

MINUTES OF 47th MEETING OF BUREAU

Danmarks Tekniske Højskole, Lyngby: 24th August 1983

Present: Prof. S. Nagakura (Chairman), Dr. J. W. Barrett, Prof. A. D. Campbell, Dr. W. Graulich, Prof. Y. Jeannin, Prof. A. Kjaer - in part, Prof. V. A. Koptug, Prof. J. Michalski, Prof. G. Ourisson, Prof. C. G. Overberger, Prof. A. Perez-Masiá, Prof. C. N. R. Rao, Dr. W. G. Schneider, Prof. D. B. Tonks, Prof. A. A. Vlček, Prof. H. Gg. Wagner, Prof. H. Zollinger (Elected Members); Prof. T. S. West (Assistant Secretary General); Prof. C. H. Bamford, Dr. H. Frehse, Dr. Mary L. Good, Prof. J. Mathieu, Prof. F. Pellerin, Prof. N. Sheppard, Prof. F. W. Sunderman, Jr. (Division Presidents)

In Attendance: Prof. K. H. Büchel (Chairman, COCI) - in part, Dr. K. L. Loening (Chairman, IDCNS) - in part, Dr. B. W. Rossiter (Chairman, CHEMRAWN Committee) - in part, Dr. H. F. Wilson (Chairman, Finance Committee) - in part, Dr. M. Williams (Executive Secretary)

1/83 INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

The following item was added to the agenda circulated by the Executive Secretary (83.07.21):

12.2 Report on 1983 ICSU General Committee

2/83 MINUTES OF 46th MEETING OF BUREAU

2.1/83 Amendments and Approval of Minutes

The minutes of the meeting in Prague (circulated by the Executive Secretary 82.12.15) were approved.

2.2/83 Matters Arising from Minutes

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

3/83 MINUTES OF 101st AND 102nd MEETINGS OF EXECUTIVE COMMITTEE

The minutes were recorded as having been received officially by the Bureau.

3.1/83 New Mechanism for Publication of Recommendations on Nomenclature and Symbols (Dr. Loening in attendance)

Because of changes in staff and reorganization of the Secretariat, introduction of the new mechanism proposed at Leuven had been postponed. IDCNS had suggested ways to shift the burden from the Secretariat and the Executive Committee (Minute 2.2.1/83, 102nd Meeting - Tokyo) had agreed to extend the original two-year trial period beyond Lyngby to Lyon.

A revised mechanism (83.07.07) had been discussed extensively with the Division Presidents at Lyngby (Minute 10.1/83) and Dr. Loening had requested their full support to ensure its success. Dr. Good reiterated her fears that the procedure would delay publication of the new edition of the Red Book (Nomenclature of Inorganic Chemistry), anticipated for 1985, if too many experts had to be consulted. Such consultations would also impose heavy photocopying and postal charges on Commissions for bulky documents. In addition, Dr. Good doubted if

national chemistry news journals would publish several synopses simultaneously.

The Bureau endorsed the agreement of the Executive Committee to extend the original trial period, but it decided to review critically in mid-1984 how the mechanism was working in practice.

3.2/83 Restriction in Titular Members of Commissions/Members of Division Committees

The Executive Committee (Minute 3.7.8/83, 102nd Meeting - Tokyo) had endorsed the conclusion of the Finance Committee that there was no basis at Lyngby to lift the current restriction of six Titular Members for Commissions/eight Members for Division Committees.

On behalf of the Division Presidents, Dr. Good expressed concern at the inevitable slow down in work of the Commissions. Nevertheless, the Bureau decided to continue at least until Lyon with the restrictions imposed since Leuven (Minute 3.4/80, 42nd Bureau - Zürich). The Division Presidents were reminded that cases for exemption from the restrictions should be presented to the new Bureau at Lyngby on 83.08.26.

3.3/83 Report of Committee on Limitation of Total Service in IUPAC

The Executive Committee (Minute 6/83, 102nd Meeting - Tokyo) had recommended that the following amendments should be made to Bylaw 4.304.

A new paragraph should start in line 10 (following "... consecutive years" in line 9) as follows:

"Exceptional circumstances must be established and special permission of the Bureau obtained for

- (i) the reappointment as a Titular Member of a person who has served eight years as a Titular Member, whether consecutive or not,
- (ii) the rotation of a person through alternate periods of Titular and Associate Membership beyond a total of twelve years,
- (iii) the replacement by a Division or Section President between General Assemblies of a Member of a Commission,
- (iv) consecutive membership of two or more Commissions of the same Division or of different Divisions, or of different Division Committees, beyond twelve years.

