

International Union of Pure and Applied Chemistry

72nd MEETING OF BUREAU

Berlin, Germany 11-12 August 1999

MINUTES

1. INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA	1
2. MINUTES OF 71ST MEETING OF BUREAU	1
2.1 MATTERS ARISING FROM MINUTES (NOT COVERED BY ITEMS ON AGENDA)	1
3. MINUTES OF 126TH MEETING OF EXECUTIVE COMMITTEE.....	1
4. APPROVAL OF BASIC ELEMENTS FOR COUNCIL MEETING	2
5. NOMINATIONS AND ELECTIONS [COUNCIL ITEM 4]	2
6. STATUS OF CHANGES IN ORGANIZATION AND MANAGEMENT OF IUPAC'S SCIENTIFIC ACTIVITIES.....	3
7. CHANGES TO STATUTES AND BYLAWS [COUNCIL ITEM 16]	5
8. CONTINUATION/DISSOLUTION OF EXISTING IUPAC BODIES, PROPOSALS FOR NEW AND RECONSTITUTED BODIES/TERMS OF REFERENCE [COUNCIL ITEM 17]..	5
8.1 CONTINUATION OF EXISTING COMMISSIONS	5
8.2 TERMS OF REFERENCE FOR PROJECT COMMITTEE AND EVALUATION COMMITTEE	6
8.3 REVISED TERMS OF REFERENCE FOR JCBN	6
9. PROPOSALS FORMALLY RECEIVED FROM NATIONAL ADHERING ORGANIZATIONS [COUNCIL ITEM 18]	6
9.1 PROPOSAL RECEIVED FROM UK	6
9.2 PROPOSAL RECEIVED FROM SLOVAK REPUBLIC	6
9.3 PROPOSAL RECEIVED FROM NORDIC COUNTRIES	6
10. SCIENTIFIC PROJECTS, 1998-9	7
10.1 CURRENT PROJECTS	7
10.2 NEW PROJECT APPROVAL SYSTEM.....	7
11. DIVISIONS – RECEIPT OF WRITTEN REPORTS [COUNCIL ITEM 9].....	8
11.1 ITEMS FROM MEETING OF DIVISION PRESIDENTS	8
12. STANDING COMMITTEES AND OTHER BODIES REPORTING TO COUNCIL AND BUREAU - RECEIPT OF WRITTEN REPORTS	8
13. VICE PRESIDENTIAL CRITICAL ASSESSMENT.....	8
14. THE UNION'S EDUCATION ACTIVITIES.....	10
14.1 CHANGE IN NAME AND TERMS OF REFERENCE FOR CTC	10
14.2 EX OFFICIO MEMBERSHIP ON BUREAU FOR CTC CHAIRMAN.....	10
14.3 DIDAC.....	10
15. STRATEGIC PLAN	11
15.1 INTERIM REPORT ON IMPLEMENTATION OF THE 1998-99 PLAN.....	11
15.2 CHANGES TO THE STRATEGIC PLAN FOR 2000-1	11
16. REPORT OF TREASURER AND FINANCE COMMITTEE.....	11
16.1 RECOMMENDATION ON APPOINTMENT OF AUDITORS FOR 1997-8 [COUNCIL ITEM 8].....	11

**Bureau Minutes
Berlin 1999**

16.2	STATEMENT OF ACCOUNTS FOR 1997 AND 1998 [COUNCIL ITEM 8]	12
16.3	RECOMMENDED BUDGETS FOR 2000-1 [COUNCIL ITEM 15].....	12
16.4	RECOMMENDED NATIONAL SUBSCRIPTIONS FOR 2000-1 [COUNCIL ITEM 15]	12
16.5	ALLOCATIONS TO IUPAC BODIES, 2002-3	13
16.6	ENDOWMENT FUND	13
16.7	FINANCE COMMITTEE MEMBERSHIP.....	13
17.	ORGANIZATIONAL RELOCATION OF THE COMMISSION ON BIOTECHNOLOGY TO DIVISION III [COUNCIL ITEM 17]	13
17.1	POSSIBLE CHANGE IN DIVISION NAME	14
18.	PROPOSED CATEGORY OF "ASSOCIATE NATIONAL ADHERING ORGANIZATIONS" [COUNCIL ITEM 19]	14
19.	FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS.....	14
20.	STATUS REPORT ON IUPAC SECRETARIAT	14
21.	IUPAC WEB SITE AND OTHER PUBLICITY ABOUT THE UNION.....	14
22.	PUBLICATIONS	15
22.1	STATUS REPORT ON PUBLICATIONS.....	15
22.2	PLANS FOR PUBLISHING <i>PAC</i> AND BOOKS.....	16
22.3	APPROVAL OF <i>PAC</i> AND <i>CI</i> SUBSCRIPTION RATES FOR 2000	16
22.4	PLANS FOR SPECIAL ISSUES IN <i>PURE AND APPLIED CHEMISTRY</i>	17
22.5	SUPPLEMENT TO "HISTORY OF IUPAC"	17
23.	FUTURE GENERAL ASSEMBLIES AND CONGRESSES.....	18
23.1	41 ST GENERAL ASSEMBLY AND 38 TH CONGRESS (BRISBANE, 2001) [COUNCIL ITEM 20]	18
23.1.1	<i>Arrangements</i>	18
23.1.2	<i>Scientific Program</i>	18
23.1.3	<i>Support for Young Scientists from Developing Countries</i>	18
23.2	42 ND GENERAL ASSEMBLY AND 39 TH CONGRESS (OTTAWA, 2003) [COUNCIL ITEM 21]	18
24.	SPONSORSHIP OF CONFERENCES IN DEVELOPING COUNTRIES	19
25.	IUPAC PRIZE FOR YOUNG SCIENTISTS	19
26.	NAO APPROVAL FOR FUND-RAISING.....	20
27.	UNESCO-IUPAC INTERNATIONAL COMMITTEE ON CHEMISTRY	20
27.1	WORLD CONFERENCE ON SCIENCE.....	20
27.2	TRAINING PROGRAM IN INDIA	20
28.	IUPAC COOPERATION IN AFRICA	20
29.	MEETING OF PRESIDENTS OF REGIONAL CHEMICAL SOCIETIES	21
30.	APPROVAL OF ELECTED OFFICERS OF DIVISIONS [COUNCIL ITEM 22].....	21
31.	MEMBERSHIP IN THE UNION [COUNCIL ITEM 23].....	21
32.	APPLICATION FOR ASSOCIATED ORGANIZATION STATUS [COUNCIL ITEM 24]....	21

**Bureau Minutes
Berlin 1999**

33. RATIFICATION OF SPONSORSHIP OF SYMPOSIA.....	21
34. RATIFICATION OF APPOINTMENTS TO IUPAC BODIES.....	21
35. CHANGE OF UK NATIONAL ADHERING ORGANIZATION	22
36. ASSIGNMENT OF VOTES IN FUTURE COUNCIL MEETINGS.....	22
37. DATES AND PLACE OF NEXT BUREAU MEETING.....	22
38. ANY OTHER BUSINESS	22

International Union of Pure and Applied Chemistry

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Berlin, Germany 11-12 August 1999

MINUTES

Attendees: Prof. J. Jortner, Chairman, Dr. E. D. Becker, Prof. A. Chakravorty, Prof. J. Corish, Prof. T. Cvitaš, Prof. A. E. Fischli, Prof. R. G. Gilbert, Prof. E. J. Grzywa, Dr. A. Hayes, Prof. F. Ingman, Prof. J. W. Lorimer, Prof. J. Miyamoto, Dr. P. M. Norling, Prof. H. Ohtaki, Prof. U. K. Pandit, Dr. E. P. Przybylowicz, Prof. G. M. Schneider, Prof. G. Somsen, Prof. P. S. Steyn, Prof. L. Sydnes, Prof. J. M. Ward, Prof. G. C. Wermuth, Dr. A. N. Wright, Prof. C. H. Zhang

Guests: Dr. C. Buxtorf, Prof. G. den Boef, Dr. W. Warr

Secretary: Dr. J. W. Jost, Executive Director

1. INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Prof. Jortner opened the meeting by thanking the Gesellschaft Deutscher Chemiker for inviting the General Assembly and Congress to Berlin. He offered the congratulations of the Bureau and the Union to the GDCh on the 50th Anniversary of its refounding. Prof. Jortner noted the progress made in the past biennium on the work of the Union. He noted especially the adoption of a Strategic Plan, the initiation of changes in the organization and management of IUPAC's scientific work, the establishment of procedures for project approval and evaluation, the continuing excellence of the Union's scientific work, and the continuing efforts to increase the impact of IUPAC on chemistry and society. There were no changes to the proposed agenda.

