

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF LXXVI MEETING OF EXECUTIVE COMMITTEE

HELD AT HOLIDAY INN, MUNICH

ON

MONDAY, 27 AUGUST 1973, at 9.00

PRESENT:

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

IN ATTENDANCE

Dr. J. W. Barrett	- Chairman, Finance Committee (in part)
Prof. W. Klemm	- Official Representative of IUPAC to CODATA (in part)
Dr. R. E. Parker	- Federation of European Chemical Societies (in part)
Dr. M. Williams	- Executive Secretary

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Minute 25/73

INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

After his opening remarks, Prof. Bénard mentioned three extra Agenda items to be added to the listing in the file for the meeting:

5.3 Membership of Committee on Teaching of Chemistry

5.4 Membership of Interdivisional Committee on Machine Documentation in the Chemical Field

11.2 Participation of Arab Countries in IUPAC

It was agreed to consider revision of salaries of staff of the Secretariat at the end of the meeting and in the absence of the Executive Secretary.

Sir Harold Thompson found the Roman numeral designations for meetings of the Executive Committee, Bureau, and Council confusing. He asked for this policy to be reconsidered.

Minute 26/73

MINUTES OF LXXV EXECUTIVE COMMITTEE MEETING AND MATTERS ARISING

26.1/73 Amendments and Approval of Minutes

The minutes of the previous meeting of the Executive Committee were approved.

26.2/73 Matters Arising from Minutes

26.2.1/73 Statement of Accounts for 1972 (Minute 4/73)

In considering the preliminary Statement of Accounts for 1972, Mr. Arnold had asked the Treasurer to ascertain why no book value at cost price was included for two items in the Securities Account. The IUPAC Banker, Schweizerische Bankgesellschaft, had subsequently advised that the shares in question had been received free of charge as bonus or as stock dividends. Therefore, there was no cost price.

26.2.2/73 German Translation of Nomenclature of Organic Chemistry (Minute 15.2/73)

Dr. W. Fritsche (DZCh) had requested Verein zur Förderung des Chemiestudiums eV in Stuttgart to declare in a legally binding document that:

- (i) the note relating to copyright as contained in the German translation was null and void;
- (ii) no further copies of the translation in addition to the 200 produced originally would be produced;
- (iii) VFC undertook not to distribute the 200 copies originally translated to anyone but chemistry students enrolled at University of Stuttgart.

In its reply, VFC mentioned that 175 of the 200 copies had been distributed exclusively to members of University of Stuttgart, and it was not intended to produce an additional edition.

The Executive Committee decided to consider the matter as closed.

26.2.3/73 Collaboration with ISO (Minute 10.3/73)

Prof. Bénard reported briefly on a meeting with Dr. N. N. Chopra, Director for Technical Coordination of ISO, on 21 August 1973 in Munich. Agreement had been reached to consolidate and extend the present mechanism of collaboration between the two organizations. For main policy matters, such as the need for establishment of liaison between IUPAC and a new ISO Technical Committee, Dr. Chopra would act for the Secretary General of ISO. Relevant documentation would be passed to the IUPAC Secretariat for consideration by the Secretary General of the Union. The possibility was under consideration of including a statement of IUPAC approval on an ISO International Standard for which the Union had commented at the draft stage. Proposals on how to deal with this matter would be brought before the Bureau by the Analytical Chemistry Division Committee.

Minute 27/73

ITEMS FROM AGENDAS OF XXXI BUREAU AND XXVII COUNCIL MEETINGS REQUIRING DISCUSSION, RESOLUTION, OR RECOMMENDATION BY EXECUTIVE COMMITTEE

The following Items from the Agenda of the XXVII Council Meeting were considered:

3. Announcement of Nominations for Officers and Bureau Members

Vice-President. It was decided that Dr. R. W. Cairns (USA) would be the Executive Committee's recommendation to the Bureau for filling the Office of Vice-President.

Elected Members of the Bureau. It was Resolved:

- that the Executive Committee recommends to the Bureau
- (i) there be 12 Elected Members of the Bureau for the period 1973-5 (Statute 7.2);
 - (ii) the procedure for election of Elected Members of the Bureau be that adopted at Cortina d'Ampezzo in 1969 (Appendix A, LXV/EC) and Washington in 1971.

