

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF LXIXth MEETING OF EXECUTIVE COMMITTEE

HELD AT SOCIETÀ CHIMICA ITALIANA, ROME

ON

FRIDAY-SATURDAY, 19th-20th FEBRUARY, 1971

PRESENT:

Dr. A. L. G. Rees	- President, in the Chair
Prof. J. Bénard	- Vice-President
Prof. V. N. Kondratiev	- Past-President
Dr. R. Morf	- Secretary General
Prof. J. C. Bailar, Jr.	- Treasurer
Prof. J. Lecomte	
Prof. G. Sartori	
Sir Harold Thompson	

IN ATTENDANCE:

Mr. P. M. Arnold	- Chairman of Finance Committee (in part)
Dr. M. Williams	- Executive Secretary

## AGENDA

1. Finalization of Agenda
2. Minutes of LXVIIIth Executive Committee Meeting and Matters Arising
3. Minutes of Meetings of Bureau (XXVIth), Division Presidents (30.9.70), Finance Committee (12.9.70 and 15-16.2.71), and Matters Arising
4. Incorporation and Tax-free Status of IUPAC in Canton of Zürich
5. Clarification of Categories of Membership of IUPAC Bodies
6. Arrangements for XXVIth IUPAC Conference
7. Report of President on State of Union
8. Biennial Report of Treasurer
9. Revised Dues Structure for National Adhering Organizations
10. Revised Budget for 1971
11. Budget Estimates for 1972 and 1973
12. Application for National Adhering Organization Status
13. Applications for Associated Organization Status
14. Arrangements for XXVIIth Conference and XXIVth Congress (1973)
15. Cross Representation between Nomenclature Commissions
16. Nominations of New Members of IUPAC Bodies
17. IUPAC Representatives on Other Organizations
18. COSPAR
19. Sponsorship, Subvention, Representation
20. Collaboration between IUPAC and ISO
21. Role and Structure of ICSU
22. Publications
23. Analytical Chemistry Division Rules
24. Any Other Business:
  - (i) Society of Analytical Chemistry Centenary
  - (ii) Changing Personnel of Commissions between IUPAC Conferences
  - (iii) Changes in Structure of Applied Chemistry Division
  - (iv) Report on SCOPE
  - (v) Resolution 8 of XVIth General Conference of UNESCO

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Minute 536

INTRODUCTION

Dr. Rees paid tribute to the IUPAC colleagues whose deaths had been reported since the XXVIth Bureau meeting: G. Centola, G. Gorbach, K. Helholt, S. S. Medvedev, A. Stoll. Although these deaths would be recorded in the next Comptes Rendus IUPAC Conference, Sir Harold Thompson suggested they be announced, without biographical details, in the Information Bulletin.

Minute 537

FINALIZATION OF AGENDA

Dr. Rees asked for an additional item to be placed on the agenda: "Resolution 8 of XVth General Conference of UNESCO". It was decided to defer consideration of financial items until 20th February when Mr. P. M. Arnold would be present.

Minute 538

MINUTES OF LXVIIIth EXECUTIVE COMMITTEE MEETING AND MATTERS ARISING

Minute 533(2), page 7: Finance Committee Meeting - Dr. Morf disputed the wording of the first two sentences. After discussion it was agreed to amend the wording to read "... implied to some Members of the Executive Committee that access ... not to circulate the Finance Committee minutes in this form outside of the Executive Committee, ..."

It was Resolved:

that subject to the amendment detailed above, the minutes of the LXVIIIth Executive Committee Meeting be approved.

\* \* \* \* \*

Matters arising:-

Minute 527, page 3: Meetings of Nomenclature Commissions - Prof. P. E. Verkade had expressed concern that the deliberations of Nomenclature Commissions at the XXVIth IUPAC Conference in Washington would be hampered because of the extent of common membership. In the opinion of Dr. Rees, however, the overlap was not serious. Regarding the separate issue of whether Nomenclature Commissions should meet together in non-Conference years, Sir Harold Thompson thought that there might be good financial reasons for independent meetings.

It was Resolved:

- (i) that the Executive Committee reaffirms the principle of holding meetings of all IUPAC Nomenclature Commissions during the biennial Conference.
- (ii) that the question of all IUPAC Nomenclature Commissions meeting in the same place in non-Conference years, be referred to the Division Presidents for consideration with the relevant Commissions.

Dr. Rees would write a personal letter to Prof. Verkade explaining the views of the Executive Committee.

Minute 533(1), page 6: Brazilian National Adhering Organization - No acknowledgement or reply had yet been received by Dr. Rees to his letter of 26th November 1970 to the President of Academia Brasileira de Ciencias. If no communication was received by November 1971, when Prof. Bénard would be visiting Brazil, the latter would make a personal approach to the President.

Minute 531, page 6: Contract with UNESCO-ICSU - The final report of the consultative meeting on UNESCO activities in the field of engineering science and research was now available. Dr. Rees drew attention to the fact that at least one proposal (reduction of air, water and ground pollution) was already being undertaken by another international organization (SCOPE). Sir Harold Thompson thought that UNESCO National Committees should bring pressure to bear on UNESCO about such overlap. It was agreed that Dr. Rees should convey the views of the Executive Committee to the Director General of UNESCO, a copy of his letter to be sent to the Secretary General of ICSU.

Minute 539

MINUTES OF MEETINGS OF BUREAU (XXVIth), DIVISION PRESIDENTS (30.9.70), FINANCE COMMITTEE (12.9.70 and 15-16.2.71), AND MATTERS ARISING

XXVIth Bureau Minutes

Minute 73, page 1: Elements 102-105 - Unfortunately, it had not proved possible for Prof. K. A. Jensen to participate in a meeting in USSR between the Berkeley and Dubna groups. However, he had requested representatives of the two groups to consider making the naming of new elements completely independent of priority of discovery, and to report back to the Commission on Nomenclature of Inorganic Chemistry before the XXVIth IUPAC Conference.

Minute 82, page 9: Mass Spectroscopy - As a result of Dr. Waddington's advice that the ad-hoc Committee should be more broadly based than physical chemistry, the following nominations for membership had been made:

Dr. R. N. Jones (Commission I.5) - Chairman  
Prof. C. Djerassi or Prof. K. Biemann - organic  
chemistry  
Prof. A.J.B. Robertson (Commission V.3) - analytical  
chemistry

Prof. Kondratiev felt that, because Prof. V. I. Tal'rose (USSR) had initiated IUPAC interest in this matter, he should have been a Member of the Committee.

