

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 33rd BUREAU MEETING

HELD AT FONDATION UNIVERSITAIRE, BRUSSELS

ON

SATURDAY - SUNDAY, 31 AUGUST - 1 SEPTEMBER 1974, at 9.00

PRESENT:

Prof. Sir Harold Thompson	- President, in the Chair
Dr. R. W. Cairns	- Vice-President
Dr. W. Gallay	- Secretary General
Prof. O. Horn	- Treasurer
Mr. P. M. Arnold)
Prof. Sir Derek Barton)
Prof. A. R. H. Cole)
Prof. N. M. Emanuel)
Prof. O. Glemser)
Prof. V. Herout) Elected Members
Dr. O. Isler)
Prof. S. Rangaswami)
Prof. S. Shibata)
Prof. G. Smets)
Prof. H. Suomalainen)
Prof. G. Ourisson)
Dr. D. B. Tonks) Ex-officio Members
Prof. R. Truhaut)
Dr. R. N. Jones)
Prof. V. Gutmann)
Prof. A. Kjaer)
Prof. H. Benoît) Division Presidents
Prof. N. Tanaka)
Dr. H. Egan)

ABSENT:

Prof. J. Bénard	- Past-President
Prof. E. D. Bergmann	- Elected Member

IN ATTENDANCE:

Dr. J. W. Barrett	- International Company Associates Group Convenor and Official Representative of IUPAC to ICSU Abstracting Board (in part)
Dr. M. Williams	- Executive Secretary

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Minute 1/74

INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

In his opening remarks the President said that he had sent a letter of good wishes to Prof. Bénard, who was recovering from a recent operation and unable to be present. He would also be writing to Prof. Bergmann, who was recovering from protracted illness.

Sir Harold Thompson reported that he had invited Dr. J. W. Barrett to speak briefly to the Bureau about the Company Associates Scheme and the ICSU Abstracting Board. There was one Agenda item extra to the listing in the file for the meeting:

17.4 Macromolecular Division Working Party Report

Minute 2/74

MINUTES OF XXXI - XXXII MEETINGS OF BUREAU

2.1/74 Amendments and Approval of Minutes

The Minutes of the XXXI and XXXII Meetings of the Bureau were approved.

2.2/74 Matters Arising from Minutes

2.2.1/74 International Office for Analytical Chemistry (Minute 12/73, XXXI/B)

Prof. Suomalainen reported that, unfortunately, it was now clear Finland was unable to meet the major costs arising from location of an International Office for Analytical Chemistry in that country.

2.2.2/74 Memberships of Sections and Commissions of Applied Chemistry Division
(Minute 17/73, page 2, XXXII/B)

Dr. Egan said that this matter would be dealt with in conjunction with his Division Report to the Bureau (see Minute 7/74, page 6).

2.2.3/74 Proposal for IUPAC Body on Nuclear and Radiochemistry (Minute 18/73, XXXII/B)

Following consultations with the President of the Inorganic Chemistry Division and Prof. S. Amiel, Sir Harold Thompson had approved the following composition for the ad hoc Committee on Nuclear and Radiochemistry:

Prof. S. Amiel (Israel) - Chairman and Convenor
Prof. F. Baumgärtner (Federal Republic of Germany)
Prof. A. C. Pappas (Norway)
Prof. F. S. Rowland (USA)
Prof. L. Yaffe (Canada)

The composition was ratified by the Bureau, which hoped to receive the report of the ad hoc Committee at its next meeting.

2.2.4/74 Ad hoc Interdivisional Working Party on Data Flagging (Minute 4.6/73, page 5, XXXI/B)

A letter from Prof. D. N. Hume (74.7.25), detailing progress in formation of the ad hoc Interdivisional Working Party, was noted.

Minute 3/74

MINUTES OF LXXVI - LXXX MEETINGS OF EXECUTIVE COMMITTEE AND MATTERS ARISING

The Minutes of the LXXVI - LXXX meetings of the Executive Committee were recorded as having been received officially by the Bureau.

3.1/74 Approval of New Members of IUPAC Bodies (Minute 3.1/74, LXXX/EC)

Prof. Herout regretted that, for internal reasons in Czechoslovakia, it had not been possible for the National Committee of Chemistry to endorse the nomination of Dr. J. Čermák as a Member of the Sub-Commission on Mass Spectroscopy.

3.2/74 Elements 104 and 105 (Minute 3.2.1/74, LXXX/EC)

The President reported that IUPAP had agreed to join IUPAC in setting up a neutral group of experts to consider the claims of priority of discovery of elements 104 and 105. The following proposals for composition of the neutral group were approved by the Bureau:

- (i) from USA - Dr. E. K. Hyde (Berkeley), Dr. D. C. Hoffman (Los Alamos), Dr. O. L. Keller (Oak Ridge);
- (ii) from USSR - Prof. V. I. Goldanskii (Moscow), Prof. S. P. Kapitza (Moscow), Acad. B. M. Kedrov (Moscow);
- (iii) from other countries - Prof. A. Baumgartner (Basel), Prof. U. Stille (Braunschweig), Prof. J. Lewis (Cambridge) - Chairman.

It was envisaged that the laboratories at Berkeley (USA) and Dubna (USSR) would first exchange representatives and in their presence repeat the experiments regarding the elements in question. Further consideration could then follow by correspondence within the neutral group. Hopefully, the group would present a definite recommendation for the names of elements 104 and 105 at the 1975 IUPAC Conference.

At the 1973 IUPAC Conference, the Commission on Nomenclature of Inorganic Chemistry had recommended a system of names based on atomic numbers for elements of atomic number greater than 105. The motivation behind that proposal was to meet the need, especially for use in describing theoretical studies and predictions and for indexing purposes, prior to the discovery of these elements. However, the proposal had not been accepted by the Bureau (Minute 13/73, XXXI/B). After reconsidering the matter at its 1974 meeting, the Commission had reconfirmed the proposal made in 1973. Chemical Abstracts Service, amongst other bodies, had expressed a desire to use the suggested system of names.

Sir Harold Thompson noted that the proposal was not intended to deny the right of discoverers of new elements to suggest names for them, nor to supply alternative names for elements whose discovery had already been announced. He would, therefore, now be agreeable to publication of the proposal in the Information Bulletin to test the reaction of the international chemical community. Prof. Ourisson strongly supported the concern of Sir Derek Barton why synthesizers - not discoverers - of elements of defined atomic number should have the privilege of assigning to them trivial names. That privilege did not extend to compounds of known structure obtained by synthesis. Sir Derek Barton was invited to present his views in a letter, which could be circulated with the proposal of the Commission on Nomenclature of Inorganic Chemistry to the Bureau for comment in writing prior to the 1975 IUPAC Conference. It might then be possible for the Bureau to make a definite recommendation to Council on the matter.

3.3/74 Open Letter on Proliferation of Commercial Journals in Chemistry
(Minute 17/74, LXXX/EC)

At the suggestion of the Executive Committee, Sir Harold Thompson had drafted a letter on the matter. In his view the power to limit proliferation of journals lay in the hands of scientists themselves. Subject to necessary updating, the draft was approved by the Bureau, with the recommendation that the letter be published in Pure and Applied Chemistry and in the Information Bulletin and be circulated for consideration of publication in national chemistry news journals.

3.4/74 Involvement of Younger Chemists in IUPAC Activities (Minute 21/74, LXXX/EC)

Following preliminary discussion by the Executive Committee earlier in the year, the President had succeeded in obtaining a grant of £3,000 per annum from the Wates Foundation for three years, to finance the attendance from UK of some younger chemists (30-40 age group) at meetings of IUPAC bodies, on the understanding that one or more other countries would act in some similar way. Sir Harold Thompson expressed the hope that other large countries, like France, Federal Republic of Germany, and USA, would be able to solicit similar funds for an experimental period of three years, following the 1975 IUPAC Conference. He was invited by the Bureau to bring forward at its next meeting definite proposals for operating the scheme. There was support for the suggestion of Prof. Ourisson that beneficiaries of grants be termed "Coopted Members" for the meetings of IUPAC bodies which they attended.

Minute 4/74

ARRANGEMENTS FOR 28th IUPAC CONFERENCE (MADRID, 1975)

The Treasurer summarized briefly the report in the meeting file of his recent visit to Spain with the Assistant Secretary. The original idea of using several smaller hotels for accommodation had proved impracticable. Good rates had been negotiated at the Eurobuilding and the Melia Castilla, each hotel being capable of accommodating all participants at the Conference. Prof. Horn envisaged a subsistence of \$33 per day for the Melia Castilla. However, if the dates could be altered to 27 August - 5 September, a subsistence rate of \$30 could apply for the Eurobuilding. The latter hotel could also provide all of the meeting rooms needed. The Treasurer was unable to recommend the use of the Consejo Superior de Investigaciones Cientificas for meetings: most of the rooms were not air-conditioned. Also, lunch facilities in the vicinity of the Consejo were poor, but good around the Eurobuilding. Some savings on air travel in Europe would be possible if the use of ITX fares-special event tours was accepted by the Union. Finally, Prof. Horn hoped to raise some financial support for the Conference from Spanish chemical industry.

Although the President supported the proposal for using ITX fares-special event tours, he was strongly opposed to any change in the announced dates of 2 - 11 September for the Conference. He cited a number of ancillary meetings and events which had already been arranged to fit in with that schedule of dates. Sir Harold Thompson favoured the use of the Melia Castilla, with transport to the Consejo by buses to be arranged by the Spanish National Committee, as had been promised earlier. Also, he believed that special lunch facilities could be provided at the Consejo: he recommended that the lunch break between meetings be as per Spanish custom, say, 13.00-15.30. The President was trying personally to obtain a grant of some £5,000 from the Spanish Ministry of Education and Science to support the Conference.

Following an extended discussion by the Bureau of the various possibilities, it was Resolved on a show of hands (12 in favour, 5 against) that:

- (i) the dates for the 1975 IUPAC Conference will be 2 - 11 September;
- (ii) the special rates for accommodation at Hotel Melia Castilla be accepted, the subsistence allowance to be \$33 per day;
- (iii) the meetings of IUPAC bodies be held at the Consejo Superior de Investigaciones Científicas, transportation to be arranged from the Melia Castilla and lunch facilities to be made available;
- (iv) the use of organized travel arrangements be mandatory from all parts of the world, unless a person wishes to meet the extra costs of independent travel from non-IUPAC funds.

Requests from the Nomenclature Commissions on Inorganic Chemistry and on Organic Chemistry to meet in Spain prior to the 1975 IUPAC Conference were presented by the respective Division Presidents. Although some widely differing views were expressed by Bureau Members, it was Resolved that:

- (i) the principle for all IUPAC bodies to meet at Conference in an IUPAC Conference year is reaffirmed;
- (ii) without prejudice to future Conferences, the two Nomenclature Commissions be allowed to meet immediately before the 1975 IUPAC Conference in Madrid or in close proximity to it;
- (iii) the two Commissions should meet simultaneously at the same location in order to facilitate progress in various collaborative projects;
- (iv) if required, the Chairmen of the two Commissions should come directly from their meetings to report to the respective Division Committees in Madrid.

