

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF XXX BUREAU MEETING

HELD AT LE BISCHENBERG, STRASBOURG

ON

SUNDAY-MONDAY, 24-25 SEPTEMBER 1972, AT 9.00

PRESENT:

Prof. J. Bénard	- President, in the Chair
Dr. A. L. G. Rees	- Past-President
Prof. Sir Harold Thompson	- Vice-President
Dr. W. Gallay	- Secretary General
Prof. O. Horn	- Treasurer

Mr. P. M. Arnold)	
Prof. E. D. Bergmann)	
Prof. N. M. Emanuel)	
Prof. V. Herout)	
Dr. O. Isler)	
Prof. H. Malissa)	- Elected Members
Prof. S. Rangaswami)	
Prof. S. Shibata)	
Prof. H. Suomalainen)	

Dr. D. B. Tonks)	
Prof. R. Truhaut (in part)))	- Ex-officio Members

Dr. G. Waddington)	
Prof. O. Glemser)	
Prof. G. Ourisson)	- Division Presidents
Prof. W. Kemula)	
Dr. R. W. Cairns (in part)))	

ABSENT:

Dr. P. R. Gendron)	
Prof. G. Sartori)	- Elected Members
Prof. G. Smets)	

Prof. H. Benoit	- Division President
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IN ATTENDANCE:

Dr. M. Williams	- Executive Secretary
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Minute 1/72

INTRODUCTORY REMARKS OF PRESIDENT AND FINALIZATION OF AGENDA

Apologies for nonattendance had been received from Prof. Sartori (because of illness) and Prof. Benoit, Dr. Gendron, and Prof. Smets (because of other commitments). Sir Harold Thompson proposed that a letter be sent from the Bureau wishing Prof. Sartori a quick return to good health.

The President gave a brief account of activities undertaken by the Officers and Executive Committee on behalf of the Bureau and Council since the XXVI Conference in Washington, DC. The high level of work was not always apparent to Bureau members unless they had specific responsibilities for the Union.

The agenda, as circulated by the Executive Secretary before the meeting, was approved without change. Because Dr. Cairns could only be present on the first day and Prof. Truhaut on the second day, some items were taken out of order.

Minute 2/72

MINUTES OF XXVII, XXVIII, AND XXIX MEETINGS OF BUREAU

No matters of dissention having been raised, it was Resolved:

that the minutes of the XXVII, XXVIII,
and XXIX Bureau Meetings be approved.

There were no matters arising from these minutes which were not covered by items on the agenda.

Minute 3/72

MINUTES OF LXX, LXXI, LXXII, AND LXXIII MEETINGS OF EXECUTIVE COMMITTEE

No comments having been offered, it was Resolved:

that the minutes of the LXX, LXXI, LXXII,
and LXXIII Executive Committee Meetings be
recorded as having been officially received
by the Bureau.

Minute 4/72

REVISED BUDGETS FOR 1972 AND 1973

4.1/72 Current Financial Status

The Treasurer apologized for the imposition late in 1971 of limitations on Divisional spending in 1972, but it had led to an improved financial situation for the Union. The market value of the Union's shares and bonds was \$320,000 (at 30 June 1972), and the interest this year should be \$5,900. Prof. Horn recommended that, as soon as possible,

IUPAC should again invest money to build up the reserves. The US-dollar account had now increased from \$9,000 (at 1 January 1972) to \$55,000, the Swiss francs account from Fr. 30,000 to Fr. 38,000, and the sterling account from -£300 to £5,000. Therefore, the total assets of the Union were presently about \$370,000.

Prof. Horn reported that, following the official granting of tax-free status to IUPAC in the Canton of Zürich, a refund had been obtained of some taxes previously deducted on dividends. Also, an attempt was being made to reclaim taxes on royalties from Butterworths.

Finally, Prof. Horn stressed the need to recruit more Company Associates, especially from such chemically advanced countries as Canada, France, Netherlands, Sweden, and Switzerland. A personal approach was needed by prominent chemists from within IUPAC and especially by members of the Bureau. To assist such efforts a brochure was in course of preparation.

4.2/72 Revised Budget for 1973

The Treasurer presented the 1973 IUPAC budget (as of 10 August 1972). It showed a deficit of \$17,761 (about DM 55,000), which was less than the deficit limit of \$20,000 proposed by the Finance Committee for a Conference year. Nevertheless, Prof. Horn hoped to reduce it further with subsidies for the XXVII IUPAC Conference from:

City of Munich	8,000
Verband der Chemischen Industrie eV (Frankfurt)	20,000
Verband der Chemischen Industrie eV (Landesverband Bayern)	2,000
Deutsche Forschungsgemeinschaft	10,000
	<hr/>
	DM 40,000

The Executive Secretary reported that the Executive Committee had resolved in Strasbourg (Minute 34/72, page 4, LXXIV/EC):

- (i) the per diem allowance for 1973 be not less than \$23;
- (ii) the allowance may be requested in cash in any national currency at an IUPAC meeting.

The 1973 Budget would need some amendment because of the rise in per diem allowance from \$20. However, Prof. Horn reassured Dr. Cairns that no major deletion of items would be necessary from the version of 10 August 1972. (Note. The 1973 Budget as revised by the Treasurer on 23 October 1972 is included as Appendix A to the Minutes.)

Prof. Bénard emphasized that, despite heavy inflation of costs, there had been no real increase in national subscriptions since 1961. Therefore, the Finance Committee was investigating the extent to which the basic subscription unit, presently \$400, should be increased. A proposal was expected for consideration by Council in 1973. Dr. Rees and Sir Harold Thompson mentioned that ICSU had just decided to raise subscriptions from its national members by 40% in 1974.

4.3/72 Ad hoc Committee on Critical Compilation of Thermodynamic Data of Biochemical Processes and Reactions

A request for financial support of \$1,200 from IUPAC had been submitted by the ad hoc Committee. This support, with corresponding contributions from IUPAB and IUB, would enable the ad hoc Committee to meet during 1973 in Lund (or possibly London) and cover secretarial expenses.

Having noted that the 1973 IUPAC Budget made no allowance for the above expenditure, the Bureau Resolved that:

- (i) IUPAC will pay the travel and subsistence of its two members to the 1973 meeting of the ad hoc Committee,
- (ii) a budget for secretarial costs be submitted for consideration by IUPAC.

Prof. Bénard pointed out that IUPAC annual budgets made no provision to deal with unexpected expenditures which inevitably arose each year. The Bureau agreed that, as soon as possible, a general contingency item be included in future budgets.

Minute 5/72

ARRANGEMENTS FOR XXVII IUPAC CONFERENCE (1973)

5.1/72 Oxonian Travel Services

Prof. Bénard reported that the Executive Committee had decided (Minute 6.2/72, LXXIII/EC), in future, travel agents should only be appointed for specific meetings of IUPAC bodies or specific IUPAC-sponsored symposia. If so appointed, an agent might mention the fact in his literature for the specific meeting or symposium. Under no circumstances, however, might the IUPAC symbol be used by a travel agent (or by any other commercial concern). Subsequent to communicating these facts to Oxonian Travel Services, the latter had severed all connection with the Union.

5.2/72 Arrangements for XXVII IUPAC Conference

The Treasurer reported briefly on his visits to Hamburg and Munich with the Assistant Secretary and subsequent developments. His recommendation that the 1973 Conference be held at the Holiday Inn, Munich, had been approved by the IUPAC Officers and Executive Committee and was now endorsed by the Bureau.