It was Resolved:

that the nominations for membership of the  
ad-hoc Committee be approved, but that  
Prof. Tal'rose be coopted as a consultant.

It was agreed that the Committee, including Prof. Tal'rose, might meet once at IUPAC expense before reporting to the Bureau at the XXVith IUPAC Conference.

On the recommendation of Sir Harold Thompson, it was Resolved:

that the ad-hoc Committee be asked if it  
felt competent to advise on how to deal  
with the data obtained on appearance  
potentials from mass spectroscopy and  
similar data on molecular energy levels  
derived from electron spectroscopy, or  
whether a special separate Committee  
should be appointed for this purpose.

Minute 87, page 15: International Centre for Analytical Chemistry -  
The following composition for the new ad-hoc Committee on ICACH had  
been approved by correspondence through the Executive Committee:

Prof. H. Malissa - Chairman  
Mr. P. M. Arnold  
Dr. H. Egan  
Dr. H. Seligman  
Dr. M. C. Sanz

Representatives of organizations vitally interested in ICACH might be coopted to this Committee on the understanding that their travel and subsistence expenses were not a charge against IUPAC.

### Finance Committee Minutes

The minutes of the meeting on 12.9.70 had been finalized and the item "Oxford Office Accounts" rewritten.

No minutes were yet available from the meeting on 15-16.2.71, but Mr. Arnold reported in advance on the following items:

(i) Terms of Reference - Proposals for inclusion in the IUPAC Statutes of terms of reference, composition, and terms of office for the Finance Committee, were found by the Executive Committee to be in agreement with known facts. Dr. Rees stressed that, other than duties defined in its terms of reference, the Finance Committee should only consider matters referred to it by the Executive Committee, Bureau, Council, or Treasurer. The Committee should not exercise a "policing" role within IUPAC.

The proposals should be placed in writing for formal consideration by the Executive Committee and Bureau at the XXVth IUPAC Conference. Rather than try and amend the Statutes at this time, it might be preferable for the Executive Committee to issue Standing Orders to cover the proposals.

There was considerable discussion on the role of the Treasurer in relation to the Finance Committee: should he continue to attend its meetings by invitation or become an ex-officio Member? Mr. Arnold was requested to seek the opinion of the Finance Committee by correspondence and report back to the Executive Committee.

The Executive Committee felt that a maximum of 10 years was desirable for combined Membership and Chairmanship of the Finance Committee. Mr. Arnold would convey this view to the Finance Committee.

(ii) Securities - The sale of certain IUPAC securities and reinvestment were recommended by the Finance Committee and approved by the Treasurer and Executive Committee. As a result of these changes, the book value of IUPAC marketable securities would become nearer to their market value.

(iii) Reducing Expenditure - The Finance Committee was concerned that expenditures of IUPAC might be rising more rapidly than it would be possible to increase income. Therefore, it had some recommendations to try and reduce the expenditures:

- the continued existence of all Sections and Commissions needed careful biennial review
- Titular Membership vacancies need not be filled between Conferences
- less than 10 Members might be appointed to Division Committees

The Treasurer had already recommended that there be a review of those Sections and Commissions with more than 8 Titular Members to see if there could be a reduction to this level.

Profs. Bénard and Bailar were in sympathy with the recommendations of the Finance Committee. However, Dr. Rees pointed out that it was an existing statutory requirement for the Bureau and Council every second year to decide whether or not to continue each Commission (By-law 4.1302). Since the Finance Committee had not been asked by the Executive Committee or Bureau to investigate means of reducing expenditures, he preferred it to devote attention to ways of increasing IUPAC income in order to meet our financial requirements.

No decision was reached by the Executive Committee on the recommendations.

(iv) Machine Book-keeping - The IUPAC banker, Schweizerische Bankgesellschaft, was shortly going over to computerized book-keeping and it should be possible to supply data on our current financial status at more frequent intervals. In future, the Finance Committee felt it desirable for IUPAC accounts and budgets to be presented in the same form. A longer-range financial forecasting than the present two years ahead at each Conference also seemed necessary.

\* \* \* \* \*

It was Resolved:

that the Minutes of Meetings of the  
Bureau (XXVIth), Division Presidents  
(30.9.70), and Finance Committee (12.  
9.70), be recorded as officially  
received by the Executive Committee.

Minute 540

#### INCORPORATION AND TAX-FREE STATUS OF IUPAC IN CANTON OF ZÜRICH

In the view of our Swiss lawyer, the statement of Kantonales Steueramt Zürich (Dr. J. Gallan: January 1966) regarding tax exemption of IUPAC, was quite sufficient as far as the cantonal and communal taxes were concerned. Nevertheless, to be absolutely safe, the Treasurer had requested the lawyer to ask for an additional statement from the Cantonal Administration of Federal Defense Taxes.

The Treasurer was still investigating the overall responsibility of the Officers for any financial debts of IUPAC. Also, he was ascertaining if any further action was necessary for IUPAC to establish its seat in Switzerland.

Minute 541

#### CLARIFICATION OF CATEGORIES OF MEMBERSHIP OF IUPAC BODIES

The notes on Membership of IUPAC Units, prepared by the Executive Secretary and with a preface by Dr. Rees, were being considered by the



ad-hoc Committee on Statutes and By-laws. The latter intended to report at the XXVIth IUPAC Conference. Dr. Rees thought that it would be necessary to change the status of the Committee at Washington from ad-hoc to Standing, so that a full revision of the IUPAC Statutes could be initiated.

The need for continued existence of a Committee on Congress Organization and Programmes was questioned by several Members of the Executive Committee. Sir Harold Thompson thought it would suffice for the Secretariat to have a list of guidelines which could be sent, as necessary, to countries with little experience of organizing meetings of the size of an IUPAC Congress.

Prof. Bénard wondered if the policy of holding a very large biennial International Congress of Pure and Applied Chemistry under the auspices of the Union, was still the right one. If a change was deemed necessary, Dr. Rees said that the Statutes (particularly 12.1) would have to be amended. Statute 12.2 was obviously intended to prevent the granting of financial subvention from IUPAC to a Congress. However, it could be interpreted as meaning that Members of the Committee on Congress Organization and Programmes were not entitled to receive travel and subsistence expenses from IUPAC.

It was Resolved:

- (i) that Members of the Executive Committee should present their views on the Committee for Congress Organization and Programmes and on IUPAC Congresses, in writing, for consideration at the LXXth Executive Committee Meeting.
- (ii) that the Committee on Congress Organization and Programmes be asked to prepare a report for the LXXth Executive Committee Meeting.
- (iii) that Dr. Rees inquire from the Organizing Committee of the XXIIIrd IUPAC Congress if it had found useful the advice of the Committee on Congress Organization and Programmes.

