Associate Members shall be two years. Appointments of Associate Members shall be renewable for additional terms with no set limits.

#### Terms of Reference

- (i) To advise the Unions on matters relating to the applications of thermodynamics in biology; in particular, to survey the status of research in this field, to promote the compilation and evaluation of relevant thermodynamic data and their correct presentation by thermodynamic functions, and to appraise the value of thermodynamic information for the development of biology.
- (ii) To make recommendations on nomenclature in biothermodynamics and to formulate guidelines for the presentation of thermodynamic data relating to biological systems.
- (iii) To initiate, sponsor, and organize meetings and conferences on biothermodynamic topics, both within the existing framework of the Union meetings and as independent activities. To act as a central source of information on meetings, workshops, and training courses dealing with research and education in biothermodynamics and to act as a means of coordinating and arranging such activities.
- (iv) To encourage and participate actively in the preparation and publication of monographs in the field of biothermodynamics.

APPENDIX A

IUPAC GENERAL PURPOSES BUDGET 1978 \*

(as of 3 April 1978)

INCOME

Subscriptions from National Adhering Organizations

Current year 207 000  
Outstanding 10 000

Subscriptions from Company Associates

62 000

Interests & Dividends Earned

30 000

Subvention from ICSU

16 000

Transfer from Capital Account

14 400

Transfer from Publications Account

4 300

EXPENDITURE

Office Expenses

Secretary General & Officers 5 500  
IUPAC Secretariat 56 000•  
Redecoration of Secretariat 1 200  
Audit, Bank Fees & Other Charges 15 300

Travel, Subsistence, Administration of IUPAC Bodies

Withheld 1976 Divisional Funds 10 800  
Warsaw General Assembly 5 000  
Unused 1977 Divisional Funds 14 000  
Unused 1977 New & Extended Activities Funds 400  
1978 Allocation 200 000

Contributions to Symposia

10 000

Other Expenses

Contributions to ICSU and ICSU Committees 6 000  
IUPAC Representatives on Other Organizations 4 000

General Contingency Fund

5 000

Excess of Income over Expenditure

343 700

333 200

10 500

343 700

\* All figures in US-dollars

• Includes mandatory higher social security charges both to employer (and to employees)

IUPAC PUBLICATIONS BUDGET 1978 \*

(as of 3 April 1978)

<u>INCOME</u>		<u>EXPENDITURE</u>	
Publications (Pergamon)	50 000	Scientific Editors	5 000
Publications (Secretariat)	1 000	Assistant Secretary (Publications) & Typist	16 300*
Transfer from Capital Account	27 800	Comptes Rendus and Inf. Bull. from Pergamon	27 800
		News Journal Editor	8 000
		Share of IUPAC Secretariat Costs	17 400
			<hr/>
		Excess of Income over Expenditure	74 500
			<hr/>
			4 300
			<hr/>
			78 800
			<hr/>

\* All figures in US-dollars

• Includes mandatory higher social security charges both to employer (and to employees)



APPENDIX B

IUPAC GENERAL PURPOSES BUDGET 1979 \*

(as of 3 April 1978)

INCOME

Subscriptions from National  
Adhering Organizations

Current year 210 000  
Outstanding 10 000

Subscriptions from  
Company Associates

64 500

Interest & Dividends Earned

30 000

Subvention from ICSU

16 000

EXPENDITURE

Office Expenses

Secretary General & Officers 5 500  
IUPAC Secretariat 61 600  
Audit, Bank Fees & Other  
Charges 17 300 84 400

Travel, Subsistence, Administration  
of IUPAC Bodies

Meetings other than General  
Assembly 30 000  
General Assembly 260 000 290 000

Other Expenses

Free Membership Lists &  
Inf. Bulls. 12 000  
Contributions to ICSU &  
ICSU Committees 6 000  
IUPAC Representatives on  
Other Organizations 4 000 22 000

General Contingency Fund

80 000 5 000

Transfer from Publications Account

410 500 9 100

410 500

\* All figures in US-dollars

IUPAC PUBLICATIONS BUDGET 1979 \*  
(as of 3 April 1978)

