

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 81st MEETING OF EXECUTIVE COMMITTEE

HELD AT FONDATION UNIVERSITAIRE, BRUSSELS

ON

FRIDAY, 30 AUGUST 1974, at 9.00

PRESENT:

Prof. Sir Harold Thompson - President, in the Chair

Dr. R. W. Cairns - Vice-President

Dr. W. Galloway - Secretary General

Prof. O. Horn - Treasurer

Mr. P. M. Arnold

Prof. N. M. Emanuel

Prof. G. Smets

ABSENT:

Prof. J. Bénard - Past-President

IN ATTENDANCE:

Dr. M. Williams - Executive Secretary

I N D E X

<u>Minute</u>		<u>Page</u>
24/74	Introductory Remarks and Finalization of Agenda	1
25/74	Minutes of LXXX Meeting of Executive Committee	1
26/74	Minutes of Meetings of Standing Committees	2
27/74	Items from Agenda of 33rd Meeting of Bureau requiring Discussion, Resolution, or Recommendation by Executive Committee	3
28/74	Committee on Teaching of Chemistry: Financial Support and Membership	7
29/74	Proposals for Financial Support from Trusts and Foundations	7
30/74	Relations with Other Organizations	7
31/74	Rôle of National Committees for IUPAC	8
32/74	Terms of Reference of Standing Committees	8
33/74	Renewal of Lease on IUPAC Secretariat	8
34/74	Representation of IUPAC at 25th Congress	8
35/74	Representation of IUPAC on ISO/TC 147	8
36/74	Date and Place of Next Meeting	8

Minute 24/74

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.

Minute 25/74

MINUTES OF LXXX MEETING OF EXECUTIVE COMMITTEE

25.1/74 Amendments and Approval of Minutes

The Minutes of the LXXX Meeting of the Executive Committee were approved.

25.2/74 Matters Arising from Minutes

25.2.1/74 Payment of Expenses (Minute 2.2.3/74)

The Executive Secretary reported that, after some initial doubts, it had proved possible for the IUPAC Banker to arrange payment of the subsistence allowances for the Bureau meeting in Brussels in cash at a local bank. Dr. Williams was requested to collect, before closure of the bank that day, the subsistence allowances on behalf of those Bureau Members who had not yet arrived in Brussels.

25.2.2/74 Permanent Committee on International Plant Protection Congresses (Minute 2.2.5/74)

The Executive Committee accepted the recommendation of the President of the Applied Chemistry Division (Dr. H. Egan) that it was unnecessary for IUPAC to continue its representation on the Permanent Committee.

25.2.3/74 Thermodynamic Tables Project (Minute 18.2/74)

Sir Harold Thompson reported that the UK Office for Scientific and Technical Information had accepted the offer of IUPAC to pay directly to the Project Centre, for a trial period of three years, 75% of the royalties received from publications arising from the Centre. Payment had subsequently been made in respect of 1972 and 1973.

25.2.4/74 Solubility Data Project (Minute 8.12/74)

Prof. A. S. Kertes had indicated by letter that the Solubility Data Project should be considered a joint venture of IUPAC, CODATA, and Gmelin Institut. However, everyday operation of the Project would be the responsibility of the IUPAC Sub-Commission on Solubility Data (V.6.1). The Sub-Commission would require some operating funds for meetings, provision of which Prof. Kertes acknowledged should not violate Statute 9.42. Much larger funds would be required to support the scientific work of data compilation and evaluation, for which a proposal had been submitted to the Executive Committee for financial support from trusts and foundations (see Minute 29/74).

There had been some confusion regarding the status of the CODATA Task Group on Solubility Data. It was now apparent that the Task Group was ad hoc rather than permanent; and that the nomination of Prof. I. Eliezer (Israel) as CODATA representative to Sub-Commission V.6.1 would be subject to review by CODATA.

A contract, confirming the publishing arrangements with Gmelin Institut, would need to be drawn up and signed on behalf of IUPAC by its President. Gmelin had not agreed to bear financial responsibility for the whole Project, nor to manage any monies connected with it. Prof. Kertes had suggested that the profit, after Gmelin had recovered its expenses, should be channelled into a Solubility Data Centre.

It was Resolved that:

- (i) the \$940 allocated from the 1974 Contingency Fund of the Analytical Chemistry Division for the meeting of Sub-Commission V.6.1 in Montreal be paid by IUPAC directly to the relevant participants and not through Gmelin Institut;
- (ii) the Secretary General should inform Prof. Kertes in writing about the general provision of funds by IUPAC to the Solubility Data Project;
- (iii) although IUPAC might give sympathetic consideration to the matter, it could not agree in advance to pay automatically any publishing royalties to the projected Solubility Data Centre.