In the case of the Inter-Divisional Committee on Machine Documentation in the Chemical Field, its terms of reference should be restricted to Recommendations A and B of the report of the ad-hoc Committee to the Bureau at Cortina d'Ampezzo (1969). The modifications suggested by the Inter-Divisional Committee at its inaugural meeting (27-28.4.70) were not accepted by the Executive Committee.

The Executive Secretary was instructed to extract the actual terms of reference of the Standing Committees from the collected minutes and place them before the LXXth Executive Committee Meeting.

Minute 542

ARRANGEMENTS FOR XXVth IUPAC CONFERENCE

Group Travel Schemes - The Assistant Secretary had reported a very favourable response from European Members of IUPAC bodies to proposals for group travel. Five operable affinity groups had been drawn up and each person had a final chance to confirm his wish to participate. An overall saving to IUPAC of some \$20,000 might be achieved.

In order to comply with the requirements of affinity group travel, it would be necessary for the money to be lodged with the tours operator (Oxonian Travel Services Ltd.) at least one month before the Conference. The Executive Committee agreed that the Treasurer should give the necessary instructions to Schweizerische Bankgesellschaft in the case of those persons eligible to receive their expenses from IUPAC; the Secretariat should immediately notify Prof. Bailar of the maximum sum required.

Prof. Lecomte reaffirmed the offer of Comité National de la Chimie to pay the travel expenses and a daily subsistence of \$20 for about 5-6 days for French Members of IUPAC bodies (except the Bureau) eligible for expenses. Sir Harold Thompson confirmed that the Royal Society would contribute towards the expenses of a limited number of UK Members and provide some financial assistance for Congress participants.

Council Meeting Agenda - The draft agenda circulated by the Secretary General (12.1.71) was discussed. Item 16 was enlarged to read "Adoption of Tentative and Final Nomenclature Rules": a list of tentative nomenclature rules approved via correspondence through the Executive Committee since the XXVth IUPAC Conference should be included in the Council files. Dr. Morf was questioned on the reasons for including Item 24: "Arrangements for Travel to Meetings Organized or Sponsored by IUPAC". It was decided unanimously that this item should be deleted. Instead, the President would refer briefly in his opening remarks to savings achieved by IUPAC through non-compulsory participation in group travel schemes.

It was Resolved:

that, subject to the above amendments and any additional items received by correspondence, the agenda be considered approved and sent by registered mail to National Adhering Organizations no later than 21st March 1971.

Election of Officers and Bureau Members - In his memorandum to National Adhering Organizations and the Bureau dealing with elections (30.11.70), the President had asked for nominations to be received by the IUPAC Secretariat. Dr. Morf believed they should be received by him at his Zürich office.

Dr. Rees pointed out that the current Statement of Responsibilities and Authorizations for the Executive Committee, Officers, and Executive Secretary (see Minutes of IXII/EC), had been approved unanimously by the Executive Committee and ratified by Council at Cortina d'Ampezzo (1969). Section 4 of the Statement clearly said "All correspondence, including that of a formal nature addressed to the Secretary General, should go to the IUPAC Secretariat." After some discussion, Dr. Morf agreed that it was not necessary to review the Statement of Responsibilities.

Reports of Standing Committees - Statute 5.406 (i) stated that Council should receive and consider reports of "other bodies of the Union", which implied that all Standing Committees should so report. It was decided by the Executive Committee to invite the Committees on Finance, Teaching of Chemistry, and Publications, to report at Washington to Council, through the Bureau (Executive Committee). Other Standing Committees should report only to the Bureau (Executive Committee), which would decide if the reports needed to go forward to Council.

Committee on Congress Organization and Programmes - This Committee was scheduled to meet in Washington on 17th and 20th July. However, Dr. Morf had suggested that it would be advantageous if the Committee met during the Congress in Boston. Points of view could then be exchanged and experiences evaluated with the Congress Organizers; Dr. W. Fritsche (1973 Congress Organizing Committee) could also be present in Boston. The Executive Committee asked the Committee on Congress Organization and Programmes to meet as scheduled in Washington, but to reconvene in Boston, at IUPAC expense, early during the Congress.

Attendance of National Adhering Organizations - Letters had been received from the National Adhering Organizations of IUPAC in Nigeria and Turkey, expressing an interest in participating in Conference but a lack of funds to do so. In view of the heavy excess of expenditure over income in the 1971 budget, the Treasurer was unable to recommend that IUPAC should finance their attendance. Sir Harold Thompson suggested that Prof. Bailar should write to UNESCO, inquiring if funds might be provided by the Director of the Science Division.

XXIIIrd IUPAC Congress - It was agreed that IUPAC should be officially represented at Congress by the Members of the present Executive Committee, their expenses to be borne by IUPAC as necessary.

Minute 543

#### REPORT OF PRESIDENT ON STATE OF UNION

A draft report was distributed by Dr. Rees, with the request that Members of the Executive Committee send their comments to him as soon as possible. The President was asked to emphasize strongly the very early involvement of IUPAC in pollution problems, with the view of issuing the report as a press release.

Minute 544

BIENNIAL REPORT OF TREASURER

Prof. Bailar gave an indication of the subjects to be covered in his report.

The Comparative Statements of Income and Expenditure and the Comparative Balance Sheets for the years ending 31st December 1969 and 1970 (unaudited as yet), were briefly considered by the Executive Committee. The Treasurer would send another reminder to those National Adhering Organizations which had still not paid their dues for 1969 and 1970. Unless their dues arrears were cleared before the XXVith IUPAC Conference Brazil and Cuba would be deprived of their voting rights (Statute 9.2).

Minute 545

REVISED DUES STRUCTURE FOR NATIONAL ADHERING ORGANIZATIONS

The memorandum "Rationalization of IUPAC Subscriptions in Relation to Membership Categories" had been distributed to the National Adhering Organizations by the Treasurer (23.12.70). Few comments had so far been received at the IUPAC Secretariat - Germany, UK, and USA had indicated their support, but Hungary could only accept a base unit of \$325.

Mr. Arnold reported that the Finance Committee now recommended a base unit of \$400 should be the only proposal to Council. Table A should be revised to include the 1970 figures for income from Company Associates.

