

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF LXVIIth MEETING OF EXECUTIVE COMMITTEE

HELD AT IUPAC SECRETARIAT, OXFORD

ON

SATURDAY - SUNDAY, 7-8th FEBRUARY, 1970 at 9.00

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)
Prof. W. Klyne	- IUPAC-IUB Liaison Committee (in part)
Prof. R. Truhaut	- Chairman of Co-ordinating Committee for Analytical Methods (in part)
Prof. O. Wichterle	- President of Macromolecular Division (in part)
Dr. M. Williams	- Executive Secretary
Mr. R. J. M. Ratcliffe	- Assistant Secretary

A G E N D A

1. Finalization of Agenda
2. Minutes of LXVth and LXVIth Executive Committee Meetings and Matters Arising
3. Minutes of XXIIIrd, XXIVth and XXVth Bureau, XXVth Council, Division Presidents (6.7.69.) and Finance Committee (6.2.70.) Meetings
4. Budget for 1970
5. Sponsorship, Subvention, and Representation
6. Continuation of Contingency Fund for Divisions
7. Arrangements for XXVIth (1971) and XXVIIth (1973) IUPAC Conferences
8. Incorporation of IUPAC in Canton of Zürich
9. Review of Location of Secretariat
10. Documentation distributed to Executive Committee and Bureau
11. Matters Outstanding from XXIVth Council Meeting
12. Enquiries from Potential National Adhering Organizations
13. Certificates for Retiring Members of IUPAC Units
14. Observers on IUPAC Units
15. Status of Task Forces and Working Groups
16. IUPAC Unit on Co-ordination Chemistry
17. Proposals from Analytical Chemistry Division
18. IUPAC-IUB Liaison Committee
19. Composition of Co-ordinating Committee
20. Composition of Inter-Divisional Committee on Nomenclature and Symbols
21. Co-operation between Section VI.7 and FAO
22. Federation of European Chemical Societies
23. Collaboration with International Association on Water Pollution Research
24. New Contract with European Community
25. Liaison with Associated Organizations, other International Unions, and ICSU
26. IUPAC Representatives on other Organizations
27. Publications arising from Thermodynamic Tables Project Centre
28. Exchange Agreements re. Pure and Applied Chemistry Journal
29. 1970 Contract with UNESCO
30. Standing Type from Information Bulletin
31. Review of IUPAC Policies on Applied Chemistry
32. Date of XXVIth Bureau Meeting

33. Any Other Business:

- (i) Klemm Report
- (ii) New Edition of "Nomenclature of Inorganic Chemistry"
- (iii) Addresses Reprint from "Comptes Rendus XXV Conference"
- (iv) IUPAC Unit on Mass Spectrometry
- (v) IUPAC Material distributed to Company Associates
- (vi) Monographs on Surface Coatings
- (vii) International Laboratory for Analytical Chemistry
- (viii) Interpretation of By-law 4.1311
- (ix) Decisions taken at Xth Meeting of ICSU Executive Committee
- (x) Nominations for New Members of IUPAC Units
- (xi) Publications

I N D E X

<u>Minute No.</u>		<u>Page</u>
480	Introduction	1
481	Finalization of Agenda	1
482	Minutes of LXVth and LXVIth Executive Committee Meetings and Matters Arising	1
483	Minutes of XXIIIrd, XXIVth and XXVth Bureau, XXVth Council, Division Presidents (6.7.69) and Finance Committee (6.2.70) Meetings	1
484	Budget for 1970	2
485	Sponsorship, Subvention, and Representation	3
486	Continuation of Contingency Fund for Divisions	4
487	Arrangements for XXVIth (1971) and XXVIIth (1973) IUPAC Conferences	4
488	Incorporation of IUPAC in Canton of Zürich	5
489	Review of Location of Secretariat	5
490	Documentation distributed to Executive Committee and Bureau	6
491	Matters Outstanding from XXIVth Council Meeting	6
492	Enquiries from Potential National Adhering Organizations	6
493	Certificates for Retiring Members of IUPAC Units	7
494	Observers on IUPAC Units	7
495	Status of Task Forces and Working Groups	7
496	IUPAC Unit on Co-ordination Chemistry	8
497	Proposals from Analytical Chemistry Division	8
498	IUPAC-IUB Liaison Committee	8
499	Composition of Co-ordinating Committee	9
500	Composition of Inter-Divisional Committee on Nomenclature and Symbols	9
501	Co-operation between Section VI.7 and FAO	9

502	Federation of European Chemical Societies	9
503	Collaboration with International Association on Water Pollution Research	10
504	New Contract with European Community	10
505	Liaison with Associated Organizations, other International Unions and ICSU	10
506	IUPAC Representatives on Other Organizations	11
507	Publications Arising from Thermodynamic Tables Project Centre	11
508	Exchange Agreements re. Pure and Applied Chemistry	12
509	1970 Contract with UNESCO	12
510	Standing Type from Information Bulletin	12
511	Review of IUPAC Policies on Applied Chemistry	12
512	Date of XXVIth Bureau Meeting	13
513	Klemm Report	14
514	New Edition of "Nomenclature of Inorganic Chemistry"	14
515	Addresses reprint from "Comptes Rendus XXV Conference"	14
516	IUPAC Unit on Mass Spectrometry	15
517	IUPAC Material Distributed to Company Associates	15
518	Monographs on Surface Coatings	15
519	International Laboratory for Analytical Chemistry	15
520	Interpretation of By-law 4.1311	15
521	Decisions taken at Xth Meeting of ICSU Executive Committee	16
522	Nominations for New Members of IUPAC Units	16
523	Publications	16

Minute 480

INTRODUCTION

Dr. Rees referred with regret to the deaths of three current Members of IUPAC Units: Prof. F. Weygand (Bureau), Prof. V. A. Kargin (Macromolecular Division Committee), Dr. W. E. Cohen (Section VI.7). The Executive Secretary was requested to convey the Committee's greetings to Prof. W. Klemm and its best wishes for his recovery from illness. Finally, the award of a Nobel Prize to Prof. D. H. R. Barton, President of the Organic Chemistry Division, was noted with pleasure.

Minute 481

FINALIZATION OF AGENDA

Appropriate persons had been invited to participate in the discussion of some agenda items and it was agreed to take these first. Dr. Rees proposed that items of a similar nature - finance, publications - be grouped and discussed together.