A schedule of meetings for Conference, drawn up in consultation with the Officers of each IUPAC body, was presented by the Executive Secretary. No revisions were suggested by the Bureau. Unfortunately, Prof. Horn said it was no longer possible to finance a banquet from German sources. He suggested Conference participants be asked if they were willing to pay for a banquet.

5.3/72 1973 Meetings of Nomenclature Commissions and Committee on Teaching of Chemistry

Prof. Bénard introduced a request from the Commission on Nomenclature of Organic Chemistry to meet outside the IUPAC Conference in 1973. It was noted that two Titular Members of this Commission were simultaneously the Officers of the Commission on Macromolecular Nomenclature. Their dual responsibilities could not be undertaken properly during Conference.

After discussion, in which the Bureau reaffirmed the importance of all IUPAC bodies meeting during the biennial Conference, it was Resolved:

that as an exception to existing policy of the Union and for 1973 only, the Commission on Nomenclature of Organic Chemistry may meet immediately before Conference but in close proximity to Munich.

The Committee on Teaching of Chemistry was assisting UNESCO in organizing an International Congress on Improvement of Chemical Education at Warsaw in 1973. On the basis that UNESCO would pay the travel and subsistence, the Bureau agreed that the Committee could hold its 1973 meeting at Warsaw.

5.4/72 Proposed Meeting of IUPAC Bodies regarding CODATA

Prof. W. Klemm, representative of the Union on CODATA, had investigated the present state of data compilation in chemistry via a questionnaire to members of relevant IUPAC bodies. As a followup he had proposed a meeting of interested parties be held during the XXVII IUPAC Conference. The Bureau agreed that the meeting be convened.

In addition, Prof. Klemm felt that the work of the CODATA Task Group on Data for Chemical Kinetics needed greater participation from IUPAC. Dr. Waddington advised that a clearer definition of the aims of the Task Group be awaited before any joint activity was decided by IUPAC.

Minute 6/72

INTERNATIONAL OFFICE FOR ANALYTICAL CHEMISTRY

The files for the meeting contained a summary of all previous discussions on this subject within IUPAC. Prof. Bénard drew particular

attention to the Bureau resolution in Washington (Minute 100, XXVII/B) and the subsequent decision of the Executive Committee (Minute 10/72, LXXIII/EC).

Prof. Malissa expressed concern at the inability of the Union to provide the \$5,000 necessary to start IOACH, and asked the Bureau to reconsider the decision of the Executive Committee. The Austrian Government had recently reaffirmed its offer of office accommodation for IOACH in Vienna. He believed that any further deferment of the project by IUPAC would inevitably allow another organization the possibility of initiating such a venture.

In answer to a question from Sir Harold Thompson, Prof. Malissa said that IOACH would work in collaboration with SCOPE and the IUPAC-CEE contract programme, not in duplication of them. Dr. Gallay was convinced that IOACH would be helpful to SCOPE. Prof. Malissa reassured Prof. Horn that, following the initial grant of \$5,000, the running costs of IOACH would be met from outside IUPAC.

It was Resolved:

that a loan of \$5,000 be made to the International Office for Analytical Chemistry, to be made available after 1 January 1973, to be repaid within 3 years, without commitment at this stage for a future grant.

The Treasurer expressed his concern that the loan might not be repaid within three years.

Draft Statutes for operation of IOACH through an Advisory Board under IUPAC were approved by the Bureau.

Minute 7/72

COMMISSIONS AND SUB-COMMISSIONS

7.1/72 Proposal for Commission on Structure and Mechanical Properties of Commercial Polymers

The Macromolecular Division had been asked to consider reconstituting its two Working Parties as Commissions. Thus, Council at Washington (Minute 18(ix), XXVI/C) had approved the appointment of an ad hoc Committee to study the need for a Commission on Molecular Characterization of Polymers; and the Macromolecular Division Committee at Washington (Comptes Rendus XXVI Conference, page 166) had recommended the creation of a Commission on Structure and Mechanical Properties of Commercial Polymers.

More recently, however, the Macromolecular Division Committee (Report of Division President to Bureau at Strasbourg) had concluded that the requested transformations were not in the best interests of the Union: the present efficiency of working might be endangered and Commissions required budgetary provision from IUPAC for their meetings.

Prof. Bénard suggested that the whole status of Working Parties within the Union should be considered in the forthcoming revision of IUPAC Statutes.

7.2/72 Proposal for Sub-Commission on Calibration and Test Materials

A major activity of the Commission on Physicochemical Measurements and Standards in recent years had culminated with the publication in 1972 of Catalogue of Physicochemical Standard Substances. While this work had been in progress, the need for a much larger and more comprehensive catalogue was realized. This had led to the appointment of a Task Group on Standard Calibration Substances (Minute 48, XXIII/B). In order to achieve its aims, the work would have to continue for several years. The parent Commission therefore felt it appropriate that the Task Group be reconstituted as a Sub-Commission.

The Chairman of the Committee on Statutes and Bylaws had advised that, in this particular instance, the Task Group could be regarded as equivalent to the ad hoc Committee required by Bylaw 4.1303. After consulting the President of the Physical Chemistry Division, it was Resolved:

that a Sub-Commission on Calibration and Test Materials be established and attached to the Commission on Physicochemical Measurements and Standards, whose Chairman should recommend the composition.

7.3/72 Report of ad hoc Committee on Clinical Toxicology

On behalf of its Chairman, Dr. Tonks presented the report of the ad hoc Committee appointed in Washington (Minute 18(viii), XXVI/C) to study the need for a Commission on Clinical Toxicology. The Clinical Chemistry Section strongly endorsed the conclusion that IUPAC should establish a Commission in this area, with four Titular Members and stated terms of reference.

Dr. Cairns said that the change in title from Section on Toxicology and Industrial Hygiene to Section on Air Quality (VI.4) at the XXVI IUPAC Conference, had not yet been followed by changes in membership and emphasis of working programme. If a Commission on Clinical Toxicology was created, however, he would approve the transfer to it from Section VI.4 of all work on body fluids (blood, urine).

Prof. Rangaswami pointed out that the proposed Commission should not duplicate any existing activities of WHO. Dr. Tonks reassured Prof. Bergmann that the Commission would collaborate with and not overlap IOACH.

Prof. Bénard reminded the Bureau that, not least for financial reasons, the Union should seek to dissolve as well as create IUPAC bodies. Nevertheless, it was Resolved:

that the Bureau accepts the report of the ad hoc Committee and will recommend to Council at the XXVII IUPAC Conference to establish a Commission on Clinical Toxicology attached to the Clinical Chemistry Section.

7.4/72 Proposal for a Commission on Physical Organic Chemistry

Prof. Ourisson introduced a proposal from the International Committee of the 1st IUPAC Conference on Physical Organic Chemistry (Crans-sur-Sierre, 4-8 September 1972), that the Union create a Commission on Physical Organic Chemistry within the Organic Chemistry Division. It would seek to correlate better the work done in this field with related work carried out by physical and analytical chemists. The suggestion that the International Committee should act as the ad hoc Committee to study the matter was accepted by the Bureau.