Dr. Rees suggested the following as guidelines in consideration of the 11 candidates:

- (i) scientific standing;
- (ii) previous experience of IUPAC activities;
- (iii) principle of fair geographical distribution (Statute 7.2).

From a geographical point of view, Mr. Arnold stressed the need for there to be a Bureau Member from South America. The Executive Committee agreed provisionally to support a candidate in 1975. Sir Harold Thompson reported that the Finance Committee (Minute 25.1/73, Munich) sympathized with the suggestion for IUPAC, from time to time, to meet the costs of bringing a Delegate to the biennial Council meeting from a country with no Titular Member on any IUPAC body.

It was decided that the Executive Committee's recommendation to the Bureau for filling the 8 vacancies would be the 5 candidates nominated for reelection for a further period of 4 years [Mr. P. M. Arnold (USA), Prof. V. Herout (Czechoslovakia), Prof. S. Rangaswami (India), Prof. G. Smets (Belgium), Prof. H. Suomalainen (Finland)] plus Prof. Sir Derek Barton (UK), Prof. A. R. H. Cole (Australia), and Prof. O. Glemser (Germany).

10. Tentative Budgets for 1974 and 1975. (Dr. J. W. Barrett in attendance). Dr. Barrett said that whilst appreciating it was advisory in nature and should not attempt to generate policy, the Finance Committee firmly believed that it could not effectively discharge its responsibilities for investments and for advice on short and long term financial matters without a full understanding of IUPAC policy and changes therein.

It was the policy of the Finance Committee to try and achieve a financial balance, and preferably a surplus, for each biennium. Forward budgeting for 1973-4 and 1975-6, however, showed a worsening deficit. Obviously, the Union needed a positive programme to attract more income from government and industry in order to extend and invigorate IUPAC activities.

On behalf of the Finance Committee (Minute 21/73, Munich), Dr. Barrett presented modifications to the 1974 IUPAC Budget (as of 31 July 1973), which should yield a surplus of \$15,836 for the year. The Executive Committee decided only to impose limits of expenditure by IUPAC bodies to save \$8,000 instead of the \$20,196 advocated by the Finance Committee. It was hoped that a new scheme for subscriptions from National Adhering Organizations would be introduced in 1974, and bring in extra income.

Because Comptes Rendus XXVII Conference would be issued in 1974, the Finance Committee recommended that only two Information Bulletins should be published that year. Sir Harold Thompson supported the recommendation, and the Executive Committee Resolved:

that, in future, there should be two Information Bulletins and a Comptes Rendus in a non-Conference year, and three Bulletins in a Conference year.

Also, Dr. Barrett presented some modifications to the 1975 IUPAC Budget (as of 31 July 1973). The modified Budget was accepted by the Executive Committee except, at the suggestion of Sir Harold Thompson, the estimate for royalties from Butterworths should be reduced by \$3,000 to \$42,000.

11. Dues Structure and fixing Annual Dues for 1974 and 1975 (Dr. J. W. Barrett in attendance). Dr. Barrett referred to his memorandum of 10 August 1973 and the consideration of it by the Finance Committee in Munich (Minute 25.1/73). After an extended discussion, the Executive Committee decided unanimously to recommend that the basic unit of subscription should be raised in 1974 to \$550 (Scheme III), with minimum subscriptions set specially at \$800 for Category C and \$50,000 for Category A3. Schemes I and II should not be presented to Council, whose attention should be drawn to the fact that there had been no real increase in national subscriptions since 1961.

The Executive Committee agreed with the Finance Committee that even further income would be needed to extend and invigorate IUPAC activities. Prof. Bénard and Sir Harold Thompson felt it might become necessary to utilize some of the Union's financial reserves for these purposes. There was support for the view of Dr. Rees that new programmes should be in accordance with the statutory objects of the Union: matters like aid to developing countries were a governmental responsibility and beyond the scope of IUPAC.

Following a request from Prof. Emanuel for information, Mr. Arnold elaborated on the sources for chemical turnover data used as the basis of the theoretical membership categories for countries in the subscription scheme approved by Council in 1971. Prof. Emanuel promised to try and ensure that USSR moved into its theoretical category of A2.