As a result of correspondence with Prof. West since Tokyo, Prof. Zollinger proposed that (iv) should be amended to read

"consecutive membership in any capacity other than that of a coopted person or a National Representative of two or more ..."

Prof. Tonks suggested that the inclusion of "consecutive" was unnecessary. Answering a question raised by Dr. Good, Prof. Zollinger said that a majority of Division Presidents, responding to his circular letter of 83.02.16, had favoured twelve rather than sixteen years as the limitation of total service in IUPAC.

Subject to the proposals of Profs. Zollinger and Tonks, the Bureau approved the recommendation of the Executive Committee. The amendments to Bylaw 4.304 would be adopted as guidelines for 1983-5, and the actual changes to the Bylaw would be proposed formally to the NAOs at least eight months before the meeting of

Council at Lyon (Bylaw 6.2).

3.4/83 ICSU Abstracting Board

Discussion of this matter was deferred to item 12.2 of the agenda (see Minute 12.2/83).

4/83 FINANCIAL MATTERS

4.1/83 Current Financial Status

The Treasurer reported briefly on changes to the portfolio agreed at Lyngby (Finance Committee Minute 21.2/83). These were designed to yield high income with the chance of some capital appreciation. All 1981 outstanding national subscriptions were now cleared, and the subscription income for 1982 had reached US-\$345 800 (as at 83.07.25), nearing the target of US-\$350 000 which the Finance Committee felt (Minute 16.3/83 - Lyngby) would vindicate the Leuven new dues structure, despite provision for bad debts. Dr. Graulich also drew attention to some changes agreed by the Finance Committee (Minute 17/83 - Lyngby) to the precirculated report of the Treasurer to Council.

4.2/83 Ratification of UNESCO Contract for Continuation of Activities for Improvement of International Exchange of Ideas and Information on Chemical Education

The signing by President Nagakura on behalf of IUPAC of UNESCO contract 516.402.3 (to produce Nos. 19 and 20 of the International Newsletter on Chemical Education in 1983) since the 102nd Executive meeting, was ratified by the Bureau. Starting in 1983, the Newsletter would be handled completely by the IUPAC Committee on Teaching of Chemistry, with a minimum involvement of the Secretariat in production and dissemination.

Prof. Vlček was critical of the delay in following up discussions by the IUPAC Officers and Dr. J. V. Kingston (UNESCO) at Leuven of a series of possible joint IUPAC-UNESCO programmes and their funding. The Executive Secretary reported that subsequent correspondence, involving Dr. Kingston and Prof. Ourisson, had led to the latter writing (83.07.21) to seven Latin-American countries about interest in 'New Sources of Chemical Energy', specifically for the natural resources of the relevant countries and monitoring the effect on their environments (Minute 19.4/83, 103rd Executive Committee - Lyngby).

5/83 ITEMS FROM AGENDA OF 32nd MEETING OF COUNCIL REQUIRING DISCUSSION, RESOLUTION, OR RECOMMENDATION BY BUREAU

5.1/83 Council Item 3 - Nominations for Officers and Bureau Members

- (i) Consideration was given to the two candidates nominated for Vice-President of the Union. If not elected, Prof. C. N. R. Rao would continue his present term on the Bureau (1981-5); if elected, there would be an additional vacancy on the Bureau. If Prof. H. Gg. Wagner was not elected to the Vice-Presidency, the FRG-Delegation had indicated that it would wish to withdraw the nomination of Prof. E. U. Franck for the Bureau so that Prof. Wagner might stand for a second term (1983-7).

After an extensive discussion of the matter (in the absence of Profs. Rao and Wagner), the Bureau agreed with the Executive Committee (Minute 16.2/83, 103rd Meeting - Lyngby) that both candidates were excellent and it was unable to differentiate between them. Furthermore, the Bureau

resolved (15 in favour, 5 against, 1 abstention, 3 absent) to recommend (Bylaw 2.222) the two candidates equally to Council.

- (ii) Consideration was given to the four candidates nominated for Treasurer of the Union. In supporting the nomination of Mr. P. Poirier, Prof. Jeannin said that Comité National Français de la Chimie was ready to provide any necessary backup support for him as Treasurer: the French NAO was, however, ready to withdraw the nomination if this was in the best interests of IUPAC. In supporting the nomination of Prof. A. Björkman, Prof. Kjaer guaranteed any necessary backup support for him as Treasurer. Dr. Graulich said that he had met Dr. F. J. M. Nieuwenhuis and felt he was an excellent candidate. Prof. Ourisson reported that Prof. G. Smets (Belgian NAO) was ready to withdraw the nomination of Dr. F. Wollrab in view of the number of candidates for the Treasurership.