Minute 5/74

APPLICATIONS FOR ASSOCIATED ORGANIZATION STATUS

5.1/74 Groupe pour l'Avancement des Méthodes Spectroscopiques et Physico-Chimiques d'Analyse (GAMS)

Further to the recommendation of the Executive Committee (Minute 10/74, LXXX/EC), it was Resolved:

that the Bureau recommends to Council to admit GAMS to Associated Organization status at the 28th IUPAC Conference (1975).

5.2/74 Association of Editors of European Chemistry Journals (EdEuChem)

In order to study the matter properly, consideration of a recent application (74.8.23) from EdEuChem was deferred to the next meeting of the Executive Committee.

Minute 6/74

FINANCIAL MATTERS

6.1/74 Current Financial Status

The Treasurer reported that about 80% of all payments had now been received from those persons who should have attended the banquet at the Munich Conference.

Also, the deficit guarantee of \$500 provided to the IUPAC-IUFoST Symposium in Hamburg (73.8.29-31) had been returned to the Union, together with some profit on that meeting. This meant that the Munich Conference budget was not exceeded, despite increasing costs. The present financial situation of the Union was reasonable - about \$52,000 in liquid funds and \$135,000 in short-term investments - but it would be advisable to make all possible financial savings on the Madrid Conference. Unfortunately, there remained about \$26,000 outstanding in annual subscriptions from National Adhering Organizations for 1973 and 1974: Profs. Rangaswami and Smets were asked to press for payment of the 1974 subscriptions from India and Belgium, respectively. Not all countries had been able to pay the increased subscriptions in 1974. Prof. Emanuel believed it might be possible for USSR to pay the full \$21,500 for Category A2 during 1975, though not necessarily at the start of the year. The President urged that the membership status of Nigeria be resolved as soon as possible. Prof. Horn mentioned the need eventually to separate Company Associates income from National Adhering Organization subscriptions, and for each country to enter a membership category equivalent to its national chemical turnover.

6.2/74 Budget for 1975

The Treasurer advised that the 1975 IUPAC Budget (as of 19 February 1974) would need to be revised drastically following the present meeting, especially in terms of the arrangements now agreed for the 28th IUPAC Conference.

Minute 7/74

REPORTS OF DIVISION PRESIDENTS AND CLINICAL CHEMISTRY SECTION

The files for the meeting contained reports of the activities since the XXVII IUPAC Conference (1973) of the various Divisions and Clinical Chemistry Section.

Regarding the Inorganic Chemistry Division, Prof. Gutmann:

(i) requested additional funding of \$2,500 in 1975 so that three Associate Members of the Commission on Atomic Weights could participate in the 28th IUPAC Conference. These persons were active in the work of the Commission's Mass Spectrometric Evaluation Group. The Bureau asked the Treasurer to take the request into consideration when revising the 1975 IUPAC budget.

(ii) referred to discussions over several years regarding the use of the terms "atomic weight" and "relative atomic mass" (sometimes shortened to "atomic mass"). The Bureau invited Prof. Gutmann to put his points in writing to Dr. Jones as President of the Physical Chemistry Division, copies of the letter to be sent to the other Division Presidents.

(iii) reported his disappointment not to have found copies of IUPAC's Nomenclature of Inorganic Chemistry (the Red Book) displayed at the IV International Conference on Nonaqueous Solvents (Vienna, 74.7.10-12) and at the XVI International Conference on Coordination Chemistry (Dublin, 74.8.19-24). He believed that, as a general principle, appropriate major nomenclature books of the Union should be publicized at its sponsored symposia, with order forms available to purchase copies. The Executive Secretary said that, at present, the Secretariat was sending to each symposium 100 copies each of the 1973 IUPAC brochure and of a Butterworths listing of IUPAC publications. Prof. Ourisson suggested that symposia organizers should be required to print and include in the documents distributed to all participants a one-page (two sides) summary of the Union's publication programme. This should include a form to order specific titles or to request more information. The Bureau decided to refer the suggestion of Prof. Ourisson for the attention of the Committee on Publications.

Regarding the Organic Chemistry Division, Prof. Kjaer drew attention to the Commission on Physical Organic Chemistry, which had been created at the 1973 IUPAC Conference. Its activities for the first two years of existence were being conducted without expense to the Union, including any meeting at the 1975 Conference. This might have general implications for new Commissions. The first in the new series of symposia on organic synthesis, initiated by the Division, was just ending at Louvain and it appeared to have been most successful.

Prof. Benoit reported that the Commission on Macromolecular Nomenclature had convened its 1974 meeting at very short notice and several Titular Members had been unable to attend. IUPAC should take greater care in future, noting that advance notice of not less than three months was needed by Soviet scientists to facilitate their participation.

Dr. Egan emphasized that, on this occasion, the report of the Applied Chemistry Division concentrated on reorganization of the Division's structure and diversification of the programme. The Division accepted, in principle, the proposed statutory change of Sections to Commissions and it was willing to work towards applying this from the 1975 IUPAC Conference. However, full implementation of the change might require the following two years because of the greater limitations of members in the areas of food, oils and fats, and pesticides, where large working programmes existed. On the basis that the revised Statutes (see Minute 19/74, page 16) would be adopted by Council in 1975, the Bureau asked Dr. Egan to start and implement the necessary changes in his Division as soon as possible.

Proposals were made by Dr. Egan in particular for diversification of the programme of the Air Quality Section. At present there was a large element of duplication with the new Commission on Toxicology of the Clinical Chemistry Section and with other national and international organizations. The following composition recommended for the ad hoc Committee to study the need for an IUPAC body on reclamation of solid wastes (Minute 18(vii)/73, XXVI/C), was accepted by the Bureau:

Prof. S. J. Pirt (UK), Convenor
Prof. A. E. Humphrey (USA)
Prof. K. Arima (Japan)

The need to create a mechanism for industry (Company Associates) to contribute to the definition of problems, as well as taking part in their solution, was mentioned by Dr. Egan. Also, he stressed the need to improve contacts between Company Associates and all Divisions of the Union.

Regarding the Clinical Chemistry Section, Dr. Tonks:

(i) reported that the new Commission on Toxicology had made a good start to its activities, but some overlap with the Air Quality Section needed to be resolved. The immediate objective was to organize an International Conference on Lead for 1976. Because of the large amount of preparation, it was essential for the Commission to meet early in 1975, prior to the 28th IUPAC Conference. Accommodation had been arranged in London at no expense to the Union, but \$1,000 was requested from IUPAC to cover travel expenses of three Titular Members. The Bureau guaranteed to provide \$500 towards the travel costs.

(ii) said that the estimated costs for the Conference on Lead totalled \$25,000, part of which should be met by IUPAC. The Bureau decided to await a formal application for sponsorship and subvention following the meeting of the Commission on Toxicology early in 1975, for consideration by the Executive Committee.

(iii) had decided not to proceed with an attempt to create a Commission on Instrumentation, but to include the contemplated work programme within the existing Commission on Automation.

(iv) presented a detailed proposal for Division status to be granted to the Clinical Chemistry Section. There was some anxiety about competition from other existing and proposed clinical chemistry organizations, such as the European Society of Clinical Chemistry and European Society of Clinical Enzymology. Preliminary discussion of the proposal only was undertaken by the Bureau at this time, more detailed consideration to be made at the next meeting of the Executive Committee. It was noted that the revised Statutes (see Minute 19/74, page 16) would clarify and enhance the present status of the Clinical Chemistry Section. Concern was expressed at the overlap between the Section and the International Federation of Clinical Chemistry (IFCC).

Minute 8/74

REVIEW OF DISTRIBUTION OF PURE AND APPLIED CHEMISTS IN IUPAC

At its XXVI meeting in 1970, the Bureau made suggestions for increasing the membership level of industrial chemists on IUPAC bodies (Minute 89). The matter had been reviewed after two years (Minute 19/72, XXX/B), when little increase was evident in the number of industrial chemists in the Union. A current breakdown of memberships of IUPAC bodies, prepared by the Secretariat, showed no significant change of the past four years. The Bureau noted the breakdown, but no action was contemplated. Dr. Egan pointed out that the data in respect of the Applied Chemistry Division was not greatly different from that in his report to the Bureau (see Minute 7/74, page 6), although compiled on a somewhat different basis.

Minute 9/74

CONTRACT WORK WITH CEE

The files for the meeting contained a report from Prof. Truhaut on the activities of the Coordinating Committee for Analytical Methods for CEE and IARC since September 1973. In particular, attention was drawn to a letter from the Secretary General of the Union to CEE:

(i) expressing concern at lack of progress by the CEE Scientific Commission in dealing with analytical methods submitted under contract to date by IUPAC;

(ii) urging that the draft contract with CEE for 1975 be made available for early consideration by IUPAC.

The reply from CEE indicated that no contract was now envisaged for 1975, but it was unacceptable to Prof. Truhaut in allowing critical evaluation of the methods established by IUPAC for CEE by intergovernmental experts in the absence of IUPAC representatives. This did not permit the possibility of reply to criticisms formulated by the experts.

Through his capacity as Chairman of a Scientific Committee for Human Food created recently by CEE, Prof. Truhaut hoped to improve the collaboration between IUPAC and CEE. Unlike the previous Scientific Committee, the new body had definite statutes. He would be seeking power to establish criteria for further classes of food additive, IUPAC having now done all it could for the present on the first three CEE lists of additive. The Bureau agreed to await further developments on these matters, for consideration of further action by the Secretary General on the advice of Prof. Truhaut.

Minute 10/74

COLLABORATION WITH ISO: PROPOSALS OF ANALYTICAL CHEMISTRY DIVISION

Prof. Tanaka reported that since the Munich Conference, the Analytical Chemistry Division had gained considerably more experience of handling ISO Draft International Standards, and further postal discussion had taken place within the Division Committee. The matter was discussed by the Division Executive Committee in Warsaw on 23 - 24 August 1974, when it was decided to withdraw the proposals (Minute 19/73, XXXII/B) for review by the Division Committee at the next IUPAC Conference. Meanwhile, some guidance from the Bureau on the extent and method of collaboration with ISO would be appreciated. Specific points mentioned by Prof. Tanaka were:

- (i) Is the Union in favour of an "IUPAC approval" note being added to ISO Standards?
- (ii) Such a note would indicate that IUPAC was taking an active interest in industrial matters.
- (iii) Was such a note merely to give an air of respectability to ISO Standards?
- (iv) Most of the Standards being produced by ISO/TC 47 (Chemistry) were very narrow in context and little information was given on the work done in support of the recommendations.

The Analytical Chemistry Division was strongly opposed to acting merely as a "rubber stamp" for ISO and would require much more information on which to base its judgement before signifying approval. However, careful study by the Division of more detail from ISO would take time which could otherwise be used in expediting the Division's normal IUPAC work.

The President said that he had been struck by the increasing level of requests for cooperation of IUPAC with ISO. Nevertheless, the Executive Committee agreed (Minute 12/74, LXXX/EC) that, for the present, each request should continue to be treated on its merits. The Bureau deferred consideration of ISO matters pending the outcome of the further deliberations of the Analytical Chemistry Division Committee. Meanwhile, the Executive Secretary was requested to compile a list of pertinent points from reports of representatives at recent meetings of ISO bodies.