25.2.5/74 IUPAC Representative on CODATA (Minute 8.4/74)

Because of his heavy other commitments, Prof. H. Kientiz was unable to become the new representative to CODATA. The Executive Committee approved the suggestion of Sir Harold Thompson that Prof. D. H. Whiffen (Chairman of Commission on Physicochemical Symbols, Terminology, and Units) be invited to represent IUPAC.

Minute 26/74

MINUTES OF MEETINGS OF STANDING COMMITTEES

26.1/74 Finance Committee (74.2.18-19)

The Minutes of the 1974 meeting of the Finance Committee were recorded as having been received officially by the Executive Committee: a report on the deliberations in Zürich had been considered previously (Minute 3.4/74, LXXX/EC). Sir Harold Thompson drew attention to his suggestion (Minute 17/74, FC) that the Finance Committee should study the need for IUPAC to have a scale of subsistence allowances for meetings in various cities throughout the world.

26.2/74 Committee on Statutes and Bylaws (74.4.22-23)

The Minutes of the meeting at Oxford, especially the Appendices thereto, would be discussed in detail by the Bureau in Brussels. Sir Harold Thompson asked for warm thanks to be recorded for the good work done in revising the IUPAC Statutes and Bylaws. He was in almost complete agreement with the new principles, except that he was strongly in favour of listing, where possible, the titles and compositions of "subcommittees" of Commissions in the Comptes Rendus. The Executive Committee agreed with him that it was important to give this recognition of the existence of such subcommittees. Also, the President said that he had given careful consideration to comments from Mr. Arnold, Dr. A. L. G. Rees, and Dr. D. B. Tonks, on the draft revision of Statutes; he would present his recommendations to the Bureau the following day.

26.3/74 Committee on Publications (74.5.28)

The Minutes of the 1974 meeting of the Committee on Publications were recorded as having been received officially by the Executive Committee. Decisions on some major policy matters arising from the Minutes - price of PAC in 1975; suggestion that the Union's publishing contract be put out for tender - would need to be taken by the Bureau in Brussels.

Minute 27/74

ITEMS FROM AGENDA OF 33rd MEETING OF BUREAU REQUIRING DISCUSSION, RESOLUTION, OR RECOMMENDATION BY EXECUTIVE COMMITTEE

Item 4: 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.

Brief consideration was given to requests from the Nomenclature Commissions on Inorganic Chemistry and Organic Chemistry to meet in Spain before the Conference. The Executive Committee as a whole reaffirmed the principle that all IUPAC Bodies should meet at Conference in an IUPAC Conference year. It rejected the argument that Conference was too distracting to facilitate good nomenclature deliberations, but accepted that overlap of Titular Memberships between some Nomenclature Commissions caused difficulties.

Item 6.1: 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. Not all countries had been able to pay the increased subscriptions in 1974. Prof. Emanuel believed it may 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 Associate income from National Adhering Organization subscriptions, and for each country to enter a membership category equivalent to its national chemical turnover.

Item 7: Reports of Division Presidents and Clinical Chemistry Section

The Executive Committee noted that the Applied Chemistry Division accepted, in principle, the proposed change of Sections to Commissions and that it was willing to work towards applying this aim from the next IUPAC Conference. Dr. Egan should be asked at the Bureau meeting to elaborate on the need for a longer time, however, for full implementation of the change, which would apparently have to be over the following two years.

After consideration of the proposal that the Clinical Chemistry Section be granted full Division status within the Union, the Executive Committee decided unanimously that such a change was not at present warranted.

Item 10: Collaboration with ISO - Proposals of Analytical Chemistry Division

The Secretary General reported that, at the meeting of the Division Presidents on the previous day, Prof. Tanaka had expressed a wish to withdraw the proposals for review by the Analytical Chemistry 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.

Item 11: Reorganization of Interdivisional Committee on Nomenclature and Symbols

At the request of the Executive Committee (Minute 14/74, LXXX/EC), Prof. 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 Executive Secretary reported that, at the meeting of Division Presidents on the previous day, Dr. Egan had recommended that, in addition to consideration by the Bureau, the suggestions be referred for comment by the Divisions of the Union. The Executive Committee accepted the suggestions of Prof. McGlashan, in principle, and decided to synthesize its views early in 1975 for implementation at the next IUPAC Conference. The comments of the Bureau in Brussels should be taken into account and the opinions of the Divisions solicited by early in 1975.

Item 12: 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.

The Executive Committee decided to recommend to the Bureau that IUPAC approves creation of the Commission. The views of IUPAB and IUB were acceptable to IUPAC with the following reservations:

(i) The implication of provision by each Union of \$500 per annum signified a much higher level of administrative expenses than existed for IUPAC bodies; careful control would 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 was not free to commit the parent Unions to any publication or specific publisher without the concurrence of the respective Executive Committees.