In a written and secret vote, the Bureau resolved (13 in favour of A. Björkman, 6 in favour of P. Poirier, 3 in favour of F. J. M. Nieuwenhuis, 0 in favour of F. Wollrab, 2 abstentions) to recommend (Bylaw 2.222) Prof. A. Björkman to Council to fill the vacancy for Treasurer.

- (iii) Noting the suggestion of the Executive Committee (Minute 4.1(iii)/83, 102nd Meeting - Tokyo), the Bureau resolved (22 in favour, 1 against, 1 abstention) to recommend to Council that during 1983-5 the total number of Elected Members of the Bureau (Statute 7.2) should be 11.

- (iv) Noting the principle of fair geographical representation (Statute 7.2) and the tradition to re-elect existing Bureau Members for a second term, the Bureau made the following recommendations to Council for filling the vacancies on the Bureau (Bylaw 2.222):-

a) If Prof. Wagner was elected as Vice-President, the 5 vacancies should be filled by: Dr. A. J. Arvia, Prof. Y. P. Jeannin, Prof. V. A. Koptug, Prof. D. B. Tonks, Prof. A. A. Vlcek.

b) If Prof. Rao was elected as Vice-President, the 6 vacancies should be filled by: Dr. A. J. Arvia, Prof. Y. P. Jeannin, Prof. V. A. Koptug, Prof. D. B. Tonks, Prof. A. A. Vlcek, Prof. H. Gg. Wagner (nomination of Prof. E. U. Franck withdrawn and Prof. Wagner nominated by the Bureau as an additional candidate).

- (v) The Bureau decided to recommend Council to appoint as Tellers for all voting: Dr. W. Graulich (Treasurer), Dr. R. W. J. Keay (Secretary to UK Delegation), Prof. G. Ourisson (Secretary General).

5.2/83 Council Item 4 - Time of Elections

The Bureau agreed to recommend to Council that the election of Officers of the Union and of Elected Members of the Bureau should take place on Friday, 26th August 1983, at 10.15.

5.3/83 Council Item 8 - Tentative Budgets for 1984 and 1985 (Dr. Wilson in attendance)

Dr. Graulich outlined the general purposes and publications budgets for 1984 and 1985 as revised at Lyngby (Appendixes C and D to Finance Committee minutes). He drew attention to provision for a word-processing system at the Secretariat, for possible introduction of the Affiliate Membership Scheme from the start of 1985, for bad debts in connexion with the Leuven new dues scheme, and for increased interest and dividends earned. A small surplus (US-\$1 500) was anticipated for 1984, but a deficit (US-\$70 000) for 1985. The two main sources of the overall

deficit (US-68 500) were:

- (i) Affiliate Membership Scheme - \$65 00,
- (ii) bad debts - US-\$155 000.

Answering concern expressed by Profs. Wagner and Tonks at the pessimistic forecasts, the Treasurer said that the Union had excellent financial reserves to carry it through the next biennium. By then the full impact of the Leuven dues scheme would be clearer, as would the effects from any introduction of an Affiliate Membership Scheme.

Dr. Good pointed out that the slight increase envisaged for Divisional activities in 1984-5, compared with 1982-3, would be counteracted completely by inflation in costs. No actual increase in scientific activities would be possible in the next biennium, and the level was already depressed due to financial restrictions.

The Bureau endorsed the tentative budgets for 1984 and 1985, as revised by the Finance Committee at Lyngby, for presentation to Council.

5.4/83 Council Item 9 - Revised New Dues Structure (Dr. Wilson in attendance)

Dr. Wilson mentioned his computer predictions of dues based on chemical publications (Chemical Abstracts), but the recommendation (Minute 18/83, Finance Committee - Lyngby) not to present the data in Council because it might provoke unnecessary discussion. Compared with chemical turnover as the basis, the distribution of dues was substantially different and the overall situation badly distorted, despite the practical advantage of ease of obtaining national chemical publications totals.

Regarding the revised new dues structure proposals before Council at Lyngby, Dr. Wilson tabled a further revision of Appendix III, which used recently available 1982 CT-data to calculate dues for 1984 and 1985. The Appendix now also showed the dues for USSR in both years as US-\$40 000. The Bureau accepted the recommendation (Minute 16.4/83, 103rd Executive Committee - Lyngby) to retain the existing Appendix III in Council, but to state that the 1984-dues invoices would be based on the latest available CT-figures. Also, the Bureau noted that, in response to suggestions from the Japanese NAO, the Finance Committee proposed to investigate after Lyngby a system with 1984-5 dues based on the biennial CT-average for 1981-2.