Minute 11/74

REORGANIZATION OF INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS

At the request of the Executive Committee (Minute 14/74, LXXX/EC), Prof. M. L. McGlashan had submitted suggestions for implementing the reorganization of the Interdivisional Committee on Nomenclature and Symbols (IDCNS). These envisaged replacement of IDCNS by two bodies, one to deal with names of chemical substances and the other with names and symbols for physicochemical quantities and units (some possible members were given); and dissolution of some existing Commissions responsible for nomenclature and symbols matters.

The Bureau accepted, in principle, the suggestions of Prof. McGlashan. The opinions of the Divisions should be solicited by early in 1975, so that the Executive Committee at its next meeting could come forward with recommendations for implementation at the 28th IUPAC Conference. It was noted that:

- (i) some IUPAC bodies were concerned with both 'quantities and units' and 'nomenclature';
- (ii) there were some areas, e.g., criteria and limits, which were not obviously 'quantities and units' or 'nomenclature'.

Minute 12/74

AD HOC COMMITTEE ON CRITICAL COMPILATION OF THERMODYNAMIC DATA OF BIOCHEMICAL PROCESSES AND REACTIONS

The views of IUPAB and IUB were now known regarding the proposal to establish an Inter-Union Commission on Biothermodynamics:

(i) IUPAB agreed that the Commission should serve for six years, the need for future extension to be reviewed after four years. Membership should be restricted to six persons, each Union to be responsible for the travel expenses of its two representatives. IUPAB was willing to allocate \$500 per annum towards administration expenses, but on the basis of reimbursement against expenditure actually incurred. There should be complete freedom of publication.

(ii) IUB supported the points made by IUPAB, but suggested that all communication to and from the Commission be channelled through IUPAB.

Further to the recommendation of the Executive Committee (Minute 27/74, page 5, 81st Executive Committee [Brussels]), it was Resolved:-

that the Bureau approves creation of an Inter-Union Commission on Biothermodynamics and is in agreement with the views of IUPAB and IUB except for the following reservations:

(i) the implication of provision by each Union of \$500 per annum signifies a much higher level of administrative expenses than exists for IUPAC bodies: careful control will be needed;

(ii) the agreement reached previously with IUB in respect of publications (Minute 14/73, LXXV/EC) should be extended to cover the new Inter-Union Commission, namely that the Commission is not free to commit the parent Unions to any publication or specific publisher without the concurrence of the respective Executive Committees.

Minute 13/74

NOMINATIONS OF NEW MEMBERS OF IUPAC BODIES

13.1/74 Ratification of Nominations of New Officers and Members Approved by Correspondence through Executive Committee

Those nominations for new Officers and Members of IUPAC bodies approved by correspondence through the Executive Committee since its LXXX Meeting (Appendix A) were ratified by the Bureau.

13.2/74 Membership of Commission on Polymer Characterization and Properties

Prof. Benoit said that Membership of this newly created Commission (Minute 18(vi)/73, XXVII/C) would be considered when the Macromolecular Division Committee met at Madrid during September.

13.3/74 Nominations of New Officers and Members of IUPAC Bodies

- (i) On the recommendation of Prof. Benoit, the Bureau approved the nomination of Dr. R. B. Fox (USA) to replace Dr. L. C. Cross (UK) as Secretary of the Commission on Macromolecular Nomenclature until the 28th IUPAC Conference, and the nomination of Dr. N. M. Bikales (USA), Prof. A. D. Jenkins (UK), and Prof. P. Sigwalt (France) as Associate Members of the Commission.
- (ii) On the recommendation of Prof. Tanaka, the Bureau approved the nomination of Dr. G. Sigworth (USA) as a Member of the Sub-Commission on Solubility Data and endorsed as representatives from CODATA and Gmelin Institut to the Sub-Commission, Prof. I. Eliezer (Israel) and Dr. W. Lippert (Federal Republic of Germany), respectively.

Minute 14/74

SPONSORSHIP: REPRESENTATION, SPONSORSHIP, SUBVENTION

14.1/74 Freedom for Attendance of Bona Fide Chemists

The President reported briefly on some recent developments concerning the following symposia sponsored by the Union:

- (i) VII International Symposium on Carbohydrate Chemistry (Bratislava: 74.8.5-9), for which two South African chemists had been refused entry visas to Czechoslovakia. These chemists had eventually withdrawn their applications to participate. After careful consideration, Sir Harold Thompson had allowed IUPAC sponsorship to stand, but on the explicit condition that no other visas were refused before the date of the Symposium. However, he had withdrawn his invitation for Prof. J. Tomko to act as the official representative of the Union.
- (ii) II Symposium on Inorganic Phosphorus Compounds (Prague: 74.9.10-14), for which an entry visa for an Israeli chemist to Czechoslovakia was still outstanding. Sir Harold Thompson had spoken the previous day by telephone with this chemist and there would be further contact immediately after the Bureau meeting in Brussels. He would then reach a decision whether to withdraw sponsorship.
- (iii) IV Discussion Conference on Macromolecules (Mariánské Lázně: 74.9.2-5), for which Sir Harold Thompson had some doubts whether Prof. O. Wichterle would be allowed to act as the official representative of IUPAC.

Sir Harold Thompson believed that IUPAC must uphold firmly its principle of freedom for attendance at symposia sponsored by the Union of bona fide chemists from member countries. He felt, however, that IUPAC might not be able to influence the freedom of a chemist to leave his native country. Further assurances would be needed in respect of visa applications for some forthcoming symposia already sponsored by the Union.

Prof. Herout reassured the Bureau that the organizers of the symposia in Bratislava and Prague, and himself, had done everything possible within their power to facilitate the granting of visas. However, the final authority in such matters was the Foreign Ministry. He understood that Prof. Wichterle would definitely be able to present IUPAC greetings at the conference in Mariánské Lázně. The Bureau agreed with the suggestion of Prof. Emanuel that a suitable letter be sent from IUPAC to the Czechoslovak Academy of Sciences, which might help the Czechoslovak National Committee of Chemistry in future in these matters.

Further to the recommendation of the Executive Committee (Minute 27/74), page 5, 81st Executive Committee [Brussels]), the Bureau Resolved:

to establish the principle that application for entry visas should be made not less than three months prior to an IUPAC-sponsored symposium, so that sponsorship could be withdrawn one month before the meeting if any such application was not granted or promised

and it was suggested that this procedure should be explained at the 15th General Assembly of ICSU (Istanbul: 74.9.23-26) for possible action by other Unions. Also the procedure should be publicized in the Information Bulletin and incorporated into the advance information questionnaire regarding sponsorship by IUPAC.

Further to the recommendation of the Division Presidents, as accepted by the Executive Committee (Minute 27/74, page 6, 81st Executive Committee [Brussels]), the Bureau Resolved:

that if IUPAC sponsorship is withdrawn from a symposium, the plenary lecturers should be informed by letter of the reasons for this decision, leaving them to decide individually whether to take any further action.

14.2/74 Organization of Symposia

Prof. Ourisson was concerned that past experiences in organization of symposia were not always utilized by those responsible for new international meetings. He suggested that the Bureau might commission the preparation of a booklet, which collected together tested procedures. Sir Harold Thompson reminded the Bureau that the collection of such information and provision of advice had been undertaken within IUPAC until 1971 by a Committee on Congress Organization and Programmes. Since 1971 the Secretariat had continued to collect information, which was available on request. Dr. Jones mentioned the existence of the document "The Organization of International Conferences" (M. K. Ward, National Research Council of Canada), and Mr. Arnold said that a similar guide had been produced by the Union of International Associations. The Bureau asked for attention to be drawn to these sources of information in the official sponsorship letter of IUPAC or earlier.

14.3/74 Ratification of Official Representatives of IUPAC to Symposia in 1974

Those appointments of official representatives of IUPAC to its sponsored symposia in 1974, made by the President since the LXXX Executive Committee meeting (Appendix B), were ratified by the Bureau.

14.4/74 Ratification of Symposia Sponsored by Correspondence through Executive Committee

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

14.5/74 VI International Congress on Catalysis (London, 76.7.12-16)

An application for subvention had been deferred (Minute 20.10/74, LXXX/EC). The Bureau noted that the provisional budget was already in balance, and felt that such a well-established major meeting should not receive funding from IUPAC.

14.6/74 III IUPAC Conference on Physical Organic Chemistry (Montpellier, September 1976)

Sponsorship already granted. Regarding application for subvention, Prof. Kjaer recommended that a deficit guarantee be provided. Decision deferred to next meeting of Executive Committee, pending availability of a more up-to-date budget and better knowledge of IUPAC financial situation for 1976.

14.7/74 IV International Conference on Chemical Thermodynamics (Montpellier, 75.8.26-30)

Supported by Physical Chemistry Division. Sponsorship granted, with provisional publication of about 10 main lectures by IUPAC. Final decision on publication deferred, pending availability of more details of main lectures.

14.8/74 XV Prague Microsymposium (Prague, 75.7.21-25)

The need for IUPAC to sponsor all future meetings in this series had been questioned (Minute 12.2/73, LXXV/EC). Prof. Benoit was strongly in favour of continued sponsorship by the Union. The Bureau agreed to grant sponsorship, subject to resolution of the publication position.

Minute 15/74

26th IUPAC CONGRESS (JAPAN, 1977)

Prof. Shibata reported preliminary plans to hold the Congress in Tokyo during 4 - 10 September 1977. There would be a number of joint symposia under the theme "Chemistry and Welfare of the Human Being". In addition, the Congress would include sessions on Physical, Analytical, Organic, and Macromolecular Chemistry. On the basis of the 1967 International Congress of Biochemistry in Tokyo, 3,000-4,000 participants were anticipated. Further details of the arrangements would be available at the 1975 IUPAC Conference.

Minute 16/74

COMPANY ASSOCIATES SCHEME (Dr. J. W. Barrett in attendance)

Following the Open Meeting on IUPAC Activities during the XXVII IUPAC Conference (Munich, 1973), the Bureau had accepted proposals regarding the formation of an International Company Associates Group (ICAG) and its purpose (Minute 20/73, XXXII/B). Subsequently, all Company Associates had been informed about the proposals. National Groups had been set up in several countries, convenors appointed, and inaugural meetings held. The National Group convenors had then met as ICAG in London (74.6.18). In presenting a report on those deliberations, Dr. Barrett stressed the following points:

(i) It was intended that National Groups should submit to ICAG their views and suggestions relating to the IUPAC work programmes and other appropriate matters. In turn, ICAG would report to the Bureau, making representations on matters such as the Union's existing programmes, more effective methods of transferring the results of these programmes to industry, as well as suggesting new programmes. This would provide a channel of communication between Company Associates and the Bureau and increase the interest of chemical industry in the Union's affairs.

(ii) The whole initiative should lead to recruitment of more Company Associates and greater industrial membership of IUPAC bodies.

(iii) Although a considerable quantity of literature was distributed regularly by the Secretariat to all Company Associates, much of it remained apparently unknown in many of the Companies. The National Groups should bring this problem to the attention of their Companies in order to improve internal distribution.