There was a prolonged discussion within the Executive Committee of the merits of the memorandum. The view of the Finance Committee that chemical turnover constituted the best basis for a revised dues scheme, was confirmed. However, doubts were expressed on the wisdom of including annual payments from Company Associates under the total dues of the relevant Adhering Organizations. Not all financial contributions to IUPAC work appeared in its general accounts, e.g., those of the host countries for IUPAC Conferences and Congresses; those of countries which paid the travel and subsistence expenses of their Members to IUPAC Conferences. Also, it would be impossible to disclose publicly hidden sources of income to IUPAC from some countries, although these were of very real significance.

An alternative proposal, simply calling for a percentage increase in the dues of the present membership categories, was considered but abandoned because it would only enhance the existing inequitable partition of the financial burden between the Adhering Organizations.

It was Resolved:

that the memorandum "Rationalization of IUPAC Subscriptions in Relation to Membership Categories", modified as suggested by the Finance Committee, be submitted for consideration by Council at the XXVIth IUPAC Conference.

Minute 546

REVISED BUDGET FOR 1971

The Revised 1971 IUPAC Budget, approved at the XXVIth Bureau Meeting, had been further updated. A major change was the drop of \$20,000 in the contribution from the US National Committee to assist with travel and subsistence expenses for the XXVIth IUPAC Conference. The deficit of income over expenditure would have to be met from reserves, although it was hoped the Boston Congress would be so successful financially that the US National Committee could increase its contribution to the Conference.

It was Resolved:

that the IUPAC Budget for 1971, revised as of 8th February 1971 (see Appendix A), is approved by the Executive Committee.

Minute 547

BUDGET ESTIMATES FOR 1972 AND 1973

Requests for meetings of IUPAC bodies during 1972-3 were still not complete. Therefore, it had not yet been possible to prepare budget estimates for the biennium. The Executive Committee approved the proposal that requests for meetings should be endorsed by the relevant Division Presidents, then the budget estimates circulated for consideration by the Treasurer and approval by itself before submission to Council at Washington.

Minute 548

APPLICATION FOR NATIONAL ADHERING ORGANIZATION STATUS

By letter of 24th December 1970, Comision Nacional de Investigacion Cientifica y Technologica had officially applied to become the Chilean National Adhering Organization of IUPAC. It wished to be assigned to membership Category B1.

It was Resolved:

that the Executive Committee supports the membership application from Chile, which should be formally considered by Council at the XXVIth IUPAC Conference.

Minute 549

APPLICATIONS FOR ASSOCIATED ORGANIZATION STATUS

Federation of European Chemical Societies - The conditions on which the status of Associated Organization would be granted to the Federation (Minute 530, LXVIII/EC) had still to be discussed by its Executive Committee.

European Photochemistry Association - A formal application had been received from the Chairman of the Association for recognition as an Associated Organization. The President of the Organic Chemistry Division, Prof. Barton, was in favour of the application, but he had not been able to seek the advice of the Commission on Organic Photochemistry because of its membership troubles. The views of the Physical Chemistry Division were still outstanding. Some concern was expressed by Dr. Rees about the intended educational role of the Association. Sir Harold Thompson wondered if IUPAC needed two different categories of Associated Organization:

- truly international or regional organizations
- subject-specialized organizations, which might be attached to the relevant Division(s)

It was Resolved:

that the application of the European Photochemistry Association be deferred pending the availability of further information.

International Magnetic Resonance Society - Affiliation of the Society to IUPAC had been requested by its President. Founded in 1969, the Society had as its purpose the promotion of international relations among scientists interested in magnetic resonance by means of international conferences, schools, and a newsletter.

It was Resolved:

that the Executive Committee supports the application from the International Magnetic Resonance Society, which should be formally considered by Council at the XXVIth IUPAC Conference.

International Conferences on Coordination Chemistry - Prof. Bailar had approached the Secretary, Prof. S. Kirschner, about affiliation to IUPAC. The matter would be discussed at the XIVth ICCO Conference (Toronto, 1972).

International Conferences on Organometallic Chemistry - Prof. Bailar had written to several of the main people connected with these Conferences. The question of affiliation to IUPAC would be considered at the Vth ICOC Conference (Moscow, 1971).

Minute 550

#### ARRANGEMENTS FOR XXVIIth CONFERENCE AND XXIVth CONGRESS (1973)

XXVIIth Conference - A report was considered from the Assistant Secretary, who had recently been to investigate accommodation facilities in Hamburg. The hotel prices were higher than expected and at a similar level to those in Washington. If the new Congress Centre of the city was used by IUPAC, room charges would have to be paid. The Executive Committee decided that Mr. Ratcliffe and Dr. W. Fritzsche (Gesellschaft Deutscher Chemiker) should continue the contacts established with officials of the Fremdenverkehrsamt and of the Kongresszentrum in order to collect more data for discussion at the XXVIth IUPAC Conference.

XXIVth Congress - The Organizing Committee had just convened for the first time and decided to recommend the following main themes:

- Section 1 - High Polymers
- Section 2 - Natural Products
- Section 3 - Solid-state Chemistry
- Section 4 - Non-metal Compounds
- Section 5 - Applied Electrochemistry
- Section 6 - Radiochemistry
- Section 7 - Future Aspects of Chemical Documentation

A number of joint symposia with various IUPAC bodies were also contemplated. The Executive Committee was of the opinion that no major overlap existed with the themes of the XXIIIrd Congress (Boston, 1971). Nevertheless, Council still needed to endorse the scope of the Hamburg meeting (Statute 12.1) at the XXVIth IUPAC Conference.

Minute 551

#### CROSS REPRESENTATION BETWEEN NOMENCLATURE COMMISSIONS

Attention had been drawn to the proliferation of cross representatives ("Observers") between Nomenclature Commissions. Once included in the Comptes Rendus they became effectively permanent representatives and constituted an additional financial commitment for IUPAC to the expenses of Titular Members for each meeting of these Commissions. The Division Presidents and the Secretary General had agreed that permanent cross representatives were unnecessary: temporary

representatives should be appointed, if necessary, for the discussion of specific topics as they arose (Minute 6, Division Presidents Meeting, 30.9.70).

It was Resolved:

that permanent cross representation between Nomenclature Commissions be discontinued. Temporary cross representatives may be appointed as necessary, their expenses to be drawn from Division Contingency Funds.

The Inter-Divisional Committee on Nomenclature and Symbols had been set up at a time when there was a lack of collaboration between the Nomenclature Commissions. More recently, however, the Committee had not been very active. Sir Harold Thompson thought its continued existence was worthwhile as a possible court of appeal within IUPAC for nomenclature problems. Further discussion by the Executive Committee was deferred, pending the views of the Nomenclature Commissions being obtained.