Minute 8/72

NOMINATIONS OF NEW MEMBERS OF IUPAC BODIES

8.1/72 Ratification of Nominations Endorsed by Correspondence through Executive Committee

The following nominations for new Associate Members of the Commission on Spectrochemical and Other Optical Procedures for Analysis, endorsed by correspondence through the Executive Committee since its LXXIII meeting, were ratified by the Bureau:

R. Jenkins (USA)

V. Vukanovic (Yugoslavia)

8.2/72 Prof. G. Vanzetti

Prof. Bénard reported that Prof. G. Vanzetti was nominated for Associate Membership of the Clinical Chemistry Section at the XXVI IUPAC Conference. Subsequently, the Italian National Adhering Organization had preferred to have Prof. I. Masi nominated, but this was not acceptable to the Clinical Chemistry Section. According to Bylaw 4.1303, the nomination of Prof. Vanzetti should now be deferred for a decision by Council at the next Conference.

The Bureau asked the Secretary General and Dr. Tonks to make one more approach to the Italian National Adhering Organization, pointing out that the nomination of Prof. Vanzetti was not a question of national representation but of appointment of a known international specialist.

Prof. Bénard drew attention to the suggestion of the Division Presidents (Item 3, meeting in Strasbourg, 22 September 1972) that, in the forthcoming revision of IUPAC Statutes, the need for formal approval of the relevant National Adhering Organizations of newly nominated Titular and Associate Members, be reconsidered.

8.3/72 Nominations for New Officers of IUPAC Bodies

The following new Officers of IUPAC bodies, nominated since the XXVI Conference, were ratified by the Bureau:

T. Mabry (USA) - Secretary, Commission on Chemical Taxonomy

A. R. H. Tawn (UK) - Vice-Chairman, Section on Organic Coatings

8.4/72 Membership of Macromolecular Division Committee

Special permission had been obtained (Minute 442, LXIV/EC) to extend the Macromolecular Division Committee beyond the statutory limit of 10 members to 12 during the first few years of activity of the Division.

After reviewing the situation, the Bureau Resolved:

that the membership of the Macromolecular Division Committee be reduced to 11 persons in 1973 and to 10 in 1975.

8.5/72 Nominations of New Members of IUPAC Bodies

The Executive Secretary reported that of 7 nominations for new Soviet members of IUPAC Bodies at the XXVI IUPAC Conference, approved by the Bureau (Minute 117, XXIX/B), only that of Prof. Yu. A. Zolotov had so far been endorsed by the National Adhering Organization in USSR. Prof. Emanuel said the delay was caused by reconstitution of the National Committee of Soviet Chemists, which would not hold its first meeting until later in 1972.

The following nominations for new members of IUPAC bodies were supported by the relevant Division Presidents and approved by the Bureau:-

Sub-Commission I.2.2

Members:

- J. D. Cox (UK), Chairman
- S. Angus (UK)
- H. D. Baehr (Germany)
- F. Dennery (France)
- J. S. Rowlinson (UK)
- V. V. Sytchev (USSR)
- H. J. White, Jr. (USA)

Section VI.2

Associate Members:

- T. K. Ghose (India)
- B. J. Ralph (Australia)
- B. M. Laine (UK)

Section VI.7

Associate Member: P. O. Bethge (Sweden)

Minute 9/72

SYMPOSIA: REPRESENTATION, SPONSORSHIP, SUBVENTION

9.1/72 Official Representatives of IUPAC to Symposia in 1972

Further official representatives of the Union to its sponsored symposia in 1972, appointed by Prof. Bénard through correspondence since the LXXIII Executive Committee meeting (see Appendix B), were ratified by the Bureau.

9.2/72 Ratification of Symposia Sponsored by Correspondence through Executive Committee

The granting of sponsorship by correspondence through the Executive Committee since its LXXIII meeting, was ratified by the Bureau for the symposia listed in Appendix C.

9.3/72 Remarks on VIII International Symposium on Chemistry of Natural Products

Prof. Ourisson presented some observations which might be brought to the attention of organizers of symposia forming part of a series of meetings:

- (i) No plenary lecturer should be invited more than twice or more often than every third meeting.
- (ii) Special treatment for plenary lecturers (accommodation, local transportation, banquet, etc.) should be as moderate as possible in order not to prevent their meeting other delegates.
- (iii) Especially for a developing country, the custom of pre- and post-symposia should be extended with each plenary lecturer giving further lectures at distant places.

9.4/72 Subventions

After some discussion of the financial position of the Union, it was Resolved that:

- (i) a maximum of \$10,000 be set aside in 1974 for subventions to symposia;
- (ii) the Bureau reaffirms its opposition to the provision of lavish social events at symposia.

Dr. Cairns enquired if it was permissible to use surplus Divisional funds from 1972 to provide subventions to symposia, possibly in the form of a repayable loan. In particular, he wished to grant \$500 from the Applied Chemistry Division to the IUPAC-IUFoST Symposium on Contribution of Chemistry to Food Supplies. In approving this particular grant, the Bureau ruled that all such requests must be referred to the Bureau (Executive Committee).

9.5/72 XVI International Conference on Coordination Chemistry (Dublin, 19-24.8.74)

On the basis that a subvention was made to the XIV Symposium (1972), no subvention granted (sponsorship already granted).

9.6/72 Conference on Advances and Future of Macromolecular Science (Stary Smokovec, 15-17.5.73)

Supported by Macromolecular Division. IUPAC publication rights waived, but extended report requested for Information Bulletin. Sponsorship granted.

9.7/72 International Symposium on Macromolecules (Rio de Janeiro,
26-31.7.74)

Supported by Macromolecular Division. IUPAC wished to publish main lectures, but details not yet finalized. Sponsorship granted.

9.8/72 III International Congress of Pesticide Chemistry (Helsinki,
3-9.7.74)

Subvention of \$2,000 granted to associated Symposium on Dispersion Dynamics of Pollutants in Environment with Special Reference to Pesticides (sponsorship already granted).

9.9/72 IV International Conference on Solid Compounds of Transition Elements (Geneva, 9-13.4.73)

Because 1973 was a IUPAC Conference year, no subvention granted (sponsorship already granted).

9.10/72 International Congress on Improvement of Chemical Education
(Warsaw, October 1973)

Being organized by UNESCO with assistance of IUPAC Committee on Teaching of Chemistry. IUPAC publication rights waived. Sponsorship granted.

9.11/72 VI International Mass Spectrometry Conference (Edinburgh,
10-14.9.73)

Supported by Physical Chemistry Division. IUPAC publication rights waived, but without any commitment to waive rights for future meetings in this series. Sponsorship granted.

9.12/72 III International Conference on Chemical Thermodynamics
(Baden, near Vienna, 3-6.9.73)

Because 1973 was a IUPAC Conference year, no subvention granted (sponsorship already granted). Bureau gave Dr. Waddington permission to grant up to \$500 from any surplus 1972 Physical Chemistry Division funds.

9.13/72 IV International Conference on Nonaqueous Solvents (Vienna,
July 1974)

Supported by Inorganic Chemistry Division. IUPAC wished to publish 6 main lectures. Sponsorship granted. Subvention of \$1,000 granted and matter to be reviewed at next Executive Committee meeting when financial situation of Union clearer.

9.14/72 International Symposium on Plasma Chemistry (Kiel, 6-10.9.73)

Supported by Physical Chemistry Division. IUPAC wished to publish 6 main lectures. Sponsorship granted. Bureau gave Dr. Waddington permission to grant up to \$2,200 from any surplus 1972 Physical Chemistry Division funds.

9.15/72 XV International Conference on Coordination Chemistry (Moscow, 25-30.6.73)

Supported by Inorganic Chemistry Division. IUPAC wished to publish 13 main lectures. Sponsorship granted.