(iv) The Secretariat was compiling, on an agreed basis, listings of current work programmes in the various Divisions. After approval by the respective Division Presidents, the listings would be distributed via the National Groups to all Company Associates.

(v) The National Groups were interested to see and comment on those proposals from IUPAC bodies selected by the Executive Committee for consideration of submission for financial support from trusts and foundations.

(vi) There was a large disparity between various countries in the legislation, needs, and mechanisms for continuing education and training within industry. The Committee on Teaching of Chemistry might examine this matter and initiate an exchange of information between countries.

(vii) National Groups were being asked to comment on whether IUPAC should be more active in the field of catalysis.

(viii) IUPAC might direct attention to mineral resources and their efficient exploitation. In the first instance, it should be established what work programmes had already been initiated by other Unions.

(ix) More publicity should be given to the work and reports of IUPAC bodies in the environmental field. There was an urgent need for critical reviews of the "state of the art" in specific areas, particularly in the environmental field.

(x) Improvement was needed in the image of chemistry as far as the general public was concerned. An ad hoc Committee might be appointed to look into the matter with a view to reporting to the Bureau at the 28th IUPAC Conference (Madrid, 1975).

The President thanked Dr. Barrett and his colleagues for the initiatives taken through the Company Associates and invited comments from the Bureau. Dr. Egan suggested that it might be advantageous to arrange a meeting in Madrid next year between the Company Associates and the Divisions of the Union. Sir Harold Thompson said that such a meeting would be particularly appropriate for the day between meetings of Council in conjunction with the lecture by Lord Todd. In agreeing with (iii), he thought that the present IUPAC working programmes, as detailed in Comptes Rendus XXVII Conference - Part B, needed to be publicized better to the whole chemical community. Dr. Barrett reassured Prof. Rangaswami that although IUPAC should be ready to give technical advice when needed, general development of mineral resources was a matter for national governments. Dr. Jones welcomed the possibility of National Company Associates Groups providing names of industrial chemists suitable for membership of IUPAC bodies. Mr. Arnold and Dr. Cairns expressed the opinion that better progress could be expected through National Groups than through ICAG, meetings of the latter being difficult to arrange. In connexion with (x), Prof. Ourisson emphasized that the general public was interested in the image of chemistry only for its nonscientific aspects. This would inevitably lead IUPAC into nonscientific areas where it was not active presently, e.g., chemical warfare, abuse of useful drugs.

It was Resolved:

that the Bureau accepts the recommendations of the International Company Associates Group, requests it to take the necessary actions, and looks forward to receiving a progress report at the 28th IUPAC Conference.

Concerning the proposal of the Clinical Chemistry Section that Company Associates be allowed to join individual Divisions, the Bureau approved the view of the Executive Committee (Minute 27/74, page 6, 81st Executive Committee [Brussels]), namely that Company Associates should remain linked to the Union as a whole.

Minute 17/74

PUBLICATIONS

17.1/74 Matters Arising from Meeting of Committee on Publications

Prof. Ourisson drew attention to the following matters arising from a meeting of the Committee on Publications in London (1974.5.28):

(i) For the first time in recent years, there had been a decrease in royalties during 1973. This was attributable only in part to the lesser number of issues of the journal produced in 1973 compared with 1972. Sales of books were appreciably less, especially of symposia run-ons from the journal. Not only had the Union been faced with poor sales service by Butterworths, but the production schedule for 1974 was badly in arrears. The Committee was greatly concerned at the efficiency of the publisher, which could be expected to improve only slowly through pressure from the President and the Secretariat.

(ii) Some efforts were being made by the Committee to investigate means of effecting savings in costs of printing; to evaluate the possibility of selling single issues of the journal instead of producing run-ons of symposia material; and to reevaluate the present range of IUPAC publications.

(iii) Dr. K. Bláha (Czechoslovakia) was proposed as a suitable person to fill the membership vacancy on the Committee.

(iv) In order to expedite progress on various matters, it was hoped to arrange an interim meeting of some members of the Committee, at no expense to IUPAC, on 13 November 1974.

On the recommendation of the President, the Bureau Resolved that:

- (i) specifications be drawn up so that the contract as official publisher to IUPAC can be placed for tender, with a view to choosing, if necessary, a suitable date for terminating the present arrangements with Butterworths;
- (ii) the subscription rate for Pure and Applied Chemistry be increased for 1975 to \$54.00 (£18.00) per volume.

17.2/74 General Aspects of Trace Analytical Methods

In his capacity as President of the Analytical Chemistry Division, Prof. Tanaka had approved the following report of the Commission on Microchemical Techniques and Trace Analysis:

"General Aspects of Trace Analytical Methods-I. Methods of Calibration in Trace Analysis"

The Bureau accepted the recommendation of the Chairman of the Committee on Publications (Prof. Ourisson) and the Scientific Editor of the Union (Prof. Weedon) that the report should be published in Pure and Applied Chemistry.

17.3/74 Recommended Reference Materials for Realization of Physicochemical Properties

Several parts of the Compendium on Recommended Reference Materials for Realization of Physicochemical Properties, being prepared by the Sub-Commission on Calibration and Test Materials, were in course of publication in Pure and Applied Chemistry. Further to the recommendation of the President of the Physical Chemistry Division, the Bureau approved publication in the IUPAC journal of an additional part entitled "Optical Refraction (Refractive Index)".

17.7/74 Macromolecular Division Working Party Report

On the recommendation of the President of the Macromolecular Division, supported by the Chairman of the Committee on Publications, the following report of the Working Party on Structure and Properties of Commercial Polymers was

approved by the Bureau for publication in Pure and Applied Chemistry:

"Basic Parameters, Melt Rheology, Processing and End-Use Properties of Three Similar Low Density Polyethylene Samples"

Minute 18/74

ICSU

18.1/74 Nominations for Officers

The Bureau offered no comment on nominations to date for the Officers of ICSU. As official representative of IUPAC to the forthcoming 15th General Assembly of ICSU, Sir Harold Thompson was asked to use his discretion in voting on the nominations.

18.2/74 Financial Position

The financial position of ICSU had changed from a deficit of \$92,000 in 1970 to an expected surplus of \$75,000 in 1974. Yet its Standing Finance Committee had expressed concern for the future. The Bureau concluded the IUPAC could do nothing obvious to help ICSU, and Sir Harold Thompson was asked to remain silent at the relevant stage of the ICSU General Assembly. It was noted that national subscriptions to IUPAC were higher than for other Unions and that some criticism had arisen on this point.

18.3/74 Membership of China

The problem of simultaneous membership of ICSU and the International Scientific Unions by the People's Republic of China and the Republic of China (Taiwan) was discussed at some length by the Bureau (see also Minute 8.8/74, LXXX/EC). Pressure was being exerted by UNESCO on ICSU to expel Taiwan. Sir Harold Thompson would need a directive on how to act when the matter came up for consideration at the ICSU General Assembly. The position of IUPAC was clear (Statute 3.4): while Taiwan continued to fulfil its financial obligations, there was no possibility to remove that country from the Union. However, the Bureau would be happy to receive an application for membership from the People's Republic of China.

18.4/74 Scientific Priorities and UNESCO Programme for 1977-78

Dr. Gallay had already advised the ICSU Secretariat that he believed production of synthetic proteins by biosynthesis was more important even than environmental problems. In the opinion of Sir Harold Thompson and Dr. Isler, agriculture, in the widest possible sense, was becoming a scientific priority. Prof. Truhaut suggested as areas of importance: fertilization of arid zones, recycling of wastes, new sources of energy. Dr. Tonks drew attention to the application of clinical chemistry in developing nations, but Sir Harold Thompson said this was the responsibility of WHO, through which agency IUPAC should channel its efforts. Dr. Egan reminded the Bureau of the proposals of IUPAC bodies selected by the Executive Committee for consideration of submission to trusts and foundations for financial support (Minute 29/74, 81st Executive Committee [Brussels]).

18.5/74 COSTED Travel Fellowships

The ICSU Committee on Science and Technology in Developing Countries had instituted travel fellowships to assist scientists from developing countries to participate in scientific seminars, etc. In view of the IUPAC financial situation, the Bureau decided that the Union was unable, at present, to support this COSTED initiative. However, details regarding the fellowships should be publicized in the Information Bulletin.

18.6/74 Rector of UN University

The Bureau took no action regarding an invitation to propose through ICSU a candidate for the post of Rector of the UN University.

18.7/74 ICSU Abstracting Board (Dr. J. W. Barrett in attendance)

In his capacity as official representative of IUPAC, Dr. Barrett reported briefly on the ICSU Abstracting Board meetings in 1973 and 1974. The Board provided a world forum for secondary information centres. It was going through a period of reorganization and reprogramming, especially in relation to the increasing activity of UNISIST. Most of the subscription income came from the National Members and Member Services. The Bureau accepted the recommendation of Dr. Barrett that the subscription from IUPAC should be raised to \$300 for 1975.

Minute 19/74

REVISION OF STATUTES AND BYLAWS

A draft revision of the 1965 IUPAC Statutes, completed by the Committee on Statutes and Bylaws (Oxford, 74.4.22-23), had been circulated to the Bureau prior to the meeting. Comments on the draft had been submitted by Dr. A. L. G. Rees of the Committee on Statutes and Bylaws and by Mr. Arnold and Dr. Tonks of the Bureau. The comments of Dr. Rees were not of principle and accepted by the Bureau without discussion. The points raised by Mr. Arnold and Dr. Tonks were discussed in full, and the resulting policy decisions of the Bureau are recorded in Appendix D. The amended draft (Appendix E) would be circulated to the National Adhering Organizations not later than 1 November 1974, for consideration of adoption by Council at the 28th IUPAC Conference.

The appendices to the draft revision:

- (i) Proposals for Abolition of Sections as Defined in Present Statute 10.4 and for Provision for Sections with a New Role in the New Statutes and Bylaws
- (ii) Proposals for Abolition of Sub-Commissions as Formal Entities (Statute 10.6 and Bylaw 4)

were accepted by the Bureau as guidelines for future IUPAC policy. However, contrary to the view of the Committee on Statutes and Bylaws, Sir Harold Thompson felt it was most important to list titles and compositions of 'subcommittees' in the Comptes Rendus. This view was endorsed by the Bureau. The Executive Secretary was asked to check the records to see if any commitment had been made in writing that Medicinal Chemistry must be a Section and not a Commission.

Minute 20/74

REVISION OF "NOMENCLATURE OF ORGANIC CHEMISTRY"

A letter was considered from the Chairman of the Commission on Nomenclature of Organic Chemistry (74.7.31), drawing attention to the importance of revising, simultaneously and according to the same principles, IUPAC's Nomenclature of Organic Chemistry and Chemical Abstracts' Nomenclature and Indexing. The Chemical Societies of Federal Republic of Germany, UK, and USA had agreed tentatively to contribute the equivalent of about DM5,000 each to expedite the rapid revision of the IUPAC document. However, it would be necessary for IUPAC to repay this money from royalties arising from publication of the revised IUPAC document.