2. MINUTES OF 71ST MEETING OF BUREAU

2.1 MATTERS ARISING FROM MINUTES (NOT COVERED BY ITEMS ON AGENDA)

There were no items arising from the Minutes of the 71st Bureau meeting not on the Agenda.

Prof. Somsen asked if Item 7 of the Bureau Minutes regarding the Division Presidents meeting would be discussed. Dr. Becker noted that the subject had been discussed at the Division President's Meeting on Monday and that a report was in preparation.

The Minutes of the 71st Meeting of the Bureau were approved.

3. MINUTES OF 126TH MEETING OF EXECUTIVE COMMITTEE

The Minutes of the 126th Meeting of the Executive Committee were received by the Bureau. Prof. Jortner noted some of the highlights from the Minutes of the Executive Committee, including the Vice President's Critical Assessment and the Workshop on Advanced Materials held in Hong Kong this past July. Prof. Somsen noted his appreciation of the decision by the EC to extend distribution of *Chemistry International* to IUPAC Fellows indefinitely. He then asked what decisions had been made concerning the projects submitted to ICSU for funding. Dr. Becker replied that

Bureau Minutes Berlin 1999

the project on Biodiversity Workshops, submitted to ICSU in the greater than USD 50 000 category, had been denied by ICSU. IUPAC had agreed to fund part of the costs of this project in 1999 from central funds, with the remainder to be funded from divisional funds. The three projects submitted in the less than USD 50 000 category had been funded by ICSU for a total of USD 7000. Discussions were in progress to decide how to allocate this money.

Prof. Corish noted that the Working Party on Priority Claims for Elements 110-112 had completed its work. A report on its findings had been drafted and after further consultation would be published. Item 31 of the Executive Committee Minutes should be corrected to show that the next step will be taken by the Commission on Nomenclature of Inorganic Chemistry (CNIC), not by a Task Group. There were no questions about other items not on the Agenda.

4. APPROVAL OF BASIC ELEMENTS FOR COUNCIL MEETING

Dr. Becker noted the change in the total number of votes assigned to delegations due to the nonpayment by the Pakistan Chemical Society of its 1998 National Subscription. He then reviewed the voting procedures to be used during the Council Meeting. He noted that the bylaws require separate ballots for each Officer. In order to save time in the process the ballots for the three Officers will be distributed simultaneously and the voting carried out concurrently since there are no contests for the Secretary General and Treasurer positions. The Bureau approved the appointment of Dr. S. Langer, nonvoting secretary of the United Kingdom delegation, and Dr. J. Morton, nonvoting secretary of the Canadian delegation, as Tellers, along with the Treasurer, Prof. J. M. Ward. The Bureau then approved a recommendation to Council that elections be held at 10 AM on Saturday (14 August 1999).

5. NOMINATIONS AND ELECTIONS [COUNCIL ITEM 4]

Dr. Becker reviewed the candidates for Officers and the Bureau. The effect of the election of each of the candidates for Vice President on the election of members to the Bureau was described. He pointed out that the bylaws require that there be at least ten elected members of the Bureau. The Bureau may decide to increase the number of elected members if it wishes.

Prof. Jortner commented that the Union had been making efforts to increase its geographical spread. With the increase in the number of National Adhering Organizations and the increase in the work expected from Bureau members, it might be reasonable to increase the number of elected members by one or two. There was a general discussion of the advisability of increasing the number of elected members to its previous number of twelve, or to eleven as a compromise. The consensus was that a change was not now warranted. The question will be reconsidered at the next General Assembly.

Prof. Jortner asked if there were any additional nominees for Vice President, Secretary General, or Treasurer. Prof. Ward reviewed the qualifications of Dr.

Bureau Minutes Berlin 1999

Buxtorf, the nominee for Treasurer. There were no additional nominations.

Prof. Jortner asked if there were any nominations for the Bureau. There were none.

Prof. Jortner asked if the Bureau wished to make any recommendations to the Council on any of the elections. The Bureau did not wish to make any recommendations.

6. STATUS OF CHANGES IN ORGANIZATION AND MANAGEMENT OF IUPAC'S SCIENTIFIC ACTIVITIES

Prof. Jortner noted that the program approved by the Bureau at its meeting in Frankfurt was an integrated program. This program is well under way. The Division Committees have been given greater responsibility. The Project Approval and planning process is proceeding. The steps the Council is being asked to approve will enable the continuation of the holistic program approved by the Bureau. What is wrong in the current system is not individual Commissions but the Commission structure as an organizational form.

Dr. Becker reviewed the paper in the Agenda Materials. Most implementation items have been initiated. Two implementation items require approval by Council: the change to Bylaw 4.307 (see [Attachment 1](#)) regarding the right of Titular Members of IUPAC bodies to receive support and under Bylaw 4.302, decide to continue each of the current Commissions for the next biennium only, with termination at the end of 2001. The right of Titular Members of IUPAC bodies to receive support has not engendered much discussion and seems to be generally accepted. The non-continuation of Commissions has also received widespread support, but two counter-proposals have been received from NAOs and several individuals have voiced strong objections. While some Commissions feel the need to continue, most seem to believe that their work can be carried on under the new structure. It would be difficult to continue some Commissions and not others.

Dr. Becker then noted the new role of the Division Committees. They are not expected to generate new projects or to cover all of a broad area of chemistry. He also pointed out that Commissions can be reestablished using the procedure described in Bylaw 4.301. The response of the Divisions to the new processes has been good. Project proposals are being handled. All the Division Committees have been expanded to include current Commission Chairmen. Division II has gone through the full Nominating Committee procedure for choosing new members of the Division Committee.

Dr. Becker pointed out that current Commission Members are in an excellent position to submit new projects. He also noted that the new Project Committee had met and the Chairman, Prof. den Boef would report to the Bureau later in the meeting. The Evaluation Committee had also met and was beginning its work.

In summary, a large amount of work has already been done. A major issue that must be decided before the 2001 General Assembly is what constitutes the membership of a Division. This must be decided to determine the electorate for the Division Committee. One proposal is to include the Chairmen of Task Groups and possibly the

Bureau Minutes Berlin 1999

members of ancillary bodies.

Dr. Becker then introduced a proposed Policy Statement by the Bureau on National Representatives. It was noted that National Representatives normally participate by e-mail and therefore NR candidates should have internet e-mail access. Travel and subsistence is normally not provided by IUPAC for NRs. A number of members commented on the importance of NRs to the interaction of IUPAC with the worldwide chemistry community. Further discussion noted the importance of NRs as a mechanism for bringing new people into IUPAC activities. Prof. Steyn suggested that a phrase be added to the Policy statement regarding the situation in which a nominee is suggested by the Chairman of the Task Group to the NAO for Nomination as a National Representative. The Policy Statement (see [Attachment 2](#)), as amended, was unanimously approved by the Bureau.

Prof. Jortner expressed his appreciation of the leadership shown by the Division Presidents in the past two years. He then asked Prof. Schneider to give a brief overview of the first meeting of the Evaluation Committee.

Prof. Schneider began by reviewing the Terms of Reference of the Committee. He described the Committee's work as having two main aspects. The evaluation of the conformance of completed projects to plan. This is a relatively short term activity that can be done soon after a project is completed. It involves reviewing data compiled by the Secretariat on expenditures vs. budget, actual time required for completion, nature of the product, report, book, web database, etc. as compared to the original proposal. The second aspect is a longer term activity, namely, the evaluation of the impact of a project. This can usually only be done some time after the project is completed and requires judgement based on a number of criteria-- some quantitative, such as citations, web site hits, adoption by journals; others more qualitative, based on evidence regarding the use of the information in a report by the industrial or academic chemical community. The Committee plans to begin its work by requesting each Division and Standing Committee to submit two projects for evaluation, one recently completed and one completed long enough in the past so that its impact on the community can be measured. A meeting will be held early in 2000 to review the submitted projects. This will enable the committee to prepare a report for the Bureau meeting in September 2000.