Minute 552

#### NOMINATIONS OF NEW MEMBERS OF IUPAC BODIES

The following new Members of IUPAC bodies, approved by correspondence through the Executive Committee since the XXVIth Bureau Meeting, were ratified:

Finance Committee - Dr. E. M. Beavers (USA) to replace Mr. P. M. Arnold (resigned)

Division IV Committee - Prof. V. A. Kabanov (USSR) to replace Prof. S. S. Medvedev (deceased)

Section VI.1 - Dr. K. Ohno (Japan) as Associate Member

Commission VI.1.2 - Dr. H. Guthenberg (Sweden) to replace Dr. J. H. Bushill (resigned) as Titular Member

In accordance with By-law 4.1307, the following Officers of IUPAC bodies nominated since the XXVth IUPAC Conference were ratified by the Executive Committee:

Commission VI.1.1 - Dr. A. E. Wasserman as Secretary

Sub-Commission VI.1.1.1 - Dr. A. D. Campbell as Secretary

Commission VI.1.2 - Dr. R. Marcuse as Chairman  
Dr. H. Guthenberg as Secretary



Minute 553

IUPAC REPRESENTATIVES ON OTHER ORGANIZATIONS

A report was considered from Mr. S. G. Luxon (Section VI.4), official representative of IUPAC at an ECE Working Party on Air Pollution Problems. It should be brought to the attention of SCOPE as well as the Applied Chemistry Division of IUPAC. In answer to a question from the President, Dr. Morf indicated that he had been present in a private capacity at the ECE meeting and not as the Secretary General of IUPAC.

Dr. Morf's report on the XXXXVIIth Session of the Executive Board of WHO was in preparation. Although chemistry featured infrequently in the discussions, he thought it important for the Union to maintain active collaboration with this body.

Minute 554

COSPAR

Representation of IUPAC at the XIVth Plenary Session of COSPAR (Seattle, 17th June-2nd July 1971) was left in the hands of the President and the Treasurer. Prof. Bailar would investigate if there was a suitable IUPAC person living near Seattle: the Union could not afford to send a representative for the whole period of the meeting. It was agreed Dr. Rees should inform COSPAR that IUPAC was prepared, if necessary, to act in a consultative capacity to any of its Working Parties, but any initiative should come from COSPAR.

Minute 555

SPONSORSHIP, SUBVENTION, REPRESENTATION

The Fermentation Industries Section felt that high standards were vital for meetings to receive the sponsorship of IUPAC. Also, it believed that, due to broadening of the applied chemistry interests of the Union, Divisions and Sections had been created covering fields illsuited for publication in Pure and Applied Chemistry. Publication should be in journals normally read by scientists active in these particular fields. The Executive Committee stressed that the title of the official IUPAC journal implied a definite content of high quality applied chemistry, which the Committee was anxious to maintain and extend. This policy should be brought to the attention of the Fermentation Industries Section.

In accordance with the proposal of the IUPAC President (Minute 80, page 7, XXVI/B), the Executive Secretary had now initiated a routine to discover names of senior Members of IUPAC bodies attending sponsored symposia in 1971. These names would be conveyed to Dr. Rees for consideration as official representatives of the Union.

The Executive Committee ratified the granting of sponsorship by correspondence through itself since the XXVth Bureau Meeting, to the following meetings:

Conference on Chemical Transformations of Polymers (Bratislava, 22nd-24th June 1971)

VIIIth International Symposium on Chemistry of Natural Products (New Delhi, 1972)

Sponsorship by IUPAC and/or subvention to the following symposia was considered by the Executive Committee:

Non-aqueous Electrochemistry (Paris, 8th-10th July 1970) - Subvention of \$1,000 had been granted (Minute 62, page 3, XXV/B), but a further \$1,000 now requested. Due to the exceptionally high expense of the XXVth IUPAC Conference, no further subvention granted.

IVth Magnetic Resonance (Rehovot/Jerusalem, 23rd-31st August 1971) - Due to the exceptionally high expense of the XXVth IUPAC Conference, no subvention had been granted (Minute 80, page 7, XXVI/B). A renewed request for subvention had now been received, but previous decision of IUPAC reaffirmed.

IIIrd Analytical Chemistry (Brasov, 22nd-26th September 1971) - Supported by Analytical Chemistry Division; IUPAC wished to publish the specially invited lectures; sponsorship approved. No subvention requested.

Natural Products (Varna, 14th-18th October 1971) - IUPAC did not wish to publish the main lectures; Organic Chemistry Division not in favour of granting sponsorship nor "Collaboration with the IUPAC Commission on Chemical Plant Taxonomy", but suggested a message of fraternal goodwill be sent to the Organizers. Agreed to refer the matter back to Division President, indicating Executive Committee would like to encourage international meetings in small countries.

VIIIth Natural Products (New Delhi, 1972) - Subvention of \$4,000 granted.

Inner Shell Ionization Phenomena (Atlanta, Georgia, 17th-21st April 1972) - IUPAC publication rights waived; Physical Chemistry Division not in favour of granting subvention since programme strongly weighted to physics. Sponsorship and subvention not granted.

XIVth Coordination Chemistry (Toronto, 22nd-28th July 1972) - Supported by Inorganic Chemistry Division; IUPAC wished to publish the plenary lectures; sponsorship approved. Subvention of \$2,000 granted.

Chemistry in Evolution and Systematics (Strasbourg, 3rd-8th July 1972) - Supported by Organic Chemistry Division; IUPAC wished to publish specially invited lectures; sponsorship approved. Subvention of \$2,000 granted.

VIIIth Reactivity of Solids (Bristol, 17th-21st July 1972) - Supported by Inorganic Chemistry Division; IUPAC publication rights waived; sponsorship approved. No subvention requested.

Ist Physical Organic Chemistry (Crans-sur-Sierre, 4th-8th September 1972) - Supported by Organic Chemistry Division; IUPAC publication rights waived; sponsorship approved. No subvention requested.

Macromolecules (Aberdeen, 10th-14th September 1973) - Supported by Macromolecular Division; IUPAC wished to publish specially invited lectures, sponsorship approved. No subvention requested.

IVth Crystal Growth (Japan, 1974) - IUPAC publication rights waived; sponsorship approved subject to support of Physical Chemistry Division.

Sir Harold Thompson agreed to make a personal approach to Prof. F. C. Frank, President of Comité International de Croissance Cristalline, about its possible affiliation to IUPAC.

