

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 82nd MEETING OF EXECUTIVE COMMITTEE

HELD AT INSTITUTE OF CHEMICAL PHYSICS, MOSCOW

ON

FRIDAY-SATURDAY, 28 FEBRUARY - 1 MARCH 1975 at 10.00

PRESENT:

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

IN ATTENDANCE:

Dr. M. Williams	- Executive Secretary
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Minute 1/75

#### INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Because of illness the arrival of Prof. Smets in Moscow was delayed until the afternoon of 28th February.

At the suggestion of the President, the following Agenda items were added to the listing in the file for the meeting:

- 2.2.3 Revision of Statutes and Bylaws
- 2.2.4 Visas for Participation in IUPAC Meetings
- 7.11 CODATA
- 10.10 VII International Congress on Surface Active Substances
- 10.11 Proposal from EUCHEM
- 17 Involvement of Younger Chemists in IUPAC Activities

Minute 2/75

#### MINUTES OF 81st MEETING OF EXECUTIVE COMMITTEE

##### 2.1/75 Amendments and Approval of Minutes

The Minutes of the 81st Meeting of the Executive Committee were approved.

##### 2.2/75 Matters Arising from Minutes

##### 2.2.1/75 IUPAC Representative on CODATA (Minute 25.2.5/74)

Sir Harold Thompson reported that Prof. D. H. Whiffen had accepted the invitation to act as official representative of IUPAC on CODATA.

##### 2.2.2/75 Terms of Reference of Standing Committees (Minute 32/74)

After considering comments made by the Committee on Statutes and Bylaws on the draft Standing Orders of the Executive Committee, it was agreed:

(i) In the case of the IUPAC-IUB Commission on Biochemical Nomenclature, to replace "IUB" in (i) of Composition and Terms of Office by "International Union of Biochemistry (IUB)". Regarding appointment of the Chairman and Secretary, Sir Harold Thompson was asked to suggest to IUB that the choice should be made jointly by the Presidents of the two Unions, for a definite period of service, say 3 years.

(ii) In the case of the Coordinating Committee for Analytical Methods for CEE and IARC, to delete the words "without special permission of the Executive Committee" and "normally" in (vi) of Composition and Terms of Office, in agreement with other Standing Committees. Subject to these changes, the Standing Orders regarding the Coordinating Committee were given final approval by the Executive Committee (see Appendix A).

##### 2.2.3/75 Revision of Statutes and Bylaws

The revised version of the 1965 IUPAC Statutes and Bylaws had been circulated to the National Adhering Organizations on 1 November 1974, for consideration of adoption by Council at the 28th IUPAC Conference. No comments had been received, and the Executive Committee concluded that the member countries were satisfied with the revision. It was pleased to note this, because any changes of a substantive nature would be very difficult to accommodate at a late date due to the



complex inter-relationship among most of the Statutes and Bylaws.

#### 2.2.4/75 Visas for Participation in IUPAC Meetings

Sir Harold Thompson reported that the procedure adopted by IUPAC with respect to entry visas in connexion with its sponsored meetings [Minute 14.1/74, 33rd Bureau (Brussels)], had been commended at the 15th General Assembly of ICSU for observance by other Unions. In view of the difficulties encountered in 1974, he had informed the Czechoslovak Academy of Sciences of the procedure. A number of actions had been taken through the Secretariat to ensure wide awareness of the new procedure.

The President referred briefly to the circumstances surrounding the participation of Prof. G. B. Bokii (USSR) in the meeting of the IUPAC Interdivisional Committee on Machine Documentation in the Chemical Field at Columbus, Ohio (74.10.16-19). It was now clear that an entry visa to USA would have been granted if application had been made at an earlier date and fuller information provided.

Minute 3/75

#### MINUTES OF MEETINGS OF BUREAU (33rd), DIVISION PRESIDENTS (74.8.30), FINANCE COMMITTEE (75.2.17-18)

##### 3.1/75 Minutes of 33rd Bureau Meeting

##### 3.1.1/75 Elements 104 and 105: and 106 Onwards (Minute 3.2/74)

Sir Harold Thompson reported that the neutral group of experts had duly been set up. Dr. E. K. Hyde (Berkeley) had been invited to initiate an exchange of representatives between the Berkeley and Dubna laboratories. Instead, he had prepared a summary of recent contacts between the two laboratories and a statement of the remaining barriers towards the exchange of personnel and repetition of the experiments regarding elements 104 and 105. Probably, the USSR members of the neutral group should now be asked to submit some documentation on how they viewed the problem in general terms. It seemed pointless to press for implementation of the exchange programmes until an assessment could be made of how the two sides considered the situation.

Regarding names for elements 106 and following, the views of Sir Derek Barton (letter of 74.8.31) and the proposals of the Commission on Nomenclature of Inorganic Chemistry (Munich, 1973) had been circulated to the Bureau for comment in writing. After considering the comments so far submitted, the Executive Committee agreed to inform the Bureau that it was not in favour of the adoption by IUPAC of the Inorganic Nomenclature Commission proposals. It would recommend that the views of Sir Derek Barton should be published in the Information Bulletin for comment by the international chemical community.

##### 3.1.2/75 Contract Work with CEE (Minute 9/74)

Because IUPAC was still undertaking experimental work in some cases, only 12 methods had been submitted by the deadline for fulfilment of the 1974 contract with CEE. Although IUPAC had hoped to supply the outstanding 5 methods during the first half of 1975, CEE had unexpectedly wound up the contract and decided to pay the Union in proportion to the extent of its execution.

Prof. Truhaut had subsequently been to Brussels, and his long and detailed account of the recent troubled history of the IUPAC-CEE relationship was summarized by Dr. Gally. It was noted that:



(i) CEE would seek a mechanism to pay IUPAC the money for the 5 methods still under study.

(ii) A contract would be established by CEE for execution by IUPAC in 1976.

(iii) A joint IUPAC-CEE meeting would be arranged in mid-1975 to consider CEE criticisms of methods supplied by IUPAC under contract over the past several years.