The Bureau approved a recommendation from the Executive Committee (Minute 27/74, 81st Executive Committee [Brussels]) that IUPAC should accept the offer, but regarded this as an exception to the general principle that royalties should not be directed to the IUPAC body responsible for a particular publication. The contributions of the three Societies should be paid to IUPAC for dissemination as necessary for the revision, any unused monies to be returned eventually to the Societies.

Minute 21/74

DATE AND PLACE OF NEXT MEETING

The next meeting of the Bureau would take place in Madrid on 8 September 1975 (all day) during the 28th IUPAC Conference, followed by the New Bureau on 11 September (afternoon).

VOTES OF THANKS

Formal thanks were to be recorded to Prof. Smets for arrangements for the meeting, to the Secretariat for preparation of the documentation, and to Comité National Belge de Chimie and the Rector of the Katholieke Universiteit Leuven for provision of hospitality.

* * * * *

The Meeting closed at 12.00.

Chairman: *H. V. Thompson*
Date: *Sept. 8. 1975*

APPENDIX A

NEW OFFICERS AND MEMBERS OF IUPAC BODIES

APPROVED BY CORRESPONDENCE THROUGH EXECUTIVE

COMMITTEE SINCE ITS LXXX MEETING

I. NEW OFFICERS (Bylaw 4.1307)

- (i) Commission on Toxicology in Clinical Chemistry (CToCC)
Secretary - Prof. R. Bourdon (France)
- (ii) Sub-Commission on Thermodynamic Tables (I.2.2)
Secretary - Dr. H. J. White, Jr. (USA)
- (iii) Sub-Commission on Solubility Data (V.6.1)
Chairman - Prof. A. S. Kertes (Israel)
- (iv) Sub-Commission on Compilation of Stability Constant Data for Metal Complexes in Solution (V.6.2)
Chairman - Dr. D. D. Perrin (Australia)

II. NEW MEMBERS (Bylaw 4.1303)

- (i) Commission on Toxicology in Clinical Chemistry (CToCC)
Titular Member - Prof. M. J. G. Mercier (Belgium)
Associate Members - Dr. A. Noirfalise (Belgium)
Dr. J. Savory (USA)
Dr. H. E. Spiegel (USA)
- (ii) Sub-Commission on Calibration and Test Materials (I.4.1)
Member - Dr. J. H. S. Green (UK)
- (iii) Sub-Commission on Organic Derivatives of the Elements (II.2.1)
Members - Prof. W. C. Fernelius (USA)
Dr. D. M. P. Mingos (UK)
- (iv) Commission on Physical Organic Chemistry (III.2)
Associate Member - Prof. A. R. H. Cole (Australia)
- (v) Commission on Equilibrium Data (V.6)
Associate Member - Prof. A. F. Clifford (USA)
- (vi) Sub-Commission on Solubility Data (V.6.1)
Member - Prof. A. F. Clifford (USA)
- (vii) Sub-Commission on Compilation of Stability Constant Data for Metal Complexes in Solution (V.6.2)
Members - Prof. B. Dempsey (Australia)
Dr. P. Serjeant (Australia)
- (viii) Commission on Soaps and Oleochemicals (VI.3.2)
Associate Member - Prof. H. Wessels (Federal Republic of Germany)
- (ix) Commission on Pesticide Residue Analysis (VI.5.2)
Titular Member - Dr. D. C. Abbott (UK)

APPENDIX B

APPOINTMENTS MADE BY PRESIDENT

SINCE LXXX EXECUTIVE COMMITTEE MEETING

V International Symposium on Magnetic Resonance (Bombay, India: 74.1.14-18) - Letter of greetings

IV International Conference on Crystal Growth (Tokyo, Japan: 74.3.24-29) - Letter of greetings

II International Meeting on Boron Chemistry (Leeds, UK: 74.3.25-29) - Prof. N. N. Greenwood

II IUPAC Conference on Physical Organic Chemistry (Noordwijkerhout, Netherlands: 74.4.29-74.5.2) - Prof. O. L. Chapman

Conference on Laboratory Instruction in Chemistry (Troy, New York, USA: 74.6.10-12) - Letter of greetings

IX International Symposium on Chemistry of Natural Products (Ottawa, Canada: 74.6.24-28) - Prof. A. Kjaer

III International Pesticide Chemistry Congress (Helsinki, Finland: 74.7.3-9) - Dr. D. C. Abbott

IV International Conference on Nonaqueous Solvents (Vienna, Austria: 74.7.10-12) - Prof. A. Swinarski

V IUPAC Symposium on Photochemistry (Enschede, Netherlands: 74.7.21-27) - Prof. O. L. Chapman

II International Symposium on Mycotoxins in Food (Pulawy, Poland: 74.7.23-24) - Dr. R. Marcuse

International Symposium on Macromolecules (Rio de Janeiro, Brazil: 74.7.26-31) - Prof. H. Benoit

VII International Symposium on Carbohydrate Chemistry (Bratislava, Czechoslovakia: 74.8.5-9) - Prof. J. Tomko (Appointment withdrawn by Sir Harold Thompson because of visa difficulties)

XVI International Conference on Coordination Chemistry (Dublin, Ireland: 74.8.19-24) - Prof. V. Gutmann

XIV Prague Microsymposium on Macromolecules (Prague, Czechoslovakia: 74.8.26-29) - Prof. V. Herout

IV International Conference on Raman Spectroscopy (Brunswick, Maine, USA: 74.8.26-30) - Prof. F. A. Miller

I International Conference on Organic Synthesis (Louvain-la-Neuve, Belgium: 74.8.26-30) - Prof. P. Yates

IV Polish Conference on Analytical Chemistry (Warsaw, Poland: 74.8.26-31) - Prof. N. Tanaka

IV Discussion Conference on Macromolecules (Marienbad, Czechoslovakia: 74.9.2-5) - Prof. O. Wichterle

Biopolymer Interactions: Workshop on Physical Chemistry of Biologically Active Assemblies (Amsterdam, Netherlands: 74.9.2-6) - Prof. A. Silberberg

IV International Symposium on Medicinal Chemistry (Noordwijkerhout, Netherlands: 74.9.9-13) - Prof. E. J. Ariëns

II Symposium on Inorganic Phosphorus Compounds (Prague, Czechoslovakia: 74.9.10-14) - Prof. V. Gutmann

International Symposium on Macromolecules (Madrid, Spain: 74.9.15-20) - Prof. H. Benoit

V International Conference of Organic Phosphorus Chemistry (Gdańsk, Poland: 74.9.16-21) - Prof. A. Kjaer

II International Symposium on Chemistry of Nonbenzenoid Aromatic Compounds (Lindau, Federal Republic of Germany: 74.9.23-27) - Prof. H. Zollinger

APPENDIX C

SPONSORSHIP OF SYMPOSIA APPROVED BY
CORRESPONDENCE THROUGH EXECUTIVE COMMITTEE
SINCE ITS LXXX MEETING

Symposium on Techniques at High Temperatures (Toronto, Canada: 74.8.26-28)

Symposium on Polymerization of Heterocycles (Ring-Opening) (Lodz-Jablonna, Poland: June 1975)

IV Bratislava International Conference on Modified Polymers, Preparation and Properties (Bratislava, Czechoslovakia: 75.7.1-4)

IX International Congress on Clinical Chemistry (Toronto, Canada: 75.7.13-18)

International Symposium on Macromolecules (Jerusalem, Israel: 75.7.13-18)

International Conference on Colloid and Surface Chemistry (Budapest, Hungary: 75.9.15-20)

50th Anniversary Meeting of ACS Division of Colloid and Surface Chemistry (Puerto Rico: June 1976)

VIII International Symposium on Carbohydrate Chemistry (Kyoto, Japan: 76.8.16-21)

III IUPAC Conference on Physical Organic Chemistry (Montpellier, France: September 1976)

POLICY DECISIONS REGARDING DRAFT REVISION
OF STATUTES AND BYLAWS

The Bureau agreed that

- (i) for consistency, the word "the" should be inserted as necessary before "Council" throughout the draft revision;
- (ii) the words "of the Union" appeared needlessly in a number of places and could be omitted (S6.41, page 4, line 21; S10.3, line 2, page 7; S14.2, page 8, line 9; S14.3, page 8, lines 12 and 17; B4.103, page 11, line 40, and page 12, line 4; B4.1061, page 12, line 18; B4.107, page 12, line 30; B4.108, page 12, line 32; B4.109, page 12, line 41; B4.1302, page 13, line 29; B4.1305, page 14, line 45; B4.1311, page 15, line 16; B5.1, page 15, line 27; B6.2, page 16, line 5).

S4.1 The Bureau decided to retain the wording "and other appropriate bodies as determined by Council" (page 1, line 42). This gave Council the authority to create a body to cope with unforeseen circumstances.

S4.2 It was agreed to omit "combined" (page 2, line 3).

Concerning the filling of casual vacancies between General Assemblies, it was decided to insert after "Union" (page 2, line 12) the words "except for the Executive Committee and Bureau".

S6.51 The Bureau agreed that it was unwise to oblige the Treasurer to act as an accountant by Statute. Therefore, the sentence "He shall maintain transactions" (page 4, lines 28-30) should be replaced by "He shall ensure that an appropriate record of all financial authorities and transactions is maintained."

S7.2 Sections were now always responsible to the Bureau, so the qualifying phrase "responsible directly to the Bureau" (page 5, lines 1-2) was unnecessary and could be deleted.

The words "or Section" should be inserted after "a Division" in line 8 on page 5.

S7.3 The words "and Sections" should be inserted after "of the Divisions" in line 17 on page 5.

S7.2 In order to define the period more precisely, the Bureau approved rephrasing of the sentence in lines 3-4 on page 6 as follows: "The period of service of an elected Member shall be four years or until the end of his term as a Bureau Member, whichever is the shorter."

S9.42 It was not necessary to await a meeting of the Bureau for approval to solicit funds for Union purposes. Urgent action between Bureau meetings could be taken by the Executive Committee or the President alone (S8.1 and S6.22), even by correspondence.

S10.1 The words "or sectional" should be inserted after "their divisional" in line 41 on page 6.

S10.5 The words "and/or Sections" should be inserted after "Divisions" in line 8 on page 7, and "or Section" after "by the Division" in line 12 on page 7.

