

69TH MEETING OF BUREAU

UNIVERSITY OF GENEVA

WEDNESDAY, 27 AUGUST, 1997: 14:00 - 18:00

THURSDAY, 28 AUGUST 1997: 09:00 - 12:30; 14:00 - 18:00

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MINUTES

Present: Prof. A. E. Fischli (Chairman), Prof. J. Jortner, Dr. E.D. Becker, Prof. J. M. Ward, Prof. R. D. Brown, Prof. A. Chakravorty, Dr. D. F. Eaton, Prof. J. Economy, Prof. M. Grasserbauer, Prof. E. J. Grzywa, Dr. A. Hayes, Prof. G. J. Leigh, Prof. J. W. Lorimer, Prof. R.-P. Martin, Dr. J. Miyamoto, Prof. H. Ohtaki, Prof. G. M. Schneider, Prof. G. Scorrano, Prof. G. Somsen, Prof. P. S. Steyn, Prof. L. K. Sydnes (day two only), Prof. C.-H. Zhang

Absent: Prof. D. W. Moss

In Attendance: Dr. J. W. Jost (Executive Director), Dr. M. Williams (Advisor to Executive Director), Dr. D. H. M. Bowen (Chairman, CPEP) - in part, Prof. F. Ingman (Secretary/President-Elect Division V)

1 INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Prof. Fischli welcomed the Members of the Bureau to the 69th Meeting. No changes were made to the pre-circulated Agenda.

2 MINUTES OF 68TH MEETING OF BUREAU

2.1 AMENDMENTS AND APPROVAL

The Minutes of the 68th Meeting of the Bureau were accepted with the modification to item 5.4/96 suggested by the Australian NAO (letter of 97.02.20).

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

There was discussion of the need for consultation by the Executive Committee with the Bureau when undertaking significant new initiatives. The Chairman noted the concern of the Bureau Members.

3 MINUTES OF 124TH MEETING OF EXECUTIVE COMMITTEE

3.1 CORRECTION TO ITEM 4.5.3/97 IN EXECUTIVE COMMITTEE MINUTES

A correction to Item 4.5.3/97 of the Executive Committee Minutes was noted that would be approved formally at its next meeting.

3.2 RECEIPT BY BUREAU

The Bureau accepted the Minutes of the 124th Meeting of the Executive Committee as modified.

4 APPROVAL OF BASIC ELEMENTS FOR COUNCIL MEETING

4.1 ASSIGNMENT OF VOTES TO DELEGATIONS IN COUNCIL AT GENEVA

Dr. Becker reviewed the assignment of votes as agreed by Council its 38th Meeting.

4.2 APPOINTMENT OF TELLERS

The appointment of tellers for the Council Meeting was discussed. It was proposed and agreed that Dr. M. Williams, Dr. D. Raber and Mr.S.S. Langer should be asked to serve as Tellers.

4.3 SETTING TIME OF ELECTIONS

The time of Elections was set at 10 AM on Saturday, 30th August.

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4.4 DELEGATION BY BUREAU TO PRESIDENT IN ASSOCIATION WITH THE OFFICERS FOR THE APPROVAL OF NEW MEMBERSHIPS OF DIVISION COMMITTEES AND COMMISSIONS (NEW ITEM)

Dr. Becker reviewed this proposal. The intent is to avoid the rush to compile the lists of exceptions in the few days between the end of Commission Meetings and the Bureau Meeting immediately following that of Council. This proposal would allow more considered decisions to be made. The Bureau accepted the proposal.

5 NOMINATIONS AND ELECTIONS [COUNCIL ITEM 4]

Prof. Fischli reviewed the status of the current Officers. By statute Prof. Fischli becomes Past-President and Prof. Jortner becomes President. Dr. Becker's term continues until the end of 1999. Prof. Ward's term expires at the end of this year. He is eligible to be elected to a final two-year term. The point was made that the Bureau has the authority to recommend an increase in the number of Elected Members of the Bureau. Subsequent discussion indicated that the sense of the members was to not increase the number of Elected Members.