According to the newly approved Standing Orders for the Coordinating Committee for Analytical Methods (see Appendix A), Prof. Truhaut would complete his term as Chairman during 1975. The Executive Committee agreed that the President should inform him of the position, and try to arrange to visit Brussels with Prof. Truhaut for further discussions on the future collaboration between CEE and IUPAC. Preferably, the discussions should be held prior to the 28th IUPAC Conference.

### 3.1.3/75 Collaboration with ISO: Proposals of Analytical Chemistry Division (Minute 10/74)

Before reviewing its proposals on collaboration with ISO, the Analytical Chemistry Division had reiterated its request for guidance from the Bureau (Executive Committee) on the extent and method of collaboration. Both the President and the Secretary General stressed the importance of collaboration of IUPAC with ISO and with other international agencies, such as CEE, UNESCO, FAO, WHO. IUPAC should continue to send, on a selective basis, representatives to meetings of ISO Technical Committees. In principle, the Executive Committee was in favour of granting a note of IUPAC approval to relevant ISO Standards. It was noted that a heavy load of extra work would arise, particularly for the Analytical Chemistry Division, for which some additional financial support might be needed.

### 3.1.4/75 Interunion Commission on Biothermodynamics (Minute 12/74)

Dr. Gallay reported that IUB had agreed careful control would be needed over the administrative expenses of the Interunion Commission. Also, IUB had reaffirmed the agreement with respect to publications reached at Stockholm in 1972. The Executive Committee asked Dr. Gallay to stimulate a reply from IUPAC on the reservations expressed by the Bureau, otherwise it was now in favour of IUPAC support for and participation in the work of the Interunion Commission. It was noted that the parent Unions would shortly receive a document concerning recommendations for standard conditions, etc.

### 3.2/75 Minutes of Division Presidents Meeting (74.8.30)

The Minutes of the meeting of Division Presidents held in Brussels were recorded as having been received officially by the Executive Committee.

### 3.3/75 Minutes of Finance Committee Meeting (75.2.17-18)

No Minutes were available yet from the meeting of the Finance Committee held recently in Zürich, but a report on the deliberations had been submitted by the Chairman, Dr. J. W. Barrett.

The Executive Committee supported the recommendation that a study should be made of methods for improving the transfer of information on IUPAC, but thought it would be advisable to await developments at the meeting of the International Company Associates Group in Paris on 27 March 1975. In principle, the Executive Committee agreed that the Company Associates should have an ex-officio Member on the Bureau. Sir Harold Thompson was requested to discuss the matter with Dr. Barrett, especially as regards timing.



The suggestion to make available some additional money during 1975-6 for really worthwhile new and/or extended activities was favourably received. Despite some reservations, the Executive Committee decided to support, to the Bureau, the recommendation that the privilege for Company Associates to receive Pure and Applied Chemistry at half price should be withdrawn at the end of 1975.

Minute 4/75

#### FINANCIAL MATTERS

##### 4.1/75 Statement of Accounts for 1974

The Treasurer said that the improvement in 1974 from a budgetted surplus of \$13,000 to an actual surplus of \$97,000 was due largely to:

- (i) greater than anticipated response by National Adhering Organizations to the revised subscription scheme (\$8,000 better than budget, after reallocations),
- (ii) more income from Company Associates (\$9,000 better than budget, after reallocations),
- (iii) major improvement in income from investments (\$11,500 over budget),
- (iv) decreased spending by Divisions (\$26,000 below budget).

However, Prof. Horn was concerned at the level of outstanding national subscriptions in recent years. The Finance Committee would be recommending the introduction of a surcharge if a subscription was not paid before 31 December.

Sir Harold Thompson was grateful for the good work of the Treasurer, but he felt that care should be taken to achieve a proper balance between surplus of funds and restrictions in expenditure on Divisional activities. Also, the level of the Union's reserves was likely to receive adverse criticism from UNESCO and ICSU.

The revised Statement of Income and Expenditure for 1974 was approved by the Executive Committee.

##### 4.2/75 Revised Budget for 1975

The latest version of the budget for 1975 (see Appendix B) was presented by Prof. Horn. It included modifications, introduced at the recent meeting of the Finance Committee, in the light of the performance of IUPAC in 1974 and the anticipated financial climate of 1975. As proposed previously by the Finance Committee and accepted by the Executive Committee, there was now a separation of the Publications Budget (surplus of income over expenditure of \$5,000) from the General Purposes Budget (excess of expenditure over income of \$14,000). The Treasurer was apprehensive that expenditure on the 28th IUPAC Conference could be limited to \$175,500, although he hoped to get some donations from Spanish chemical industry. Because of the worsening performance of Butterworths, the Executive Secretary said that royalties on publications might be lower than budgetted. For 1976, Prof. Horn indicated that the preliminary budget showed an excess of expenditure over income of \$5,000.

In view of the present high level of inflation throughout the world, the Executive Committee felt that the financial position of IUPAC was reasonably secure. There was agreement with the conclusion of the Finance Committee that it was not feasible presently to separate Company Associate subscriptions, even in part, from national subscriptions to the Union.



#### 4.3/75 Residual Division Contingency Funds from 1974

The Executive Committee decided that the \$26,000 remaining unspent from Divisional funds in 1974 could be used by the Divisions as they wished during 1975. The Clinical Chemistry Section had overspent its allocation for 1975. It was agreed by the Executive Committee that the deficit could be set against the allocation for 1976, but that no extra funds could be provided to the Clinical Chemistry Section in 1975.

#### 4.4/75 Subsistence Expenses for Travel Days

The Executive Committee noted that the per diem allowance had been raised by the Treasurer to \$30 for 1975, except for the 28th IUPAC Conference for which the Bureau had already agreed a special rate of \$33 [Minute 4/74, page 4, 33rd meeting (Brussels)]. At the request of the President, the Finance Committee had recently discussed whether the Union should have a scale of subsistence allowances for various cities throughout the world. The Executive Secretary reported the recommendation of the Finance Committee, that the list of ICSU daily allowances should be used as a guideline, but not be adopted officially by IUPAC. Discussion of this matter showed there to exist a strong feeling within the Executive Committee of the need for some different levels of subsistence at IUPAC meetings. The Treasurer was asked to provide, for consideration at the next meeting of the Executive Committee and possible recommendation to the Bureau, a breakdown of countries into say three different categories of subsistence allowance.