- S13.1 The words "and Sections" should be inserted after "by the Divisions" in line 34 on page 7, and "and Section" after "appropriate Division" in line 41 on page 7. "This Committee" should be replaced by "This committee" in line 40 on page 7.
- S14.3 Because Category D delegates may only vote on scientific matters, the Bureau decided to add the words "Categories A, B, and C" after "Union" in line 17 on page 8.
- I 11 The Bureau agreed that once a set of nomenclature rules had been approved by Council, no changes should be allowed at the proof stage of publication to the manuscript originally submitted to the Secretariat.
- B2.24 To avoid confusion "B2.2" and B2.22" should be used instead of "2.21" and "2.22" in line 7 on page 11.
- B4 Despite the length of this Bylaw and in order to retain analogy with S10, the Bureau agreed not to renumber as B5 the material dealing with Commissions (B4.13).
- Although nothing was stated here about the matter, the first Members of a new Division or Section Committee should be appointed by Council (S10.2).
- B4.103 The words
- (i) "Members of" should be inserted at the start of the Bylaw (line 38, page 11);
 - (ii) "or Section" should be inserted after "Division" (line 46, page 11).
- The Executive Committee was asked to consider at its next meeting whether a person, who had served ten years as a Commission Member, should be allowed to become a Member of a Division or Section Committee, and vice versa. It was suggested that this possibility might be controlled via the Divisional or Sectional Rules.
- B4.105 The word "of" should read "or" (line 9, page 12).
- B4.108 The Bureau decided to insert the words "at the Secretariat" after "Secretary General" (line 35, page 12).
- B4.109 The word "and" should be replaced by "or" (line 37, page 12).
- B4.1304 For consistency with the rest of the Statutes and Bylaws, it was decided to replace "make" by "take" (line 26, page 14).
- After a discussion initiated by Dr. Tonks, the Bureau reaffirmed the conclusion of the Executive Committee (Appendix F, 4.1303 (ii), LXXX/EC) that it was still important in some countries for the Adhering Organization to approve nominated Titular and Associate Members.
- B4.1305 (a) The Bureau agreed with the interpretation that the question of whether National Representatives be allowed to attend general meetings of the relevant Division or Section, was a matter for the Divisional or Sectional Rules.
- B5.5 The need for Council to review at each General Assembly the continuance of Associated Organization status for all such organizations was confirmed by the Bureau.
- B6.2 Because Category D delegates may only vote on scientific matters, the Bureau decided to insert the words "in Categories A, B, and C" after "Organizations" in line 10 on page 16.

INTERNATIONAL UNION OF PURE

AND APPLIED CHEMISTRY

STATUTES AND BYLAWS

Revised document for submission to Council
at 28th Conference in Spain, September 1975

S1 Definition of the Union

The International Union of Pure and Applied Chemistry (IUPAC) (hereafter referred to as "the Union") is a voluntary, non-governmental, nonprofit association of organizations each representing the chemists of a member country, a member country being a country whose Adhering Organization has joined the Union.

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S2 Objects

The objects of the Union are:

S2.1 to promote continuing cooperation among the chemists of the member countries;

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S2.2 to study topics of international importance to pure and applied chemistry which need regulation, standardization, or codification;

S2.3 to cooperate with other international organizations which deal with topics of a chemical nature;

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S2.4 to contribute to the advancement of pure and applied chemistry in all its aspects.

S2.5 In pursuing these objects the Union will observe the basic policy of political nondiscrimination and affirms the rights of chemists of any country to adhere to or to associate with international activity in the field of chemistry without regard to race, religion, or political philosophy.

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S3 Membership

S3.1 A country may join the Union through only one national organization representing its chemists. This Adhering Organization may be a national chemical council, a national society representing chemistry, a national academy of science, or any other institution or association of institutions representative of national chemical interests.

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S3.2 The Adhering Organizations are the Members of the Union.

S3.3 There shall be several categories of membership. A country requesting admission to the Union of its proposed Adhering Organization shall provide full information about its proposed Adhering Organization and indicate to which category the latter wishes to be assigned. An Adhering Organization may at any time request to be transferred to another category.

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S3.4 An Adhering Organization may withdraw from the Union provided that it has fulfilled its financial obligations, or may be removed from the Union for failure to fulfil such obligations.

S4 Organization

S4.1 The organization of the Union comprises its Council, a Bureau, an Executive Committee, Standing Committees, Divisions, Sections, Commissions, and other appropriate bodies as determined by the Council.

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S4.2	A General Assembly of the International Union of Pure and Applied Chemistry shall be held normally each second year, beginning with 1963, and shall consist of a set of meetings of the Council and such other bodies of the Union as the Bureau shall decide. Where the duration of office of Officers of the Union, Elected Members of the Bureau, and Members of Division and Section Committees, Commissions, or other bodies of the Union is referred to in these Statutes, it shall begin and end at the end of a General Assembly, except for the office of Treasurer for which the Council may decide otherwise. In the filling of casual vacancies the Bureau may authorize an appointment to Division and Section Committees, Commissions, and other bodies of the Union except for the Executive Committee and Bureau to begin at an intermediate date. Any such appointment should be regarded as dating from the previous General Assembly in respect of the period of office for Division and Section Committees, and Commissions.	1 5 10 15
S4.3	The official headquarters of the Union shall be in Zürich (Switzerland) until otherwise decided by the Council. Any change in location requires a majority of two-thirds of the votes recorded at a meeting of the Council.	
S4.4	The legal domicile of the Union is accepted by Finanzdirektion des Kantons Zürich as an Association under Swiss Law and for legal purposes the Union will act in accordance with Articles 60 and following of the Swiss Civil Code and by the present Statutes.	20
S5	<u>Council</u>	
S5.1	The Council, to which the Bureau, Executive Committee, Standing Committees, Divisions, Sections, Commissions, and all other bodies of the Union are responsible, is composed of the Delegates of the Adhering Organizations. The number of Delegates for each Adhering Organization is fixed in accordance with the category to which such an Organization is admitted, namely	25 30
	Category A1, A2, A3, etc.	6 Delegates
	Category B1, B2, etc.	4 Delegates
	Category C	2 Delegates
	Category D	1 Delegate
	Each Adhering Organization shall appoint its Delegates for every Council meeting. Apart from voting on proposals of scientific matters, Category D Delegates shall have no vote in the Council.	35
S5.2	Regular meetings of the Council shall take place every two years as part of a General Assembly; special meetings may be convened by the President of the Union and shall be convened by him at the request of one-third of the total number of Adhering Organizations, which shall specify the reason for such request.	40
S5.31	No decision of the Council shall be valid unless taken at a meeting of the Council at which at least one half of the maximum number of votes are represented; this maximum refers to the full complement of Delegates from all Adhering Organizations in Categories A, B, and C.	45

S5.32	For all voting by the Council abstentions shall not be recorded as votes.	1
S5.33	The voting procedure to be adopted is different according to whether a proposal is a scientific or nonscientific matter. The Presiding Officer shall decide whether for the purpose of voting a matter shall be considered to be of a scientific or nonscientific nature and his decision shall be final. The method of voting shall be specified in the Bylaws.	5
S5.34	There shall be no voting by proxy.	
S5.4	Functions of the Council not mentioned in other Articles of these Statutes shall be:	10
S5.401	to elect the Officers of the Union and the Elected Members of the Bureau;	
S5.402	to discuss and determine the general policy of the Union;	
S5.403	to approve the Bylaws of the Union and changes therein;	15
S5.404	to approve the terms of reference of the Bureau, Executive Committee, Standing Committees, Divisions, Sections, Commissions, and all other bodies of the Union as prescribed in the Statutes and Bylaws;	
S5.405	to determine every four years, beginning in 1963, the one language in which the official records of the meetings of the Council, Bureau, and Executive Committee shall be kept and published;	20
S5.406	to receive and consider reports (i) by the President on the state of the Union, (ii) by the Bureau, Executive Committee, Division and Section Presidents, and other bodies of the Union;	25
S5.407	to ratify decisions taken by the Bureau and Executive Committee between General Assemblies;	
S5.408	to consider and adopt or reject the accounts of the Union;	
S5.409	to examine and establish the budget of the Union for the next two financial years;	30
S5.410	to determine the date and place of General Assemblies;	
S5.411	to take such other actions as are required in the exercise of its authority under the Statutes and Bylaws.	
S5.5	The official text of a report shall be in the language in which the report has been presented by that body of the Union responsible for it.	35
S6	<u>Officers</u>	
S6.1	The Officers of the Union shall be the President, the Vice-President, the Secretary General, and the Treasurer, and they shall be elected at a regular meeting of the Council.	40
S6.21	The President shall hold office for two years and shall not be re-elected.	
S6.22	The President is the administrative head of the Union. He shall preside at the meetings of the Council, of the Bureau, and of the Executive Committee. He or his deputy shall be ex officio a member	45

of all bodies of the Union. He may delegate his powers as chief representative of the Union and to preside at meetings to the Vice-President, to another Officer of the Union, or to an Elected Member of the Bureau. When neither the President nor the Vice-President is able to perform the functions of the office of President, the immediate Past-President or in his absence an Elected Member of the Bureau chosen by the Bureau shall assume temporarily the office of President.

36.23 The President shall submit to each regular meeting of the Council a report on the general state of the Union. 10

S6.31 The Vice-President, designated as President-Elect, shall become President of the Union at the close of the next regular Council meeting.

S6.32 The Vice-President shall assume the office of President in the event of the President being unable to perform the functions of that office, without prejudice to his forthcoming period of office as President. 15

S6.41 The Secretary General shall carry out the business of the Union as specified by the Council, by the Bureau, by the Executive Committee, or by the President, and be responsible for keeping its records and for the administration of the Secretariat. 20

S6.42 The Secretary General shall be elected for four years and be eligible for reelection up to a maximum of a further four years.

S6.51 The Treasurer shall be responsible for the accounts of the Union, shall prepare a budget for approval of the Bureau and the Council, shall approve expenditures from the funds of the Union, and, subject to the approval of the Executive Committee, shall be responsible for the investment and custody of the funds of the Union. He shall ensure that an appropriate record of all financial authorities and transactions is maintained. 25 30

S6.52 The Treasurer shall be elected for four years and be eligible for reelection up to a maximum of a further four years.

S6.6 To assist in the administration of the business of the Union there shall be appointed an Executive Secretary responsible to the President and Executive Committee (Bureau, Council) through the Secretary General and the Treasurer. 35

S7 Bureau

S7.1 The Council shall establish a Bureau to act for the Union during intervals between meetings of the Council, except on matters specifically excluded from its delegated authority. The Bureau shall normally meet once a year and at other times when the President considers it to be desirable. In a year when the General Assembly meets, a meeting of the Bureau shall take place during the General Assembly. 40

S7.2 The Bureau shall consist of the President, the Vice-President, the Secretary General, the Treasurer, the immediate Past-President, and 45

Presidents of Divisions, Presidents of Sections,
together with not less than ten other members elected
by the Council who shall be known as Elected Members. The period of
service of these Elected Members of the Bureau shall be four years.
The periods of service shall be arranged in such a way as to ensure
continuity. These Elected Members are eligible for reelection to
the same office for one more period of four years. No President of
a Division or Section may be simultaneously an Elected Member of the Bureau.
No Adhering Organization shall have more than one Elected Member on
the Bureau, and the principle of fair geographical representation of
Members shall be taken into account. The Council shall specify those
bodies of the Union whose Chairmen shall be designated Ex Officio
Members of the Bureau; such Ex Officio Members shall have no voting
powers.

S7.3 In case of an emergency, which prevents the holding of elections,
the Officers of the Union, the Elected Members of the Bureau, and
the Presidents of the Divisions and Sections will continue to serve
until statutory elections can be held.