The need for continued support of well established series of symposia was questioned. Some members of the Bureau felt that IUPAC sponsorship should rather be given to meetings in growth areas of chemistry. It was suggested that the general sponsorship policy of the Union should be discussed at the next Executive Committee meeting.

9.16/72 II Symposium on Inorganic Phosphorus Compounds (Prague, September 1974)

Bureau in favour of granting a small subvention, but decision deferred pending availability of more realistic budget (sponsorship already granted).

9.17/72 Timing of Applications for Sponsorship

Sir Harold Thompson reminded the Bureau that a request for sponsorship should normally be submitted to IUPAC 2 years before the actual meeting. Too many recent requests had failed to observe this rule, which could lead to granting of sponsorship without proper consideration within the Union. For instance, it had proved difficult to obtain publication information until the very last minute for the International Conference on Molecular Spectroscopy (Wroclaw, 15-19.9.72).

Minute 10/72

EXCHANGE OF VIEWS ON FUNCTIONS OF SECRETARY GENERAL (Dr. Williams not in attendance)

During a broad exchange of views on this matter, most of the Bureau members expressed their opinion on the proposal presented by Prof. Glemser and previously supported by Prof. Smets and Dr. Gabrielson, that the development of the Secretariat in Oxford and the presence at its head of an Executive Secretary rendered completely superfluous the office of Secretary General, and that its abolition should be recommended to Council. A large majority of members rejected this proposal and wished the Secretary General to fulfil the role of "Honorary Officer" similar to the other Officers in this category. The hope was also expressed that any expenses of a secretarial service for the Secretary General would be kept as low as possible. Finally, it was decided not to recommend this proposal to Council.

Minute 11/72

PUBLICATIONS

11.1/72 Minutes of Meeting of Committee on Publications (21.4.72) and Matters Arising

11.1.1/72 Information Bulletin Subscription in 1973 and Charge for Appendices

The Bureau accepted the recommendation of the Committee on Publications that the subscription (surface postage) to the Bulletin and its Appendices in 1973 be raised to \$9.00 (£3.00), the rate for air postage of the Bulletin to be \$12.00 (£4.00). It decided as a matter of principle because comments were being solicited to continue to service requests for the Tentative Nomenclature Appendices (yellow booklets) free of charge. Technical Reports (blue booklets) would also be free of charge until the financial efficiency of handling small-charge payments by the Secretariat became clearer.

Dr. Gallay asked for a clear policy to be defined on which reports of IUPAC bodies should be published as Technical Reports and which in Pure and Applied Chemistry. Sir Harold Thompson agreed to discuss the matter at the next meeting of the Committee on Publications.

11.1.2/72 Ex-officio Membership of Bureau and Advisory Board for PAC

The Bureau accepted the recommendations of the Committee on Publications that:

- (i) the Chairman of the Committee on Publications and not the Chairman of the Editorial Advisory Board should be an ex-officio member of the Bureau (cf. Minute 6, XXIC/C);
- (ii) the Committee on Publications and not the Bureau should constitute the Advisory Board (cf. Minute 17, XXIV/C).

Prof. Bénard enquired why ex-officio memberships of the Bureau were restricted to the Chairmen of the Committee on Publications, Coordinating Committee for Analytical Methods for CEE and IARC, and Clinical Chemistry Section: surely it was important for the Chairman of the Finance Committee to be a member. The Executive Committee was asked to discuss the matter at its next meeting.

11.1.3/72 Income-Expenditure Account for IUPAC Publications

Sir Harold Thompson referred to the files for the meeting, which contained IUPAC Publications Financial Statements for 1970 and 1971 together with a Publications Estimate for 1972. Prof. Horn expressed satisfaction with the Union's publishing activities now that it was clear there was a financial surplus each year. He asked for future Statements to be given in US-dollars rather than £-sterling.

11.1.4/72 Renewal of Contract with Butterworths

The Bureau approved the proposal of the Committee on Publications only to extend the appointment of Butterworths as official publisher to IUPAC for one year at a time from 1 July 1972. Termination was by 6 months notice from either party at any time.

11.1.5/72 Thermodynamic Tables Project

OSTI was now almost solely responsible for financing the IUPAC Thermodynamic Tables Project Centre at Imperial College, London. The grant might be withdrawn unless the Union paid about 80% of the royalties from publication of the Tables in support of the actual compilation work. The Bureau agreed that a formal decision on a financial contribution to the Centre be deferred until the 1972 royalty for the Argon Tables was known.

11.1.6/72 Future IUPAC Publishing Policy

Sir Harold Thompson referred to the discussion on future IUPAC publishing policy in the minutes of the meeting of the Committee on Publications. He had prepared his own report on IUPAC publications (as of 14 August 1972), which was presented to the Bureau. Sir Harold Thompson went briefly through the various sections of this report emphasizing his guidelines for the future. He thought the observations made by Prof. Ourisson on symposia series (Minute 9.3/72, XXX/B) could be included in the proposed memorandum to organizers and Division Presidents.

The suggested guidelines for future publishing policy were approved by the Bureau.

11.2/72 Ratification of Tentative Nomenclature Recommendations and Other Reports Approved by Correspondence through Executive Committee

The Tentative Nomenclature Recommendations and other Reports approved by correspondence through the Executive Committee since its LXXIII meeting (see Appendix D) were ratified by the Bureau.

11.3/72 Definitive Rules for Nomenclature of Quinones with Isoprenoid Side Chains

The Bureau directed that these Definitive (final) Rules from the IUPAC-IUB Commission on Biochemical Nomenclature be circulated to the Commissions on Nomenclature of Organic Chemistry and Macromolecular Nomenclature, then be approved by the two relevant Division Presidents, before being presented for adoption by Council at the XXVII IUPAC Conference.

11.4/72 Status of Faraday Constant as an Analytical Standard

Subject to minor amendments, this report from the Commission on Electroanalytical Chemistry had been approved by the Division Committee for publication. Before bringing it before the Bureau, the Report had been circulated to the Commission on Physicochemical Measurements and Standards and the Interdivisional Committee on Nomenclature and Symbols. Although it was not mandatory for their comments to be passed back to the Analytical Chemistry Division, Prof. Kemula agreed that they would be considered.

11.5/72 Definitive Recommendations for Presentation of Raman Spectra
for Cataloging and Documentation in Permanent Data Collections

Dr. Waddington said that, subject to minor changes, these Definitive Recommendations from the Commission on Molecular Structure and Spectroscopy were approved by the Division Committee at the XXVI IUPAC Conference. Unfortunately, however, they were not brought before Council for adoption. The Bureau directed that the Recommendations be brought before Council at the XXVII Conference.

Minute 12/72

INTERNATIONAL STANDARDS FOR SPECIFICATIONS AND TERMINOLOGY OF
COMMERCIAL ISOTOPICALLY LABELLED BIOCHEMICALS

The US National Committee for IUPAC had drawn the attention of IUPAC and IUB to the need for standards internationally agreed upon for specification and terminology of commercial isotopically labelled biochemicals. IUPAC bodies interested in this area were the IUPAC-IUB Commission on Biochemical Nomenclature, Commission on Nomenclature of Organic Chemistry, and Commission on Analytical Radiochemistry and Nuclear Materials. The Bureau agreed that the problem be discussed at the forthcoming meeting of IUB Officers and a delegation from IUPAC (see Minute 37.2/72, LXXIV/EC).