The policy for Titular Members to receive subsistence for one extra day to cover intracontinental travel, but two extra days for intercontinental travel, was reviewed [Minute 432, 64th Executive Committee (Oxford)]. Starting in 1976 and unless exceptional circumstances arose, the Executive Committee agreed that there should be subsistence for one extra day only for travel to all IUPAC meetings.

#### 4.5/75 Proposals for Financial Support from Trusts and Foundations

No suggestions had been made by the Commission on Equilibrium Data as to trusts and foundations which were likely to be sympathetic to its two data compilation projects. The Executive Secretary reported a lack of progress with respect to the other projects selected for possible funding from trusts and foundations. The more detailed documents requested for consideration by the Executive Committee were still outstanding.

#### 4.6/75 Financial Statements Requested by ICSU and UNESCO

The Executive Committee agreed that the principles for application of a grant from ICSU in 1976 should be similar to those in previous years, namely to provide subventions to a number of international symposia sponsored by IUPAC and to meet the travel and subsistence expenses for convening meetings of IUPAC bodies concerned with environmental and nomenclature matters. The exact details of the application would be settled by the President and Treasurer when a decision had been made later in the present meeting as to the extent of any subventions to symposia by IUPAC in 1976.

As a recipient of an annual grant from the UNESCO subvention to ICSU, the Comptroller of UNESCO insisted that IUPAC must provide a full audited account to the ICSU Treasurer not later than three months after the end of each financial year. Prof. Horn pointed out that IUPAC accounts were audited only on a biennial basis. The Executive Committee instructed the Treasurer to send to ICSU only an audited biennial Statement of Income and Expenditure and no data about the investments of IUPAC.



The International Unions had been asked to provide ICSU with certain financial information regarding their income and expenditure for the years 1970 through 1974. The Executive Committee decided that the IUPAC Banker should compile the necessary information, but that it should be inspected carefully by the President and Treasurer before submission to ICSU.

Minute 5/75

#### 28th IUPAC CONFERENCE

##### 5.1/75 Status Report on Arrangements

The Executive Secretary said that the status of arrangements for the Conference, as covered in a written report from the Assistant Secretary, was reasonably satisfactory although several aspects still needed to be worked out in detail. Mr. Ratcliffe would be leaving the employment of IUPAC at the end of February. The Executive Committee accepted the suggestion of Dr. Williams that the new Assistant Secretary, Miss A. Troughton, should visit Madrid no later than the end of May to inspect the various sites and complete all local arrangements.

The Treasurer proposed that the use of organized travel arrangements should now be made mandatory from all parts of the world to all future meetings of IUPAC bodies. Consideration of this proposal by the Executive Committee was deferred to see how such arrangements worked out in practice for the 28th IUPAC Conference.

##### 5.2/75 Council Agenda

A draft Agenda for the Council meeting, prepared by the Executive Secretary, was approved by the Executive Committee subject to insertion of an additional item "Proposals from National Bodies". The latter was intended to allow discussion of a number of matters proposed by National Committees, such as "Office of Secretary General" (see Minute 5.4/75). It was agreed that the President should decide at the start of the actual meeting of Council in Madrid the exact order of Agenda items, and particularly when it would be best to consider the Revised Statutes and Bylaws. In view of the wide interest in the subject, Sir Harold Thompson suggested that it might be worthwhile to ask the Interdivisional Committee on Machine Documentation in the Chemical Field to report to a future Council meeting rather than report simply to the Bureau at Conference.

##### 5.3/75 Elections

The Secretary General had advised the National Adhering Organizations (by letter of 30 January 1975) of the vacancies which would need to be filled in respect of Officers of the Union and of Elected Members of the Bureau. It was noted by the Executive Committee that Prof. Horn had been renominated for the Office of Treasurer. Mr. Arnold indicated that he would shortly put in writing his wish to resign from the Bureau at the end of the Council meeting in Madrid.

##### 5.4/75 Proposals from Deutscher Zentrallausschuss für Chemie, Schweizerischer Komitee für Chemie, and Israel Chemical Society

A proposal from Federal Republic of Germany and from Switzerland to dissolve the Committee on Statutes and Bylaws could be introduced under the existing Agenda item "Proposals for New Bodies and Dissolution of Existing Bodies". Other proposals from Federal Republic of Germany (regarding Office of Secretary General and Period of Office of Treasurer) had been accommodated by the additional Agenda item already agreed (see Minute 5.2/75). The Secretary General was asked to circularize urgently the National Adhering Organizations for invitations to host the 29th and 30th IUPAC Conferences (1977 and 1979, respectively). It was



noted that Israel had reaffirmed its invitation for the 29th Conference to be held in that country.

#### 5.5/75 Continuation of Associated Organizations

The Executive Committee approved the suggestion of the President that it was reasonable to request each existing Associated Organization to submit, by 1 July 1975, a short statement of its current activities. These reports could be reviewed briefly by the Bureau in Madrid and recommendations made to Council for continuation of membership.

Minute 6/75

#### MEMBERSHIP

##### 6.1/75 Status of Nigeria

The national subscription to the Union from Nigeria was outstanding from 1972 onwards. After prolonged difficulties in obtaining an answer to IUPAC correspondence, the Science Association of Nigeria had reported that the Nigerian National Committee of IUPAC did not seem to be properly in existence. A proposal from the Association to let Statute 9.2 run its full course was accepted by the Executive Committee: Nigeria would be 4 years in arrears at the end of 1975 and cease to be a Member of the Union. The matter should be drawn to the attention of Council by the Treasurer in his Biennial Report at the 28th IUPAC Conference.

##### 6.2/75 Membership of China

Sir Harold Thompson had written to the Scientific and Technical Association of the People's Republic of China, indicating that the Bureau would welcome an application to join IUPAC. No reply had been received as yet. This information would be reported by the President to ICSU, which had enquired about any recent efforts to establish contact with the People's Republic of China.