Mr. Arnold pointed out that fluctuations during the past 2 years in the exchange rate of the US-dollar had given rise to grave consequences for the finances of IUPAC. He suggested that the Finance Committee should follow closely the contemplated future action of the International Air Transport Association in this respect.

16. Period of Office of IUPAC Treasurer (Dr. J. W. Barrett in attendance). Dr. Barrett reported the recommendation of the Finance Committee (Minute 18/73, Munich) that, because no statutory change appeared to be necessary, the Bureau (Executive Committee) should ask Council in Munich to approve a change in present practice, so that the period of Office of the Treasurer should commence 1st January in the year after his election at the biennial Conference. This would greatly facilitate a smooth transfer of responsibilities and full effectiveness from the date he took Office.

Dr. Rees pointed out that because the Treasurer was a Member of the Bureau, the general terms of Statute 4.2 applied to that Office, i.e., it shall begin and end at the end of a Conference. Therefore, the recommendation of the Finance Committee (and proposal from the German National Adhering Organization) would require a change in the Statutes. This point of view was approved by Prof. Bénard and it was noted for consideration by the Executive Committee during the revision of Statutes (see Minute 34/73, LXXVI/EC).

Dr. Barrett asked permission to raise another matter before he left the meeting. In order to avoid undue difficulties in future, the Finance Committee requested that clause (iv) of Composition and Terms of Office of its Standing Orders be revised to read

"The President, in consultation with the Executive Committee, shall review the membership every two years and make changes to ensure continuity and effectiveness."

9. Applications for Associated Organization Status

Association of Official Analytical Chemists. It was now clear that, from 1970, AOAC had made provision for appropriate government officials in any country to apply for active membership (cf. Minute 13.2/73, LXXV/EC). Therefore, the Bureau would be requested to recommend that Council in Munich should accept the application from AOAC.

International Association of Geochemistry and Cosmochemistry. A firm application had now been received from the Association. In view of its previous deliberations (Minute 13.5/73, LXXV/EC), the Executive Committee decided to ask the Bureau to recommend to Council in Munich that the application should be approved.

Groupe pour l'Avancement des Méthodes Spectroscopiques et Physico-Chimiques d'Analyse. A late application had been submitted by GAMS. consideration was deferred pending the advice of the Commission on Molecular Structure and Spectroscopy and Commission on Spectrochemical and Other Optical Procedures for Analysis via their respective Division Presidents.

21. Ratification of Dates and Place of XXVIII Conference and XXV Congress. Invitations had been received to hold the XXVIII Conference (1975) in Hungary, Israel, and Spain. A report was considered from the Assistant Secretary, Mr. Ratcliffe, who had recently visited the three countries to discuss possible arrangements for locating

the Conference there. The Executive Secretary stressed that the assembled data assumed that the level of accommodating Conference would be similar to that in Washington (1971) and in Munich (1973).

The conclusion of the report that, on basic financial grounds, Spain offered the best location was accepted by the Executive Committee. In addition, no major meeting of IUPAC had been held there for some time. For reasons which most people regarded as fundamental, Palma was rejected as a meeting place. It was agreed that further data should be collected on Barcelona and Madrid, especially regarding the use of university-type meeting rooms (e.g. Institutes of Consejo Superior de Investigaciones Científicas) and university hostel accommodation and the costs of nonluxury class hotels.

Minute 28/73

IUPAC REPRESENTATIVES ON OTHER ORGANIZATIONS

28.1/73 Federation of European Chemical Societies (Dr. R. E. Parker in attendance)

The Executive Committee had decided that it would be necessary to obtain further information concerning the problem of the Federation of European Chemical Societies (FECS) in order to determine future policy on this matter, and for this purpose invited Dr. Parker for an exchange of views. After this meeting it was decided that the cooperation of IUPAC with FECS should be continued, in the hope that every effort would be made to avoid duplication of activities. This result should be achieved by increased communication among the various bodies of the two organizations involved in similar or related problems.