Item 14.1: Freedom for Attendance of Bona Fide Chemists at Symposia

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 that day on the 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. He proposed to raise this matter with Prof. V. Herout at the Bureau meeting in Brussels.

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. The Executive Committee supported his proposal for consideration by the Bureau:

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.

Mr. Arnold stressed the need for intending participants to make proper application for entry visas.

The Executive Committee accepted the recommendation of the Division Presidents (Brussels, Minute 2/74, page 3):

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.

Item 16: Company Associates Scheme

The President said that he had invited Dr. J. W. Barrett to address the Bureau in Brussels about progress in formation of National Company Associates Groups (NCAGs) and an International Company Associates Group (ICAG). He was concerned that the considerable quantity of literature distributed regularly by the Union to its Company Associates remained apparently unknown in many of the Companies. Personally, he had been very impressed by the extent of present IUPAC working programmes as detailed in Comptes Rendus XXVII Conference: Part B. Mr. Arnold and Dr. Cairns expressed the opinion that better progress could be expected through NCAGs than through ICAG, meetings of the latter being difficult to arrange. Attention was drawn to the successful collaborative programmes being undertaken by Working Parties of the Macromolecular Division: such activities might be extended further within the Union at the suggestion of Company Associates. Concerning the proposal of the Clinical Chemistry Section that Company Associates be allowed to join individual Divisions, the Executive Committee preferred that they should remain linked to the Union as a whole.

Item 18.3: 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 Executive Committee (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 from the Bureau on how to act when the matter came up for consideration at the 15th General Assembly of ICSU (Istanbul: 74.9.23-26). 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.

Item 20.1: 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 Executive Committee decided to recommend that the Bureau 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 28/74

COMMITTEE ON TEACHING OF CHEMISTRY: FINANCIAL SUPPORT AND MEMBERSHIP

As agreed at the previous meeting of the Executive Committee (Minutes 3.7/74 and 19.3/74, LXXX/EC), the President had met the Secretary of the Committee on Teaching of Chemistry to discuss its work and programme.

On the recommendation of Sir Harold Thompson, the Executive Committee Resolved that:

- (i) \$2,500 be granted by IUPAC for use by the Committee on Teaching of Chemistry in connexion with its proposed Symposium on "Aspects of Educational Technology Applied to the Teaching of Chemistry", to be held in conjunction with the 28th IUPAC Conference (Madrid, 1975);
- (ii) Prof. C. N. R. Rao (India) be appointed Chairman of the Committee in succession to Prof. R. W. Parry (USA), who had resigned;
- (iii) the two Foundation Members of the Committee, Prof. J. A. Campbell (USA) and Dr. P. Sykes (UK), be replaced by Prof. G. Illuminati (Italy) and Prof. M. Laffitte (France);
- (iv) Prof. I. V. Berezin (USSR) replace Prof. A. F. Platé (USSR) as a Member of the Committee, the latter having been unable to attend its meetings.

Minute 29/74

PROPOSALS FOR FINANCIAL SUPPORT FROM TRUSTS AND FOUNDATIONS

Further to the discussions at the previous meeting (Minute 6/74, LXXX/EC), the proposers of the selected projects had been invited to submit more detailed documents with specific objectives, budget, and time factors, for consideration by the Executive Committee. The Executive Secretary reported that such detailed documents had so far been received only from the Commission on Equilibrium Data. These documents were in respect of \$176,000 (about \$35,000 per annum for five years) for the solubility data project and of \$48,000 (about \$16,000 per annum for three years) for the stability constants project. After careful consideration, the Executive Committee concluded that, although these two compilations of data were important, they were unlikely to be received favourably by trusts and foundations known to the Executive Committee. The Secretary General was requested to inform the Officers of the Commission on Equilibrium Data and its two Sub-Commissions accordingly.

Minute 30/74

RELATIONS WITH OTHER ORGANIZATIONS

The files for the meeting contained a list of official representatives of IUPAC appointed by the President to some meetings of other organizations in 1974 (see Appendix A). These appointments were ratified by the Executive Committee. Sir Harold Thompson said that a report on any meeting in which a Member of the Executive Committee was interested, could be obtained from the Secretariat.

Minute 31/74

ROLE OF NATIONAL COMMITTEES FOR IUPAC

A document revised by Dr. Gallay along the lines agreed at the previous meeting (Minute 9/74, LXXX/EC), was approved by the Executive Committee for distribution by the Executive Secretary for the information of all National Adhering Organizations.

Minute 32/74

TERMS OF REFERENCE OF STANDING COMMITTEES

Draft Standing Orders of the Executive Committee in respect of the IUPAC-IUB Commission on Biochemical Nomenclature and the Coordinating Committee for Analytical Methods for CEE and IARC, which were acceptable to those two bodies, were referred for the attention of the Committee on Statutes and Bylaws.