##### 6.3/75 Applications for Associated Organization Status

###### 6.3.1/75 Association of Editors of European Chemistry Journals (EdEuChem)

Because of its late submission, the Bureau had deferred consideration of an application from EdEuChem to the present meeting of the Executive Committee [Minute 5.2/74, 33rd Bureau (Brussels)]. Although some doubts were expressed by the President, it was agreed that the Bureau should be requested to recommend Council to accept the application at the 28th IUPAC Conference.

###### 6.3.2/75 International Association for Water Pollution Research (IAWPR)

There had been official collaboration between IAWPR and the IUPAC Section on Water Quality since 1970 [Minute 503, 67th Executive Committee (Oxford)], and IAWPR had now applied formally for Associated Organization status of the Union. This seemed anomalous when IAWPR was already affiliated with ICSU. Nevertheless, the Executive Committee decided to ask the Bureau to recommend to Council that the application should be approved.

###### 6.3.3/75 International Confederation for Thermal Analysis (ICTA)

Regarding an application from ICTA, it was noted there had been collaboration already with the Commissions on Analytical Nomenclature and on Physico-chemical Measurements and Standards. The Bureau would be advised that the application should be accepted by Council.



#### 6.4/75 Federation of European Chemical Societies (FECS)

The President expressed grave concern at certain aspects of the official report of the 1974 General Assembly of FECS and at some more recent activities of the Federation. This concern was shared by the Royal Society and by the Chemical Society in UK. Certain changes in the functioning of FECS were now being proposed by the Chemical Society. If these were accepted by the Federation, Sir Harold Thompson felt that FECS should continue as an Associated Organization of IUPAC. The Executive Committee would review the situation at its next meeting.

#### 6.5/75 Canadian National Adhering Organization of IUPAC

Dr. Gallay indicated that the National Research Council of Canada was taking action to revitalize the Canadian National Committee for IUPAC. It had asked the Chemical Institute of Canada to undertake the future organization and operation of the National Committee. A formal letter would shortly be sent to IUPAC confirming the change. Meanwhile, IUPAC documentation could already be mailed for the attention of the new Secretary, Mr. T. H. G. Michael.

Minute 7/75

#### RELATIONS WITH OTHER ORGANIZATIONS

The files for the meeting contained a list of official representatives of IUPAC appointed by the President to some meetings of other organizations in 1974 [Appendix C: cf. Appendix A, 81st Executive Committee (Brussels)]. These appointments were ratified by the Executive Committee. Sir Harold Thompson said that a report on any meeting in which a Member of the Executive Committee was interested could be obtained from the Secretariat.

#### 7.1/75 15th General Assembly of ICSU

Brief consideration was given by the Executive Committee to the resolutions from the 1974 General Assembly of ICSU. It was agreed that IUPAC should not participate in the proposed International Solar System Decade, unless a definite need emerged for the involvement of chemistry.

#### 7.2/75 COSPAR

IUPAC had been invited to participate in an ad hoc meeting, at the 18th Plenary Meeting of COSPAR (Varna: 75.5.29-75.6.7), of an organizing committee to elaborate a proposal for creation of a Working Party on Material Sciences in Space. Sir Harold Thompson would inform COSPAR that it was difficult at this stage to see that IUPAC could make a suitable contribution. However, if it became clear that chemical matters were involved, IUPAC was ready to reconsider the question of its participation.

#### 7.3/75 COSTED

An initiative by IUPAC to collect journals and books, donated by individuals and institutions for distribution to developing countries, was noted. Progress would be watched with interest by the Executive Committee to see if IUPAC might take any similar action.

#### 7.4/75 SCOPE

As a first step towards achieving the longterm objectives of SCOPE, Dr. Gallay said that a midterm programme had been formulated for 1974-6. This programme comprised a group of seven core projects, representing in the view of



SCOPE the most critical global issues. Centres, with full-time staff, were being established throughout the world to handle the projects.

7.5/75 International Union of Immunological Sciences (IUIS)

The Executive Committee agreed that IUPAC should act as a sponsor for admission of IUIS to full membership of ICSU. Dr. Gallay would send a written statement of support to the Secretary General of IUIS.

7.6/75 International Federation of Solvent Extraction Chemistry and Technology

The probable formation of the Federation was noted by the Executive Committee, and its intention to apply for Associated Organization status of IUPAC.

7.7/75 International Mathematical Union (IMU)

IMU had proposed the creation of a joint working group with IUPAC on group theory and quantum chemistry. Sir Harold Thompson had sought the advice of appropriate Division Presidents, but there was presently no enthusiasm within IUPAC for the proposal and he had informed IMU accordingly.

7.8/75 IUPAC-IUB Commission on Biochemical Nomenclature (CBN)

A letter had been received from IUB, initiating discussion with IUPAC on the question of whether CBN should continue as a joint Commission of the two Unions or whether IUB should in due course take over full responsibility for biochemical nomenclature. The Executive Committee decided to refer the question for the advice of the Presidents of the Organic Chemistry and Macromolecular Divisions and of their respective Nomenclature Commissions.

7.9/75 UN Conference on Human Settlements

After briefly considering material concerning the Conference (Vancouver: 76.5.31-76.6.11), the Executive Committee concluded that there was insufficient justification for participation by IUPAC.

7.10/75 UNESCO Contracts on Teaching of Chemistry

Sir Harold Thompson referred to a request from UNESCO for IUPAC to provide, under contract, professional services related to the organization and implementation of a laboratory workshop in general chemistry at the university level. On the advice of the Chairman of the Committee on Teaching of Chemistry, Prof. C. N. R. Rao, he had recommended appointment of Dr. D. J. Waddington as consultant for the workshop and signed the contract on behalf of IUPAC. The actions of the President were endorsed by the Executive Committee.

The Executive Secretary said that UNESCO would probably also be seeking the help of IUPAC in respect of a workshop on natural product chemistry. Also, the Committee on Teaching of Chemistry was trying to solicit financial support from UNESCO for various projects in 1975.

7.11/75 CODATA

CODATA was no longer able to provide copies of its Newsletters and Bulletins gratis for distribution to National Adhering Organizations and Company Associates of IUPAC. The Executive Committee was not in favour of purchase of bulk copies by IUPAC at a special price. Subject to approval by CODATA, however, it was willing to advise Company Associates that they might subscribe to the Bulletin at a reduced rate.