Minute 13/72

NATIONAL ADHERING ORGANIZATIONS

13.1/72 Position of German Democratic Republic

Prof. Herout referred to his contact with DDR from which it appeared that Chemische Gesellschaft der DDR was considering applying for National Adhering Organization status of the Union through the DDR Academy of Sciences. He would be visiting DDR later this year and might be able to help initiate the application.

13.2/72 Role of National Committees for IUPAC

Dr. Gallay gave the background to his memorandum in the files for the meeting. He was anxious to draw the National Committees into a closer relationship with the Union and to improve the level of activity in some cases. The memorandum was a suggested framework rather than a rigid set of rules for operation.

Various points of view were put forward in the ensuing discussion: some members thought the memorandum would be resented, while others thought a letter along these lines might be well received. The Bureau decided to leave the method of treatment of the matter to the President and Secretary General.

Minute 14/72

ASSOCIATED ORGANIZATIONS

14.1/72 International Society of Heterocyclic Chemistry

An application from the Society for Associated Organization status of the Union was considered. It was supported by Prof. Ourisson and the Bureau agreed to recommend its acceptance by Council.

14.2/72 Liaison with Association of Official Analytical Chemists

Suggestions from AOAC for collaborative testing of analytical methods with IUPAC had been favourably received by the Analytical Chemistry and Applied Chemistry Divisions. Dr. Gallay had drawn attention to the possibility of applying for Associated Organization status of the Union and this was now under consideration within AOAC. Some doubts were expressed in the Bureau about admitting such an organization into IUPAC, but a decision was deferred pending receipt of an application.

14.3/72 Distribution of IUPAC Minutes

The ad hoc Committee on Interdisciplinary Matters, in its report to the Bureau in 1970 (Minute 88, XXVI/B), had recommended IUPAC publications and eventually minutes of relevant Division Committee and Commission meetings be presented to Associated Organizations. The Bureau agreed that this was fulfilled by sending them, free of charge, issues of the Comptes Rendus and the Information Bulletin and its Appendices.

14.4/72 International Association for Advancement of High Pressure Science and Technology

In view of the lateness of application at the XXVI Conference, AIRAPT had been advised to reapply for Associated Organization status at the XXVII Conference. Prof. Bénard had just received the reapplication. Some doubts were expressed within the Bureau whether AIRAPT had been established long enough to guarantee its level of activity. It was decided to defer further consideration of the reapplication, pending establishment at the next meeting of the Executive Committee of guidelines for admission to Associated Organization status of IUPAC.

14.5/72 International Committee for Rheology

An application from the Committee was not considered, pending establishment of the guidelines mentioned under Minute 14.4/72. Meanwhile, the opinions of the Macromolecular Division and Commission on Colloid and Surface Chemistry should be sought about the Committee.

Minute 15/72

REPORTS OF DIVISION PRESIDENTS AND CLINICAL CHEMISTRY SECTION

The files for the meeting contained reports of activities since the XXVI IUPAC Conference. It was Resolved that:

the Reports of the Division Presidents and Clinical Chemistry Section be recorded as officially received by the Bureau and they be published in the Information Bulletin.

Dr. Tonks reported that, following agreement between the Commission on Quantities and Units in Clinical Chemistry and the IUPAC-IUB Commission on Biochemical Nomenclature (CBN), some proposals for kinds of quantities and units in enzymology had been issued jointly by IUPAC and IFCC as Tentative Nomenclature Recommendations Nos. 20 and 21 to the Information Bulletin (February 1972). Subsequently, however, in preparing for press the third edition of Enzyme Nomenclature, CBN had modified unilaterally some of the proposals. The Executive Secretary was asked to prepare a brief memorandum on the matter for Prof. Bénard and possible discussion at the forthcoming meeting of IUB Officers and a delegation from IUPAC.

Dr. Waddington suggested that, in view of the much wider implications of quantities and units in chemistry, the Commission on Physicochemical Symbols, Terminology, and Units might be better reconstituted as an Interdivisional Committee. Prof. Bénard advised that the suggestion be referred for the attention of the ad hoc Committee on Nomenclature and Symbols.

Minute 16/72

REPORT OF COORDINATING COMMITTEE FOR ANALYTICAL METHODS FOR CEE AND IARC

Prof. Truhaut said that the CEE authorities wished to establish toxicologically which food additives were harmless and also criteria of purity for food additives. The second topic was the subject of a continuing contract between CEE and IUPAC. The files for the Bureau meeting contained a report of a recent meeting (Kungälv, 24 August 1972) of the Liaison Group of the IUPAC Coordinating Committee for Analytical Methods for CEE and IARC. Important points to note were that:

- (i) the minutes of the IUPAC-CEE meeting in Brussels (4 November 1971) and of the Liaison Group in Amsterdam (4 January 1972) were now considered by IUPAC as constituting the new basic document replacing that of May 1966;
- (ii) preparations for fulfilment of the 1972 contract with CEE were well advanced;
- (iii) no contract for 1973 had yet been issued by CEE.

Regarding IARC, Prof. Truhaut reported that some IUPAC experts had collaborated informally in establishing a compendium of methods for determination of carcinogens in the environment. He recommended that mention simply be made in the compendium of IUPAC participation.

On behalf of the Bureau, Prof. Bénard warmly thanked Prof. Truhaut and his colleagues for their efforts on behalf of the Union.

Minute 17/72

NAMES FOR ELEMENTS 104 AND 105

Prof. Glemser referred to protracted discussions in the Bureau and Executive Committee in an effort to resolve the controversy on names for elements 104 and 105. He had personally kept up a vivid correspondence on the matter with his fellow Officers of the Inorganic Chemistry Division and the Chairman of the Commission on Nomenclature of Inorganic Chemistry (II.2). Although IUPAC could not decide on the priority of discovery of the two elements, Prof. Glemser believed the Union should reach a decision on their names no later than at the XXVII Conference. The Bureau decided this was in accordance with the stated view of Commission II.2 (Comptes Rendus XXVI Conference, page 59) that elements 104 and 105 not be named until 5 years after the initial announcement of their discovery, and that it did not wish to make a choice of name before mid-1973 at the earliest.

Minute 18/72

REORGANIZATION OF DIVISION OF APPLIED CHEMISTRY

Dr. Cairns reminded the Bureau of the conclusion of the ad hoc Committee on Applied Chemistry (Minute 89, XXVI/B), that it was impracticable to try and cover all facets of industrial chemistry with specific IUPAC bodies. Therefore, in planning its future programme, the Applied Chemistry Division had decided to place emphasis on the chemistry of food and the environment.

The first phase of Divisional reorganization was constituted by dissolution of the Section on Pulp, Paper, and Board at Washington, and the pending dissolution of the Section on Organic Coatings at Munich. This left the Sections on Food, on Fermentation Industries, and on Oils and Fats pertaining to the chemistry of food; and the Sections on Air Quality, on Water Quality, and on Pesticides pertaining to the environment. The Division Committee had met at Strasbourg to examine the present and future work programmes of these Sections. In some cases the Titular Membership might be curtailed after the XXVII IUPAC Conference, while in others a broadening of programmes was necessary. Dr. Cairns was contemplating recommending a change in title for the Division to "Chemistry of Food and the Environment"; and from "Sections" to "Commissions" to imply a definite lifetime for each body. Finally, he was now ready to study the need for a Section on Reclamation of Solid Wastes, but in terms of recycling of materials rather than waste disposal alone.