Minute 556

#### COLLABORATION BETWEEN IUPAC AND ISO

Koninklijke Nederlandse Chemische Vereniging had suggested that there be continuous contact between IUPAC and ISO in order to avoid duplication of work. Dr. Rees had asked the IUPAC Secretariat to look into the matter. It seemed that IUPAC should seriously consider appointing a representative to ISO/TC 47 - Chemistry, which dealt with standardization and particularly test methods and methods of analysis for basic chemical products and bulk materials. Collaboration might also be worthwhile with:

- ISO/TC 12 - Quantities, units, symbols, conversion factors, and conversion tables
- ISO/TC 34 - Agricultural food products
- ISO/TC 48 - Laboratory glassware and related apparatus
- ISO/TC 61 - Plastics
- ISO/TC 91 - Surface active agents (detergents, soaps, etc.)

Whilst it was financially impossible for IUPAC to have representatives on all appropriate ISO Working Parties, the Executive Committee agreed, in principle, to appoint a representative to ISO/TC 47.

Minute 557

#### ROLE AND STRUCTURE OF ICSU

Dr. Rees had been appointed to the ad-hoc Committee on Role and Structure of ICSU, established at the XIIIth General Assembly of ICSU (1970). He had prepared a paper on this matter, setting out his personal views on the problem. Comments from Members of the Executive Committee should be in his hands before June 1971.

Minute 558

PUBLICATIONS

(i) High Temperature Bibliography - Dr. W. S. Horton, Chairman of the Commission on High Temperatures and Refractories, thought that he might be able to obtain a grant from some agency to assist publication of the Bibliography in the immediate future. However, he was anxious not to contravene Statute 9.42. The Executive Committee asked the Treasurer to inform Dr. Horton that any grant should be made directly to Imperial College, London (the new publisher) rather than to IUPAC, and to reaffirm that the \$360 paid in 1970 was a once-only payment from IUPAC.

(ii) Revised Edition of "Nomenclature of Organic Chemistry" - It had been suggested that Prof. P. E. Verkade's service to international chemical nomenclature over the past 40 years be recognized in this publication. However, existing IUPAC policy not to stress personal contributions in reports from its Sections and Commissions was reaffirmed by the Executive Committee. Dr. Rees would draw attention in his Report on the State of the Union and at the banquet in Washington to the work of Prof. Verkade.

(iii) Pure and Applied Chemistry - Sir Harold Thompson indicated that, through the Secretariat, the greatest pressure was being brought to bear on Messrs. Butterworths to complete the outstanding issues for 1970 (Vol. 24) and to publish Vols. 25 and 26 before the XXVIth IUPAC Conference. If the remaining volumes for 1971 (27 and 28) did not appear by the end of the year, the Union might need to review seriously its publishing contract with Butterworths.

(iv) Exhibition of IUPAC Publications - Prof. Bailar recommended that a display of IUPAC publications should be made at the Conference in Washington and especially at the Congress in Boston. Dr. Rees reminded the Executive Secretary that a brochure on IUPAC nomenclature recommendations was to be produced in conjunction with Messrs. Butterworths (Minute 85, page 13, XXVI/B).

(v) "IUPAC-What it is-What it does-How it works-How it is financed" - A revised version of this pamphlet had already been agreed (Minute 85, page 11, XXVI/B). Sir Harold Thompson offered to write the draft in the immediate future, which would be circulated for comment by the Executive Committee.

Minute 559

ANALYTICAL CHEMISTRY DIVISION RULES

A revised version of the General Rules (1962) of the Analytical Chemistry Division was presented for consideration by the Executive Committee. Since 1965 it has been required that such Divisional By-laws must be approved by Council (Statute 10.3). The Executive Committee was concerned that

the Rules were too detailed. Dr. Rees believed that the principle of fair geographical representation was intended by the Statutes to apply only to the Bureau and not to extend to Division Committees. The revised Rules were referred to the ad-hoc Committee on Statutes and By-laws to check their validity and for comment.

Minute 560

SOCIETY FOR ANALYTICAL CHEMISTRY CENTENARY

The UK Society for Analytical Chemistry proposed to celebrate its Centenary Year on 16th July 1974, by holding a special meeting in The Royal Institution, London. The Executive Committee decided to accept the invitation to send an official representative from IUPAC, who would convey its fraternal greetings.

Minute 561

CHANGING PERSONNEL OF COMMISSIONS BETWEEN IUPAC CONFERENCES

Sir Harold Thompson reported that the British National Committee for Chemistry had discussed the need to alter the IUPAC Statutes to enable a Division President to change the personnel of a Commission, if necessary, between the biennial Conferences.

It was Resolved:

- (i) that this matter be referred for the advice of the ad-hoc Committee on Statutes and By-laws.
- (ii) that, in any case, Division Presidents could always request a Member of a Commission to resign.
- (iii) that if action was taken as under (ii), the position be reviewed by the Division President at the next biennial Conference.

Statute 4.2 (page 2, lines 6-9) implied that Titular Members (cf. By-law 4.1303) could only commence a four-year period at an IUPAC Conference. Dr. Rees advised that it was in order for Titular Members to be nominated and elected between the biennial Conferences. Prof. Bailer asked that the Secretariat should take no initiative in such matters.

Minute 562

CHANGES IN STRUCTURE OF APPLIED CHEMISTRY DIVISION

The Officers of the Applied Chemistry Division had prepared a report recommending changes in the structure of the Division. Their recommendations were based on the proposals of the ad-hoc Committee on Applied Chemistry (Minute 89, XXVI/B), and included dissolution of two Sections.

It was Resolved:

- (i) that, in principle, the Executive Committee supports the recommendations on reorganization of the Applied Chemistry Division. These recommendations must be endorsed by the Division Committee, then submitted for consideration of the Bureau and Council at the XXVIth IUPAC Conference.
- (ii) that the Sections whose dissolution is recommended, shall be allowed to meet at the XXVIth IUPAC Conference.

Minute 563

REPORT ON SCOPE

A report from the IUPAC representative on SCOPE, Dr. W. Gallay, describing the background, organization, and present activities of this ICSU Committee, was recorded as officially received by the Executive Committee.

Minute 564

RESOLUTION 8 OF XVth GENERAL CONFERENCE OF UNESCO

Dr. Rees drew attention to this Resolution, which called on all non-governmental organizations with affiliates in South Africa, Rhodesia, or Portuguese-dominated African territories, with respect to the practice of racial discrimination, to cut off relations with these countries as from 31st December 1971. Relevant memoranda from ICSU were considered by the Executive Committee.

It was Resolved:

that ICSU be informed that the Executive Committee reaffirms the IUPAC policies of political, racial and religious non-discrimination against scientists, and meanwhile awaits the further advice of ICSU on this matter.