Minute 8/75

PROPOSALS FOR NEW IUPAC BODIES

8.1/75 Possible Formation of Division of Health and Environmental Chemistry

Considering the principal existing and probable future activities of the Applied Chemistry Division, Mr. Arnold suggested that it would be appropriate to reform it into a Division of Health and Environmental Chemistry, thereby recognizing the growing importance of these areas. Other activities of IUPAC having a close connexion with health and conservation of the environment, such as medicinal chemistry and clinical chemistry, might be moved simultaneously into the retitled Division. Any new applied chemistry projects initiated within the Union should be allocated to the existing Division for which the chemistry was most appropriate.

These suggestions were well received by the Executive Committee. It was agreed to circulate a memorandum from Mr. Arnold to the Bureau well in advance of the 28th IUPAC Conference. If accepted by the Bureau in Madrid, the suggestions would be mentioned to Council with the intention to move forward to implementation over the next biennium.

8.2/75 Proposals for Division Status for Clinical Chemistry Section and Medicinal Chemistry Section

In view of the proposal to form a Division of Health and Environmental Chemistry (see Minute 8.1/75), the Executive Committee felt that it was inopportune to reach any conclusion regarding elevation to Division status of the Clinical Chemistry Section [see Minute 7/74, page 7, 33rd Bureau (Brussels)] or of the Medicinal Chemistry Section (memorandum still outstanding). The two cases for elevation should be considered by the Bureau in Madrid in relation to the proposed Division of Health and Environmental Chemistry.

8.3/75 Proposed IUPAC-IUPHAR Symposium

Sir Harold Thompson had referred a suggestion from the International Union of Pharmacology for an inter-Union Symposium in 1976 on structure activity problems and chemical and physical approaches to mechanism of drug action, for comment by the Clinical Chemistry Section and its Commission on Toxicology and by the Section on Medicinal Chemistry. In spite of some clash with the International Symposium on Clinical Chemistry and Chemical Toxicology of Metals (see Minute 10.9/75), the President was asked to discuss the suggestion further with IUPHAR.

Minute 9/75

NOMINATIONS OF NEW MEMBERS OF IUPAC BODIES

9.1/75 Ratification of Nominations of New Officers and Members Approved by Correspondence through Executive Committee

Those nominations for new Officers and Members of IUPAC bodies approved by correspondence through the Executive Committee since the 33rd Bureau meeting (Appendix D) were ratified by the Executive Committee.

9.2/75 Nominations of New Members of IUPAC Bodies

(i) Having received the support of the President of the Organic Chemistry Division, Prof. A. Kjaer, the nominations of Dr. W. H. Powell (USA) and Dr. H. J. Ziegler (Switzerland) as new Associate Members of the Commission on Nomenclature of Organic Chemistry were approved by the Executive Committee.



(ii) The Executive Committee endorsed the appointment of Prof. E. F. Westrum, Jr. (USA) as representative of CODATA on the Sub-Commission on Compilation of Stability Constant Data for Metal Complexes in Solution.

Minute 10/75

SPONSORSHIP: REPRESENTATION, SPONSORSHIP, SUBVENTION

10.1/75 Ratification of Symposia Sponsored by Correspondence through Executive Committee

The granting of sponsorship, by correspondence through the Executive Committee since the 33rd Bureau meeting, was ratified by the Executive Committee for the following symposia:

V International Conference on Atomic Masses and Fundamental Constants (Paris, France: 75.6.2-6)

I Symposium International de Chimie Heterocyclique Minerale (ou Inorganique) (Besançon, France: 75.6.16-19)

XII European Congress of Molecular Spectroscopy (Strasbourg, France: 75.7.1-4)

XV Prague Microsymposium on Macromolecules (Prague, Czechoslovakia: 75.7.21-24)

XVIII Colloquium Spectroscopicum Internationale (Grenoble, France: 75.9.15-19)

III International Symposium on Bioelectrochemistry (Jülich, Federal Republic of Germany: 75.10.27-31)

XVIII International Conference on Coordination Chemistry (São Paulo, Brazil: 77.7.18-23)

10.2/75 Ratification of Official Representatives of IUPAC to Symposia in 1975

The Executive Secretary reported that investigations were in progress to ascertain suitable persons for appointment by the President as official representatives of IUPAC to its sponsored symposia in 1975. The only appointment made to date by Sir Harold Thompson was ratified by the Executive Committee:

II International Congress on Industrial Waste Water and Wastes (Stockholm, Sweden: 75.2.4-7) - Prof. H. Suomalainen

10.3/75 X International Symposium on Chemistry of Natural Products (Dunedin, 76.8.23-28)

After an extended discussion of the granting of financial subventions to IUPAC symposia and noting the present financial situation of the Union, the Executive Committee agreed in principle, to use the whole of the 1976 grant from ICSU for such subventions (cf. Minute 4.6/75).

A subvention of \$2,000 was granted as a deficit guarantee to the X National Products meeting. Dr. Gallay had already advised the organizers to approach UNESCO directly rather than through IUPAC for financial support.

10.4/75 III IUPAC Conference on Physical Organic Chemistry (Montpellier, September 1976)

A new budget was examined in detail [cf. Minute 14.6/74, 33rd Bureau (Brussels)] and the recommendation of the President of the Organic Chemistry Division (Prof. A. Kjaer) noted. Subvention of \$1,000 granted as a deficit guarantee.



10.5/75 II Microsymposium on Photochemical Processes in High Polymers (Leuven, June 1976)

Supported by Macromolecular Division. Sponsorship granted, with publication of 9-10 main lectures by IUPAC.

10.6/75 II International Symposium on Polyvinylchloride (Lyon-Villeurbanne, 76.7.5-9)

Supported by Macromolecular Division. Sponsorship granted, with publication of 8 main lectures by IUPAC.

10.7/75 International Symposium on Microchemical Techniques-1977 (Davos, 77.5.22-27)

Supported by Analytical Chemistry Division. Sponsorship granted, with publication of approximately 8 plenary lectures by IUPAC.