28.2/73 CODATA (Prof. W. Klemm in attendance)

Prof. Klemm reported that, following the request of some organizations in biology and geology and of the Officers of ICSU, CODATA had decided it was ready to include biological and earth sciences in its activities. A revised constitution with wider terms of reference had been drafted for consideration of the VIII General Assembly of CODATA (Stockholm, September 1973). Regarding the UNISIST programme, UNESCO would be happy if CODATA could cover the whole field of data compilation. Prof. Klemm stressed that the concern of IUPAC at extension of CODATA operations (Minute 10.1/73, LXXV/EC) was too late: the resolution had been taken by ICSU in 1972 (XIV General Assembly, Helsinki).

Dr. Rees pointed out that there was no opportunity for him, as the official representative of IUPAC in Helsinki, to comment on the resolution to extend CODATA operations, which he believed might have grave financial consequences. He asked Prof. Klemm to inform CODATA in Stockholm that the official attitude of IUPAC was for CODATA to restrict itself to critical evaluation of existing physicochemical data. The Executive Committee was against the proposed wider terms of reference for CODATA.

Prof. Klemm said it was important for IUPAC to generate more interest and activity in CODATA work. In the case of such large IUPAC data projects as those on stability constants and solubility, the Union should try and provide some financial assistance.

Minute 29/73

TERMS OF REFERENCE OF STANDING COMMITTEES

29.1/73 Committee on SCOPE

Concerning the revised draft Standing Orders of the Executive Committee, the Committee on Statutes and Bylaws had suggested the introduction of a clause calling for review of membership, by the President in consultation with the Executive Committee say, every two years. Dr. Rees proposed that the review should be undertaken by the incoming President and be extended to all Standing Committees. This would solve the difficulties of the Finance Committee (Minute 27.16/73, page 4). It was left for the new Executive Committee to decide if a general membership review clause should be adopted for all Standing Committees. Subject to this decision, the Standing Orders regarding the Committee on SCOPE (Appendix A) were given final approval by the Executive Committee. Irrespective of the decision on membership review, it was agreed to delete clause (iv) of Composition and Terms of Office of the Standing Orders regarding the Finance Committee.

29.2/73 Interdivisional Committee on Machine Documentation in the Chemical Field

The Committee on Statutes and Bylaws had suggested insertion of "ordinary" before "Members" in clause (iii) of Composition and Terms of Office, and to change "a Member" to "an ordinary Member" in clause (v). These suggestions were not accepted and the Standing Orders regarding the Interdivisional Committee on Machine Documentation in the Chemical Field (Appendix B) were given final approval by the Executive Committee in unchanged form.

29.3/73 Membership of Committee on Teaching of Chemistry

In accordance with the Standing Orders of the Executive Committee regarding the Committee on Teaching of Chemistry, its Chairman, Prof. R. W. Parry, had decided that Prof. M. Oki and Prof. G. M. Schwab should be the two Foundation Members to retire in 1973. Prof. Parry had submitted a list of persons suitably qualified for appointment as replacement Members. It was left for the incoming President and new Executive Committee to consider the listed persons.

29.4/73 Membership of Interdivisional Committee on Machine Documentation in the Chemical Field

Prof. Bénard reported that an attempt to appoint a replacement for Dr. R. N. Jones, by correspondence prior to the Munich Conference, had been abandoned. Proposals had now been submitted by Prof. J. E. Dubois, Chairman of the Interdivisional Committee, of persons suitably qualified to replace Dr. Jones and also Dr. J. W. Barrett, who had tendered his resignation in Munich. It was left for the incoming President and new Executive Committee to consider the proposals. The Executive Secretary was requested to invite Prof. Dubois to report briefly to the Bureau on 28 August about the activities of the Interdivisional Committee.

Minute 30/73

POLICY FOR FULFILMENT OF CONTRACT WORK

At the recommendation of the Executive Committee (Minute 18/73, LXXV/EC), the Executive Secretary had drafted a cost evaluation of the CEE contract work for 1972. It had proved difficult, however, to make retrospectively any accurate evaluation of expenses incurred by the Secretariat. Sir Harold Thompson said that IUPAC should anticipate, sooner or later, a request from CEE to account for how the contract money was spent each year (cf. UNESCO contracts with Committee on Teaching of Chemistry). With this in mind and also as a basis for seeking increased contract money from CEE, Dr. Williams was asked to try and evaluate the cost contribution of the Secretariat.