Sir Harold Thompson asked about collaboration between the IUPAC Food Section and IUFOST. Dr. Cairns mentioned the forthcoming joint symposium on Contribution of Chemistry to Food Supplies (Hamburg, 3-8 September 1973) and the dual membership of Drs. Egan and Bosund of the two Unions. Also, it had been suggested that IUFOST nominate an Associate Member for the IUPAC Food Section, with reciprocal representation of IUPAC in IUFOST. Dr. Gallay thought there should be little overlap in activity because IUFOST was more interested in food technology and engineering.

Furthermore, Sir Harold Thompson enquired if it was envisaged other aspects of applied chemistry would be covered by the Division within the next few years. Dr. Cairns replied that the present activities and their more general aspects would probably occupy all efforts of the Division for the next decade.

Minute 19/72

REVIEW OF DISTRIBUTION OF PURE AND APPLIED CHEMISTS IN IUPAC

At its XXVI meeting in 1970, the Bureau had made suggestions for increasing the membership level of industrial chemists on IUPAC bodies (Minute 89), the matter to be reviewed in 2 years time. On a basis proposed by Prof. Bénard, the Secretariat had therefore prepared a breakdown of memberships in the Comptes Rendus of the XXV and XXVI IUPAC Conferences. Little increase was evident in the number of industrial chemists in the Union. However, Dr. Cairns conceded that a significant increase could only take place over several Conferences as membership places became vacant. Nevertheless, he was still anxious to see IUPAC represent international industrial interests throughout all of its Divisions.

Minute 20/72

LOCATION OF XXVIII IUPAC CONFERENCE (1975)

In accordance with the request of the Executive Committee (Minute 30/72, LXXIII/EC), the Secretariat had compared the travel costs for holding the XXVIII Conference in Budapest and in Tel Aviv. On the basis of 1972 air fares the cost was about \$75,000 cheaper in the case of Budapest. The Executive Secretary hoped to present more detailed information, including costs of accommodation, for the next meeting of the Executive Committee.

Minute 21/72

PROPOSED SUBJECTS FOR XXV IUPAC CONGRESS (1975)

On behalf of the Chairman of the Organizing Committee, Prof. Bergmann presented proposals for the scientific programme, including themes in physical, organic, applied, and clinical chemistry. Prof. Ourisson commented that some restriction should be placed on the suggested theme of "General Organic Chemistry", otherwise the Bureau expressed satisfaction with the proposals.

Minute 22/72

INVITATION FOR 1974 BUREAU MEETING

Prof. Suomalainen supported an invitation from Dr. Larinkari of the Federation of Finnish Chemical Industries, to hold the 1974 Bureau meeting in conjunction with the III International Pesticide Chemistry

Congress at Helsinki (3-9.7.74). A decision was deferred until the Bureau met at the XXVII IUPAC Conference, but meanwhile thanks were recorded for the invitation.

Minute 23/72

AD HOC COMMITTEE FOR INTERNATIONAL ORGANIZATION FOR CHEMOSYSTEMATICS

The Bureau acceded to the recommendation of Prof. Ourisson that the ad hoc Committee (Minute 111, XXVII/B) be dissolved. So far it had been unable to meet and other attempts to engender support for the project had received a poor response. An alternative approach to the basic problem was being considered.

Minute 24/72

PROPOSAL FOR DIVISION OF NUCLEAR AND RADIOCHEMISTRY

A proposal for a Division of Nuclear and Radiochemistry within the Union had been submitted via Prof. Bergmann. The Commission on Analytical Radiochemistry and Nuclear Materials had suggested a meeting of all interested parties be held during the XXVII Conference. The Bureau asked the Division Presidents to discuss the matter by correspondence before they met in Munich.

Minute 25/72

REPORT ON SCOPE

Dr. Gallay referred to his report in the file for the meeting and drew particular attention to the Working Group on Analytical Methods of which he was Chairman. The fifth meeting of the Group would take place shortly and good progress was being made in establishing methodology for determination of toxic substances in the environment.

VOTE OF THANKS

Prof. Bénard agreed to write an official letter of thanks to Profs. Benoit and Ourisson for the provision of hospitality and local arrangements for the meeting.

* * * * *

The Meeting closed at 16.10

CHAIRMAN: *Benoit*

Date: *28 august 1973*

IUPAC BUDGET: 1973*
(as of 23rd October 1972)

<u>INCOME</u>		<u>EXPENDITURE</u>	
<u>Subscriptions from National Adhering Organizations</u>	114,900	<u>Office Expenses</u>	
<u>Subscriptions from Company Associates</u>	54,799	Secretary General & Officers	4,000
<u>Interest and Dividends Earned</u>	12,000	IUPAC Secretariat	74,148
<u>Publications (Butterworths)</u>	22,000	Conference Secretariat	6,457
<u>Grants to XXVI Conference</u>	12,422		84,605
<u>Other Income</u>		<u>Travel, Subsistence, Administration</u>	
Contract with CEE	6,166	<u>IUPAC Bodies</u>	141,775
Contract with UNESCO	5,857	<u>Publications (Secretariat)</u>	12,939
Publications (Secretariat)	6,000	<u>Publications (Butterworths)</u>	1,568
Subvention from ICSU	14,000	<u>Loan to International Office for</u>	
	32,023	<u>Analytical Chemistry</u>	5,000
	248,144	<u>Other Expenses</u>	
		Auditing, Accounting and	
		Bank Charges	7,000
		Contributions to ICSU and	
		ICSU Committees	3,173
		IUPAC Representatives on	
		Other Organizations	1,500
		Publications for Company	
		Associates	6,739
		Brochure for Company	
		Associates	500
		Ad hoc Committee on Bio-	
		chemical Thermodynamics	1,200
<u>Excess of Expenditure over Income</u>	17,855		20,112
			265,999
	265,999		

* All figures in US \$

EXPLANATION OF EXPENDITURES

Standing Committees	34,875
Clinical Chemistry Section	5,430
Physical Chemistry Division	20,353
Inorganic Chemistry Division	11,420
Organic Chemistry Division	12,627
Macromolecular Division	6,280
Analytical Chemistry Division	23,837
Applied Chemistry Division	23,641
	<hr/>
	138,463
Additional Subsistence*	3,312
	<hr/>
	141,775
	<hr/>

* Canada and USA affinity group participants

STANDING COMMITTEES

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u> ^o	<u>SUBSISTENCE</u> ^o	<u>ADMIN.</u>
Executive Committee					
(Villefranche, March)	8	2	3,951	621	-
*(Munich, August)	8	5	3,369	1,173	-
*Bureau					
(Munich, August)	25	4	8,777	3,082	-
*Division Presidents					
(Munich, August)	7	1	1,835	391	-
*Committee on Publications					
(Munich, August)	6	1	1,337	391	25
Committee on SCOPE	5	-	-	-	-
Committee on Statutes and By-laws	5	-	-	-	-
Committee on Teaching of Chemistry					
(Munich, August)	2	3	744	299)	
(Warsaw, October)	8	2	5,161	644)	50
Coordinating Committee for Analytical Methods					
(Paris, Spring)	6	2	491	276)	
*(Munich, August)	10	3	2,367	920)	100

Finance Committee					
(Zürich, February)	7	2	2,611	506)	
*(Munich, August)	7	1	2,157	460)	-
Interdivisional Committee on Machine Documentation					
*(Munich, August)	8	3	1,676	782	-
Interdivisional Committee on Nomenclature & Symbols					
(Munich, August)	9	7	2,194	1,679	25
IUPAC-IUB Liaison Committee	3	-	-	-	-
IUPAC-IUB Commission on Biochemical Nomenclature					
(Meersburg, June)	5	4	2,794	621	150
			<hr/>	<hr/>	<hr/>
			39,464	11,845	350
			<hr/>	<hr/>	<hr/>
* Less Double Accounting			7,096	1,380	
			<hr/>	<hr/>	
			32,368	10,465	
			<hr/>	<hr/>	
* Less 20% (no claims)			6,474	2,093	
			<hr/>	<hr/>	
			25,894	8,372	
			<hr/>	<hr/>	
• Plus 1% IRC			259		
			<hr/>		
			26,153		
			<hr/>		

For explanations see over

ø Based on 1972 economy class air fares (no changes expected for 1973) and subsistence of \$23 per day.