10.8/75 Symposium on Analytical Chemistry in Exploration, Mining, and Processing of Materials (Johannesburg, 76.8.22-27)

Supported by Analytical Chemistry Division. Sponsorship granted, with publication of plenary lectures by IUPAC.

10.9/75 International Symposium on Clinical Chemistry and Chemical Toxicology of Metals (Monte Carlo, October 1976)

Being organized by Commission on Toxicology and supported by Clinical Chemistry Section. IUPAC publication position not yet investigated. Sponsorship approved, subject to satisfactory resolution of publication position. Subvention of \$1,000 granted as a deficit guarantee.

10.10/75 VII International Congress on Surface Active Substances (Moscow, 76.9.13-18)

Sir Harold Thompson read out a recent letter from CID, requesting IUPAC sponsorship and its representation at a forthcoming meeting of the Scientific Committee. Such representation was felt to be unnecessary by the Executive Committee, although it approved sponsorship in principle. The organizers should complete an Advance Information Questionnaire, the support of the Physical Chemistry Division be checked, and the publications position resolved satisfactorily.

10.11/75 Proposal from EUCHEM

Sir Harold Thompson reported that, at the recent EUCHEM Conferences annual meeting in Rome, it had been suggested IUPAC might sponsor a symposium on Techniques for Information Retrieval in Chemistry. The Executive Committee agreed that such a meeting would be beneficial to the chemical community and prestigious for the Union. The preliminary ideas of the President were approved: a two-day meeting at the Royal Society (London), in the summer of 1976, with about 6 international speakers. He would seek the advice of the Chairman of the Interdivisional Committee on Machine Documentation in the Chemical Field and of relevant Division Presidents, with a view to forming a small organizing committee, then present an outline plan to the Bureau in Madrid.



Minute 11/75

## PUBLICATIONS

### 11.1/75 Interim Meeting of Committee on Publications (74.11.13)

As requested by the Bureau [Minute 17.1/74, page 14, 33rd meeting (Brussels)], specifications had been drawn up for circulation to a number of international publishing companies, inviting them to tender for appointment as official publisher to IUPAC.

### 11.2/75 Status Report on Tendering as Official Publisher to IUPAC

Replies from the various international publishing companies invited to tender for the contract as official publisher to IUPAC had been considered at a second interim meeting of the Committee on Publications (75.2.24). A report on the deliberations and a letter from the Chairman (Prof. G. Ourisson) were noted by the Executive Committee. It was agreed to limit further negotiations to Elsevier, Pergamon, and Verlag Chemie, with a view to the urgent appointment of a new publisher from the start of 1976 and termination of the present contract with Butterworths at the end of 1975.

### 11.3/75 Discontinuation of Symposia Offprints from PAC

In the view of Butterworths, the demand for hard-cover offprints of symposia material from Pure and Applied Chemistry was inadequate to justify their continuation. Prof. Ourisson had proposed instead that, from the beginning of 1976, individual issues of PAC should be made available for sale. At its first interim meeting (74.11.13), the Committee on Publications had reaffirmed its support for this change of policy.

Sir Harold Thompson was unable to agree to the change. The Executive Committee approved his suggestion to defer consideration until the matter could be evaluated with the new publisher to IUPAC.

### 11.4/75 International Thermodynamic Tables of Fluid State

Interest had been expressed in the possibility of reprinting in the USSR, presumably in translated form, of the tables for argon and ethylene from this series. The Executive Committee accepted the recommendation of Butterworths that a fee of 10% of the USSR published price should be paid for the whole contemplated edition of 5000 copies.

The Executive Committee approved a suggestion that funds held in USSR on behalf of the IUPAC Thermodynamic Tables Project should be used to convene a meeting in Moscow during 1976 of scientists from throughout the world who were participating in the Project.

### 11.5/75 Membership of Committee on Publications

Brief consideration was given to a letter from the President of the Applied Chemistry Division (Dr. H. Egan), suggesting that the Committee on Publications might include applied chemists in its future membership. The view of the Committee at its second interim meeting (75.2.24) was that its members were not concerned with 'pure' or 'applied' material as such, but with the professional aspects of material referred for the attention of the Committee. Nevertheless, Sir Harold Thompson gave notice of his intention to propose at the next meeting of the Executive Committee that a change be made in the Standing Orders for the Committee on Publications, to allow six instead of five members, additional to the Chairman, so that a suitable applied chemist might be added to the present membership.



#### 11.6/75 Subscription for 1975 to Information Bulletin

The Executive Committee approved a recommendation from the Treasurer, supported by the Chairman of the Committee on Publications and Scientific Editor of the Union, that the subscription for 1975 (surface post) to the Bulletin should be raised to \$12.00 (£4.00). The corresponding prices for air postage would be:

Bulletin by air, Appendices by surface	\$16.00 (£5.33)
Bulletin by surface, Appendices by air	\$19.50 (£6.50)
Bulletin and Appendices by air	\$22.50 (£7.50)

#### 11.7/75 Provision of Material for Photo-offset Printing

There was an increasing demand for the Union to meet the costs of careful initial typing of reports, especially data compilations, by IUPAC bodies when the printing was to be by photo-offset. However, even by use of photo-offset, the costs of making data compilations available in book form were becoming prohibitive. The Executive Committee recommended that these problems should be discussed with the new publisher to the Union, noting that microfiche might be the best means of issuing data material in future.

#### 11.8/75 Molecular Characterization of Polyethylene

A report from the Working Party on Molecular Characterization of Commercial Polymers, entitled "Molecular Characterization of Polyethylene", had been submitted by the President of the Macromolecular Division (Prof. H. Benoît) for publication by IUPAC. Subject to confirmation by the Chairman of the Committee on Publications and the Scientific Editor of the Union, the Executive Committee recommended that the report be published in Pure and Applied Chemistry.

#### 11.9/75 Ion Exchange Equilibrium Constants

The President of the Analytical Chemistry Division (Prof. N. Tanaka) had approved publication of a report from the Commission on Equilibrium Data entitled "Ion Exchange Equilibrium Constants". The recommendation by the Chairman of the Committee on Publications and Scientific Editor of the Union that it be issued as an additional publication was approved by the Executive Committee.