The Bureau then discussed a number of different points. It was noted that the Division Committee is solely responsible for approving projects for Division Funding. The need for a special procedure in the case of projects submitted by a member of the Division Committee, especially the Division President, was noted. The importance of titles was discussed. While the group recognized their importance, it was also felt to be important not to use the same titles in different circumstances. The question of the ability of Division Committees to form subcommittees was discussed. Divisions have been asked to terminate all existing Subcommittees as part of the change to a project driven system. However, Division Committees can form new subcommittees if they feel they are necessary for the work of the Division. The procedure for selection of Division Officers was reviewed. Division Committees are

Bureau Minutes Berlin 1999

elected by the membership of the Division from a slate of nominees selected by a Nominating Committee. The Nominating Committee should have three outside members. The Division Officers are then elected by the members of the Division Committee. It was noted that since the Division Committees are self-controlling, it was important to have external reviewers for projects and outside members of the Nominating Committees. The importance of defining the electorate for the Division Committee was noted. Election by e-mail can lead to a depersonalization of the process. The value of having some members of Task Groups at the General Assembly was stressed. The structure of the General Assembly will in the future be largely up to the Divisions.

A brief discussion of the project approval system noted that the Division Committee names outside reviewers and raised the question of the possible value of an example to clarify for Council how a project is approved. The role of the Division Committee is seen as that of managing projects, not originating them. The suggestion was made that those National Chemical Societies that are not NAOs should be asked to suggest (via their NAOs) National Representatives for projects. IUPAC sponsored conferences were seen as a potentially important source of project ideas.

The mechanism for the creation of a new Commission according to the procedure described in Bylaw 4.301 was discussed. The earliest that a proposal to create a new Commission can be brought before Council will be at Brisbane. This requires presentation of a proposal to the Bureau in 2000 and the formation of a three member Committee. It was pointed out that this procedure transfers the burden of proof to those who wish to create a new Commission.

Prof. Gilbert reported that his Division Committee had voted (19 for 11 against) to formally request that Commission IV.1 be continued. Prof. Jortner noted that the Council will make the final decision on continuing any Commissions. It is not clear that the interests of the chemical sciences are best served by four commissions on Nomenclature. He proposed that an *ad hoc* Committee on IUPAC Strategy for Chemical Nomenclature be created to study this most important issue. The importance of having representation from the existing Nomenclature Commissions on the *ad hoc* Committee was stressed by a number of members. The discussion emphasized the necessity of having the *ad hoc* Committee finish its work in time so that its report can be available to guide the Bureau if, as expected, requests are made to create new Commissions. The Bureau authorized the President to form the proposed *ad hoc* Committee on IUPAC Strategy for Chemical Nomenclature.

7. CHANGES TO STATUTES AND BYLAWS [COUNCIL ITEM 16]

8. CONTINUATION/DISSOLUTION OF EXISTING IUPAC BODIES, PROPOSALS FOR NEW AND RECONSTITUTED BODIES/TERMS OF REFERENCE [COUNCIL ITEM 17]

8.1 CONTINUATION OF EXISTING COMMISSIONS

Bureau Minutes Berlin 1999

8.2 TERMS OF REFERENCE FOR PROJECT COMMITTEE AND EVALUATION COMMITTEE

8.3 REVISED TERMS OF REFERENCE FOR JCBN

Agenda Items 7 and 8 were discussed as one item.

Dr. Becker reviewed the change being requested in Bylaw 4.307. The need to obtain Council approval to make the Project Committee and the Evaluation Committee Standing Committees was noted. The changes proposed in the Terms of Reference of the Joint Committee on Biochemical Nomenclature were discussed. The Joint Committee will be continued for two years. Its further continuation after 2001 will be discussed with the International Union of Biochemistry and Molecular Biology.

Prof. Corish reported to the group the general support of the Division Committee of Division II for the continuation of the work of the Commission on Atomic Weights. There was a discussion as to the desirability of including this as part of the assignment of the proposed *ad hoc* Committee on Strategy for Chemical Nomenclature. The consensus was that this issue was best addressed by a proposal from the Commission that explained why its work could not be carried out in the new format.

9. PROPOSALS FORMALLY RECEIVED FROM NATIONAL ADHERING ORGANIZATIONS [COUNCIL ITEM 18]

9.1 PROPOSAL RECEIVED FROM UK

Dr. Becker reviewed the UK resolution, noting that while the sense of the resolution is that work in certain areas should be continued, the exact wording creates difficulties. Dr. Hayes described the origins of the UK resolution. The group discussed the resolution and came to the conclusion that the aim of the UK resolution could be best met by a Bureau Policy Statement. Prof. Corish was asked to draft such a statement. This draft, with some modifications, was adopted unanimously by the Bureau (see [Attachment 3](#)).

9.2 PROPOSAL RECEIVED FROM SLOVAK REPUBLIC

The proposal from the Slovak Republic was seen as covering two areas. The first was similar to the UK resolution, a desire to ensure that activities in certain key areas be continued in the new system. The second was a comment on the Strategic Plan.

9.3 PROPOSAL RECEIVED FROM NORDIC COUNTRIES

Part 1 of this proposal led to the Policy Statement on National Representatives described in Item 6.

Part 2 of this proposal addresses the role of the Interdivisional Committee on Nomenclature and Symbols. This issue is addressed by the proposal for an *ad*

Bureau Minutes Berlin 1999

hoc Committee to study IUPAC's Strategy for Chemical Nomenclature.

10. SCIENTIFIC PROJECTS, 1998-9

10.1 CURRENT PROJECTS

Dr. Jost briefly reviewed the project approval system as it has evolved based on the experience gained with projects submitted in 1999. He also noted that the number of current projects in the database of current projects continued to decrease as Commissions brought the information in the database up to date. Prof. Jortner commented that the data presented indicated that of 341 projects in the Handbook, 29 were completed in 1998-9. This led to the conclusion that the average life of a project was more than ten years. While this calculation was simplistic, it did highlight the problem that too many projects took too long to be completed.

10.2 NEW PROJECT APPROVAL SYSTEM

Prof. den Boef reviewed the meeting of the Project Committee held on Wednesday, 11 August. The Committee had the opportunity to review two projects earlier in the year. This brought a number of issues to the Committee's attention. The need to develop an agreed upon procedure with the Division Committees, Standing Committees and the Bureau for handling project approvals was necessary. The position of the Standing Committees is not well defined in some of the background material and needs to be clarified. The concept of Relevant IUPAC Body, as used in the Project Submission Form, needs to be clarified. In doubtful cases the Secretariat should consult the Secretary General.

The Committee felt that the outside reviewers would be helped by having a form to fill out. The Introduction to the form should provide some background information in addition to the material available on the Web Site or in *Chemistry International*. The revised form will be circulated for comment. The Project Committee felt it was important that it be able to ask for reviews by additional referees if necessary. The names of reviewers should be known to the Division Committee and the Project Committee but not to the project proposers. The Committee also felt that the Division Committee should provide their written assessment of a project when submitting it to the Project Committee.

The Committee felt that speed was important. The members agreed to a target of two weeks for a decision. The Committee will not wait to accumulate projects but will act on projects as they are received. The letter transmitting the funding decision should be sent by the Secretariat in the name of the Secretary General.

Prof. Jortner expressed his thanks to Prof. den Boef and the Committee and

Bureau Minutes Berlin 1999

noted that the project approval process is central to maintaining the image of IUPAC. Prof. Becker noted that while the funding letter will come from the Secretariat, further communication regarding project administration should be with the Division Committee. Prof. Corish suggested that the categories Materials, Biomolecular, and Environmental should be added to the form. Prof. Steyn requested that in future the list of projects under review should include the proposed budget and time scale.