Minute 482

MINUTES OF LXVth AND LXVith EXECUTIVE COMMITTEE MEETINGS AND MATTERS ARISING

Minute 475, LXVI/EC - It was agreed to delete from the resolution the wording "as official IUPAC Banker."

It was Resolved:

that subject to the amendment detailed above,
the Minutes of the LXVth and LXVith Meetings
of the Executive Committee be approved.

There were no matters arising from the two sets of minutes which were not included for consideration elsewhere on the agenda.

Minute 483

MINUTES OF XXIIIrd, XXIVth AND XXVth BUREAU, XXVth COUNCIL, DIVISION PRESIDENTS (6.7.69) AND FINANCE COMMITTEE (6.2.70) MEETINGS

In accordance with Minute 39, XXIII/B, the Executive Secretary had prepared for signature by the Secretary General, letters to WHO and FAO re. therapeutic chemistry. It was not clear if the letters had been mailed and the Secretary General was requested to report back on the matter. No minutes were yet available from the Finance Committee meeting of 6.2.70., but its Chairman, Mr. P. M. Arnold, reported on the following matters:

/Cont'd.

- (i) Handling of Investments - At 31.12.69 the book value of IUPAC's securities was \$194,000 (market value \$302,000). Some changes in the holdings of bullion and shares recommended by the Finance Committee, already approved by the Treasurer, were ratified by the Executive Committee. The Executive Secretary was asked to circulate copies of IUPAC's holdings of securities to the Executive Committee.
- (ii) Dues Structure for National Adhering Organizations - A revised proposal was to be worked out by correspondence through the Finance Committee and submitted for consideration at the Bureau meeting in the Autumn. It was hoped that the proposal would not necessitate any changes to the Statutes.

W. J. ...
3.10.70

Minute 484

BUDGET FOR 1970

After dealing briefly with the various sections of the revised budget for 1970, the Treasurer recommended that only \$500 be scheduled for special travel and subsistence of each of the Officers and the Past-President. This was accepted, with the addition of a contingency fund of \$3,000 for their possible use (including administration). The Executive Secretary mentioned that the budget needed further revision under Income to allow for extra Company Associates already recruited, and under Expenditure for a meeting of the IUPAC-IUB Liaison Committee and for transfer of IUPAC archives from Paris to Oxford. It was agreed that IUPAC should pay compulsory dues of \$100 for 1970 and voluntary dues of \$100 for 1969 to the ICSU Abstracting Board.

It was not essential to convene a meeting of the Bureau each year (Statute 7.1) and, in view of the exceptionally high expenditure anticipated for the XXVth IUPAC Conference in 1971 (Washington, DC), Prof. Lecomte suggested that the Bureau should not meet in 1970. The need to maintain the activity and interest of the Bureau was emphasised, however, and it was decided not to accept this suggestion.

A meeting of the Division Presidents was scheduled for 15.5.70. at the IUPAC Secretariat, but there appeared to be no specially urgent matters for their consideration. The Executive Secretary was requested to enquire if the Division Presidents could postpone their meeting until immediately before the Bureau assembled in the Autumn.

It was Resolved:

that the revised budget be approved, but
that additional items or changes from the
budget approved at the XXVth Council Meeting
be clearly marked (see Appendix A).

The Executive Secretary drew attention to the suggestion of Sir Harold Thompson (Minute 33, XXII/B) that an annual IUPAC balance sheet be made available for the information of the Bureau. Prof. Bailar indicated that the 1969 balance sheet was now in his hands and could be distributed to the Executive Committee with the minutes of the present meeting.

The Assistant Secretary had submitted a proposal based on "official tours" for reducing travel and subsistence expenses of IUPAC meetings. The proposal was approved, in principle, by the Executive Committee and the Secretariat instructed to apply it when possible.

Minute 485

SPONSORSHIP, SUBVENTION, AND REPRESENTATION

The Executive Committee endorsed the designation by Prof. D. H. R. Barton of Prof. H. Zollinger as official representative of the Organic Chemistry Division at the Symposium on Chemistry of Nonbenzenoid Aromatic Compounds (Sendai, August 1970). Also, it approved the request of Prof. Kondratiev that Dr. Morf be appointed the official IUPAC representative to the VIIth International Symposium on Chemistry of Natural Products (Riga, 21st-27th June 1970).

Sponsorship of the following symposium had been approved by correspondence through the Executive Committee since the XXVth Meeting of the Bureau:

XXVIth Annual Calorimetry Conference (USA, July 1971).

Sponsorship and/or subvention to the following meetings was considered by the Executive Committee.

Vth Carbohydrates (Paris, 17th-22nd August 1970). Subvention of \$1,000 granted.

IIInd Organic Solid-State Chemistry (Rehovot, 13-18th September 1970). Subvention of \$1,000 granted.

IIIrd Crystal Growth (Marseilles, 5-9th July 1971). Subvention of \$500 granted.

IIIrd SAC Conference (Durham, 12-16th July 1971). Supported by Analytical Chemistry Division; Editorial Board wished to publish 4 main lectures; sponsorship approved, but the need of 2 of these lecturers to be at the XXVIth IUPAC Conference to be drawn to the attention of organizers.

Vth Organometallic Chemistry (Moscow, 16th-22nd August 1971). Supported by Inorganic and Organic Chemistry Divisions; Editorial Board wished to publish main lectures (ca.11); sponsorship approved, without subvention.

Chemical Education (São Paulo, September 1971). Supported by Committee on Teaching of Chemistry; Editorial Board wished to publish 6 main lectures; sponsorship approved.

IIIrd Carotenoids (Cluj, 4-7th June 1972). Supported by Organic Chemistry Division; Editorial Board wished to publish 6 main lectures; sponsorship approved. Subvention of \$2,500 granted.

On the recommendation of Prof. Bénard and Sir Harold Thompson, the Executive Committee agreed to raise for consideration at the next meeting of the Bureau as a possible future general policy of IUPAC, to grant subvention to symposia dealing with new subject areas in preference to repetitive meetings on well established topics.

The Executive Secretary drew attention to two resolutions ((ii) and (iii)) submitted directly to Council by the Finance Committee at Cortina d'Ampezzo (Minute 8, XXV/C) and asked for guidance on how to implement them. The Executive Committee accepted the philosophy of these resolutions and would consider incorporating them into a wider document on organization of symposia. A draft summary of the resolutions would be prepared by the Executive Secretary, for consideration of mailing to symposia organizers with the Advance Information Questionnaire.