An introductory statement about the revised structure was read out by the Secretary General and the Bureau accepted the suggestion of the Executive Committee (Minute 16.4/83, 103rd Meeting - Lyngby) that it should be presented to Council by Prof. Ourisson. The Bureau also endorsed the recommendation not to ask Council at Lyngby to vote on Appendix IV but, at this time, simply to accept for information the proposals to extend voting rights for different categories of membership. It was noted that the concern of the Czechoslovak NAO (letter dated 83.06.21) that Appendix IV would result in the richer countries in IUPAC becoming more powerful and the poorer ones more powerless, would be considered at the Spring 1984 meeting of the Executive Committee.

Using the proposed mathematical formula, Prof. Tonks stressed that individual national dues would change every year, depending on the latest CT-value and total subscription income required by the Union. Strong reservations were made by Prof. Perez-Masiá against any dues proposal which required a country to pay substantially more money from one year to the next. Prof. Rao said this created difficulties regarding funding from governmental sources. Prof. Jeannin

mentioned another problem in connexion with governmental funding, namely the effect of large changes in exchange rate with respect to the US-dollar, which sometimes occurred when an NAO had to make very advanced application for governmental support.

5.5/83 Council Item 10 - Application for Membership of Peru

The Bureau approved a proposal from the Executive Committee (Minute 10.4/83, 102nd Meeting - Tokyo) that Council at Lyngby should be recommended to accept an application for membership of the Union (Category D) from Sociedad Química del Peru.

5.6/83 Council Item 11 - Applications for Associated Organization Status

Applications for AO status from the European Federation of Corrosion and the International Organization for Biotechnology and Bioengineering (Minutes 10.2 and 10.6/83, 102nd Executive Committee - Tokyo) would be recommended by the Bureau for acceptance by Council at Lyngby.

5.7/83 Council Item 12 - Reports of Division Presidents

The Bureau endorsed a request from the Executive Committee (Minute 11.6/83, 102nd Meeting - Tokyo) to recommend Council at Lyngby to approve revised rules of the Applied Chemistry Division, showing only slight changes from those withdrawn at Leuven.

The following changed wording for Rule 3.4 of the Organic Chemistry Division, to that approved at Davos (Council Minute 12/79), was approved for recommendation of adoption by Council at Lyngby:

"The Division Committee shall normally appoint Co-opted Members of the Committee for terms of six years, not renewable. Terms of Co-opted Members shall be arranged so that two expire at the end of each General Assembly."

A listing of "Practices of the Organic Chemistry Division" (how the Division currently operates within the Rules) was noted by the Bureau.

5.8/83 Council Item 15 - Language for Official Records during 1983-7

The Bureau decided to recommend to Council that English should be the one language in which the official records of the meetings of the Council, Bureau, and Executive Committee should be kept and published during the four years 1983-7 (Statute 5.405).

5.9/83 Council Item 17 - Proposed Affiliate Membership Scheme

The Bureau noted that, on the basis of a poll in five countries, the Executive Committee had decided (Minute 5/83, 102nd Meeting - Tokyo) to recommend Council to launch the Scheme from the start of 1985.

Prof. West emphasized that there would be two clear advantages from the existence of Affiliates:

- (i) these chemists, presently outside the Union, would have the opportunity to become extremely well informed about IUPAC and its activities;
- (ii) these chemists (with their full addresses and Divisional interests/expertise registered on the new word processor at the Secretariat) would provide a source of possible candidates for consideration of membership of Commissions.

Regarding (i), Prof. West felt that other mechanisms than CI would be needed, such as the use of national chemistry news journals. The latter would not normally, however, be able to publicize IUPAC in such detail as could be done in CI. Feedback from Affiliates would also be vital. This could be achieved in part via a correspondence column in CI, but more directly by a Commission circulating interested Affiliates to comment on a specific matter(s).

Prof. Ourisson referred briefly to discussions by the Executive Committee at Lyngby (Minute 16.1/83, 103rd Meeting) of the possibility to try the Scheme just for IUPAC non-member developing countries, if some financial support could be obtained from UNESCO.

Prof. Sunderman reported strong support from the Clinical Chemistry Division for introduction of the Scheme and for continuation of CI. He suggested that interested Affiliates should be sent automatically the second circular of all appropriate IUPAC-sponsored symposia. In answer to a point raised by Prof. Koptug, the Bureau agreed that the privileges offered to Affiliates should also apply for all members of IUPAC bodies. Indeed, the latter were already entitled to obtain 25% reduction on the price of all IUPAC publications except PAC.