S7.4 The principal duties of the Bureau, subject always to the Statutes
and Bylaws, are:

S7.41 to ensure the strict observance of Statutes and Bylaws;
S7.42 to prepare the agenda for meetings of the Council and in particular
to make provision for elections;
S7.43 to consider the finances of the Union, its detailed accounts and
its budget, and to make recommendations thereon to the Council;
S7.44 to attend the meetings of the Council;
S7.45 to implement the decisions of the Council and execute the programme of
the Union as directed by the Council;
S7.46 to take steps to ensure that International Congresses of Pure and
Applied Chemistry are held;
S7.47 to take decisions about the holding of scientific meetings as
proposed by the Division and Section Committees;
S7.48 to take all other steps necessary for the good conduct of the
affairs of the Union.

S7.5 The Bureau may not elect Officers of the Union nor admit nor remove
Members of the Union, but it may fill temporarily vacancies among
the Officers pending the next regular meeting of the Council, when the
Council shall fill such vacancies.

S7.6 The Bureau may fill casual vacancies in accordance with Statute 4.2.

S8 Executive Committee

S8.1 The Bureau shall establish an Executive Committee to act for it in
ensuring an orderly discharge of the functions of the Union. The
Executive Committee may formulate standing orders to facilitate
its discharge of the foregoing functions.

S8.2 The Executive Committee shall be limited to eight members and shall
include the President, the Vice-President, the Secretary General,
the Treasurer, and the immediate Past-President. The other members
shall be elected by the Bureau from among its Elected Members; the
ballot shall be written and secret and the Elected Members obtaining

the most votes recorded shall be elected. Such ballots shall be conducted in accordance with a procedure to be determined by the Bureau. The period of service of an elected Member shall be four years or until the end of his term as a Bureau Member, whichever is the shorter. They are eligible for reelection to the same office for one more period of four years. Their terms of office shall be arranged such as to ensure continuity.

S8.3 The Council shall establish Standing Committees to advise the President and the Executive Committee; such bodies shall include a Finance Committee, Publications Committee, Statutes and Bylaws Committee.

S9 Finance

S9.1 Each Adhering Organization shall pay an annual subscription to the Union in accordance with its category of membership before 31 December in each year. The minimum amounts of these annual subscriptions for each category shall be decided from time to time by the Council.

S9.2 Any Adhering Organization in arrears with its subscription for one year shall be warned, shall be deprived of its voting rights, and all publications of the Union shall be withheld from it. Any Adhering Organization in arrears for two years shall automatically cease to be a Member of the Union.

S9.3 Any Adhering Organization which shall withdraw (see also Statute 3.4) or cease for any reason to be a Member of the Union shall forfeit claims upon the funds of the Union.

S9.41 In addition to the annual subscriptions, the Union may receive financial contributions from other sources, such as gifts, bequests, and legacies. The Executive Committee may set up any auxiliary bodies to the Union which will enable such financial contributions to be received.

S9.42 None of the constituent bodies of the Union (e.g., a Division) may solicit funds for Union purposes from organizations other than the Union until the specific approval of the Bureau of the Union has been obtained. The disposal of any such funds shall only be with the approval of the Bureau.

S9.5 Any expenditure from the funds of the Union shall require authorization from the Treasurer, acting on behalf of the Bureau. The Treasurer may delegate to the Executive Secretary the expenditure of limited amounts from the funds of the Union.

S10 Divisions, Sections, and Commissions

S10.1 The scientific work of the Union shall be undertaken by the Divisions and Sections which shall be responsible to the Bureau and which shall represent within the Union the branches of chemistry indicated by their divisional or section titles, and by such other bodies as are appointed by the Council.

S10.2 Divisions and Sections may be created and existing ones may be dissolved or modified by the Council. The first Members of Division and Section Committees shall be appointed by the Council.

- S10.3 The procedures of each Division and Section shall be governed by the Bylaws but a Division and Section may also adopt rules which shall be in accord with the general policy of the Union, its Statutes and Bylaws, and shall be subject to the approval of the Council. 1
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- S10.4 Each Division and Section may include Commissions as approved by the Council.
- S10.5 Joint Commissions between Divisions and/or Sections of the Union or joint Commissions between the Union and other international scientific bodies may be attached to one of the Divisions or Sections or to the Bureau of the Union as decided by the Council. Rules for such joint bodies shall if necessary be set up by the Division or Section Committee or by the Bureau, as the Bureau shall decide. 10
- S10.6 A Division or Section Committee may appoint such subcommittees as are appropriate to the work of the Division or Section and its Commissions. 15
- S11 Associated Organizations
- The Council may decide to associate with existing international organizations whose aims and activities are in harmony with those of the Union; these organizations shall then be known as Associated Organizations of the Union. 20
- S12 Company Associates
- Organizations such as industrial companies, research and development institutions and laboratories, scientific societies, or any other bodies interested in the activities of the Union may become associated with it as Company Associates. The conditions under which such association shall occur or continue, including the determination of the minimum amount of annual subscription or donation, shall be decided by the Council on the recommendation of the Bureau. 25
- S13 Congress and Other Scientific Meetings 30
- S13.1 At suitable intervals International Congresses of Pure and Applied Chemistry shall be organized under the auspices of the Union. These Congresses shall comprise one or more branches of chemistry represented by the Divisions and Sections of the Union. The Council shall approve the scope of each Congress on the recommendation of the host country, with a view to achieving, by suitable rotation, the coverage of all branches of pure and applied chemistry. The Council shall also decide upon the place and date of the Congress. The arrangements for such a Congress shall be entrusted to a committee set up in the host country. This committee shall cooperate with the Bureau, the Officers of the Union, and the appropriate Division and Section Committees. 35
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- S13.2 Cooperation of the Union in the organization of a Congress shall not involve the Union in financial responsibility.

S13.3	The Council may organize other scientific meetings or may offer the collaboration of the Union in the planning and arrangement of scientific meetings initiated by other organizations.	1
S14	<u>Adoption, Changes, and Interpretation of Statutes</u>	
S14.1	The Statutes shall take effect immediately after their adoption by the Council.	5
S14.2	The English text of the Statutes shall be used exclusively as the authorized text for the interpretation of the Articles of the Statutes and Bylaws, but the Council may approve the issue by the Union of versions in other languages.	10
S14.3	Changes in the Statutes may be proposed by the Bureau or any Adhering Organization. Notice of changes so proposed shall reach the Secretary General at the Secretariat in writing at least ten months before the meeting of the Council at which the proposal is to be considered. No change shall be made except at a meeting of the Council and with the approval of two-thirds of the total number of votes assigned to the Adhering Organizations in Categories A, B, and C.	15
S14.4	In all cases where the Statutes are not clear or do not give a decision, the President's ruling shall be decisive.	
S15	<u>Duration</u>	20
	The Union shall not be dissolved except at a meeting of the Council convened specifically for this purpose by notice given three months in advance. At such a meeting more than three-quarters of the maximum possible number of votes of the Adhering Organizations must be represented and cast, and two-thirds of the votes recorded shall be required for dissolution. If three-quarters of the maximum possible number of votes are not represented, the Council shall be convened again after a period of at least six months and at this second meeting the Union may be dissolved if the proposal for dissolution receives two-thirds of the votes recorded. In the case of dissolution of the Union, the Council shall appoint three trustees to carry out the liquidation of the assets of the Union. The net assets shall be transferred to one or more international scientific organizations.	25 30

B1 Membership (cf. Statute 3)

A request of a country for admission to the Union shall be considered by the Council at its next regular meeting if it has been received in writing by the Secretary General at the Secretariat at least six months before that meeting, together with the appropriate documentation. When the admission of a new Member has been approved by the Council, membership shall begin on 1 January of the following year.

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B2 Voting Procedure in Council (cf. Statute 5)

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B2.1 Scientific Matters

B2.11 Recommendations of a scientific nature received from Divisions, Sections, or other bodies of the Union, shall normally be submitted for consideration by the Council. The Council may adopt them by a simple majority of personal votes cast by the Delegates present at a regular meeting. Between such meetings the Bureau may act on behalf of the Council in these matters.

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When the recommendations are matters for international agreement in nomenclature, symbols, terminology, and conventions, they shall be considered by the Bureau which may adopt them provisionally. The recommendations shall then be published and the submission of comments be invited within eight months to the appropriate body of the Union which made the recommendations. After considering any comments the recommendations, appropriately amended if necessary, shall be sent to the Council for adoption at a regular meeting.

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B2.12 Postal ballots on scientific matters may be conducted in accordance with a procedure to be determined by the Bureau for each ballot.

B2.2 Nonscientific Matters

Voting on nonscientific matters shall be by delegations, each delegation being entitled to cast a number of votes equal to the number of Delegates its Adhering Organization is entitled to appoint according to the category to which it belongs. All the votes to which the Adhering Organization is entitled shall be cast in the same sense.

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The following requirements shall have effect:

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B2.21 Admission and Removal of Members

Admission of Members and assignments from one category to another shall be by a simple majority of votes recorded at a regular meeting of the Council. Removal of an Adhering Organization shall be valid only if at least three-quarters of the votes recorded at a regular meeting of the Council are cast in favour of such removal. Any reassignment approved by the Council shall become effective on 1 January of the following year.

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B2.22 Elections

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For election of Officers of the Union and Elected Members of the Bureau the following rules shall apply:

B2.221 Nominations may be made by the Adhering Organizations. These nominations must be received in writing by the Secretary General at the Secretariat at least two months before the beginning of the meeting of the Council at which the elections will take place. They must indicate clearly the position for which each candidate is nominated and shall be accompanied by a biographical note on each candidate.

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B2.222 The Bureau shall discuss the nominations made by the Adhering Organizations at a meeting prior to the meeting of Council at which the elections are to take place. It has the right to make additional nominations for which information shall be provided. When the number of nominations exceeds the number of vacancies, the Bureau shall make recommendations to the Council for filling the vacancies. These recommendations are not binding on the Council.

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The Officers of the Union and the Elected Members of the Bureau, as defined by the Statutes, shall be elected at a regular meeting of the Council by a written and secret ballot, a simple majority of the votes recorded being required for election. The election for each Officer shall be held separately. If no nominee receives a majority on the first ballot, the nominee receiving the smallest number of votes shall be eliminated on the next ballot and successive ballots shall be held until a nominee receives a simple majority of the votes recorded or there are only two nominees on which to vote. If two nominees get an equal number of votes, the Presiding Officer, after consultation with the Executive Committee, shall cast the deciding vote.

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For the election of Elected Members of the Bureau, the nominees receiving the highest number of votes shall be elected to the vacancies provided that the number of votes cast for each such nominee shall be a majority of the total votes cast. If fewer nominees than the vacancies receive a majority of votes cast, then those receiving the majority shall be declared elected and a second ballot conducted among the remaining nominees for the remaining vacancies. If, in this second ballot, no nominee receives a majority, the nominee receiving the smallest number of votes shall be eliminated on the next ballot and successive ballots conducted until all vacancies are filled. In each ballot, the number of names to be listed on ballot papers shall be no more and no less than the number of vacancies outstanding at the conclusion of the previous ballot.

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B.2.23 Other Nonscientific Matters

Proposals on other nonscientific matters, after consideration, may be adopted without a formal vote unless objections are raised, when a vote shall be taken. Unless specifically stipulated otherwise in the Statutes and Bylaws, a simple majority of the votes recorded shall be required for adoption.