VOTE OF THANKS

On behalf of the Executive Committee, Dr. Rees expressed its appreciation and thanks to Società Chimica Italiana for the provision of facilities and hospitality, and to Prof. G. Sartori for his help in organizing the meeting. Official letters of thanks would be written by the President.

\* \* \* \* \*

The Meeting closed at 13.15.

CHAIRMAN:



DATE:

19.7.71

APPENDIX AREVISEDIUPAC BUDGET1971

(8th February 1971)

Items marked \* are additions to or changes from the budget approved at the XXVith Bureau Meeting (Vienna, 2nd and 3rd October 1970)

Travel is based on 1970 air fares. Increases for 1971 should be more than compensated by use of affinity group travel to XXVI IUPAC Conference



IUPAC INCOME BUDGET: 1971

	\$
Dues from National Adhering Organizations	108,250
Dues from Company Associates (212 units)	50,350 <sup>b</sup>
Subvention from ICSU	14,000
Royalties from Butterworths	14,000
Interest and Dividends Earned	12,000
Sales of publications	800
Contract with EEC (26,246 Sw.Fr.)	6,080
Contract with UNESCO	3,000
Grant from US National Committee for XXVIth Conference	30,000 <sup>bb</sup>
* Repayment of 1970 Contribution to ICSU (2%)	2,165
<hr/>	
TOTAL INCOME	240,645
TOTAL EXPENDITURE	318,268
<hr/>	
Excess of Expenditure over Income	77,623
<hr/>	

<sup>b</sup> 5% already deducted for use by NAO in promoting  
Company Associates Scheme

<sup>bb</sup> Of the \$50,000 allocated to Conference, \$20,000 will  
be used by US National Committee to cover Conference  
Operations (\$3,150), Social Functions (\$10,550), and  
Indirect Cost (\$6,300)

IUPAC EXPENDITURE BUDGET: 1971<sup>ø</sup>

	\$ —
* Standing Committees	46,773
* Clinical Chemistry Section	7,939
Physical Chemistry Division	31,095
Inorganic Chemistry Division	15,542
Organic Chemistry Division	15,750
* Macromolecular Division	7,728
Analytical Chemistry Division	33,020
* Applied Chemistry Division	39,551
* General Expenses	120,870
<hr/>	
TOTAL	318,268
<hr/>	

<sup>ø</sup> Meetings at Washington, DC, unless stated otherwise.

Subsistence allowance \$32 per day at Washington, DC,  
elsewhere \$20.

STANDING COMMITTEES

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Executive Committee (Rome, 19th-20th February)	8	2	2,938	460	-
Executive Committee	8	6	5,329	2,016	-
* Bureau	24	5	14,638	5,216	-
Division Presidents	7	1	3,565	608	-
Committee on Congress Organization and Programmes	2	4	1,325	384	-
Committee on Publications	6	1	2,923	480	-
* Committee on Teaching of Chemistry	9	4 <sup>6</sup>	5,172	1,632	200
Coordinating Committee for Analytical Methods EEC Contract	9	4	3,672 1,000	1,632	- 2,000
* Finance Committee (Zürich, 15th-16th February)	6	1	1,105	380	-
Finance Committee	6	1	3,002	544	-
Inter-Divisional Committee on Machine Documentation	8	5	3,792	1,728	25
Inter-Divisional Committee on Nomenclature and Symbols	8	4	4,006	1,504	-

* IUPAC-IUB Liaison Committee (Menton, May)	3	2	756	200	-
* IUPAC-IUB Commission on Biochemical Nomenclature (Menton, May)	5	4	2,429	540	25
* Ad-hoc Committee on ICACH (Vienna, 12th February)	5	1	971	140	-
			<hr/>	<hr/>	<hr/>
			56,623	17,464	2,250
Less Double Accounting			15,213	3,220	<hr/>
			<hr/>	<hr/>	
			41,410	14,244	
Less 20% *			8,282	2,849	
			<hr/>	<hr/>	
			33,128	11,395	
			<hr/>	<hr/>	

o Includes 2 days extra for Open Meeting on Nomenclature (22nd July)

\* Only 89% Members eligible for Expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses

CLINICAL CHEMISTRY SECTION

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Section Committee	10	1	5,676	832	200
* Commission on Automation (Birmingham, April.)	4	2	338	180	50
* Commission on Automation	4	3	2,429	640	-
Commission on Quantities and Units	4	3	1,785	480	25
Commission on Teaching	3	3	1,202	320	100
			<hr/>	<hr/>	<hr/>
			11,430	2,452	375
Less Double Accounting			4,044	384	<hr/>
			<hr/>	<hr/>	
			7,386	2,068	
Less 20% $\phi$			1,477	413	
			<hr/>	<hr/>	
			5,909	1,655	
			<hr/>	<hr/>	

$\phi$  Only 89% Members eligible for Expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses

PHYSICAL CHEMISTRY DIVISION

7

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund					1,000
Division Committee	10	4	3,837	1,792	200
I.1: Physicochemical Symbols, Terminology, and Units	7	6	2,846	1,504	50
I.2: Thermodynamics and Thermochemistry	8	4	4,202	1,472	50
I.3: Electrochemistry	8	4	4,848	1,504	25
I.4: Physicochemical Measurements and Standards	8	5	4,881	1,536	-
I.5: Molecular Structure and Spectroscopy	8	3	4,764	1,216	-
I.6: Colloid and Surface Chemistry	9	4	3,389	1,440	-
			<hr/>	<hr/>	<hr/>
			28,767	10,464	1,325
Less Double Accounting			3,359	1,408	<hr/>
			<hr/>	<hr/>	
			25,408	9,056	
Less 20% $\phi$			5,082	1,812	
			<hr/>	<hr/>	
			20,326	7,244	
			<hr/>	<hr/>	
I.2.1: Plasma Chemistry			2,200*		
			<hr/>		
			22,526		
			<hr/>		

$\phi$  Only 89% Members eligible for expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses

\* Special subvention for programme discussion meeting

INORGANIC CHEMISTRY DIVISION

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund					1,000
Division Committee	10	4	5,301	1,728	100
II.1: Atomic Weights	8	3	3,306	1,056	50
II.2: Nomenclature of Inorganic Chemistry	10	6	5,387	2,496	100
II.3: High Temperatures and Refractories	6	3	2,645	768	25
			<u>16,639</u>	<u>6,048</u>	<u>1,275</u>
Less Double Accounting			3,958	896	
			<u>12,681</u>	<u>5,152</u>	
Less 20% $\phi$			2,536	1,030	
			<u>10,145</u>	<u>4,122</u>	