11. DIVISIONS – RECEIPT OF WRITTEN REPORTS [COUNCIL ITEM 9]

11.1 ITEMS FROM MEETING OF DIVISION PRESIDENTS

Prof. Gilbert made a brief report on the meeting of Division Presidents held on Monday, 9 August. Among the main points presented were that voting for Division Committees in 2003 should be by correspondence, the desirability of providing a list of possible criteria for retrospective evaluation and examples of projects that had been approved by the Division Committees and the Project Committee. Two subjects were deferred to the next Executive Committee Meeting: the question of an official language for IUPAC sponsored conferences and a proposal to distribute *Pure and Applied Chemistry* free to institutions in developing and economically disadvantaged countries.

12. STANDING COMMITTEES AND OTHER BODIES REPORTING TO COUNCIL AND BUREAU - RECEIPT OF WRITTEN REPORTS

Prof. Jortner noted that the reports of the Division Presidents and Standing Committee Chairmen had been received with thanks and had been transmitted to the Council for their information. He noted that the Chairman of the Committee on Printed and Electronic Publications would present a report on the meeting of the Committee earlier in the week, 8-9 August, when Item 22 of the Agenda was discussed. Dr. Wright drew the attention of the Bureau to the recent decision of SINOPEC, the largest petrochemical company in China, to become a Company Associate. He also noted that UNESCO had asked for 250 copies of the special issue on Environmental Oestrogens to distribute to its member governments.

13. VICE PRESIDENTIAL CRITICAL ASSESSMENT

Dr. Hayes noted that his VPCA should be viewed as being complementary to Prof. Jortner's. Where Prof. Jortner had focussed on the Divisions and the management of the Union's scientific work, Dr. Hayes described his focus as being on the Standing Committees and the relationship of IUPAC with other organizations, especially industry and national chemical societies. As a first step to implementing a closer relationship with the chemical industry, Dr. Hayes reported on a visit he and the Executive Director had made to the Executive Directors meeting of the International Council of Chemical Associations, an association of Chemical Industry

Bureau Minutes Berlin 1999

Trade Associations. His message to the group was that while IUPAC could not and did not want to represent the industry at the global level, IUPAC could provide good scientific information in areas of concern to the industry on a global level.

Dr. Hayes then requested that the Bureau approve a proposal to create an *ad hoc* Committee on the Relationship of IUPAC and the Global Chemical Industry. This *ad hoc* Committee would study the following issues:

- How can IUPAC attract more industrial participation?
- What will it take to persuade managers to allow more participation by their scientists?
- How should IUPAC manage its relationship with the global chemical industry?
- What is the role of COCI?

Prof. Fischli reminded the Bureau that of all the ICSU Unions, only IUPAC has an industrial component. This is an important part of IUPAC and must be maintained and improved. Dr. Miyamoto noted that the ICCA had asked for advice from Division VI on the definitions to be used for the properties of Persistent Organic Pollutants (POPs). Prof. Gilbert noted that the value of IUPAC work to industry needs to be better documented. Division IV has proposed industrial value as one of the Retrospective Evaluation Criteria.

The Bureau approved the proposal of the Vice President that an *ad hoc* Committee be formed.

Dr. Hayes then discussed the relationship of the Union with the national chemical societies that were not NAOs. He proposed that an annual meeting be organized, building on the current meeting of chemical society Presidents convened by the host chemical society for the IUPAC Congress. A World Leadership Conference on Chemistry would also include leaders of chemical industry associations and regional chemical society federations. The purpose of such a meeting would be to discuss how the participants could work together and foster collaboration on projects of global significance. Dr. Grzywa noted that he had organized a high level meeting of European Chemical Societies and chemical industry. The discussion at the meeting had been good, but there had been little activity on implementation of the ideas discussed.

Prof. Jortner then asked what the general sense was on this proposal. The Bureau encouraged Dr. Hayes to pursue this concept.

Dr. Hayes briefly reviewed the proposal in his VPCA to designate COCI, CHEMRAWN, and CTC as operational committees. This would draw a distinction between these committees and the other Standing Committees which were advisory committees to the Bureau. The Bureau recommended that the Council approve this proposal. Discussion of the proposals regarding the education activities of the Union was postponed to Item 14.

Dr. Hayes then noted that the review of IUPAC interaction with UN agencies was still in progress. He informed the Bureau that he would be pursuing this question with

**Bureau Minutes
Berlin 1999**

the UNESCO representative at the meeting of the International Chemistry Council next week. Dr. Hayes concluded by thanking all those who had provided essential input for his VPCA.

14. THE UNION'S EDUCATION ACTIVITIES

14.1 CHANGE IN NAME AND TERMS OF REFERENCE FOR CTC

Prof. Jortner introduced the subject by noting it came from Dr. Hayes' VPCA. He commented that education in chemistry is the basis of education in science. IUPAC should not attempt to replace Governments and national bodies. Problems of education are different for developed and developing countries. CTC is currently involved in secondary and undergraduate education and in the coordination of the Union's education activities. Dr. Hayes in his VPCA has proposed that the CTC might be given a broader mandate and its name changed to reflect that broader mandate. The collaboration of CTC with COCI and CHEMRAWN on the upcoming education CHEMRAWN Conference was noted. Prof. Schneider asked if the Union was concerned with University Education and the equivalence and acceptance of degrees internationally. Prof. Wermuth noted that a group in Division VII was writing a pamphlet on science for the general public and another group had studied the Medicinal Chemistry Curriculum worldwide. He commented that this kind of activity might be part of the function of a Committee on Chemical Education.

Dr. Hayes proposed that the President be asked to appoint an *ad hoc* Committee on the Education Activities of the Union and that the question of a change in name and Terms of Reference be postponed until this Committee reports to the Bureau. The Bureau approved this proposal.

14.2 EX OFFICIO MEMBERSHIP ON BUREAU FOR CTC CHAIRMAN

Dr. Hayes then proposed that the Bureau recommend to Council that the Chairman of CTC be made an *ex officio*, nonvoting, member of the Bureau, joining the Chairmen of the other operational committees. The Bureau approved this proposal.

14.3 DIDAC

Prof. Fischli described the DIDAC materials, a set of transparencies for use by secondary school teachers to teach fundamental chemical concepts. He hoped that the members had all had the opportunity to see the display presented by AGFA-Gevaert. The proposal is to have UNESCO distribute these materials to 15 countries. UNESCO is also studying the possibility of have this material translated into languages other than English, French and Dutch. Dr. Wright noted that DIDAC was being used in the Moscow school system. The possibility of making this material available on the IUPAC web site was

Bureau Minutes Berlin 1999

discussed as well as converting it from transparencies to poster form. The latter format would make them more available for countries where overhead projectors were not readily available. The comment was also made that if IUPAC were to promote the use of DIDAC, the AGFA-Gevaert logo should be less prominent. Prof. Fischli commented that these issues should be discussed by COCI with AGFA-Gevaert.

15. STRATEGIC PLAN

15.1 INTERIM REPORT ON IMPLEMENTATION OF THE 1998-99 PLAN

Dr. Becker introduced the subject by noting the importance of ensuring that the Strategic Plan is not just filed away but is implemented. As one mechanism to promote implementation, each Division and Standing Committee was asked to provide a report describing how the work of that body had contributed to fulfilling the Strategic Plan. These reports were consolidated and arranged according to the goals of the Plan. The final edited report is contained in the Agenda Materials for this meeting. The summarization included removing the names of Commissions and other details that would not be relevant to the intended audience. Updates will be requested before the end of the year. A number of members commented that this was an excellent report and should be distributed to the NAOs. Prof. Gilbert suggested that the complete reports of each Division and Standing Committee be posted on the web along with the summary report. Prof. Lorimer suggested that the report be condensed to a set of bullet items for use on the web site. Dr. Hayes suggested that the Division Presidents and Standing Committee Chairmen could in future be asked to identify those activities that were undertaken as a direct result of the Strategic Plan.

15.2 CHANGES TO THE STRATEGIC PLAN FOR 2000-1

Dr. Becker noted that the Strategic Plan is intended to be changed and updated. No input has been received except from the Slovak and Belgian NAOs. The intent is to collect proposed additional changes and incorporate these into a revised Strategic Plan to be circulated to the Bureau for comments. A full discussion of the revised Strategic Plan could then take place at the 2000 Bureau Meeting.