Minute 486

CONTINUATION OF CONTINGENCY FUND FOR DIVISIONS

After reviewing the uses made of the Divisional Contingency Funds in 1969, it was Resolved:

that a contingency item of \$2,000 be included
in the annual budget for each Division in 1970.

Minute 487

ARRANGEMENTS FOR XXVIth (1971) and XXVIIth (1973) IUPAC CONFERENCES

The Executive Secretary presented a report from the Assistant Secretary on possible travel and accommodation arrangements for the XXVIth Conference. Dr. Morf indicated that he had made no firm arrangements for the XXVIth and XXVIIth Conferences, other than to recommend that Hamburg would be a more convenient venue than Frankfurt for 1973.

The Executive Committee reconfirmed that the Secretariat was responsible for making all arrangements for IUPAC Conferences (Appendix A, item 6, LXII/EC). For the XXVIth Conference, it was decided to confirm the provisional room reservations at the Mayflower Hotel in Washington, DC, but not to proceed with charter flights for European Titular Members. The Secretariat was asked to prepare travel and subsistence budgets based on Washington and on Paris, the difference in totals to be communicated by the Treasurer to the USA National Adhering Organization with the request to try and raise this sum for IUPAC.

A similar schedule of meetings for Washington should be held to that for the Cortina Conference, covering the period 15-24th July 1971, with the following main programme:

Monday, 19th July - Executive Committee
Tuesday, 20th July - Bureau
Wednesday, 21st July - Council
Friday, 23rd July - Council
Saturday, 24th July - Bureau and Executive Committee.

Approval was given for the Assistant Secretary to visit Washington to finalize all necessary details for the Conference. The Executive Secretary was instructed to contact the German National Adhering Organization about dates and venue for the XXVIIIth Conference.

Minute 488

INCORPORATION OF IUPAC IN CANTON OF ZÜRICH

It had been recommended by the Finance Committee that a legal opinion be obtained on conditions needed to ensure the permanent incorporation of IUPAC in the Canton of Zürich, and particularly the position should the Secretary General no longer have his office there. The Executive Committee authorized the Treasurer to initiate an investigation of this matter.

Dr. Morf was instructed to obtain an appropriate document from Finanzdirektion des Kantons Zürich guaranteeing tax exemption for IUPAC.

Minute 489

REVIEW OF LOCATION OF SECRETARIAT

At the Conference in Cortina d'Ampezzo the Finance Committee had suggested that:

- (a) A legal opinion be obtained in England as to IUPAC's tax liabilities in that country, especially in view of the IUPAC Secretariat operating at Oxford.
- (b) A comparison be made of costs of operating the IUPAC Secretariat in Zürich and Oxford.

These suggestions had been endorsed by the Executive Committee and Prof. Bailar reported as follows on his investigations:

- (a) Queen's Counsel advised that in English law IUPAC was regarded under its present arrangements as a foreign association resident abroad. As long as the main funds were kept abroad and the ultimate direction and control of the Secretariat continued to be exercised abroad, no tax liabilities arose from operation of the Secretariat in Oxford.

- (b) A comparison of costs of office rental and of salaries had shown that Oxford was a much cheaper city than was Zürich.

It was Resolved:

that the trial period of operating the IUPAC Secretariat in Oxford having been concluded satisfactorily, the Secretariat remain in Oxford.

Minute 490

DOCUMENTATION DISTRIBUTED TO EXECUTIVE COMMITTEE AND BUREAU

Prof. Lecomte enlarged on his letter of 14.11.69. to Dr. Rees about the extent of documentation circulated for the attention of the Executive Committee and Bureau, suggesting that the Secretariat should merely summarise it to facilitate the reaching of decisions. The Executive Secretary agreed to summarise future material when appropriate, but pointed out that he must take care not to take the decisions out of the hands of the Executive Committee and Bureau. He mentioned some ways - the use of tear-off reply forms and handwritten 'NCR' memos - in which the Secretariat was already tackling this general problem.

Minute 491

MATTERS OUTSTANDING FROM XXIVth COUNCIL MEETING

Because the International Union of Nutritional Sciences had been admitted to full scientific membership of ICSU in 1968, there was now no question of its becoming an Associate Organization of IUPAC. Dr. Morf reported that the negotiations concerning collaboration with Comité des dérivés tensio-actifs (CID) were held up on the side of CID.

Minute 492

ENQUIRIES FROM POTENTIAL NATIONAL ADHERING ORGANIZATIONS

Enquiries had been received from Ghana, Hong Kong, and Singapore, expressing interest in adhering to IUPAC, and the Secretary General had indicated the procedure for making an official application for this status. With regard to Minute 4, XVI/B, Dr. Morf confirmed that it had not proved possible to find a satisfactory National Adhering Organization in Ceylon.

Minute 493

CERTIFICATES FOR RETIRING MEMBERS OF IUPAC UNITS

Prof. P. W. West had suggested that retiring Members of IUPAC Units would perhaps appreciate some permanent recognition of their work and this might take the form of an official certificate. He believed that the display of such certificates in the offices of recipients might stimulate interest in IUPAC.

It was Resolved:

that it is preferable for official letters of thanks for their work to be sent by Division Presidents to retiring Members of IUPAC Units.

Minute 494

OBSERVERS ON IUPAC UNITS

The Executive Secretary interpreted By-law 4.1304 (b) as meaning that Observers had only a transitory status and they should not therefore be listed in the Membership Section of the Comptes Rendus. This view was endorsed by the Executive Committee, who recommended that a permanent observer from one Nomenclature Commission on another be termed "Representative of Commission"

Dr. Rees pointed out that it was incorrect to extend the use of the term "Titular Members" from Commissions (By-law 4.1303) to Sub-Commissions, Sections, Division Committees, and Standing Committees. He agreed to prepare a memorandum on this matter for consideration by the Executive Committee, the Executive Secretary first to compile a list of consequences of this interpretation of the Statutes.

Minute 495

STATUS OF TASK FORCES AND WORKING GROUPS

Several IUPAC Units had "Task Groups," "Working Groups," or "Sub-Committees," none of which terms was mentioned in the Statutes. Not all of their members had any official status in the parent Unit and Prof. S. Sunner (Commission I.2) thought there should be a place for having on record the names of such people. Dr. Rees thought that they should be mentioned in Commission Reports rather than the Membership Section of the Comptes Rendus. Some of the "Task Groups," etc., should also be reconstituted as Sub-Commissions. He promised to consider this matter also in his memorandum on "Titular Members" (see Minute 494).