Minute 31/73

PAYMENT OF EXPENSES

The present policy (Minute 34/72, LXXIV/EC, page 4; Minute 4.2/72, XXX/B), which permitted the per diem allowance to be claimed at an IUPAC meeting in cash of any national currency, was reviewed by the Executive Committee.

It was Resolved that the following general directives would govern the repayment of travel expenses and payment of daily subsistence for future IUPAC meetings:

- (i) Conference (and large meetings such as the Bureau): per diem allowance to be paid at the meeting in cash in the local currency; in exceptional circumstances, such as a meeting in an East European country, the allowance to be paid in advance by cheque in a person's national currency or in US-dollars.
- (ii) Non-Conference Meetings: per diem allowance to be paid in advance of the meeting by cheque in a person's national currency or in US-dollars.
- (iii) Travel: to be reimbursed by cheque in a person's national currency or at the meeting in cash in local currency.
- (iv) Amendment of Claim Form: any amendment to a claim form made after submission to the Secretariat, to be notified to the person in advance of the meeting.

After some discussion the Executive Committee concluded that no general policy could be decided in advance of a meeting in a country for which the exchange rate was fluctuating rapidly.

The claim form should be revised in terms of the new directives. It should always state a deadline for return to the Secretariat if repayment was to be made by the meeting. The Secretariat should state on each claim form the budget item against which it should be placed.

Minute 32/73

ROLE OF NATIONAL COMMITTEES FOR IUPAC

Dr. Gallay's recent hospitalization had prevented preparations of a revised memorandum (Minute 13.2/72, XXX/B). The matter was deferred for

consideration by the Executive Committee in 1974. Meanwhile, the Executive Secretary was asked to provide Dr. Galloway with details of those member countries which had National Committees.

Minute 33/73

PUBLICATIONS

33.1/73 History of IUPAC by Prof. S. Veibel

Prof. Veibel had now completed his historical survey of the first 50 years of IUPAC (491 pages). Before finalizing the manuscript he hoped to study the archives at the Secretariat. The Executive Committee reaffirmed its previous conviction (Minute 20.1/72, LXXIII/EC) that, whilst publication was not feasible in the present form, the manuscript might provide the basis from which a shorter document could eventually be prepared.

33.2/73 Resource Book on Selected Topics of Colloid and Surface Chemistry

The advice of the Committee on Teaching of Chemistry:

- (i) IUPAC should encourage this type of book project only if it could be undertaken without the use of any IUPAC resources other than those allocated normally for a Commission
- (ii) IUPAC should not publish such books under the official contract with Messrs. Butterworths

was accepted by the Executive Committee. It was agreed to waive the Union's right of publication and leave the Commission on Colloid and Surface Chemistry free to approach a commercial publisher.

33.3/73 Thermodynamic Tables Project

The first royalties from publication of Argon 1971 had been received earlier in 1973, and the possibility of IUPAC making a financial contribution to the Project Centre (Minute 11.1.5/72, XXX/B) was discussed. Sir Harold Thompson was concerned about establishing a precedent for IUPAC publications. He reported that the Committee on Publications had registered its opposition to such action (Minute 2/73, Munich). The Executive Committee agreed that the Union should offer to pay to OSTI 80% of the 1972 royalties, without prejudice to any future commitment.

33.4/73 "IUPAC: Aims, Structure and Mechanism"

The Executive Secretary reported that the article had been published so far in full or in abbreviated form in 20 national chemistry journals. Efforts were being made to ensure publication in other member countries of the Union. The Executive Committee decided not to update the article at present, nor to print further copies for distribution at symposia sponsored by IUPAC in 1974.

Dr. Williams also reported on progress in distributing items of IUPAC news for publication in national chemistry news journals. The news was being sent currently to 31 member countries; journals were under negotiation in 9 other countries; and no progress had been made for 4 countries.