Prof. Jortner expressed the thanks of the Bureau for the excellent report and its approval of the proposed process for updating the Strategic Plan.

16. REPORT OF TREASURER AND FINANCE COMMITTEE

16.1 RECOMMENDATION ON APPOINTMENT OF AUDITORS FOR 1997-8

[COUNCIL ITEM 8]

Bureau Minutes Berlin 1999

Prof. Ward described the difficulties that been experienced with IUPAC's long term auditors, Neutra Treuhand in 1998. Neutra Treuhand had in effect resigned as auditors by not arranging for an audit as requested. This had led to the employment of a local firm in Raleigh, North Carolina, USA, Batchelor, Tillery, and Roberts. The Bureau was asked to recommend to Council that the decision to employ Batchelor, Tillery and Roberts to conduct the audit of the 1997 and 1998 accounts be approved. The Bureau was also asked to approve the use of the same firm for the audit of the 1999 and 2000 accounts.

The Bureau recommended to Council that the appointment of Batchelor, Tillery and Roberts as IUPAC auditors be approved.

16.2 STATEMENT OF ACCOUNTS FOR 1997 AND 1998 [COUNCIL ITEM 8]

Prof. Ward reviewed the operational income and expense performance of the Union for 1997 through 1999. The net income for this period has been better than budget due to somewhat higher than budgeted publications income and lower than budgeted expenses at the Secretariat and in the Divisions. The Union's reserves are strong and the investment portfolio has performed well. Prof. Ward pointed out that the excellent investment performance cannot be expected to continue and some investment losses must be expected when the market enters the expected down phase of its cycle.

Prof. Ward then gave an overview of the Union's finances in the period 1990-1999 (see [Attachment 4](#)). He noted that the Union has recovered from its difficulties in 1990-1 and has kept expenses in control and built up its reserves. Divisional allocations have been increased in recent years and are now at a higher level, in real terms, than in 1990.

16.3 RECOMMENDED BUDGETS FOR 2000-1 [COUNCIL ITEM 15]

Prof. Ward discussed the proposed budget for 2000-1 (see [Attachment 5](#)). The budget increases the Divisional Allocation and also contains an operating reserve for use in funding new projects. Prof. Somsen hoped the Divisions would be able to effectively use the increased allocation since in the past they generally underspent their budgets. Dr. Becker observed that the Union is fortunate in having sufficient funding available for operating both the Commission system and the project system for this period. He noted that the reduced spending by the Secretariat compared to historical levels was not expected to continue. He expected that, as the project system developed, the Secretariat would add staff to provide additional support to Task Groups and other IUPAC bodies.

The proposed Budget was unanimously approved and recommended to Council.

16.4 RECOMMENDED NATIONAL SUBSCRIPTIONS FOR 2000-1 [COUNCIL ITEM 15]

Bureau Minutes Berlin 1999

Prof. Ward noted that the total National Subscription was being increased by only 1% in each year. He strongly urged that an increase, even a small one, be approved to avoid the situation of the period before 1990. The freezing of National Subscriptions for a number of years had led to the difficult financial situation in the early 1990s described above.

The proposed National Subscriptions were unanimously recommended to Council.

16.5 ALLOCATIONS TO IUPAC BODIES, 2002-3

Prof. Ward described the expected situation in the biennium 2002-3. The new structure of the Union should lead to a less expensive General Assembly. The proposed scheme would use these savings to increase Division Allocations and would also create a fund to be used for additional projects. This fund would enable the Union's resources to be used for those areas that require extra funding, rather than making a fixed allocation to each Division.

16.6 ENDOWMENT FUND

Dr. Jost briefly reviewed the commitments that had been made from the income of the Endowment Fund to date.

16.7 FINANCE COMMITTEE MEMBERSHIP

Prof. Ward noted that with the addition of Dr. G. Martens, the Finance Committee was now at full strength. He also noted that Dr. Przybylowicz had assumed the Chair of the Committee at the 1999 meeting.

17. ORGANIZATIONAL RELOCATION OF THE COMMISSION ON BIOTECHNOLOGY TO DIVISION III [COUNCIL ITEM 17]

Prof. Pandit described the reasons for the establishment of the Commission on Biotechnology as an independent Commission reporting to the Bureau. The Commission had now developed a program and stabilized its membership. All those involved felt that the time had come to move the Commission to Division III. The Commission was expected to jointly develop programs with the Subcommittee on Bioorganic Chemistry, as well as to continue its interdivisional focus. The Bureau recommended to Council that the proposed move be approved. Prof. Fischli commented that ICSU has dissolved its two committees in the biotechnology area, COBIOTECH and COGENE and replaced them with a new Committee, SCGB (Steering Committee on Genomics and Biotechnology). The Commission on Biotechnology has already established a relationship with SCGB.

Prof. Pandit then noted that the *ad hoc* Interdivisional Committee on Biomolecular Chemistry had completed the task of coordinating the bio-related activities of Divisions I, II, III, and VII. The Committee planned, as a joint activity for the biennium 1998-9, a Symposium on "Novel Porphyrinoids". This symposium will be

Bureau Minutes Berlin 1999

held as part of the 37th IUPAC Congress next week. Division III, as charged, will continue to coordinate the biomolecular chemistry activities within the Union. The Bureau thanked Prof. Pandit and the *ad hoc* Committee for their work and noted that it was now terminated.

17.1 POSSIBLE CHANGE IN DIVISION NAME

Prof. Pandit described the discussions that had taken place both in Division III and with other Divisions regarding a suitable name to express the expanded activity of the Division. The recommendation to the Bureau was that the name of Division III be changed to the Division of Organic and Biomolecular Chemistry. The Bureau approved this recommendation for action by Council.

18. PROPOSED CATEGORY OF "ASSOCIATE NATIONAL ADHERING ORGANIZATIONS" [COUNCIL ITEM 19]

Dr. Becker introduced the subject by noting the desire of the Union to involve more countries in the work of the Union. The two options described in the position paper presented to the Council cover a range of possibilities for new forms of association short of full membership. The discussion concluded that the Bureau should recommend to Council that the category of Observer Country be replaced with that of Associate National Adhering Organization, with no change in membership fee or benefits. It was felt that the name change would emphasize the desire of the Union to have the ANAOs be more than observers of the work of the Union.

19. FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS

Dr. Jost reviewed the cost of operating the AMP in its current form. The program shows a small net income from dues in excess of the costs of operating the program. This is due to the reduced cost of providing *Chemistry International* since IUPAC has begun publishing the magazine and the reduced operating costs of the program at the Secretariat due to a change in operating philosophy. The Bureau recommended to Council that the AMP be continued subject to a report to Council by the Secretary General each biennium.

The costs of the Fellows program are modest and the Executive Committee at its Tokyo meeting approved the distribution of free copies of *Chemistry International* to all Fellows indefinitely.

20. STATUS REPORT ON IUPAC SECRETARIAT

Dr. Jost reviewed the changes in staff at the Secretariat during 1998-9. Highlights of changes in operations regarding payments and collections were described.

21. IUPAC WEB SITE AND OTHER PUBLICITY ABOUT THE UNION

Dr. Jost described the dramatic increase in the amount of material contained on the

Bureau Minutes Berlin 1999

IUPAC web site. Of special note was the incorporation of information on the current projects of the Divisions and Standing Committees. This has resulted in greater attention to updating this information by the various IUPAC bodies as compared to the former situation where the current project information was available only at the Secretariat. Traffic at the web site has steadily increased since it was moved to North Carolina. Mirror sites are now available in the UK, Germany, and Japan. The ability to send e-mail notices to various groups, such as NAOs, members and fellows as well as other organizations by using a list server has greatly enhanced the Union's ability to communicate with its constituencies.

A standard set of transparencies has been created and provided to IUPAC representatives to IUPAC sponsored conferences. This has improved the ability of the representatives to describe IUPAC and its activities to their audiences.