Dr. Barrett suggested that Prof. West and Dr. Williams should extract from the tentative budgets for 1984 and 1985 the total costs envisaged for the first two years of the Scheme in order to clarify fully the overall financial situation.

There was no initiative to withdraw the proposal from Council at Lyngby and the Bureau confirmed its support for the Scheme.

5.10/83 Council Item 18 - Proposals Formally Received from NAOs

Prof. Wagner spoke briefly about the proposal from FRG (83.04.22) to create "IUPAC Seminars". Dr. Schneider was concerned about financing such meetings, unless support was forthcoming from UNESCO. Prof. Kjaer mentioned that some experience was available in Denmark from the International Science Foundation. If the proposal was approved by Council, Prof. Zollinger suggested that a study group should be established to look in more detail into the matter and report back to the Bureau.

5.11/83 Council Item 20 - Proposals for New Bodies and Dissolution of Existing Bodies

- (i) Prof. Sheppard reported that the Commission on Physicochemical Measurements and Standards had virtually completed its scheduled activities. He therefore recommended that the Commission should be dissolved and the remaining work completed by a subcommittee attached to the Physical Chemistry Division Committee. The recommendation was accepted by the Bureau for transmission to Council at Lyngby.
- (ii) Prof. Sheppard tabled a proposal for a new Interdivisional Commission on Chemical Kinetics, to be attached administratively to the Physical Chemistry Division. The initial composition was envisaged as:-

6 Titular Members: 2 from Physical Chemistry Division
 1 each from Inorganic, Organic and
 Macromolecular Divisions
 1 expert on chemical engineering aspects
 of kinetics

6 Associate Members

At the Division Presidents meeting at Lyngby (Minute 4/83) Prof. Sunderman had expressed a wish for the Clinical Chemistry Division to be involved,

even at the TM level, and Dr. Frehse had indicated that the Applied Chemistry Division would nominate a candidate for an AM position.

Prof. Zollinger asked about the financial implications, and Prof. Michalski suggested that each Division sending a TM to the new Commission should be responsible for the relevant travel and subsistence expenses. Furthermore, Prof. Zollinger stressed that the suggested activities were the most important criterion in creation of any new IUPAC body. In view of the complexity of the IUPAC solubility data series, he had some doubts about the probable areas of IUPAC concern for data compilation in kinetics.

The Bureau agreed to recommend Council at Lyngby to create a Commission on Chemical Kinetics in accordance with the tabled proposal, but taking account of the Bureau discussions on membership, finance, and activities.

- (iii) The relevant Division Presidents reported on the outcome of the working groups investigating the following Commissions "suspended" at Leuven:

Commission on Medicinal Chemistry (III.4) - Prof. Mathieu
Commission on Analytical Radiochemistry
and Nuclear Materials (V.7) - Prof. Pellerin
Commissions on Atmospheric Environment (VI.4))
Water Quality (VI.6)) - Dr. Frehse
Reclamation of Solid Wastes (VI.7))

Dr. Schneider was convinced personally of the need to re-establish Commission III.4.

The Bureau decided to recommend Council at Lyngby:

- a. to dissolve Commission VI.7,
- b. to delegate its authority to the Bureau (Executive Committee) to receive after Lyngby proposals on, and if found acceptable to re-establish Commissions III.4, V.7, VI.4, and VI.6.

5.12/83 Council Item 24 - Ratification of Dates and Place for 30th Congress

The Executive Secretary reported on discussions by the Division Presidents at Lyngby (Minute 9/83) on the scope of the Manchester Congress (1985) as indicated in the preliminary announcement. In view of the advanced state of the scientific programme, the Division Presidents were requested by the Bureau to submit, within four weeks, their suggestions for changes to the organizers.

5.13/83 Council Item 25 - Provisional Place of 34th General Assembly and 31st Congress

- (i) The Bureau noted that the Swedish National Committee for Chemistry had now issued a definite invitation to host the 1989 Assembly at Lund and would discuss later this year whether it might also host the 1989 Congress at Stockholm.

It therefore decided to recommend Council at Lyngby to accept the invitation of the US National Committee for IUPAC to host the 34th Assembly at Boston University during 87.08.21-29.

- (ii) The Bureau endorsed the recommendation of the Executive Committee (Minute 4.5/83, 102nd Meeting - Tokyo) for Council to accept the invitation of the Bulgarian Academy of Sciences to host the 31st Congress at Sofia in 1987.

Dr. Rossiter forecast that CHEMRAWN II would prove to be a landmark in the development of CHEMRAWN activities, which Prof. T. F. Malone (ICSU Treasurer) regarded as one of the foremost scientific initiatives of our generation.