Minute 33/74

RENEWAL OF LEASE ON IUPAC SECRETARIAT

The Executive Secretary advised that the first seven-year leases on the two offices constituting the IUPAC Secretariat would be completed during June 1975. In principle the Executive Committee agreed that the Union should take out a further lease on each office. Dr. Williams was asked to make enquiries as to the higher rentals which it was anticipated would become applicable.

Minute 34/74

REPRESENTATION OF IUPAC AT 25th CONGRESS

The Executive Committee agreed that the President should act as the official representative of the Union at the 25th IUPAC Congress (Jerusalem: 75.7.6-11).

Minute 35/74

REPRESENTATION OF IUPAC ON ISO/TC 147

On the recommendation of the Section on Water Quality, supported by the President of the Applied Chemistry Division (Dr. H. Egan), the Executive Committee approved the appointment of Dr. P. O. Bethge (Sweden) as the official representative of IUPAC to ISO/TC 147: Water Quality, until mid-1975.

Minute 36/74

DATE AND PLACE OF NEXT MEETING

An invitation was accepted from the Academy of Sciences of USSR for the next meeting of the Executive Committee to take place in Moscow. It was decided to meet on 28 February and 1 March 1975, with 2-3 March to be set aside for official visits. The Executive Secretary was instructed to make the detailed arrangements with Prof. Emanuel.

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The Meeting closed at 12.50.

Chairman: *W. C. Thompson*
Date: *Feb 28 1975*

OFFICIAL REPRESENTATIVES OF IUPAC

AT MEETINGS OF OTHER ORGANIZATIONS

1974

Reports have been received by the President as follows. Members of the Executive Committee may obtain from the Secretariat copies of any reports in which they are interested.

53rd WHO Executive Board (Geneva, Switzerland: 15-25 January 1974) - Dr. R. Morf (Switzerland)

VII Session of FAO-WHO Codex Committee on Fats and Oils (London, UK: 25-29 March 1974) - Dr. K. A. Williams (UK)

ECE Symposium on Use of Computer Techniques and Automation for Water Resources Systems (Washington, DC, USA: 26 March-4 April 1974) - Mr. B. Åsell (Sweden)

8th Meeting of ISO/TC 35: Paints and Varnishes (The Hague, Netherlands: 5 April 1974) - Dr. L. A. O'Neill (UK) and Mr. H. K. Raaschou Nielsen (Denmark)

9th Plenary Session of COWAR (Rome, Italy: 4-5 April 1974) - Prof. E. A. Pearson (USA)

Annual Meeting of CID Bureau (Paris, France: 26 April 1974) - Prof. C. Paquot (France)

2nd Meeting of FECS Committee on Chemical Education in Europe (Frankfurt, Federal Republic of Germany: 26 April 1974) - Mr. R. J. M. Ratcliffe (UK)

27th World Health Assembly and 54th WHO Executive Board (Geneva, Switzerland: 7-27 May 1974) - Dr. R. Morf (Switzerland)

VIII Working and Discussion Meetings of International Association for Cereal Chemistry (Vienna, Austria: 16-18 May 1974) - Dr. F. Parisi (Italy)

15th Meeting of ISO/TC 46: Documentation (Helsinki, Finland: 27-31 May 1974) - Prof. H. Suomalainen (Finland) and Dr. J. Klopp (France)

FAO-IAEA Research Coordination Meeting on Isotope Tracer Aided Studies of Foreign Chemical Residues in Food (Vienna, Austria: 4-7 June 1974) - Dr. W. Klein (Federal Republic of Germany)

ICSU Abstracting Board (Berlin, Federal Republic of Germany: 7-12 July 1974) - Dr. J. W. Barrett (UK)

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Reports are still outstanding from:

9th Meeting of ISO/TC 34/SC 2: Agricultural Food Products/Oleaginous Seeds and Fruits (Warsaw, Poland: 22-23 May 1974) - Prof. A. Rutkowski (Poland)

ICSU Committee on Teaching of Science (Paris, France: 27-30 May 1974) - Mr. D. G. Chisman (UK)

18th Session of Joint FAO-WHO Committee of Experts on Food Additives (Rome, Italy: 4-13 June 1974) - Dr. R. Marcuse (Sweden) and Dr. K. Kojima (Japan)

9th CODATA General Assembly (Yerevan, USSR: 28-29 June 1974) - Dr. R. N. Jones (Canada)

1st Meeting of CID International Committee on Ecology (Basel, Switzerland:
21 June 1974) - Dr. H. Hadorn (Switzerland)

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Sir Harold Thompson represented IUPAC personally at:

Society for Analytical Chemistry Centenary Celebrations (London, UK:
16-19 July 1974)