22. PUBLICATIONS

22.1 STATUS REPORT ON PUBLICATIONS

Dr. Jost reviewed the experience of self-publishing *Chemistry International* in 1999. Costs have been significantly lower than when *CI* was published by Blackwell. In addition, *CI* now is on schedule to be delivered to subscribers in the issue month. The content of the magazine has been improved by including special articles on topics of general interest. *CI* is also available online on the IUPAC web site at no charge. The positive experience in publishing *CI* has given us confidence in the proposal to publish *Pure and Applied Chemistry* without an official publisher.

Pure and Applied Chemistry continues to be published behind the issue date. The July issue is expected to be published in September. The expectation is that *PAC* will not be back on schedule until early in 2000. The journal is no longer printed from camera ready manuscript, but is being typeset using desktop publishing technology. The table of contents of each issue is now available on the IUPAC web site as soon as the issue is published.

A special mailing was made to a list provided by the editor of the special issue on Oil Spill Technology. This has resulted in a number of orders for single copies. Orders continue to be received for the special issue on Environmental Oestrogens.

A number of books were published in 1998-9. The best seller continues to be the "Introduction to Chemical Nomenclature".

Dr. Warr reviewed the work of the Committee on Printed and Electronic Publications. She noted that because the Secretariat was now in a position to handle the operational issues regarding publications the Committee was concentrating on policy issues. These issues include the decision to selfpublish *PAC*, the strategy to be followed in deciding prices for 2000, and how the Union would approach electronic publishing.

Bureau Minutes Berlin 1999

22.2 PLANS FOR PUBLISHING *PAC* AND BOOKS

Dr. Warr described the analysis that had led to the recommendation to the Bureau and the EC to publish *PAC* without an official publisher. As was described in the material prepared for the meeting, copy editing for *PAC* will be done by a free lance copy editor while printing and distribution will be done by Cadmus Journal Services at their Maryland, USA facility. The Secretariat has added a new staff member to handle new responsibilities such as producing subscriber mailing lists, invoicing and payment collection, and subscriber services.

CPEP plans to have a study completed by the end of 1999 recommending how the Union should proceed in making *PAC* available electronically. The key issue is pricing in relation to the print version.

Dr. Y. Wolman, chairman of the *PAC* Editorial Advisory Board reported to CPEP that the Board had decided to look at how the quality of the material from IUPAC sponsored conferences printed in *PAC* could be improved. Prof. Jortner reminded the Division Presidents present that choosing divisional representatives to the PAC-EAB was an important responsibility in view of the planned more active role of the EAB. Dr. Wolman was asked to write a description of the role he expected the EAB to take in the future.

An official publisher is being sought for IUPAC books, especially the nomenclature books. No successful candidate has yet been found. In the interim, books are being handled on a case by case basis. A number of books planned for publication by Blackwell have already been placed with other publishers. Dr. Warr noted that there was still a question as to the accuracy of the data supplied by Blackwell regarding the backlist. Dr. Becker reported receiving a suggestion that in the future a copy of each book published by the Union could be sent to each NAO and ANAO, particularly those in developing and economically disadvantaged countries. The Executive Director was asked to look at the cost of implementing this suggestion.

22.3 APPROVAL OF *PAC* AND *CI* SUBSCRIPTION RATES FOR 2000

Dr. Warr discussed the considerations that had led the Committee to recommend the price structure shown below for *PAC* and *CI*.

Subscriptions Prices for IUPAC Publications – 2000	
<i>Pure and Applied Chemistry</i>	
Institutional Subscription	USD 1 166; one year USD 999; per year for three years
Personal Subscription	USD 99; one year

**Bureau Minutes
Berlin 1999**

Individual Copies	USD 50
<i>Chemistry International</i>	
Institutional Subscription	USD 99; one year
Personal Subscription	USD 45; one year
Individual Copies	USD 15

The three year subscription option for *Pure and Applied Chemistry* guarantees a subscription price of USD 999 per year for a three year subscription commitment. Each year will be billed separately.

The price for *PAC* is the same as it was for 1999, while that for *CI* is a reduction. The introduction of the three year option will allow the Union to generate some favorable publicity and draw attention to its publication policies. CPEP plans to issue a press release to draw attention to this dramatic pricing move.

The suggestion was made that the ANAOs be given a free subscription to *PAC*. This would help to make *PAC* more widely available in developing and economically disadvantaged countries and might make ANAO status more attractive. Dr. Becker suggested that a free copy of *CI* might be supplied to each library subscribing to *PAC*. The Executive Director was asked to look at the costs of implementing these suggestions and to consult CPEP for advice.

22.4 PLANS FOR SPECIAL ISSUES IN *PURE AND APPLIED CHEMISTRY*

Dr. Jost reported that Prof. Bull in his discussions with the PAC-EAB and CPEP had noted that two special issues were planned for late 1999 or early 2000. The first was an outgrowth of WAM-1 while the second was a joint effort by Divisions III and VI on sustainable chemistry. Prof. Bull has had discussions with most of the Division Committees to encourage them to suggest topics for future special issues. Prof. Fischli proposed that a special issue might be published on the topic of Genetically Modified Organisms as food sources.

22.5 SUPPLEMENT TO "HISTORY OF IUPAC"

Dr. Becker noted that the original suggestion for a supplement had been made with a view to capturing the information available at the Oxford Secretariat before operations were moved to North Carolina. Prof. Stan Brown had produced a manuscript that took the history of the Union through 1998. Considering the major issues regarding the Union's organization and operations to be decided at this General Assembly, it was now felt that the Supplement should cover through 1999. It was planned to have the Secretariat staff

Bureau Minutes Berlin 1999

complete the manuscript for publication in 2000.

23. FUTURE GENERAL ASSEMBLIES AND CONGRESSES

23.1 41ST GENERAL ASSEMBLY AND 38TH CONGRESS (BRISBANE, 2001) [COUNCIL ITEM 20]

23.1.1 Arrangements

Dr. Jost reviewed his trip report. The facilities visited were suited to the General Assembly and Congress. Prof. Gilbert gave an overview of the organization for the Congress and the General Assembly. The overlapping schedule of the Congress and General Assembly was an innovation. Dr. Jost noted that a *pro forma* schedule had been worked out that demonstrated the feasibility of this proposal. The Congress sessions would be held in the mornings and evenings, so that afternoons would be available for Commission meetings. Dr. Becker noted that the Council reception should be held on the Saturday evening of the first Council session rather than combined with the Congress event scheduled for Friday evening. It was felt that the delegates appreciated the opportunity to discuss the next morning's elections and other Council business at the reception and thus a Saturday reception would better meet their needs.

23.1.2 Scientific Program

Prof. Gilbert outlined the themes chosen for the Congress. Prof. Jortner noted that this Congress would be the second to be organized in accordance with the new guidelines for Congresses adopted by the Bureau.

23.1.3 Support for Young Scientists from Developing Countries

Prof. Jortner noted the success of the program to bring young scientists to the Berlin Congress. According to the Gesellschaft Deutscher Chemiker almost 250 grants had been made to allow young scientists to participate in the IUPAC Congress at Berlin. The Bureau was asked to approve the use of up to USD 25 000 from the income of the endowment fund to allow the participation of young scientists from developing and economically disadvantaged countries in the IUPAC Congress at Brisbane. This would be matched by a contribution from the local organizers.

The Bureau recommended to the Council that the 41st General Assembly and 38th Congress be held in Brisbane, Australia.

23.2 42ND GENERAL ASSEMBLY AND 39TH CONGRESS (OTTAWA, 2003) [COUNCIL ITEM 21]

Bureau Minutes Berlin 1999

Dr. Jost summarized the report of his trip to Ottawa. The facilities in Ottawa were satisfactory for both the General Assembly and Congress. All the venues and hotels are conveniently located with respect to each other. Ottawa has a good public transportation system, which will facilitate travel to the sites of the General Assembly and Congress for those who choose to stay in hotels outside of the central city. Prof. Lorimer noted that the date of the Annual Meeting of the Canadian Society for Chemistry had been changed to coincide with the Congress. The dates of the Congress are 10-15 August 2003, while the dates for the General Assembly are 8-17 August 2003. Most Committee meetings would be held on the Friday-Sunday before the Congress, with the Bureau and Council meetings being held from Thursday through Sunday at the end of the Congress. It is planned to have only a small number of Committee meetings during the week, thus enabling the attendees at the General Assembly to participate in the Congress. Both meetings will be organized by the Meetings Office of the National Research Council of Canada.