Minute 496

IUPAC UNIT ON CO-ORDINATION CHEMISTRY

As a result of various correspondence and other contact with the Co-ordination Chemistry Conference and Organometallic Chemistry Conference groups, it appeared that they wished to retain their present independent existence rather than become more closely associated with the Inorganic Chemistry Division of IUPAC. Collaboration might therefore be best achieved if these groups became Associated Organizations of IUPAC.

Minute 497

PROPOSALS FROM ANALYTICAL CHEMISTRY DIVISION

The General Rules of the Analytical Chemistry Division were in process of being revised. Meanwhile, the following proposals had been submitted for consideration by the Executive Committee:

- (a) To increase the Membership of the Division Committee to Eleven Members, the Division Secretary being a non-voting Member, to take effect as from the elections for the 1971 Division Committee.
- (b) In the event of the resignation or death of a Committee Member more than one year before the expiry of his term of office, the Division Executive Committee is empowered to make a temporary appointment tenable until a normal election for the relevant zone has taken place.

The Executive Committee was unable to approve proposal (a); it was not wholly in favour of too exact a geographical distribution of Division Committee Members, preferring the best qualified people to be appointed regardless of country. The philosophy of proposal (b) was endorsed and any such cases should immediately be referred for consideration by the Executive Committee. Dr. Rees recommended that Statute 7.5 be extended to the Officers of Divisions and the ad hoc Committee on Statutes and By-laws be asked for its opinion.

Minute 498

IUPAC-IUB LIAISON COMMITTEE (Prof. W. Klyne in attendance)

Prof. Klyne reported that the Liaison Committee would be meeting in Vienna on 20th-21st February 1970. Joint sponsorship of appropriate future meetings - International Symposia on Chemistry of Natural Products - would be considered and possible joint activity of IUB with such IUPAC Units as its Medicinal Chemistry Section, Chemical Plant Taxonomy Commission, Clinical Chemistry Section. With regard to publications arising from the work of the IUPAC-IUB Commission on Biochemical Nomenclature, there were now no troubles at the IUPAC tentative nomenclature stage. However, in the case of IUPAC final nomenclature rules, the new contract with Messrs. Butterworths would

prevent reprinting of these rules by commercial publishers. This would raise problems for IUB which would be discussed by the Liaison Committee. Meanwhile, the new contract should not be signed by IUPAC.

It had been the intention of IUPAC to nominate a physical chemist interested in biochemical problems as its third representative on the Liaison Committee. Dr. Rees would invite Prof. M. Calvin (USA) to accept the position or to suggest a suitable person.

Minute 499

COMPOSITION OF CO-ORDINATING COMMITTEE

Minute 314, LVII/EC, was reconfirmed, defining the composition of the Co-ordinating Committee on Analytical Methods as Prof. R. Truhaut (Chairman), Lord Todd (Vice-Chairman), Prof. P. W. West (Member), and Dr. R. Morf (ex-officio Member). The addition of further ex-officio Members was defined by Minute 64, XXV/B.

Minute 500

COMPOSITION OF INTER-DIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS

The Chairman of the Clinical Chemistry Section should be invited to nominate its representative on the Inter-Divisional Committee on Nomenclature and Symbols.

Minute 501

CO-OPERATION BETWEEN SECTION VI.7 AND FAO

When drawing up its future programme of work, Section VI.7 had thought that co-operation with FAO would be useful. The Section Chairman, Dr. K. Ward, had subsequently held informal discussions with FAO and a letter from him, recommending that consultative status be sought with FAO, was considered by the Executive Committee. It was strongly felt that the needs of FAO in this subject area should be more clearly defined for consideration by the Executive Committee. The advice of the President of the Applied Chemistry Division would be requested before IUPAC took any further action on the matter.

Minute 502

FEDERATION OF EUROPEAN CHEMICAL SOCIETIES

Revised Statutes had been prepared by a Steering Committee and circulated to chemical societies with an invitation to become a member of the Federation, the inaugural meeting of which would be held in Prague, July 1970. In spite of changes made to the draft Statutes and the intention to apply for Associate Organization status of IUPAC, the Executive Committee still felt apprehensive about this project. Doubts were expressed on the possibility of the Federation continuing its activities for long without annual subscriptions.

Minute 503

COLLABORATION WITH INTERNATIONAL ASSOCIATION ON WATER POLLUTION RESEARCH

The International Association on Water Pollution Research had expressed an interest in closer liaison with IUPAC. Following the advice of Section VI.8 and the President of the Applied Chemistry Division, the Executive Committee agreed to an exchange of technical information between the two bodies and the allocation at the XXVIth Conference of one Associate Membership of the Section to IAWPR.

Minute 504

NEW CONTRACT WITH EUROPEAN COMMUNITY (Prof. R. Truhaut in attendance)

Prof. Truhaut enlarged on a memorandum (in French) dealing with the work of the Co-ordinating Committee on Analytical Methods, of which it was hoped to prepare a translation into English. On 4.12.1967, 43 methods had been sent by IUPAC in fulfilment of the 1967 contract with CE; and on 9.8.1969, 17 methods for the 1968-9 contract. Prof. Truhaut mentioned that Dr. Gallay now seemed in agreement with the extended title "Co-ordinating Committee on Co-operative Programmes," but Dr. Rees ruled that its activities must be confined to the CE contract until the next Bureau meeting.

Confusion over the official acceptance by IUPAC of the 1970 contract with CE was discussed and certain aspects of the contract considered in detail. It was agreed that Dr. Rees should write to CE regretting non-submission of the 1970 contract signed by IUPAC before the end of 1969 and endorsing the informal confirmation of contract made by Prof. Truhaut in January 1970. The suggestion that the 1971 contract be drafted well in advance for proper consideration by IUPAC, was approved. Agreement has now been reached on the actual methods for study in 1970 and the work programme within IUPAC was being initiated.

Prof. Truhaut stressed the need of the Secretariat and himself to have copies of all relevant documentation from the office of the Secretary General. Dr. Rees said that the Secretariat must be used fully in future for all routine work of the Co-ordinating Committee, particularly the printing and distribution of analytical methods. CE should also address its letters to the Secretariat and not directly to the Secretary General and Prof. Truhaut (see Appendix A, item 4, LXII/EC).