He referred to his precirculated summary report (83.07.06) on CHEMRAWN II and tabled copies of the recently printed Perspectives and Recommendations booklet. An eventual surplus of US-\$18 000-20 000 was now expected and US-\$15 000 had already been repaid into IUPAC general funds. He felt that US-\$10 000 of the repayment should have been a non-returnable donation from the Union, and the surplus on CHEMRAWN II would now have to be shared with the International Rice Research Institute.

Very satisfactory progress had been achieved in the arrangements for CHEMRAWN III (Den Haag, 84.06.25-29) and progress was escalating for CHEMRAWN IV (Woods Hole, 85.09.22-28). CHEMRAWN V was now tentatively entitled "Contributions of Chemistry to Human Health: The New Frontiers" and would be held in FRG (1986), FRG having withdrawn its original offer to host a meeting that year on "Water and Waste Water Technology". CHEMRAWN VI would be on "Special Materials to Meet New Needs in Energy, Transportation, and Communication" in Japan (1987). A 2nd World Conference on Chemistry, Agriculture, and World Food Supplies might take place during 1989/90.

Regarding relationships with other organizations, these were improving with COCI, starting with ICSU (SCIRAWN), excellent with UNESCO (strong support and encouragement), active with ICSU-CASAFA (for followup to CHEMRAWN II), and to be developed with IOCD. CHEMRAWN Committees had been formed in Japan and USA, and there was some IUPAC Divisional representation at the CHEMRAWN Committee meeting in Lyngby.

7/83 REPORT OF COMMITTEE ON CHEMISTRY AND INDUSTRY (Prof. Büchel in attendance)

Prof. Büchel said that the increase in total CAs from 158 (1980) to 196 (1982 - from 24 member countries) reflected in particular the formation of a Dutch grouping and the efforts of President Nagakura in Japan. COCI itself currently had 15 members from 14 countries (189 CAs). There was an observer from Beijing at Lyngby. Only Ireland of the countries eligible had so far failed to nominate a member.

A main activity for COCI had been its increasing involvement in CHEMRAWN Conferences. As a followup to CHEMRAWN I, a Subcommittee on Organic Raw Materials had carried out regular literature surveys (10 issues to date, to be available next year bound together), but would probably discontinue its work after CHEMRAWN III. Help had been provided to obtain financial support for CHEMRAWN III. A COCI liaison representative had been nominated for CHEMRAWN IV and mechanisms established for some European input on speakers. COCI was especially attracted to CHEMRAWN V and prepared to set up a subcommittee to assist. Also COCI had reacted positively to the revised CHEMRAWN VI and its location in Japan.

Prof. Büchel congratulated Dr. Schneider on his biennial critical assessment of IUPAC activities. COCI was ready to assist the Vice-President in this task, particularly on matters relevant to chemical industry. More detailed information was needed in future on the questionnaires completed by the Commissions and greater time must be allowed for COCI to carry out any evaluation. At Lyngby liaison representatives to the various Divisions of the Union had been identified in order to improve relations with COCI.

COCI had been favourably impressed by the change in contents of CI from the start of 1983. It strongly supported continuation of the present focus on what was going on in IUPAC, because this provided an ideal information tool for CAS.

Regarding the Commissions "suspended" in Leuven, COCI was convinced that medicinal chemistry was a topic vital for chemical industry and should be actively represented in the Union. It was ready to suggest possible projects for a rejuvenated Commission. In addition, COCI welcomed potential proposals to establish Commissions on Atmospheric Chemistry and on Water Chemistry.

A basic document for recruitment of CAS was well advanced, but needed some additional paragraphs for practical use. When finished, it might be issued in CI and reprints obtained for dissemination to NAOs and for answering individual enquiries from chemical industry.

8/83 REPORT OF COMMITTEE ON TEACHING OF CHEMISTRY

A written report was tabled from the Chairman of CTC, Prof. D. J. Waddington, who had already left Lyngby to participate in the 7th International Conference on Chemical Education (Montpellier, 83.08.21-26). The Executive Secretary drew attention to the request for annual seed money of US-\$2 000 from IUPAC, to demonstrate to potential sponsors - in a visible way - that the Union was serious about its commitment to chemical education. Prof. Rao spoke in support of the request and the need to prevent over-dependence of CTC on UNESCO.