Prof. Jortner thanked the Canadian Society for Chemistry and the National Research Council of Canada for their kind invitation. The Bureau recommended that the 42nd General Assembly and 39th Congress be held in Ottawa, Canada.

24. SPONSORSHIP OF CONFERENCES IN DEVELOPING COUNTRIES

Prof. Ohtaki outlined his proposal. Some of the key issues to be decided were: the amount of support to be made available by IUPAC; the number of Conferences to be supported per year; the eligibility criteria for the countries requesting support. Prof. Jortner suggested two conferences be supported per year and only conferences held in NAOs be eligible for support. Dr. Norling asked if this program could be operated as part of the project system. Dr. Becker responded by noting that this was intended to be a high visibility grant program, which would be extensively publicized, hence does not fit in with normal projects. There was also a discussion of the question of supporting workshops. The consensus was that workshops were not the kind of major scientific conference at which this program was aimed. The desirability of making a site visit before approving a request for support was discussed. While the Bureau felt this might be useful in some cases the difficulty of arranging for a significant number of site visits made the concept impractical.

Prof. Jortner proposed that the Bureau recommend to Council a program of support for two conferences a year for up to USD 10 000 each. Eligibility is to be limited to developing and economically disadvantaged countries that are NAOs. A committee of four Bureau members would be appointed to review applications. The EC would be authorized to decide on the details of the program.

25. IUPAC PRIZE FOR YOUNG SCIENTISTS

Dr. Becker noted that this program had been approved conceptually by the Bureau in

Bureau Minutes Berlin 1999

1998 and that the details of this proposal had been approved by the EC. After some discussion the Bureau recommended that Council approve this significant new program.

26. NAO APPROVAL FOR FUND-RAISING

Dr. Becker described the probable origins of this requirement for IUPAC sponsored conferences. Prof. Jortner suggested that this should be referred to the EC for study and consideration. The Bureau approved this suggestion.

27. UNESCO-IUPAC INTERNATIONAL COMMITTEE ON CHEMISTRY

27.1 WORLD CONFERENCE ON SCIENCE

Prof. Fischli described the World Conference on Science, held 26 June - 1 July 1999 in Budapest, Hungary. Over 1800 scientists and policy makers attended the meeting. Many of those attending were UNESCO delegates. The meeting was jointly sponsored by UNESCO and ICSU, but, it followed UNESCO philosophy with cooperation from ICSU in the organization. The WCS approved two non-binding documents: the first on a Science Agenda-Framework for Action and the second a Declaration on Science and the Use of Scientific Knowledge. Other subjects discussed included opening up science for women, the disabled and indigenous people.

IUPAC organized two workshops at the WCS. One, on Science and New Materials, was organized by Prof. Corish and Prof. Gilbert. This was the only purely scientific event at the WCS. Prof. Corish reported that a sentiment expressed by many delegates from developing countries was the difficulty of keeping young people in their home countries.

The second workshop, on Science, Industry, and Knowledge as a Public Good was organized by Prof. Fischli and featured a number of prominent industrialists. It was the only event in which key industry representatives could participate.

27.2 TRAINING PROGRAM IN INDIA

Prof. Fischli described the program that had been approved by the International Chemistry Council EC at its meeting in Paris, January 1998. Due to budgetary problems UNESCO had been unable to provide the promised support. Prof. Rao had been informed that in the interim IUPAC would provide USD 5000 in anticipation of a UNESCO contribution later in 1999.

28. IUPAC COOPERATION IN AFRICA

Prof. Steyn reviewed the major events relating to Africa and IUPAC that had occurred over the past biennium. These included the wide distribution of the Garbers

Bureau Minutes Berlin 1999

report by IUPAC, the joint IUPAC-AAPAC meeting in Durban, the admission of the AAPAC as an Associated Organization of IUPAC, which was to be made final at this General Assembly. He also reported on a recent meeting of the American Chemical Society, the American Association for the Advancement of Science and the AAPAC. Two proposals that came out of that meeting were the creation of a database on chemistry in Africa and a Newsletter for African Chemists.

Dr. Jost described the web site that Dr. Meyers had created for the Network for the Valorization of Plant Materials in Africa. This site is contained on the IUPAC web site and has already generated some traffic. The creation of the web site has stimulated the VPMA group to provide more material for posting.

29. MEETING OF PRESIDENTS OF REGIONAL CHEMICAL SOCIETIES

Prof. Jortner briefly noted that the meeting of Presidents of Regional Chemical Federations and Societies would take place on Sunday 15 August 1999. This meeting would be a follow-up to the meeting held in 1998. The goal of the meeting is to foster cooperation among the regional federations, which represent many small chemical societies that cannot participate in many international activities.

30. APPROVAL OF ELECTED OFFICERS OF DIVISIONS [COUNCIL ITEM 22]

The Bureau recommended to Council the approval of the Division Officers elected by the Division Committees (see [Attachment 6](#)).

31. MEMBERSHIP IN THE UNION [COUNCIL ITEM 23]

The Bureau recommended that Council approve the membership of the Turkish Chemical Society and the Bulgarian Academy of Science as National Adhering Organizations.

32. APPLICATION FOR ASSOCIATED ORGANIZATION STATUS [COUNCIL ITEM 24]

The Bureau recommended that Council approve the application of the AAPAC for Associated Organization status with the Union.

33. RATIFICATION OF SPONSORSHIP OF SYMPOSIA

The Bureau ratified the Conference Sponsorships that had been granted since the meeting of the Executive Committee.

34. RATIFICATION OF APPOINTMENTS TO IUPAC BODIES

The Bureau approved the appointment of the following as Provisional Members of IUPAC bodies: Prof. Patrick Moyna and Prof. Ikenna Onyido

The Bureau approved the appointments made to IUPAC bodies at the General Assembly subject to review of exceptions to rules concerning terms of service by the

**Bureau Minutes
Berlin 1999**

President and Secretary General.

35. CHANGE OF UK NATIONAL ADHERING ORGANIZATION

The Bureau noted the change of the UK National Adhering Organization from the Royal Society to the Royal Society of Chemistry.

36. ASSIGNMENT OF VOTES IN FUTURE COUNCIL MEETINGS

Dr. Becker reviewed the position paper on the subject of the Assignment of Votes in Council. It had been noted that the current system, based on the absolute amount of National Subscriptions, was leading to a compression in the distribution of votes among the NAOs. That is, the number of NAOs in the lower voting categories was decreasing while the number in the middle categories was increasing. A system of assigning votes based on a relative National Subscription would avoid this. The position paper suggests a possible implementation of this idea. The EC has recommended that this subject should be deferred until the next General Assembly. The Bureau had a brief discussion of the subject and suggested that the EC should reintroduce the subject when it felt it was appropriate.

37. DATES AND PLACE OF NEXT BUREAU MEETING

The date and location for the next Bureau meeting were tentatively set for September 2000 in the United Kingdom, subject to the working out of the final arrangements.

38. ANY OTHER BUSINESS

There was no other business.

International Union of Pure and Applied Chemistry

73nd MEETING OF BUREAU

Berlin, Germany 14 August 1999

MINUTES

Attendees: Prof. J. Jortner, Chairman, Dr. E. D. Becker, Prof. J. Bradley, Prof. A. Chakravorty, Prof. J. Corish, Prof. T. Cvitaš, Prof. A. E. Fischli, Prof. R. G. Gilbert, Prof. E. J. Grzywa, Dr. A. Hayes, Prof. F. Ingman, Prof. J. W. Lorimer, Prof. J. Miyamoto, Prof. N. J. Moreau, Prof. O. Nefedov, Dr. P. M. Norling, Prof. H. Ohtaki, Prof. U. K. Pandit, Dr. E. P. Przybylowicz, Prof. G. M. Schneider, Prof. G. Somsen, Prof. P. S. Steyn, Prof. J. M. Ward, Dr. A. N. Wright, Prof. C. H. Zhang

Absent: Prof. L. Sydnes, Prof. G. C. Wermuth,

Secretary: Dr. J. W. Jost, Executive Director

Prof. Jortner welcomed the new members to their first Bureau meeting. The purpose of this meeting is to elect a new member of the Executive Committee from among the Elected Members of the Bureau. Prof. Jortner proposed Prof. Sydnes as a candidate and asked if there were any other nominations. There were no other nominations. Prof. Sydnes was then unanimously elected in a secret ballot.