Minute 505

LIAISON WITH ASSOCIATED ORGANIZATIONS, OTHER INTERNATIONAL UNIONS, AND ICSU

A memorandum on liaison of IUPAC with its Associated Organizations, other International Unions, and ICSU, submitted by the Executive Secretary was referred for consideration by the ad hoc Committee on Interdisciplinary Matters.

Minute 506

IUPAC REPRESENTATIVES ON OTHER ORGANIZATIONS

Dr. Morf said that there was nothing arising from the Meeting of Council of Europe and CE Experts (Paris, 28-29.11.1969) which required the attention of the Executive Committee.

Prof. W. Klemm's four-year term as IUPAC Representative on CODATA would finish in September 1970. If willing, it was agreed that he should undertake a second term. In connection with the recently constituted CODATA Task Group on Data for Chemical Kinetics, Prof. Kondratiev had suggested (Minute 44, XXIII/B) that IUPAC Commission I.3 should undertake the work on electrochemical kinetics. CODATA should be approached through Prof. Klemm to invite a representative from Commission I.3 to sit on the Task Group. The nomination of Prof. G. A. Schuit by Commission I.6 as a Member of the Task Group was endorsed.

It was thought unnecessary to appoint a representative from IUPAC to the XIVth Assembly of IAU (August 1970).

The attendance of Dr. Morf, the IUPAC representative on COSPAR, at its XIIIth Plenary Meeting (Leningrad, 20-29.5.70) was authorized.

The Executive Secretary was requested to obtain a full report on the GARP Planning Conference (Brussels, 16-21.3.70).

No action by IUPAC appeared to be necessary on the Summary Report of the 1st Meeting of the ICSU Committee on Science Teaching (Paris, 12-13.12.69).

Minute 507

PUBLICATIONS ARISING FROM THERMODYNAMIC TABLES PROJECT CENTRE

Whilst acknowledging that its funds were derived from sources entirely outside of IUPAC, it was noted that the Thermodynamic Tables Project Centre was operating under the auspices and with the prestige of IUPAC. Therefore, the Executive Committee considered that IUPAC had rights to publication of material arising from the Project Centre.

A format had been agreed between Messrs. Butterworths and the Project Centre for producing a full version of tables for each fluid. Sir Harold Thompson proposed that these form a series of official IUPAC supplements to Pure and Applied Chemistry, which was approved by the Executive Committee. When royalties accrued sufficiently, IUPAC would consider if, in this particular case, it could make a financial contribution to the Project Centre.

Minute 508

EXCHANGE AGREEMENTS RE. PURE AND APPLIED CHEMISTRY

A request had been received from the Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, to establish an exchange agreement between Pure and Applied Chemistry and Collection of Czechoslovak Chemical Communications.

It was Resolved:

that since IUPAC had no library there was no basis for establishing exchanges of journals with Pure and Applied Chemistry.

In the case of US Atomic Energy Commission, the Executive Secretary was instructed to terminate the mailing of Nuclear Chemistry Abstracts to IUPAC and advise USAEC to take out a subscription to PAC.

Minute 509

1970 CONTRACT WITH UNESCO

The Executive Committee agreed in principle with the suggested contents of the 1970 contract between IUPAC and UNESCO and awaited the draft contract with interest.

Minute 510

STANDING TYPE FROM INFORMATION BULLETIN

Buchdruckerei Berichthaus Zürich had type standing from a number of past Information Bulletins, etc., and was anxious for instructions on possible further use. The Executive Secretary was requested to look into the matter and take any necessary action.

Minute 511

REVIEW OF IUPAC POLICIES ON APPLIED CHEMISTRY (Profs. R. Truhaut and O. Wichterle in attendance)

A memorandum was considered from Dr. R. W. Cairns, Vice-President of the Applied Chemistry Division, on the general organization of IUPAC and particularly the place of applied chemistry in it. Recent actions seemed to indicate a merging of the applied and basic science fields with new applied chemistry units becoming attached to appropriate pure chemistry Divisions. Thus, the Section of High Polymers and Plastics had been removed from the Applied Chemistry Division and merged with the newly created Macromolecular Division where it subsequently disappeared. Prof. Wichterle said that this was not strictly true: only the inactive part of the work programme of the Section was discontinued in the new Division.

Prof. Wichterle pointed out that the existing Sections of the Applied Chemistry Division were far from fully representative of all the areas of applied chemistry of importance today and a reappraisal was obviously necessary. This view was supported by Prof. Kondratiev. However, if present IUPAC organizational policy was implemented a considerable number of new Sections would result. Sir Harold Thompson wondered if the creation of a Chemical Engineering Division should be considered.

Although there was an urgent need to involve more applied chemists in IUPAC, it was far from clear how IUPAC could be more helpful to the chemical industry. In spite of the Report of the Connor Committee (1964), the International Symposium on Modern Chemistry in Industry (Eastbourne, 1968), and the Meeting of Industrial Members (Cortina d'Ampezzo, 1969), nothing definite had emerged from the various discussions. Dr. Morf suggested that the Research Directors of the Company Associates be invited by Dr. Rees to a well-prepared meeting to discuss the matter, but Sir Harold Thompson was dubious of any success in view of previous failures along these lines. He preferred a circular letter from the President to Company Associates to try and stimulate ideas; a clear account of the present activities of IUPAC should form the introduction to such a letter.

It was Resolved:

to appoint an ad-hoc Committee of 5 persons to consider how the structure and working of IUPAC might be modified to cater for the needs of applied chemistry. Dr. R. W. Cairns should act as Convenor with the other Members drawn from Dr. W. Gallay, Prof. O. Wichterle, Prof. R. Paul, Dr. K. Weissermal, Dr. G. Mazzanti. The provision of reasonable funds by the Treasurer was approved, and the Committee should prepare its report in advance of the next meeting of the Bureau.

Minute 512

DATE OF XXVith BUREAU MEETING

It was confirmed that the next meeting of the Bureau be held in Vienna and the following programme was agreed:

Thursday, 1st October - LXVIIIth Executive Committee
Friday, 2nd October - XXVith Bureau
Saturday, 3rd October - XXVith Bureau.

The LXIXth Meeting of the Executive Committee was suggested for Brussels (or Rome) on either 12-13th or 19-20th February 1971.

/Cont'd.

Minute 513

KLEMM REPORT

The Executive Secretary reported a tremendous demand for reprints of "Report on the Work of IUPAC: 1957-1967" by Prof. Klemm and all 10,000 copies had now been distributed. It was agreed to reprint 2,500 extra copies (£190) and to include with them details of IUPAC publications.