$\phi$  Only 89% Members eligible for Expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses

ORGANIC CHEMISTRY DIVISION

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund					1,000
Division Committee	9	4	4,251	1,664	100
III.1: Nomenclature of Organic Chemistry	8	6	3,412	1,984	25
III.2: Chemical Plant Taxonomy	8	3	4,452	1,248	25
III.3: Organic Photochemistry	3	-	-	-	-
III.4: Medicinal Chemistry	7	4	3,897	1,280	200
			<u>16,012</u>	<u>6,176</u>	<u>1,350</u>
Less Double Accounting			3,420	768	
			<u>12,592</u>	<u>5,408</u>	
Less 20% $\phi$			2,518	1,082	
			<u>10,074</u>	<u>4,326</u>	

$\phi$  Only 89% Members eligible for Expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses



MACROMOLECULAR DIVISION

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund					1,000
Division Committee	11	3	6,436	1,728	250
* IV.1: Macromolecular Nomenclature	7	4	3,671	1,120	-
			<hr/>	<hr/>	<hr/>
Less Double Accounting			10,107	2,848	1,250
			3,993	864	<hr/>
			<hr/>	<hr/>	
Less 20% $\phi$			6,114	1,984	
			1,223	397	
			<hr/>	<hr/>	
			4,891	1,587	
			<hr/>	<hr/>	

$\phi$  Only 89% Members eligible for Expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses

ANALYTICAL CHEMISTRY DIVISION

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund					1,000
Division Committee	9	4	5,119	1,664	250
V.1: Analytical Reactions and Reagents	8	5	3,720	1,728	25
V.2: Microchemical Techniques and Trace Analysis	8	3	4,450	1,248	-
V.3: Analytical Nomenclature	8	5	3,416	1,728	-
V.4: Spectrochemical and Other Optical Procedures for Analyses	8	5	3,525	1,728	50
V.5: Electroanalytical Chemistry	7	5	3,213	1,472	25
V.6: Equilibrium Data	8	5	4,411	1,728	25
V.7: Analytical Radiochemistry and Nuclear Materials	7	4	3,215	1,120	-
			<u>31,069</u>	<u>12,416</u>	<u>1,375</u>
Less Double Accounting			2,968	960	
			<u>28,101</u>	<u>11,456</u>	
Less 20% $\phi$			5,620	2,292	
			<u>22,481</u>	<u>9,164</u>	

$\phi$  Only 89% Members eligible for Expenses attended XXV IUPAC Conference,  
and 9% made no claim for expenses

APPLIED CHEMISTRY DIVISION

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund					1,000
Division Committee	15	5	6,281	3,066	200
* VI.1: Food	9	4	4,202	1,184	50
VI.1.1: Trace Substances	6	4	3,105	928	-
* VI.1.2: Food Additives and Contaminants	8	5	4,430	1,760	-
VI.2: Fermentation Industries	8	5	3,990	1,536	200
VI.3: Oils and Fats (St. Gallen, June)	8	2	1,084	500	200
VI.4: Toxicology and Industrial Hygiene	8	5	3,041	1,696	-
VI.5: Pesticides	10	6	4,259	1,984	25
VI.6: Organic Coatings	8	5	4,107	1,760	200
* VI.7: Pulp, Paper, and Board	7	5	3,366	1,504	25
VI.8: Water, Sewage, and Industrial Waste	7	4	4,135	1,344	-
			<hr/>	<hr/>	<hr/>
			42,000	17,262	1,900
Less Double Accounting			8,583	3,616	<hr/>
			<hr/>	<hr/>	
			33,417	13,646	
Less 20% $\phi$			6,683	2,729	
			<hr/>	<hr/>	
			26,734	10,917	
			<hr/>	<hr/>	

$\phi$  Only 80% Members eligible for Expenses attended XXV IUPAC Conference,  
and made no claim for expenses

GENERAL EXPENSES

	<u>TRAVEL AND SUBSISTENCE</u>	<u>ADMIN.</u>
Secretary-General	500	
Contingency Fund for other Officers	1,000	
<hr/>		
Office of Secretary General:-		
*Secretary (5417)		
*Rent (1542)		
Operations:		
(i) Electricity & water (38)		
(ii) Telephone & telegrams (995)		
(iii) Postage (741)		
(iv) Printing (116)		
(v) Photocopying (1083)		
(vi) Cleaning (278)		
*(vii) Accident insurance (347)		
(viii) Bus fares to Post Office (41)		
Miscellaneous expenses (116)		
*Commuting from Basle to Zürich airport (Dr. Morf - 1277)	1,277	10,714
<hr/>		
Carry forward	2,777	10,714

TRAVEL AND  
SUBSISTENCE

ADMIN.

Brought forward 2,777 10,714

IUPAC Secretariat:-

Executive and Assistant Secretaries (28,658)

\*Typists (8906)

Rent (3240)

Rates (local tax - 1585)

Operations:

(i) Electricity (427)

(ii) Telephone (1059)

ø(iii) Postage & telegrams (4715)

(iv) Stationery (1750)

(v) Printing (1370)

(vi) Photocopying (3000)

(vii) Cleaning (437)

Fixtures (673)

\*Travel and Subsistence (3500)

Miscellaneous (1000)

3,500 56,820

Scientific Editors 1,500

Information Bulletin (printing 3 issues) 5,121

\* Appendices to Inf. Bull. (Nomenclature - 12, Reports - 2 ) 6,423

Contribution to ICSU (2%) 2,165

Accounting (Schweizerische Bankgesellschaft) 4,800

Chartered Auditors 2,750

\* ICSU Abstracting Board 100

	<u>TRAVEL AND SUBSISTENCE</u>	<u>ADMIN.</u>
Brought forward	6,277	90,393
ICSU Committee on Teaching of Science		200
IUPAC Representatives on other Organizations (travel & subsistence)		2,500
* Subvention to Symposia:		
Chemistry of Pesticides (Bonn) (1500)		
• Terminal Pesticide Residues (Tel Aviv) (3000)		
• III Crystal Growth (Marseille) (500)		5,000
Publications for Company Associates Scheme (PAC only)		16,500
	<hr/>	<hr/>
	6,277	114,593
	<hr/>	<hr/>

• Subvention paid in 1971.

ø (page 14) Includes distribution costs of Company Associates Scheme, Comptes Rendus, Information Bulletin and its Tentative Nomenclature Appendices, and of documentation for IUPAC Commissions.

Secretariat costs for Stationery, Printing and Photocopying also include substantial amounts for work on behalf of IUPAC Commissions.