Minute 12/75

#### NOMENCLATURE MATTERS

#### 12.1/75 Reorganization of Interdivisional Committee on Nomenclature and Symbols (IDCNS)

As proposed by the Bureau [Minute 11/74, 33rd meeting (Brussels)], the opinions of the Divisions had been solicited regarding the suggestions of Prof. M. L. McGlashan for implementing the reorganization. The complexity of the matter was clearly illustrated by the wide range of comments submitted. The Executive Committee agreed that IDCNS should be replaced as soon as possible by two bodies, one to deal with names of chemical substances (NCS) and the other with names and symbols for physicochemical quantities and units (PQU). However, it did not support the envisaged dissolution of any existing Commissions responsible for nomenclature and symbols matters. The President offered to draft some terms of reference for NCS and PQU and to indicate which Commission Chairmen should report to each of them, for consideration at the 28th IUPAC Conference. There should be a few independent experts as members of both NCS and PQU.



## 12.2/75 Trivial Names

The Secretary General said that he had been aware for some time of an increasing need in international trade and commerce for some standardization of trivial names for chemical substances. He had delayed raising the matter for discussion by the Executive Committee until reorganization of IDCNS was completed. However, IUPAC had now been asked by the British National Committee for Chemistry to take action on the matter. The existing Nomenclature Commissions were not necessarily the appropriate IUPAC bodies to tackle it, although it would be essential to have liaison between those involved in systematic nomenclature and in trivial names. The willingness of the Applied Chemistry Division, with the help of the Company Associates, to undertake the work was noted. Sir Harold Thompson would invite Dr. H. Egan to prepare a summary document for consideration by the Bureau in Madrid.

## 12.3/75 International Information Centre for Terminology (INFOTERM)

A pressing need for coordination of terminological activities carried out throughout the world had been met in 1971, with the assistance of UNESCO and within the framework of UNISIST (World Information System for Science and Technology), by the establishment of INFOTERM in Vienna. As a first step towards coordination, it was organizing an international symposium to provide a general view of the subject (75.4.9-11). Because of shortage of funds the Executive Committee was unable to accept an invitation for IUPAC to be represented in Vienna. However, in addition to general background information already supplied by the Executive Secretary, the President would offer any help to INFOTERM as regards terminology in chemistry.

Minute 13/75

## RENEWAL OF LEASE ON IUPAC SECRETARIAT

The Executive Secretary reported the principal terms for renewing the leases on the two offices constituting the IUPAC Secretariat. Noting the higher rentals with regret, the Executive Committee agreed that the Union should take out a lease on each office for a second period of 7 years commencing 24 June 1975.

Minute 14/75

## PROGRAMME FOR 26th IUPAC CONGRESS

Sir Harold Thompson reported the concern of the British National Committee for Chemistry about the programme content of some IUPAC Congresses. That at Hamburg (1973) was felt to have been well balanced, but too many topics were covered at Boston (1971). It was too early to make any judgement yet for Jerusalem (1975).

The Executive Committee re-examined the preliminary plans for the 1977 Congress in Tokyo, which had been presented to the Bureau recently [Minute 15/74, 33rd meeting (Brussels)]. The President was asked to inform the organizers, through Prof. S. Shibata, that Sections B, C, D, and E, should not in themselves each generate a wide programme, otherwise the overall scope of the Congress might become too extensive.

Minute 15/75

## DRAFT RULES OF PHYSICAL CHEMISTRY DIVISION

Draft Rules of the Physical Chemistry Division had been submitted for comment



by the Executive Committee. Consideration was deferred, pending acceptance by Council at the 28th IUPAC Conference of the revised Statutes and Bylaws of the Union. Meanwhile, the Draft Rules should be reviewed by the Committee on Statutes and Bylaws to check if there were any contradictions with the revised Statutes and Bylaws.

Minute 16/75

DATE AND PLACE OF NEXT MEETING

The next meeting of the Executive Committee was scheduled to take place in Madrid on 7 September 1975 during the 28th IUPAC Conference.

Minute 17/75

INVOLVEMENT OF YOUNGER CHEMISTS IN IUPAC ACTIVITIES

The Executive Committee disapproved of a suggestion that part of the increased USA annual subscription to the Union in 1975 should be deducted to provide funds for involvement of younger chemists in IUPAC activities [Minute 3.4/74, 33rd Bureau (Brussels)]. Mr. Arnold and Dr. Cairns would inform Prof. C. G. Overberger accordingly. Sir Harold Thompson was optimistic regarding some financial support from Denmark through Prof. A. Kjaer and Prof. S. Veibel. Some activity had been initiated in France by Prof. Bénard in conjunction with Prof. G. Ourisson. Prof. Horn agreed to discuss the matter with Deutscher Zentralausschuss für Chemie.

VOTES OF THANKS

Formal thanks were to be recorded to Prof. Emanuel and his colleagues for all arrangements and help in organizing the meeting. The Executive Committee was grateful for the good hospitality provided by the Academy of Sciences of USSR. Finally, thanks were expressed for preparation of the papers for the meeting by the IUPAC Secretariat.

\* \* \* \* \*

The Meeting closed at 13.00.

Chairman: ..... *H. V. Manfacc* .....

Date: ..... *Sep 7. 1975* .....



## APPENDIX A

### STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING COORDINATING COMMITTEE FOR ANALYTICAL METHODS FOR CEE AND IARC

#### Composition and Terms of Office

- (i) There shall be a standing Coordinating Committee for Analytical Methods for the Communauté Européenne Economique (CEE) and the WHO International Agency for Research on Cancer (IARC), composed of a Chairman, a Secretary, and six other Members.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Coordinating Committee may propose candidates.
- (iii) The maximum period of service of ordinary Members shall be eight years.
- (iv) The Membership shall be reviewed every two years by the incoming President in consultation with the Executive Committee.
- (v) The President in consultation with the Executive Committee shall appoint the Chairman and the Secretary. The Coordinating Committee may propose candidates.
- (vi) The period of service of the Chairman and of the Secretary shall not exceed eight years. 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) On behalf of the President and the Executive Committee to fulfil the requirements of the annual contract of CEE with IUPAC for the provision of analytical methods.
- (ii) To advise the President and the Executive Committee on analytical methods in connexion with IARC.