33.5/73 Trace Analysis Applicable to Determination of Minor Impurities in Chemicals - I: General Survey

This report from the Commission on Microchemical Techniques and Trace Analysis had been approved by the Analytical Chemistry Division Committee. In his capacity as Chairman of the Committee on Publications, Sir Harold Thompson had recommended that it be published in Pure and Applied Chemistry. The recommendation was accepted by the Executive Committee.

Minute 34 /73

REVIEW OF STATUTES

Prof. Bénard reported briefly on his meeting with the Chairman of the Committee on Statutes and Bylaws, Sir David Martin (15 May 1973, London). The suggestions for revisions to the Statutes had been divided into:

- (i) Matters simply requiring changes of wording
- (ii) Matters requiring policy decisions.

Proposals for changes in wording under (i) had been drawn up by Sir David Martin and the Executive Secretary, and these would be considered by the Committee on Statutes and Bylaws in Munich. Matters under (ii) would be discussed by the Executive Committee in conjunction with its meeting early in 1974. The recommendations arising therefrom would be drafted into the Statutes by the Committee on Statutes and Bylaws at a meeting in April 1974. The complete draft revision of Statutes could then be brought before the Bureau later in 1974, and circulated subsequently to the National Adhering Organizations ten months before the XXVIII IUPAC Conference (1975).

The envisaged schedule of actions was approved by the Executive Committee. It was agreed that Dr. Rees could submit to the Executive Committee in writing his comments on matters under (ii).

Minute 35/73

ANY OTHER BUSINESS

35.1/73 International Organization for Crystal Growth (IOCG)

It had now been proposed that IOCG should become a Commission under the joint sponsorship of IUCr, IUPAC, and IUPAP. In principle, the Executive Committee was in favour of investigating the creation of an Inter-Union Commission. Prof. R. Collongues should continue to act as the liaison representative of IUPAC (Minute 10.10/73, LXXV/EC).

35.2/73 Participation of Arab Countries in IUPAC

A letter dated 7 August 1973 from the Arab Educational, Cultural and Scientific Organization was noted with interest by the Executive Committee.

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The Meeting closed at 18.30

CHAIRMAN *H. Thompson*
DATE *March 15, 1974*

STANDING ORDERS OF EXECUTIVE COMMITTEE
REGARDING COMMITTEE ON SCOPE

Composition and Terms of Office

- (i) There shall be a standing Committee for SCOPE composed of a Chairman and not more than seven other Members.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Committee for SCOPE may propose names of persons suitably qualified for appointment.
- (iii) The maximum period of service of Members shall be eight years.
- (iv) The President, in consultation with the Executive Committee, shall appoint the Chairman. The Committee for SCOPE may propose candidates.
- (v) The Chairman of the Committee for SCOPE shall be the official representative of IUPAC on SCOPE. The period of service of the Chairman shall not exceed eight years. The sum of the years of service as a Member and as Chairman shall not exceed ten years.

Terms of Reference

- (i) To advise the President and Executive Committee on the programmes and policies of SCOPE.
- (ii) Subject to the prior approval of the President and/or the Executive Committee, to carry out assignments agreed upon with SCOPE and to assist SCOPE generally in its activities.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING
INTERDIVISIONAL COMMITTEE ON MACHINE DOCUMENTATION
IN THE CHEMICAL FIELD

Composition and Terms of Office

- (i) There shall be a standing Interdivisional Committee on Machine Documentation in the Chemical Field composed of a Chairman, a Secretary, and six other Members. It shall have representatives who are directly involved in editorial programmes, especially primary and secondary publications.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Interdivisional Committee may propose names of persons suitably qualified for appointment.
- (iii) The maximum period of service of Members shall be eight years.
- (iv) The President in consultation with the Executive Committee shall appoint the Chairman and the Secretary. The Interdivisional Committee may propose candidates.
- (v) The period of service of the Chairman and the Secretary shall not exceed eight years. The sum of the years of service as a Member and as Chairman or Secretary shall not exceed ten years.

Terms of Reference

- (i) To advise the President and Executive Committee on machine documentation matters in the chemical field.
- (ii) Subject to the prior approval of the President and/or the Executive Committee, to work on methods for standardization and codification in the machine documentation field. The first task shall be directed towards the machine handling of chemical structures and the computer generation of nomenclature in consultation with the relevant IUPAC Commissions.