9/83 REPORT OF INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS (Dr. Loening in attendance)

Dr. Loening reported that IDCNS was now well established in its routine operations. Since its 1982 meeting (Minute 3.4/83, 102nd Executive Committee - Tokyo), 9 sets of recommendations on nomenclature and symbols had been approved, 3 documents originating outside IUPAC had been commented on, and 2 documents were currently being processed. IDCNS had saved IUPAC considerable potential embarrassment in not conflicting with other international organizations. Indeed, there was now good involvement with IUB, IUPAP and even IUCr.

Since the IUPAC Secretariat was no longer involved in collaboration with ISO, Dr. Loening was concerned at being able to maintain good contact on nomenclature and symbols matters. In 1981 IUPAC had missed the opportunity to provide early input to the International Vocabulary of Basic and General Terms in Metrology, now due for publication in 1983. The Union should be involved fully in the second edition, because recommendations of the International Organization of Legal Metrology (OIML) were mandatory on member governments.

Regarding the suggestion to prepare a directory of IUPAC-approved glossaries (Minute 17.5/82, 101st Executive Committee - Prague), during the past year Prof. V. Gold had essentially completed the first part of the work. With the aid of the Commissions, a complete list of such glossaries and terminology reports with summaries and typical entries had been prepared. The second part would involve preparation of a consolidated list of entries with the PAC reference for the definition of each term. It would require several weeks of secretarial help, for which Prof. Gold and Dr. Loening would seek funding.

10/83 REPORT OF SUBCOMMITTEE ON NUMERIC DATA BASES

Dr. Schneider tabled a report, summarizing his consultations with a number of individuals and organizations involved with a variety of computerized data bases and discussions during the 29th IUPAC Congress (Cologne, 83.06.07 & 08) and at Lyngby (83.08.19). The recommendations presented were accepted, in principle, by the Bureau, in particular that an Advisory Committee on Chemical Data Bases should be created by the Bureau and report back to it. Regarding financial support for its meetings, Dr. Schneider suggested that US-\$7 000 might be needed during 1984-5.

11/83 REPORT OF CHEMISTRY INTERNATIONAL ADVISORY BOARD

Prof. Ourisson reported briefly on the inaugural meeting of the Board at Lyngby (83.08.19). The experimental change in emphasis of the contents of CI started in 1983 had been reviewed critically. It was recommended unanimously that CI should continue to concentrate on IUPAC and IUPAC-related material. Every effort should be made to try and attain a less "dry" presentation. Standing Orders had been drafted and accepted by the Executive Committee at Lyngby (Appendix A to Minutes of 103rd Meeting). The Board would normally meet only at the General Assembly, but a request for financial provision for a possible meeting in 1984 was approved by the Bureau, subject to the overall budgetary restrictions of the Union.

12/83 RELATIONS WITH OTHER ORGANIZATIONS

12.1/83 Review of Official Representation of IUPAC on Other Organizations

Dr. Schneider reported that at Lyngby he had reviewed with the Executive Secretary the current representatives and actions had been agreed in respect of all representations for the biennium mid-1983 to mid-1985.

12.2/83 Report on 1983 ICSU General Committee

A report (83.08.09) from the IUPAC representative, Prof. G. Smets, of the 17th Meeting (Warsaw, 83.08.04-05) was tabled. IUPAC would receive a basic allocation for 1984 of US-\$14 665 plus grants of US-\$5 000 for CHEMRAWN III, US-\$3 000 towards a meeting on data bases, and US-\$2 000 towards a Solubility Data Commission meeting. IUPAC was urged to submit requests, before the end of 1983, for supplementary grants because the UNESCO allocation to ICSU in 1984 was likely to be increased appreciably.

At the 1984 ICSU General Assembly it would be recommended that the status of the ICSU Abstracting Board as a Permanent Service of ICSU should be terminated. Furthermore, it would be recommended that the appropriate modes of cooperation between the Abstracting Board and the ICSU family should be determined after the Abstracting Board had established its new structure and objectives. The Bureau accepted a proposal from Dr. Schneider (cf. Minute 10.3/83, 102nd Executive Committee - Tokyo) that IUPAC should withdraw from ICSU AB and review the situation when the benefits and effectiveness of future collaboration were clear.

The following appointments to membership of IUPAC bodies, made through correspondence by the President since the 102nd Executive Committee meeting (Minute 11.1/83 - Tokyo), were ratified by the Bureau:

COCI

Dr. D. A. A. Fagandini (UK) to replace Dr. C. W. Suckling (resigned) -
1983-1987
Dr. W. J. Mijs (Netherlands) - 1983-1987

14/83 SPONSORSHIP: REPRESENTATION, SPONSORSHIP, SUBVENTION

14.1/83 Ratification of Sponsorships Approved by Correspondence

The sponsorships of symposia, approved through correspondence by the President since the 102nd Executive Committee meeting (see Appendix A), were ratified by the Bureau. IUPAC had been unable to consider sponsoring the 6th International Symposium on Mycotoxins and Phycotoxins at Lyon in 1985 because the host organization, International Agency for Research on Cancer, was unable to accept participants from Taiwan, China.