An editorial in Chemistry and Industry had suggested that a revised version of the earlier pamphlet "IUPAC - What it is - What it does - How it works - How it is financed" would be influential in bringing the recognition IUPAC deserved. This suggestion was referred for consideration by the Committee on Publications.

Minute 514

NEW EDITION OF "NOMENCLATURE OF INORGANIC CHEMISTRY"

A Drafting Committee had met recently to finalize the new edition of "Nomenclature of Inorganic Chemistry" and the question arose as to whether there should be a combined English-French version as in the first edition. It was noted that the text of "Nomenclature of Organic Chemistry" was in English only: a translation into French had been produced and sold by Société Chimique de France.

Only English text had been presented to Council when publication of the new edition was approved (Minute 18, XXV/C) so that Statute 5.5 applied. The Executive Committee decided that should no French translation be submitted to the Secretariat with the final text, then the English only version should be published immediately. As a future general policy the Executive Committee would like to encourage comments in languages other than English on tentative nomenclature recommendations for consideration at the final rules stage.

Minute 515

ADDRESSES REPRINT FROM "COMPTES RENDUS XXV CONFERENCE"

Comptes Rendus XXV Conference would be available for distribution shortly. It was decided that later in the year the Secretariat should arrange to reprint the Membership Lists Section with a corrections-additions slip for distribution to the Bureau, Officers of IUPAC Units, and National Adhering Organizations. The need to include an acknowledgement to UNESCO on the front cover of the Comptes Rendus should be checked with ICSU.

Minute 516

IUPAC UNIT ON MASS SPECTROMETRY

Prof. V. L. Tal'rose had now reported on the need for IUPAC to create a Unit on Mass Spectrometry (see Minute 5, XXI/B): the specialist societies in several countries were in favour of such a Unit. A supporting memorandum from Prof. E. Roth was considered. The matter would be referred to the President of the Physical Chemistry Division for his recommendation of action by the Executive Committee.

Minute 517

IUPAC MATERIAL DISTRIBUTED TO COMPANY ASSOCIATES

It was decided not to distribute all supplements to Pure and Applied Chemistry freely to Company Associates, but the Executive Secretary should seek the guidance of the Treasurer as Analytical Methods for Use in Occupational Hygiene, Standard Methods for the Analysis of Oils, Fats and Soaps, etc., became available.

Minute 518

MONOGRAPHS ON SURFACE COATINGS

Section VI.6 was proposing to produce a series of authoritative monographs on progress in surface coatings and this had the backing of the President of the Applied Chemistry Division. Butterworths was interested in the project, which the Executive Committee approved as an official series under the auspices of IUPAC.

Minute 519

INTERNATIONAL LABORATORY FOR ANALYTICAL CHEMISTRY

Prof. Malissa, Chairman of the ad hoc Working Group set up to examine the problem of analytical quality control and the need for an International Laboratory for Analytical Chemistry, had reported the active interest of the Austrian Government in this project. It was agreed that Dr. Rees should remind Prof. Malissa that the Bureau had made no firm commitment on the project and that a report from the Working Group with proposals for consideration by the Bureau was still awaited.

Minute 520

INTERPRETATION OF BY-LAW 4.1311

It was confirmed that By-law 4.1311 also applied to final reports which did not deal with recommendations on nomenclature, symbols and standards.

Publication of the report Constantes sélectionnées. Potentiels d'oxydo-reduction des corps minéraux en solution aqueuse (Commission V.5) had been recommended by the Analytical Chemistry Division Committee. This report constituted a revised version of Vol.8 (1958) of Tables of Constants and Numerical Data and it was not clear who had the right of publication. The Executive Secretary was instructed to check on the legal position before the Executive Committee made its decision.

Minute 521

DECISIONS TAKEN AT Xth MEETING OF ICSU EXECUTIVE COMMITTEE

All Unions adhering to ICSU were asked to adopt the policy of supporting free international collaboration among scientists. The Secretariat should immediately bring to the attention of the Executive Committee any cases of visa refusals or abnormal delays encountered in IUPAC.

Minute 522

NOMINATIONS FOR NEW MEMBERS OF IUPAC UNITS

All nominations of new Members of IUPAC Units endorsed by correspondence since the XXVth Bureau meeting (see Appendix B) were confirmed.

The following further nominations were approved:

Mr. M. J. Brocart (France) and Prof. H. Suomalainen (Finland) as the other two Members of the ad hoc Committee on Statutes and By-laws.

Prof. G. B. Bokki (USSR) - Inter-Divisional Committee on Machine Documentation in the Chemical Field.

Prof. S. Natori (Japan) - Titular Member of Commission III.2 to replace Dr. J. R. Price (resigned).

Prof. G. J. Hoytink (UK) - Titular Member of Commission III.3.

Minute 523

PUBLICATIONS

Information received recently on the XXIIIrd IUPAC Congress (18 symposia) had led Sir Harold Thompson to believe that some 3600 printed pages of material might arise. This matter was referred to the Committee on Publications for a recommendation on publication. The Committee on Publications would need to meet in advance of the next Bureau meeting in order to make recommendations on an international paper size for all IUPAC publications and on the future content and purpose of the Information Bulletin.

The proposal of the Executive Secretary that the price of Comptes Rendus XXV Conference be fixed at \$5.00 (£2) and of the Information Bulletin 1970 (3 issues) at \$2.50 (£1) was accepted by the Executive Committee.


A progress report on Evaluation of Active Dry Baker's Yeast had not been accepted for inclusion in Pure and Applied Chemistry. Section VI.2 believed that the report was unsuitable for the Information Bulletin and the Executive Committee approved its publication outside of IUPAC.

VOTES OF THANKS

The Executive Committee expressed its thanks to Prof. Truhaut for his great efforts for IUPAC on matters of the environment, to the Finance Committee for its expert guidance on financial matters, and to the Secretariat for the efficient arrangements for the meeting.

The Meeting closed at 15.15.

CHAIRMAN:


.....

DATE:

3.10.70
.....