Travel from Canada and USA based on affinity group air fare (New York-Munich-New York) of \$334 plus economy class air fare from home town to New York.

Travel from Japan based on group inclusive tour air fare (Tokyo-Munich-Tokyo) of \$1,027 with a minimum selling price of \$1,273.

* Based on XXV (1969) and XXVI (1971) IUPAC Conferences

● International Route Charge

CLINICAL CHEMISTRY SECTION

(all meetings in Munich, August)

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u> ^ø	<u>SUBSISTENCE</u> ^ø	<u>ADMIN.</u>
Residual Funds from 1972			(Not yet known)		
* Section Committee	9	1	3,159	713	200
* Commission on Automation	4	2	827	345	25
* Commission on Quantities and Units	5	3	861	345	100
* Commission on Teaching	4	3	842	253	250
			<hr/>	<hr/>	<hr/>
			5,689	1,656	575
* Less Double Accounting			1,360		<hr/>
			<hr/>		
			4,369		
* Less 20% (no claims)			874	331	
			<hr/>	<hr/>	
			3,495	1,325	
• Plus 1% IRC			35	<hr/>	
			<hr/>		
			3,530		
			<hr/>		

PHYSICAL CHEMISTRY DIVISION

(all meetings in Munich, August)

7

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL</u> ^o	<u>SUBSISTENCE</u> ^o	<u>ADMIN.</u>
Contingency Fund			←-----250-----→		
Residual Funds from 1972			(Not yet known)		
* Division Committee	10	7	2,407	1,564	100
* I.1: Physicochemical Symbols, Terminology, and Units	8	5	1,634	1,012	25
* I.2: Thermodynamics and Thermochemistry	8	5	2,970	920	25
I.3: Electrochemistry	8	3	2,183	920	25
* I.4: Physicochemical Measurements and Standards	7	4	3,892	828	25
I.5: Molecular Structure and Spectroscopy	7	4	3,678	966	25
* I.6: Colloid and Surface Chemistry	9	4	2,716	1,058	25
			<u>19,480</u>	<u>7,268</u>	<u>250</u>
*Less Double Accounting			<u>2,106</u>		
			17,374		
*Less 20% (no claims)			<u>3,474</u>	<u>1,454</u>	
			13,900	<u>5,814</u>	
•Plus 1% IRC			<u>139</u>		
			<u>14,039</u>		

INORGANIC CHEMISTRY DIVISION

8

(all meetings in Munich, August)

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL^o</u>	<u>SUBSISTENCE^o</u>	<u>ADMIN.</u>
Contingency Fund			←-----250-----→		
Residual Funds from 1972			(Not yet known)		
* Division Committee	10	7	2,669	1,863	100
* II.1: Atomic Weights	8	4	3,331	966	-
* II.2: Nomenclature of Inorganic Chemistry	9	6	2,853	1,334	100
* II.3: High Temperatures and Refractory Materials	6	3	1,414	460	-
			<u>10,267</u>	<u>4,623</u>	<u>200</u>
* Less Double Accounting			<u>1,267</u>		
			9,000		
* Less 20% (no claims)			<u>1,800</u>	<u>925</u>	
			7,200	3,698	
• Plus 1% IRC			<u>72</u>		
			<u>7,272</u>		

ORGANIC CHEMISTRY DIVISION

9

(Meetings in Munich, August, unless otherwise stated)

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL^o</u>	<u>SUBSISTENCE^o</u>	<u>ADMIN.</u>
Contingency Fund			←-----250-----→		
Residual Funds from 1972			(Not yet known)		
* Division Committee	9	3	2,761	828	25
* III.1: Nomenclature of Organic Chemistry					
(Wurzburg, August)	8	6	2,271	1,334)	
(Munich, August)	2	1	100	92)	100
* III.2: Chemical Taxonomy	8	2	2,673	529	25
III.3: Organic Photochemistry	4	4	799	483	25
III.4: Medicinal Chemistry	8	4	3,331	989	50
			<u>11,935</u>	<u>4,255</u>	<u>225</u>
* Less Double Accounting			<u>1,109</u>		
			10,826		
* Less 20% (no claims)			<u>2,165</u>	<u>851</u>	
			8,661	<u>3,404</u>	
• Plus 1% IRC			<u>87</u>		
			<u>8,748</u>		

MACROMOLECULAR DIVISION

10

(all meetings in Munich, August)

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL^o</u>	<u>SUBSISTENCE^o</u>	<u>ADMIN.</u>
Contingency Fund				←-----250-----→	
Residual Funds from 1972				(Not yet known)	
<hr/>					
* Division Committee	12	4	3,332	1,380	50
* IV.1: Macromolecular Nomenclature	8	5	2,747	920	25
			-----	-----	-----
			6,079	2,300	75
			-----		-----
* Less Double Accounting			987		

			5,092		
* Less 20% (no claims)			1,018	460	
			-----	-----	
			4,074	1,840	

• Plus 1% IRC			41		

			4,115		

ANALYTICAL CHEMISTRY DIVISION

11

(all meetings in Munich, August)

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL^o</u>	<u>SUBSISTENCE^o</u>	<u>ADMIN.</u>
Contingency Fund			←-----250-----→		
Residual Funds from 1972			(Not yet known)		
* Division Committee	10	6	3,538	1,564	100
* V.1: Analytical Reactions and Reagents	8	5	1,643	989	25
V.2: Microchemical Techniques and Trace Analysis	8	4	1,817	1,012	25
* V.3: Analytical Nomenclature	8	5	1,788	897	25
V.4: Spectrochemical & Other Optical Procedures for Analysis	8	5	2,216	1,219	50
V.5: Electroanalytical Chemistry	7	4	2,799	943	25
V.6: Equilibrium Data	8	5	3,549	1,196	25
* V.7: Analytical Radiochemistry & Nuclear Materials	8	5	3,439	1,150	150
			<u>20,789</u>	<u>8,970</u>	<u>425</u>
* Less Double Accounting			<u>1,005</u>		
			19,784		
* Less 20% (no claims)			<u>3,956</u>	<u>1,794</u>	
			15,828	<u>7,176</u>	
• Plus 1% IRC			<u>158</u>		
			<u>15,986</u>		

APPLIED CHEMISTRY DIVISION

12

(all meetings in Munich, August)