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B2.24 Postal Ballots

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Postal ballots on nonscientific matters may be conducted in accordance with a procedure described below, each Adhering Organization being entitled to cast the number of votes equal to the number of Delegates it is entitled to appoint according to its category, provided always that decision on admission and removal of Members [(B2.21) above] and elections [(B2.22) above], the location of the official headquarters of the Union, changes in Statutes and Bylaws, and the dissolution of the Union are excluded from such postal ballots. Decisions reached by postal ballot on nonscientific matters shall be subject to ratification by the Council at its next meeting. In postal ballots on nonscientific matters only those votes shall be valid which are received within four months from the date of mailing of the request for voting. Action shall only be taken if more than one half of the maximum possible number of votes has been cast at that date. A simple majority of the votes cast shall be required for a decision.

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B2.25 Additions to Council Agenda

Matters to be considered at a meeting of the Council must appear on the agenda of that meeting, which shall be sent to the Adhering Organizations by registered mail at least four months before the meeting is to be held. However, in case of urgency, a question may be added to the agenda with the consent of at least three-quarters of the Delegates present at the meeting. Modification of the Statutes or Bylaws, admission or removal of Members, and elections of Officers or Elected Members of the Bureau, are excluded from this procedure.

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B3 General Assembly Report

After each General Assembly of the Union the Executive Secretary shall publish an official report (Comptes Rendus) of the General Assembly.

B4 Divisions, Sections, and Commissions (cf. Statute 10)

B4.1 Division and Section Committees

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B4.101 Each Division or Section shall be administered by a Division or Section Committee which shall be the organ of liaison between the Bureau on the one hand and the various bodies constituting the Division or Section on the other hand.

B4.102 The Members of a Division or Section Committee and the Titular and Associate Members of Commissions within a Division or Section shall together form the Membership of the Division or Section.

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B4.103 Members of each Division or Section Committee shall be elected by the Members of the Division or Section according to its rules and shall not exceed ten members, unless otherwise determined by the Bureau. No member of the Division or Section Committee except a member who is also the Secretary shall hold the same office for more than four consecutive years. The Secretary shall be eligible for reelection up to a maximum of a further four years. The sum of the years of service as an ordinary member and as President, Past-President, Vice-President, and Secretary of the Division or Section shall not exceed ten consecutive years.

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Subject to this provision the immediate Past-President of the Division or Section shall be one of the members of the Division or Section Committee for a period of two years. In addition to these members the President, Vice-President, Secretary General, and Treasurer shall be ex officio members of all Division and Section Committees. 1
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B4.104 The Division or Section Committee shall choose from among its members a President, a Vice-President designated as President-Elect, and a Secretary. These elections shall be subject to approval by the Council.

B4.105 The Division or Section Committee may form a Division or Section Executive Committee consisting of the President, the Vice-President designated as President-Elect, and the Secretary of the Division or Section, to carry out the necessary administrative duties between meetings of the Division or Section Committee. 10

B4.106 The functions of the Division or Section Committee shall be:

B4.1061 to propose to the Council through the Bureau the establishment of Commissions to be attached to it and to appoint the membership and the initial officers of these, the appointments having to be approved by the Council; 15

B4.1062 to propose to the Council through the Bureau the dissolution of existing Commissions when required; 20

B4.1063 to supervise the work of its Commissions and other bodies;

B4.1064 to plan and organize scientific meetings and other activities which are deemed useful in furthering the objects of the Division or Section.

B4.1065 to prepare annually a budget for the Division or Section in accordance with a procedure to be prescribed by the Treasurer, for consideration and approval by the Bureau and the Council; 25

B4.1066 to advise the Bureau for recommendation to the Council on scientific matters.

B4.107 The Division or Section Committee shall meet at least every two years, during a General Assembly. 30

B4.108 Decisions of the Division or Section Committee must receive the approval of the Bureau when they would have financial consequences involving the budget of the Union. In addition, in order to ensure the fullest coordination between the activities of all the Divisions and Sections the Secretary General at the Secretariat shall be informed of all other decisions taken by the Division and Section Committees. 35

B4.109 At a General Assembly the Division or Section President shall report to the Council on the activities of the Division or Section since the last General Assembly. In a year in which a General Assembly is not held the Division or Section President shall present to the Division or Section Committee and to the Bureau a written report on the activities of the Division or Section since the last General Assembly. 40

B4.110	Each Division and Section shall make provision for the conduct of the work of its Commissions and other bodies. Such provision, which must receive the approval of the Bureau, may be incorporated in Divisional or Sectional rules.	1
B4.12	Annual Meeting of Division and Sectional Presidents	5
	A Meeting of the Division and Section Presidents shall be held each year. At this meeting topics which are of interest for cooperation between the Divisions and Sections or between the Divisions and Sections on the one hand and the Council, the Bureau, and the Executive Committee on the other hand shall be discussed and the meeting may make recommendations to the Bureau.	10
	The meeting shall be presided over by one of the Division and Section Presidents elected for this task at the previous meeting. The Secretary General shall be invited to attend.	
B4.13	Commissions	15
B4.1301	On the recommendation of a Division or Section Committee, through the Bureau, the Council may create a Commission of the Division or Section; each Commission shall have as its object the study of topics of international scientific or technical significance requiring agreement, regularization, standardization, or codification in some aspect of pure or applied chemistry. The terms of reference of a new Commission shall be clearly described and approved by the Council. If a Division or Section Committee wishes to create a Commission, it must apply to the Bureau of the Union for the appointment of an ad hoc committee of three persons which shall study the question and then report back to the Bureau. This report, if favourable to the creation of a new body, shall contain an indication as to the probable duration of the life of the new body and an estimate of its annual cost.	20 25
B4.1302	At each General Assembly Council shall in the light of the Division or Section President's report and on the recommendation of the Bureau decide whether or not to continue each Commission.	30
B4.1303	Each scientific and technical Commission shall be composed entirely of specialists. They may consist of - Titular Members who alone shall have a valid vote, and - Associate Members whose number in any Commission should not normally exceed the number of Titular Members, and who have no voting rights except in the election of the Division or Section Committee.	35
	Each Commission shall elect from its Titular Members by a simple majority a Chairman, a Secretary, and, if desired, also a Vice-Chairman. These elections are subject to approval by the Bureau.	40
B4.1304	The membership of each new Commission is determined by the Council. Thereafter, both Titular Members and Associate Members may be nominated by the Commission but shall assume office only after approval by the Division or Section Committee and by the Bureau or Executive Committee. The terms of service of Titular Members and Associate Members shall be four years with the possibility of reelection for	45

two or four years in the same office, after which they shall not be re-eligible during a period of two years. The sum of the years of service as a Titular Member, including service as Chairman, Vice-Chairman, or Secretary, shall not exceed ten consecutive years. Any person who has served eight years as a Titular Member, whether consecutive or not, cannot be reappointed as a Titular Member without special permission of the Bureau. A Division or Section President may for exceptional reasons replace a Member of a Commission between General Assemblies by special permission of the Bureau.

The number of Titular Members of each Commission shall not exceed eight. The number of Associate Members of a Commission shall not normally exceed the number of Titular Members but, in exceptional circumstances, may be increased to twelve by a decision of the Bureau. Both Titular Members and Associate Members shall be authorities in the field covered by the Commission and shall be so recognized by their Adhering Organizations. Before submitting their names for election, the Chairman of the Commission shall explain to them their duties and they shall agree to undertake them if they are elected.

The choice of a Titular Member or an Associate Member by a Commission may take place either during a meeting of the Commission or by correspondence. The nomination shall then be submitted via the Division or Section Committee to the Secretary General at the Secretariat for approval by the Bureau or Executive Committee and by the Adhering Organization with which the nominee is connected. If approval by the latter be obtained or if no reply to the request for approval be received within four months, the Bureau or Executive Committee shall take a decision at its next meeting. In case of disapproval of the Adhering Organization, the nomination shall be considered by the Bureau.

B4.1305 Besides these two categories of Member the following may attend Commission meetings:

(a) National Representatives nominated by the various Adhering Organizations and approved by the Commission. A Commission may coopt not more than one such representative from any Adhering Organization. Such representation shall lapse at the conclusion of the next General Assembly unless the person is renominated by his Adhering Organization and reapproved by the Commission.

(b) Observers, who shall be persons desirous of becoming acquainted with the work of a Commission, may attend on the invitation of the Chairman of the Commission acting on the advice of the Division or Section President or Secretary General. Observers may not take part in the proceedings of a Commission unless specifically invited to do so by the Chairman.

The names of these National Representatives and Observers shall be communicated to the Secretary General by the Chairman of the Commission concerned.

B4.1306 The Division or Section President shall be ex officio a member of all the Commissions attached to his Division or Section.

B4.1307	Only Titular Members of Commissions have the right to receive contributions towards travel and subsistence expenses from funds of the Union as authorized by the Treasurer acting on behalf of the Union.	1
B4.1308	A Commission may propose to the Division or Section Committee the establishment of subcommittees with responsibility for designated functions within the scope of the Commission.	5
B4.1309	A meeting of a Commission can be financed only upon authorization of the Treasurer after recommendation by the appropriate Division or Section Committee.	10
B4.1310	The Chairman of a Commission shall each year present to his Division or Section Committee a written report on the activities of his Commission, outlining the results obtained and indicating any new work which is to be undertaken.	
B4.1311	The reports of Commissions shall be forwarded via the Division or Section Committee to the Bureau, and then submitted to the Council if required by Bylaw 2.11.	15
B5	<u>Associated Organizations</u> (cf. Statute 11)	
B5.1	The Bureau, having satisfied itself that the claims and activities of an organization seeking to become as Associated Organization of the Union are in accordance with Statute 11, may recommend acceptance to associate membership by the Council provided that	20
	(a) the period of existence of the applicant organization has been adequate to establish its stability and the quality of its activities;	25
	(b) the statutes and bylaws of the organization do not conflict with the Statutes and Bylaws;	
	(c) the activities of the organization neither duplicate nor are in conflict with the legitimate functions of the Union such as regulation, standardization, codification, or other matters of scientific importance.	30
B5.2	The Union shall invite Associated Organizations to send representatives to its General Assembly and to relevant meetings of IUPAC bodies when joint sponsorship of meetings or other joint activities may be discussed.	35
B5.3	The Union shall offer assistance in publicizing meetings of Associated Organizations.	
B5.4	The Union shall present to Associated Organizations such particulars as are decided by the Officers of the Union to be relevant to joint activities.	40
B5.5	The continuance of associate membership of an organization shall be reviewed by the Council at each General Assembly.	

B6	<u>Adoption, Changes, and Interpretation of Bylaws</u>	1
B6.1	The Bylaws shall take effect immediately after their adoption by the Council.	
B6.2	Changes in the Bylaws may be proposed by the Bureau or by any Adhering Organization. Notice of changes so proposed shall reach the Secretary General at the Secretariat in writing at least eight months before the meeting of the Council at which the proposal is to be considered. A change shall be made only if more than one-half of the total number of votes assigned to the Adhering Organizations in Categories A, B, and C.	5 10
B6.3	In all cases where the Bylaws are not clear or do not give a decision, the President's ruling shall be decisive.	