1



2

APPENDIX A

I U P A C B U D G E T

1 9 7 0

Items marked * are additions to or changes from
the budget approved at the XXVth Council Meeting
(Cortina d'Ampezzo, 5th and 7th July 1969)

IUPAC INCOME BUDGET: 1970

	<u>§</u>
*Dues from National Adhering Organizations	98,450
*Dues from Company Associates (218 units)	51,775 ^ø
Subvention from ICSU	14,000
*Royalties from Butterworths	12,000
Interest and Dividends Earned	10,000
*Special Grant from ICSU for Symposia Subvention	4,000
Contribution from Deutscher Zentrallausschuss für Chemie for Symposia Subvention	4,000
*Contract with CE (200,000 B.Fr.)	4,017
*Contract with UNESCO	3,000
<hr/>	
TOTAL INCOME	201,242
TOTAL EXPENDITURE	233,379
<hr/>	
Excess of Expenditure over Income	32,137
<hr/>	

^ø 5% already deducted for use by NAO in promoting
Company Associates Plan.

IUPAC EXPENDITURE BUDGET: 1970

	<u>§</u>
*Standing Committees	23,621
*Physical Chemistry Division	11,954
*Inorganic Chemistry Division	4,178
*Organic Chemistry Division	17,700
*Macromolecular Division	8,336
*Analytical Chemistry Division	9,422
*Applied Chemistry Division	25,892
*Clinical Chemistry Section	3,956
*General Expenses	128,320
<hr/>	
TOTAL	233,379
<hr/>	

STANDING COMMITTEES

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
*Bureau/Executive Committee/Division Presidents (Vienna, 1st-3rd Oct.)	23(+1)	9,239	1,920	
*Executive Committee (Oxford, 7-8th Feb.)	8(+4)	2,949	640	
*Division Presidents (Oxford, 15-16th May)	6(+1)	1,522	480	
*Finance Committee (Zürich, 6th Feb.)	5(+3)	1,105	280	
*Committee on Teaching of Chemistry (Colorado, 20th July)	9	5,594	500	25
*IUPAC-IUB Liaison Committee (Vienna, 20th-21st Feb.)	2	246	120	
*IUPAC-IUB Biochemical Nomenclature Commission (Helsinki, 1-4th July)	5	2,938	540	
*Co-ordinating Committee for Analytical Methods (Miscellaneous travel)		500		
*Publications Committee (Oxford, 1 day)	7	703	220	
		<u>24,796</u>	<u>4,700</u>	<u>25</u>
Less 20% ^ø		4,960	940	
		<u>19,836</u>	<u>3,760</u>	

^ø89% Titular Members attended XXV IUPAC Conference, & 9% made no claim for expenses
(e.g. French and USSR NAO paid expenses).

PHYSICAL CHEMISTRY DIVISION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund				2000
Division Committee		NO MEETING		100
*I.1: Physicochemical Symbols, Terminology, and Units				100
i) Chairmen & Secretaries of I.1, I.3, V.3 & V.5 (Oxford, 24-25th March)	8	1,715	540	
ii) Joint Meeting with I.5 (USA? 2 days)	6	1,679	400	
I.2 Thermodynamics and Thermochemistry		NO MEETING		
*I.3 Electrochemistry (Paris, 6-7th July)	8	2,536	520	25
*I.4 Physicochemical Measurements and Standards - Task Group on Standard Calibration Substances (Ludwigshafen, 16-18th June)		1,000		
*I.5 Molecular Structure and Spectroscopy (at Gordon or EUCHEM Conference)		NO SUBVENTION		25
*I.6 Colloid and Surface Chemistry (Bristol, Sept., 3 days)	9	2,929	780	25
		<hr/>	<hr/>	<hr/>
		9,859	2,240	2,275
		1,972	448	<hr/>
		<hr/>	<hr/>	
		7,887	1,792	
		<hr/>	<hr/>	
Less 20%				

INORGANIC CHEMISTRY DIVISION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund				2,000
*Division Committee (Göttingen, 19th June)	3	227	100	50
*II.1: Atomic Weights		NO MEETING		100
*II.2: Nomenclature of Inorganic Chemistry - Drafting Committee for Red Book (Pittsburgh & Columbus, 26-31st January) ^ø	6		240	100
*II.3: High Temperatures and Refractories (Karlsruhe, 24th April)	6	1,552	260	25
		<hr/> 1,779	<hr/> 600	<hr/> 2,275
		356	120	
		<hr/> 1,423	<hr/> 480	

Less 20%

(14)

^ø National Research Council (USA) to pay travel and \$20 per day subsistence for 8 days.

ORGANIC CHEMISTRY DIVISION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund				2,000
*Division Committee (Munich, 12-13th Sept.)	10	4,128	680	100
*III.1: Nomenclature of Organic Chemistry (Arnhem, 29th Aug.-5th Sept.)	9	1,623	1,480	50
*III.2: Chemical Plant Taxonomy (Copenhagen, 11-12th June)	8	3,091	540	25
*III.3: Organic Photochemistry (St. Moritz, July, 2 days)	8	3,822	540	25
*III.4: Medicinal Chemistry (Zürich, 13-15th Feb.)	7	2,928	480	50
		<hr/>	<hr/>	<hr/>
		15,592	3,720	2,250
		3,118	744	
		<hr/>	<hr/>	<hr/>
		12,474	2,976	
		<hr/>	<hr/>	

Less 20%

MACROMOLECULAR DIVISION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund				2,000
* Division Committee (Delft, Sept., 2 days)	11	2,591	700	250
* IV.1: Macromolecular Nomenclature (Naples, 6-9th July)	8	3,445	840	25
		<hr/>	<hr/>	<hr/>
		6,036	1,540	2,275
		1,207	308	<hr/>
		<hr/>	<hr/>	
		4,829	1,232	
		<hr/>	<hr/>	

Less 20%

ANALYTICAL CHEMISTRY DIVISION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund				2,000
* Division Committee - Executive Division Committee (Graz, Sept., 3 days)	5	1,294	380	200
V.1: Analytical Reactions and Reagents		NO MEETING		150
* V.2: Microchemical Techniques and Trace Analysis (Graz, 7th Sept.)	8	1,765	340	25
* V.3: Analytical Nomenclature (London, Nov., 1 day)	6	400	240	25
* V.4: Spectrochemical and Other Optical Procedures for Analyses Dortmund, Aug., 3 days)	8	1,854	660	50
* V.5: Electroanalytical Chemistry - Chairman and Secretary jointly with I.3. (Paris, 6-7th July)	2	1,134	160	25
V.6: Equilibrium Data (Cracow, Sept.)		NO SUBVENTION		100
* V.7: Analytical Radiochemistry		NO MEETING		25
* Division Nominations/Elections Committee (USA, 1 day)	3	300		
		<hr/> 6,747	<hr/> 1,780	<hr/> 2,600
		<hr/> 1,349	<hr/> 356	<hr/>
		<hr/> 5,398	<hr/> 1,424	