<u>INCOME</u>		<u>EXPENDITURE</u>	
Publications (Pergamon)	50 000	Scientific Editors	5 000
Publications (Secretariat)	1 000	Assistant Secretary (Publications) & Typist	18 000
Free Membership Lists & Inf. Bull.	12 000	Purchase of Membership Lists (1977-9) & Inf. Bulls. (3)	12 000
	<hr style="width: 50%; margin-left: 0;"/>	News Journal Editor	18 000
Excess of Expenditure over Income	9 100	Share of IUPAC Secretariat Costs	19 100
	<hr style="width: 50%; margin-left: 0;"/>		<hr style="width: 50%; margin-left: 0;"/>
	72 100		72 100
	<hr style="width: 50%; margin-left: 0;"/>		<hr style="width: 50%; margin-left: 0;"/>

\* All figures in US-dollars

NOMINATIONS OF NEW OFFICERS AND MEMBERS  
OF IUPAC BODIES APPROVED BY PRESIDENT  
SINCE 38th BUREAU MEETING

1. Commission on Nomenclature of Organic Chemistry  
Titular Member (1953-1979) - Prof. N. LOZAC'H (France)  
(to fill temporarily vacancy  
arising from death of Prof.  
W. KLYNE)
2. Commission on High Temperatures and Refractory Materials  
Titular Member (1977-1981) - Dr. A. M. ANTHONY (France)  
Associate Member (1977-1981) - Prof. E. FITZER (FRG)
3. Commission on Physical Organic Chemistry  
Associate Member (1977-1981) - Dr. J. REEDIJK (Netherlands)
4. Commission on Atmospheric Environment  
Associate Members (1977-1981) - Mr. M. M. BENARIE (France)  
Dr. O. H. KILLINGMO (Sweden)
5. Commission on Water Quality  
Titular Member (1977-1981) - Mr. P. SCHJØDTZ-HANSEN (Denmark)
6. Commission on Reclamation of Solid Wastes  
Titular Member (1977-1981) - Mr. L. G. LINDFORS (Sweden)

SPONSORSHIP OF SYMPOSIA APPROVED BY  
PRESIDENT SINCE 37th BUREAU MEETING

- International Congress of Photographic Science 1978  
(Rochester/New York, USA: 78.08.20-26)
- 2nd International Symposium on Scientific Bases for Preparation  
of Heterogeneous Catalysts  
(Louvain-la-Neuve, Belgium: 78.09.04-06)
- International Symposium on Polymer Dispersions  
(Dresden, GDR: 78.09.04-06)
- 6th International Conference on Raman Spectroscopy  
(Bangalore, India: 78.09.04-09)
- International Symposium on Frontiers in Bioorganic Chemistry and  
Molecular Biology  
(Tashkent and Moscow, USSR: 78.09.25-78.10.02)
- World Conference on Vegetable Food Protein  
(Amsterdam, Netherlands: 78.10.29-78.11.03)
- 5th Conference on Modified Polymers, Their Preparation and Properties  
(Bratislava, Czechoslovakia: 79.07.02-05)
- 19th and 20th Prague Microsymposia on Macromolecules  
(Prague, Czechoslovakia: 79.07.09-12 and 16-19)
- 4th IUPAC Symposium on Mycotoxins and Phycotoxins  
(Lausanne, Switzerland: 79.08.30-79.09.01)
- 9th International Conference on Organometallic Chemistry  
(Dijon, France: 79.09.03-07)
- 6th International Fermentation Symposium  
(London/Ontario, Canada: 80.07.20-27)
- 3rd IUPAC Symposium on Organic Synthesis  
(USA: 1980)

OFFICIAL REPRESENTATIVES OF IUPAC TO SYMPOSIA IN 1978

UNESCO International Congress on Role of Laboratory Courses in Chemistry  
in Universities

(Perth, Australia: 78.02.13-17) - Prof. C. N. R. RAO

International Symposium on Harmonization of Collaborative Analytical Studies

(London, UK: 78.03.9-10) - Prof. T. S. WEST

9th International Symposium on Carbohydrate Chemistry

(London, UK: 78.04.10-14) - Prof. V. GOLD

World Conference on Future Sources of Organic Raw Materials

(Toronto, Canada: 78.07.10-13) - Prof. G. SMETS

18th Prague Microsymposium on Macromolecules

(Prague, Czechoslovakia: 78.07.10-13) - Prof. C. G. OVERBERGER

4th International Congress of Pesticide Chemistry

(Zürich, Switzerland: 78.07.24-28) - Dr. H. FREHSE

7th IUPAC Symposium on Photochemistry

(Leuven, Belgium: 78.07.24-28) - Prof. G. SMETS