## APPENDIX B

## IUPAC GENERAL PURPOSES BUDGET 1975\*

(as of 18 February 1975)

<u>INCOME</u>		<u>EXPENDITURE</u>	
<u>Subscriptions from National Adhering Organizations</u>	168,850	<u>Office Expenses</u>	
		Secretary General & Officers	4,000
<u>Subscriptions from Company Associates</u>	61,500	IUPAC Secretariat	49,240
<u>Interest &amp; Dividends Earned</u>	30,000	Audit, Bank Fees and Other Charges	11,000
			64,240
<u>Other Income</u>		<u>Travel, Subsistence, Administration</u>	
Contract with UNESCO	9,000	<u>IUPAC Bodies</u>	
Subvention from ICSU	16,000	Meetings other than Conference	14,500
Special Subvention for Conference	11,600	Conference	175,500
	36,000	Residual Divisional Contingency Funds from 1974	26,000
	296,950	Teaching Symposium (Madrid)	2,500
<u>Transfer from Publications Account</u>	8,085		218,500
	305,035	<u>Other Expenses</u>	
		Contract with UNESCO	8,500
		Contributions to ICSU and ICSU Committees	4,551
		IUPAC Representatives on Other Organizations	1,500
		PAC for Company Associates	10,282
		Free Inf. Bull. & Appendices	6,400
			31,233
<u>Excess of Expenditure over Income</u>	13,938	<u>General Contingency Fund</u>	5,000
	318,973		318,973

\* All figures in US dollars



IUPAC PUBLICATIONS BUDGET 1975\*

(as of 18 February 1975)

<u>INCOME</u>			<u>EXPENDITURE</u>	
Publications (Butterworths)		27,071	Scientific Editors	1,568
Publications (Secretariat)		6,909	Assistant Secretary (Publications) & Typist	14,811
PAC for Company Associates			Printing of Inf. Bull. (3) & Appendices	12,718
Payments by Company Associates	6,480		Postage of Inf. Bull. & Appendices	1,489
Transfer from General Purposes Account	10,282	16,762	Share of IUPAC Secretariat Costs	18,471
Free Inf. Bull. & Appendices		6,400		49,057
			Excess of Income over Expenditure	8,085
		<hr/> 57,142 <hr/>		<hr/> 57,142 <hr/>

\* All figures in US dollars



AT MEETING OF OTHER ORGANIZATIONS1974

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

ICSU Committee on Teaching of Science (Paris, France: 74.5.28-30) - Mr. D. G. Chisman (UK)

18th Session of Joint FAO-WHO Committee of Experts on Food Additives (Rome, Italy: 74.6.4-13) - Dr. Marcuse (Sweden) and Dr. K. Kojima (Japan)

1st Meeting of CID International Commission on Ecology (Basel, Switzerland: 74.6.21) - Dr. H. Hadorn

9th CODATA General Assembly (Yerevan, USSR: 74.6.28-29) - Dr. R. N. Jones (Canada)

1974 Session of WHO Regional Committee for the Eastern Mediterranean (Alexandria, Arab Republic of Egypt: 74.9.10-13) - Prof. H. A. M. Tawfic (Arab Republic of Egypt)

Comité Consultatif des Unites de Comité International des Poids et Mesures (Sèvres, France: 74.9.18-20) - Prof. M. L. McGlashan (UK)

1974 Session of WHO Regional Committee for the Americas (Washington, DC, USA: 74.9.24-74.10.5) - Prof. M. Rubin (USA) and Dr. B. H. Armbrrecht (USA)

11th Meeting of ISO/TC 34: Agricultural Food Products (The Hague, Netherlands: 74.9.26-27) - Dr. P. L. Schuller (Netherlands) and Drs. H. J. Vos (Netherlands)

18th Meeting of CID International Commission on Analysis (Basel, Switzerland: 74.10.3-4) - Drs. P. W. Hendrikse (Netherlands)

IFCC Executive Board Meeting (Harrow, UK: 74.10.4-5) - Dr. D. B. Tonks (Canada) and Dr. M. Roth (Switzerland)

19th Meeting of CID International Commission on Terminology (Moscow, USSR: 74.10.22-23) - Prof. H. Van Olphen (USA)

9th Meeting of ISO/TC 91: Surface Active Agents (Paris, France: 74.12.10-13) - Prof. C. Paquot (France)

Reports are still outstanding from:

6th Meeting of ISO/TC 33: Refractories (London, UK: 74.11.21-22) - Dr. B. C. H. Steele (UK)

8th Session of ECOSOC Committee on Transport of Dangerous Goods (Geneva, Switzerland: 74.12.2) - Dr. R. Morf (Switzerland)



APPENDIX D

NEW OFFICERS AND MEMBERS OF IUPAC BODIES

APPROVED BY CORRESPONDENCE THROUGH

EXECUTIVE COMMITTEE SINCE 33rd BUREAU MEETING

I. APPROVED BY PRESIDENT (Standing Orders of Executive Committee)

- (i) Committee on Publications (CP)  
Member - Dr. K. Bláha (Czechoslovakia)
- (ii) Committee on Teaching of Chemistry (CTC)  
Member - Prof. G. S. Hammond (USA)

APPROVED BY EXECUTIVE COMMITTEE

IIA New Officers (Bylaw 4.1307)

- (i) Section on Pesticides (VI.5)  
Secretary - Dr. K. R. Hill (USA) to replace Dr. P. Slade (UK)
- (ii) Commission on Pesticide Residue Analysis (VI.5.2)  
Secretary - Prof. P. E. Koivistoinen (Finland) to replace Dr. P. Slade (UK)

IIB Extension of Membership (Bylaw 4.1303)

Commission on Analytical Reactions and Reagents (V.1)

Prof. H. Weisz (Federal Republic of Germany) - Titular Membership extended from 1974 to 1977.