	<u>MEMBERS ELIGIBLE FOR EXPENSES</u>	<u>NO. OF DAYS OF MEETING</u>	<u>TRAVEL^o</u>	<u>SUBSISTENCE^o</u>	<u>ADMIN.</u>
Contingency Fund			←-----250-----→		
Residual Funds from 1972			(Not yet known)		
* Division Committee	8	7	2,089	966	100
* VI.1: Food	8	5	2,845	966	25
* VI.1.1: Food Additives	4	4	855	115	25
* VI.1.2: Food Contaminants	7	4	3,265	644	100
* VI.2: Fermentation Industries	8	5	2,971	1,081	50
VI.3: Oils and Fats	7	5	1,066	1,035	150
* VI.4: Air Quality	8	5	2,775	1,150	25
* VI.5: Pesticides	7	6	2,949	1,150	25
* VI.5.1: Terminal Pesticide Residues	7	4	2,578	368	25
* VI.5.2: Pesticide Residue Analysis	7	2	1,831	230	25
VI.6: Organic Coatings	8	4	970	1,012	25
VI.7: Water Quality	7	4	1,651	920	-
			<u>25,845</u>	<u>9,637</u>	<u>575</u>
* Less Double Accounting			<u>7,150</u>		
			18,695		
* Less 20% (no claims)			<u>3,739</u>	<u>1,927</u>	
			14,956	<u>7,710</u>	
• Plus 1% IRC			<u>150</u>		
			<u>15,106</u>		

GENERAL EXPENSES

	<u>TRAVEL AND SUBSISTENCE</u>	<u>ADMIN.</u>
Secretary General	500	3,000
Contingency Fund for Other Officers	500	
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IUPAC Secretariat:-		
Executive & Assistant Secretaries, Typists (36,962)		
Assistant Secretary (Publications) & Typist (12,939)		
Rent (3,358)		
Rates (1,864)		
Operations:		
(i) Electricity (588)		
(ii) Telephone (858)		
(iii) Postage & Telegrams:		
Secretariat (670)		
Company Associates (150)		
Publications (1,138)		
IUPAC Bodies (2,680)		
(iv) Stationery & Machines:		
Secretariat (1,797)		
IUPAC Bodies (1,797)		
(v) Photocopying:		
Secretariat (483)		
IUPAC Bodies (4,347)		
(vi) Cleaning (446)		
Miscellaneous (1,100)		
Travel & Subsistence (2,971)	2,971	71,177
<hr/>		
XXVII IUPAC Conference Secretariat		6,457

Publications (Secretariat):-

Information Bulletin (printing 3 issues) (6,339)		
Appendices to Inf.Bull. (Nomenclature-7, Reports-3) (6,600)		12,939
<hr/>		
Publications (Butterworths) - Scientific Editors		1,568
Accounting ()		4,800
(Schweizerische Bankgesellschaft)		
Bank Charges ()		1,200
Chartered Auditors		1,000
Contribution to ICSU (2.5% NAO Subscriptions)		2,873
ICSU Abstracting Board		100
ICSU Committee on Teaching of Science		200
IUPAC Representatives on Other Organizations	1,500	
Publications for Company Associates Scheme		6,739
Brochure for Company Associates		500
Ad hoc Committee for Biochemical Thermodynamics		1,200
Loan to International Office for Analytical Chemistry		5,000
	<hr/>	<hr/>
	5,471	118,753
	<hr/>	<hr/>

APPOINTMENTS MADE BY PROF. BÉNARD SINCE LXXIIIrd
MEETING OF EXECUTIVE COMMITTEE

Microsymposium on Photochemical Processes in Polymer Chemistry
(Louvain, 10-15.6.72)

- Prof. H. Benoit

VIIIth International Congress on Clinical Chemistry (Copenhagen,
18-23.6.72)

- Dr. D.B. Tonks

XIVth International Conference on Coordination Chemistry
(Toronto, 22-28.6.72)

- Prof. J.C. Bailar, Jr.

IVth IUPAC International Photochemistry Symposium (Karlsruhe,
16-22.7.72)

- Prof. J. Rigaudy

VIIth International Symposium on Reactivity of Solids (Bristol,
17-21.7.72)

- Prof. N.N. Greenwood

VIth International Symposium on Carbohydrate Chemistry
(Madison/Wisconsin, 14-18.8.72)

- Prof. H. Zollinger

International Symposium on Control of Mycotoxins
(Kungälv/Göteborg, 21-22.8.72)

- Dr. H. Egan

IIInd Discussion Conference on Macromolecules (Prague, 21-24.8.72)

- Prof. O. Wichterle

Vth International Congress on Catalysis (Miami/Florida, 21-25.8.72)

- Prof. H. van Olphen

Ist International Symposium on Advances in Microbial Engineering
(Marienbad, 28.8-1.9.72)

- Dr. J.C. Hoogerheide

Xth and XIth Microsymposia on Macromolecules (Prague, 28.8-7.9.72)

- Prof. O. Wichterle

IIIrd International Symposium on Carotenoids other than
Vitamin A (Cluj, 4-7.9.72)

- Prof. B.C.L. Weedon

Ist IUPAC Conference on Physical Organic Chemistry (Crans-sur-Seirre,
4-8.9.72)

- Prof. P.D. Bartlett

Vith International Congress on Surface Active Substances
(Zürich, 11-15.9.72)

- Prof. H. Zollinger

International Symposium on Medicinal Chemistry (Milan, 13-15.9.72)

- Prof. E. Campaigne

International Conference on Molecular Spectroscopy (Wrocław,
15-19.9.72)

- Prof. N. Sheppard

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EXECUTIVE COMMITTEE SINCE ITS LXXIIIrd MEETING

International Conference on Molecular Spectroscopy (Wrocław, Poland :
15-19.9.72)

International Radiocarbon Dating Conference (Wellington, New Zealand :
18-15.10.72)

IVth International Conference on Solid Compounds of Transition Elements
(Geneva, Switzerland : 9-13 April 1973)

Vth International Conference on Organometallic Chemistry
(Amherst/Mass. : 12-17.9.73)

International Symposium on Microchemical Techniques (Pennsylvania
State University : 26-31.8.73)

International Symposium on Pore Structure and Properties of Materials
(Prague, Czechoslovakia : 18-21.9.73)

IIIrd International Pesticide Chemistry Congress (Helsinki, Finland :
3-9.7.74)

XVIth International Conference on Coordination Chemistry (Dublin,
Ireland : 19-24.8.74)

IIInd Symposium of Inorganic Phosphorus Compounds (Prague, Czechoslovakia :
September 1974)

TENTATIVE NOMENCLATURE RECOMMENDATIONS AND OTHER REPORTS
APPROVED FOR PUBLICATION BY CORRESPONDENCE THROUGH
EXECUTIVE COMMITTEE SINCE ITS LXXIIIrd MEETING

Tentative Nomenclature Recommendations

- No.22 - Nomenclature of Multiple Forms of Enzymes (IUPAC-IUB Commission on Biochemical Nomenclature)
- No.23 - Symbols for Amino-Acid Derivatives and Peptides (IUPAC-IUB Commission on Biochemical Nomenclature)
- No.24 - Recommended Names and Symbols for Light and Related Electromagnetic Radiation (Commission on Physicochemical Symbols, Terminology, and Units)
- No.25 - Recommendations on Nomenclature for Nuclear Chemistry (Commission on Analytical Radiochemistry and Nuclear Materials)

Reports

Tables of Wavenumbers for Calibration of Infrared Spectrometers - III and IV (Commission on Molecular Structure and Spectroscopy)

Study on Purification of Chemicals for Trace Analysis (Commission on Microchemical Techniques and Trace Analysis)