Less 20%

APPLIED CHEMISTRY DIVISION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
Contingency Fund				2,000
*Division Committee (Ottawa or Paris, Spring, 2 days)	8	3,204	530	200
*VI.1: Food (Netherlands, 14-16th Sept.)	15	4,534	1,280	50
*VI.2: Fermentation Industries (Mexico, 5-6th August)	8	3,235	540	200
*VI.3: Oils and Fats (Stockholm, 3-4th Sept.)	8	2,112	500	200
*VI.4: Toxicology and Industrial Hygiene		NO MEETING		25
*VI.5: Pesticides (Ingelheim, 14-18th Sept.)	10	4,326	1,300	25
*VI.6: Organic Coatings (Copenhagen, 2 days)	8	1,452	480	50
*VI.7: Pulp, Paper and Board (Stockholm, Nov., 2 days)	8	2,457	520	50
*VI.8: Water, Sewage and Industrial Wastes	7			
i) London, 5th Feb.		813	280	
ii) Stockholm, Nov., 1 day		1,030	240	25
		<hr/>	<hr/>	<hr/>
		23,163	5,670	2,825
		4,632	1,134	
		<hr/>	<hr/>	<hr/>
		18,531	4,536	
		<hr/>	<hr/>	

Less 20%

(x)

CLINICAL CHEMISTRY SECTION

	<u>TITULAR MEMBERS</u>	<u>TRAVEL</u>	<u>SUBSISTENCE</u>	<u>ADMIN.</u>
*Section Committee - Officers only (Stresa, 19th-21st April)	2	571	180	200
*Commission on Automation (Stresa, 19th-21st April)	5	1,102	420	50
*Commission on Quantities and Units (Stresa, 19th-21st April)	4	1,046	340	50
*Commission on Teaching (Stresa, 19th-21st April)	3	939	260	100
		<hr/>	<hr/>	<hr/>
		3,658	1,200	400
Less Double Accounting		253	160	<hr/>
		<hr/>	<hr/>	
		3,405	1,040	
Less 20%		681	208	
		<hr/>	<hr/>	
		2,724	832	
		<hr/>	<hr/>	

GENERAL EXPENSES

	<u>TRAVEL AND SUBSISTENCE</u>	<u>ADMIN.</u>
*President	500	
Past-President	500	
Vice-President	500	
*Secretary General	500	
*Treasurer	500	
*Contingency Fund for Officers	3,000	
Office of Secretary General:		
Typists (4524)		
Rent (1690)		
Operations:		
(i) Electricity & water (38)		
(ii) Telephone & telegrams (995)		
(iii) Postage (741)		
(iv) Stationery (926)		
(v) Printing (116)		
(vi) Photocopying (1083)		
(vii) Cleaning (278)		
(viii) Accident insurance (82)		
(ix) Bus fares to Post Office (41)		
Storage of archives by Kuoni (110)		
Miscellaneous expenses (116)		
Railway season-ticket (412)		
Commuting from Basle to Zurich airport (Dr. Morf-440)	852	10,740

IUPAC Secretariat:

*Executive & Assistant Secretaries (25,017)

*Typists (7533)

*Rent (3240)

*Rates (local tax - 1289)

Operations:

*(i) Electricity (554)

*(ii) Telephone (1010)

*(iii) Postage & telegrams (4039)

*(iv) Stationery (1996)

*(v) Printing (1370)

*(vi) Photocopying (3243)

*(vii) Cleaning (403)

*Furniture, radiators, partitioning, machines (2890)

*Travel and subsistence (1029)

*Miscellaneous expenses (6576)

1,029

59,160

Co-operation with UN and other agencies (FAO, WHO, UNESCO,
IAEA, CE)

6,000

*Scientific Editors

1,500

*Comptes Rendus XXV, Address List 1969/71, Information
Bulletin, Tentative Nomenclature Appendices

15,139

Contribution to ICSU (2%)

2,000

*Accounting (Schweizerische Bankgesellschaft)

4,800

Chartered Auditors

2,700

*Transfer of IUPAC archives from Paris to Oxford

400

*ICSU Abstracting Board

200

Subvention to Symposia:

- *VIIth Natural Products (4,000)
- *Non-aqueous Electrochemistry (800) ^ø
- *Cycloaddition (4,000)
- XIIIth ICCG (2,000)
- *Waste Water (4,000)
- Bonn Pesticides (1,500)
- *Vth Carbohydrates (1,000)
- *IIInd Organic Solid-state (1,000)

	18,300
<hr/>	<hr/>
7,381	120,939
<hr/>	<hr/>

^ø\$200 already paid in 1969.

APPENDIX B

NEW MEMBERS OF IUPAC UNITS
ENDORSED BY CORRESPONDENCE
SINCE XXVth BUREAU MEETING

Commission I.2

Associate Member - Prof. R. Vilcu instead of
Dr. I. G. Murgulescu (Romania)

Commission I.5

Associate Member - Dr. G. Herzberg (Canada)

Division II Committee

Titular Member - Prof. N. N. Greenwood (UK)

Commission II.3

Associate Member - Prof. H. Nowotny (Austria)

Section III.4

Titular Member - Dr. A. I. Rachlin (Secretary)
instead of Dr. L. Sternbach (USA)

Associate Members - Prof. J. A. Gautier (France)
Dr. M. Protiva (Czechoslovakia)
Dr. L. Sternbach (USA)
Prof. T. Urbanski (Poland)

Commission V.2

Titular Member - Prof. K. L. Cheng (USA)

Commission V.5

Associate Member - Prof. H. Laitinen (USA)

Section VI.1

Titular Member - Prof. K. Kojima (Japan)

Commission VI.1.2

Associate Member - Dr. A. Edhborg (Sweden)

Section VI.5

Titular Member - Dr. K. Fukunaga (Japan)

Section VI.7

Associate Member - Dr. R. Bhargava (India)

Second Period of 4 years - Commission V.2

Titular Member - Prof. W. Koch (Germany)

Extension after 8 years Membership - Commission V.3

Titular Member - Prof. E. B. Sandell (USA)

Commission I.3

Associate Member - Prof. V. S. Bagotzky (USSR)

Further Period of 2 years - Section VI.7

Titular Member - Prof. Z. A. Rogovin (USSR)