14.2/83 Ratification of Official Representatives to Symposia in 1983

The appointments of official representatives of IUPAC to its sponsored symposia in 1983, as made by the President through correspondence since the 102nd Executive Committee meeting (see Appendix B), were ratified by the Bureau.

VOTE OF THANKS

Prof. Nagakura asked for thanks to be recorded to Prof. Kjaer and his Danish colleagues for the provision of help, facilities, and hospitality during the course of the Lyngby General Assembly.

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CHAIRMAN: 

DATE: 16/9/84

SPONSORSHIPS OF SYMPOSIA BY IUPAC APPROVED BY
CORRESPONDENCE SINCE 102nd EXECUTIVE COMMITTEE MEETING

(see also Minute 12.1/83, 102nd Executive Committee)

4th International Conference on High Temperature and Energy Related Materials
(Santa Fe, New Mexico, USA: 84.04.02-06)

12th International Carbohydrate Symposium
(Utrecht, Netherlands: 84.07.01-07)

10th International Symposium on Photochemistry
(Interlaken, Switzerland: 84.07.22-27)

23rd International Conference on Coordination Chemistry
(Boulder, Colorado, USA: 84.07.29-08.03)

International Symposium on Physical Chemistry of Colloids and Macromolecules
(Uppsala, Sweden: 84.08.22-24)

5th International Conference on Organic Synthesis
(Freiburg i. Br., FRG: 84.08.27-30)

International Symposium on Quantitative Luminescence Spectrometry in Biomedical
Sciences
(Ghent, Belgium: 84.09.03-06)

2nd International Congress on Automation in Clinical Laboratory
(Barcelona, Spain: 84.10.15-18)

2nd International Symposium on Harmonization of Collaborative Analytical Studies
(Washington, DC, USA: 84.10.25-27)

30th International Symposium on Macromolecules
(The Hague, Netherlands: 85.08.18-23)

OFFICIAL REPRESENTATIVES OF IUPAC TO ITS SPONSORED SYMPOSIA
APPOINTED BY PRESIDENT SINCE 102nd EXECUTIVE COMMITTEE MEETING

(see also Minute 12.2/83, 102nd Executive Committee)

- 2nd International Conference on Science and Technology of Zirconia
(Stuttgart, FRG: 83.06.21-23) - Prof. G. PETZOW
- 23rd Colloquium Spectroscopicum Internationale
(Amsterdam, Netherlands: 83.06.26-07.01) - Dr. D. P. DEN OS
- 24th Microsymposium on Macromolecules
(Prague, Czechoslovakia: 83.07.11-14) - Prof. C. H. BAMFORD
- 5th International Symposium on Boron Chemistry
(Swansea, UK: 83.07.11-15) - Prof. N. N. GREENWOOD
- 25th Microsymposium on Macromolecules
(Prague, Czechoslovakia: 83.07.18-21) - Prof. A. D. JENKINS
- 2nd International Symposium on Clinical Chemistry and Chemical Toxicology of Metals
(Montreal, Canada: 83.07.19-22) - Mr. T. H. G. MICHAEL
- 6th International Symposium on Plasma Chemistry
(Montreal, Canada: 83.07.25-28) - Prof. P. FAUCHAIS
- 7th International Conference on Chemical Education
(Montpellier, France: 83.08.21-26) - Prof. J. BÉNARD
- 9th International Congress of Heterocyclic Chemistry
(Tokyo, Japan: 83.08.21-26) - Letter of Greetings
- 2nd IUPAC Symposium on Organometallic Chemistry directed towards Organic Synthesis
(Dijon, France: 83.08.28-09.01) - Prof. J. MATHIEU
- 9th International Symposium on Microchemical Techniques
(Amsterdam, Netherlands: 83.08.28-09.02) - Prof. A. D. CAMPBELL
- 6th International Symposium on Cationic Polymerization
(Ghent, Belgium: 83.08.30-09.02) - Prof. C. H. BAMFORD
- International Conference on Fourier Transform Spectroscopy
(Durham, UK: 83.09.05-09) - Prof. N. SHEPPARD
- 29th International Symposium on Macromolecules
(Bucharest, Romania: 83.09.05-09) - Prof. C. H. BAMFORD
- International Conference on Phosphorus Chemistry
(Nice, France: 83.09.05-09) - Prof. E. FLUCK