There was no other business discussed.

Text of proposed Bylaw change, Agenda Item 16.

Current:

B4.307 Titular Members of Commissions have the right to receive contributions towards travel and subsistence expenses from funds of the Union as authorized by the Treasurer acting on behalf of the Union. Contributions may be made to Associate Members or members of subcommittees on recommendation of the Division or Section President and with the agreement of the Treasurer.

Proposed:

B4.307 Members of IUPAC bodies may receive contributions towards travel and subsistence expenses from funds of the Union, as authorized by the Treasurer. The Bureau shall establish procedures and guidelines for the approval of such expenses.

National Representatives: A Policy Statement by the Bureau **12 August, 1999**

The Bureau has discussed the role of National Representatives, particularly in relation to the integrated program approved by the Bureau in September 1998 to improve the organization and management of IUPAC's scientific activities. Bylaw 4.305 provides for the nomination and appointment of National Representatives, but defines their role solely by stating that they may attend Commission meetings. In fact, National Representatives participate in a range of activities within Commissions and Standing Committees, particularly the Committee on Teaching of Chemistry. The program approved by the Bureau envisions the termination in 2001 of current Commissions and ultimate reliance on a much smaller number of Commissions, together with a large number of Task Groups formed to carry out specific projects.

One of the aims of the new program is to open participation in IUPAC activities to the worldwide chemistry community. Any individual or group in any country or countries may submit a proposal for an IUPAC project and recommend people to carry out the project. The project-driven system thus has the potential to broaden participation internationally. However, the Bureau believes that each National Adhering Organization should have assurance that its scientists can participate in the full range of the Union's activities. The program approved last year specified that a limited number of National Representatives may be named to Division Committees, which will become the focus of the scientific activities. Although the size of each Division Committee must remain relatively small in order to carry out its business efficiently, the Bureau believes that some flexibility in numbers of National Representatives should be allowed.

Several NAOs have indicated that they would be able and willing to recommend candidates for Task Groups. In addition to such names being considered as part of the core membership of the Task Group, the Bureau believes that each NAO should be able to nominate National Representatives in much the way that they have nominated such Representatives to Commissions. Since each Task Group is to be devoted to a specific project, a National Representative must clearly be qualified and be willing to participate in the project.

The Bureau has adopted the following policies:

A National Representative, as defined in Bylaw 4.305, may be appointed as a non-voting member of a Division Committee on nomination by a National Adhering Organization and approval by the Division Committee. Normally the number of National Representatives on each Division Committee will be limited to six, but the Executive Committee may approve a larger number if requested by a Division Committee. A National Representative to a Division Committee is expected to participate (usually by e-mail) in the work of the Committee, including the provision of advice, where appropriate, concerning proposals for projects and Task Groups. The term of appointment is two years, renewable once. Exceptional circumstances must be established and approval of the Executive Committee must be obtained for appointment of a National Representative from a country that already has a Titular or Associate Member on the Committee.

A National Representative may be appointed to a Task Group on nomination by a National Adhering Organization and approval by the chairman of the Task Group. [In some instances the Division President or Chairman of the Task Group may suggest to the NAO the nomination of a specific person.] The appointment will normally run for the duration of the Task Group. A National Representative to a Task Group is expected to have expertise in the subject of the Task Group's project and to contribute (normally by e-mail) to the work of the Task Group.

Travel and subsistence expenses of National Representatives are normally not paid by IUPAC. National Adhering Organizations are encouraged to provide funds or to seek outside funds to permit occasional participation of National Representatives in meetings of Division Committees and Task Groups.

The Bureau has asked the Secretary General and the Secretariat to remain in close contact with NAOs and with Division Officers to ensure that these provisions are fully implemented and that National Representatives are given an opportunity to participate actively.

Policy Statement By The Bureau**12 August 1999**

The Bureau is aware of the concerns expressed by a number of members of IUPAC bodies regarding continuity in scientific activities with implementation of the two actions requested of Council in Agenda Items 16 and 17.

The Bureau wishes to emphasize that it is not the intention of the changes that it has proposed to discontinue nor even to interrupt those activities, such as the collection and critical assessment of useful data, the work on atomic weights and isotopic abundances and on chemical nomenclature, on which the international reputation of the Union has been established. The proposed changes will provide more flexible and effective structures within which these activities will continue. The two year interval until 2001 is intended to give adequate time for all our activities to be reviewed and for the putting in place of the most appropriate structures, including some new commissions, to carry forward the work of the Union.

Income and Expense Accounts- - Bottom Lines 1990-1999

(USD 000s)

<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999E</u>
12	(162)	(72)	23	149	113	291*	(194)	328	40

The biennial figures are:

<u>1990-91</u>	<u>1992-93</u>	<u>1994-95</u>	<u>1996-97</u>	<u>1998-99E</u>
(150)	(49)	262	97	368

* Excluding Barings windfall, USD 344K.

NB brackets denote a deficit; E an estimate.

	Budgets 2000 & 2001				
	(USD 000s)				
	Actual	Actual	Budget	Budget	Budget
	<u>1997</u>	<u>1998</u>	<u>2000</u>	<u>2001</u>	<u>Biennium</u>
INCOME					
National Subscriptions, etc.	818.7	793.9	825.5	832.4	1,657.9
Publications:	374.8	408.5	443.3	472.2	915.5
AMP:	58.3	59.0	65.0	65.0	130.0
TOTAL INCOME	<u>1 251.8</u>	<u>1 261.4</u>	<u>1 333.8</u>	<u>1 369.6</u>	<u>2 703.4</u>
EXPENSES					
Governance Expense:	44.2	49.6	38.7	39.4	78.1
Administrative					
General	494.8	366.8	434.5	454.4	888.9
Publications	110.0	9.4	4.0	4.0	8.0
AMP:	56.8	49.1	34.0	35.0	69.0
Total Administrative	<u>661.6</u>	<u>425.3</u>	<u>472.5</u>	<u>493.4</u>	<u>965.9</u>
Accounting Transactions	14.9	21.0	8.0	8.0	16.0
Operations Expense					
Standing Committees	47.2	110.2	120.2	51.5	171.7
Divisions	118.5	238.1	227.6	97.6	325.1
CI for Members (Incl.NAOs etc.)	22.1	28.3	10.3	10.6	20.9
General Assembly	415.4	8.0	10.0	505.0	515.0
Reps. to Other Orgs	3.9	12.0	11.0	11.0	22.0
Other/Contingencies	117.8	41.2	20.0	20.0	40.0
Operating Reserve	-	-	274.4	274.4	548.7
Total Operations	<u>724.9</u>	<u>437.8</u>	<u>673.4</u>	<u>970.0</u>	<u>1,643.4</u>
Total Expense	<u>1 445.5</u>	<u>933.7</u>	<u>1 192.6</u>	<u>1 510.8</u>	<u>2 703.4</u>
NET INCOME (EXPENSE) FROM OPERATIONS	<u>(193.7)</u>	<u>327.6</u>	<u>141.2</u>	<u>(141.2)</u>	<u>0.0</u>

DIVISION OFFICERS 2000 - 1

DIVISION	PRESIDENT	VICE-PRESIDENT	SECRETARY	PAST PRESIDENT
I	G. Wilson	J. Ralston	G. M. Olofsson	T. Cvitaš
II	J. Corish	G. M. Rosenblatt	To Be Named	NA
III	T. Norin	T. T. Tidwell	D. Black	U. Pandit
IV	R. Gilbert	R. Stepto	W. J. Work	NA
V	F. Ingman	D. S. Moore	H. K. Powell	NA
VI	W. Klein	K. Racke	P. T. Holland	J. Miyamoto
VII	C.-G. Wermuth	A. Kallner	B. Heinzow	NA

NA = Not Applicable