Dr. Becker reviewed the following points: the nominees for the available offices, the responsibility of the Bureau to discuss the nominees, make additional nominees if desired, and to recommend candidates to the Council if desired.

5.1 NUMBER OF ELECTED MEMBERS OF BUREAU FOR 1998-9

Earlier discussion of this question indicated that no change should be recommended to Council to the present situation of ten Elected Members.

5.2 NOMINATIONS FOR OFFICERS AND BUREAU SUBMITTED BY NAOs

The candidates for Vice-President (President-Elect), Dr. Hayes and Prof. Steyn were asked to leave the room while the Bureau discussed their candidacy.

There was discussion of the possibility of asking candidates to make a statement regarding their plans for the Union. This was felt by some Members to pose the danger of politicizing the process. Introduction of this concept on short notice was felt to be unfair to the candidates. The alternative of having a statement by the candidates appear in *Chemistry International* was discussed. Another possibility would be to have the nominating NAO submit a statement by the candidate along with the supporting material usually provided. The consensus was that if any Member felt that this was an important issue it should be placed on the agenda for the next Bureau meeting so that a more thoughtful discussion could take place.

Prof. Scorrano and Prof. Ward were asked to leave the room while the Bureau discussed their candidacy for Treasurer. There was a brief discussion of the excellent financial condition of the Union as a result of Prof. Ward's term as Treasurer.

5.3 NOMINATIONS BY BUREAU

It was decided neither to make any additional nominations for Vice-President nor to make a recommendation to Council.

The motion was made and seconded to nominate Prof. Ward for Treasurer. The motion was made and seconded to have a secret ballot. The vote was For: 7, Against: 2, Abstain: 10.

Vote on motion to nominate Prof. Ward was For: 14, Against: 4, Abstain: 1.

The motion was made and seconded to nominate Prof. Somsen as an additional candidate

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for election to the Bureau. The vote on the motion, by a show of hands, was For: 11, Against: 0. Abstain: 9.

5.4 RECOMMENDATIONS, IF ANY, FOR FILLING VACANCIES

It was decided not to make any recommendations to Council regarding any of those nominated.

6 FORMAL RECOMMENDATIONS TO COUNCIL:

6.1 CHANGES TO STATUTES AND BYLAWS [COUNCIL ITEM 15]

Dr. Becker reviewed the proposed changes. All the proposed changes were recommended to Council.

6.2 FUTURE GENERAL ASSEMBLIES AND CONGRESSES

6.2.1 *40th General Assembly and 37th Congress (Berlin, 1999)* [Council Item 18]

Prof. Jortner pointed out the dramatic improvement in the quality of the Congress at Geneva. The Berlin Congress will be the first to fully adhere to the IUPAC Guidelines for Congresses. The Co-Chairs of the International Advisory Board will be Prof. Robert Huber and Prof. Yuan Lee. The Bureau approved the nomination of Prof. R. Gilbert and Prof. U. Pandit to represent IUPAC on the International Advisory Board. The dates and location for the 40th General Assembly (Freie Universität Berlin, 99.08.07) and 37th Congress (International Congress Center Berlin, 99.08.14-19) were recommended to Council.

6.2.2 *41st General Assembly and 38th Congress (2001)* [Council Item 21]

The proposal from the Australian National Adhering Organization to host the 41st General assembly and 38th Congress was discussed. Prof. Brown mentioned the significance of the year 2001 as the centennial of the foundation of Australia from six states.

It was recommended to Council to accept the Australian proposal.

6.2.3 *42nd General Assembly and 39th Congress (2003)* [No action required]

Prof. Fischli discussed the interest of the Canadian NAO in hosting the 42nd General Assembly and 39th Congress.

6.3 APPROVAL OF ELECTED OFFICERS OF DIVISIONS [COUNCIL ITEM 20]

Dr. Becker reviewed the situation. A number of vacancies have been filled since the list of new Division Officers was prepared for the Bureau. Dr. G. Rosenblatt has been nominated as Vice-President of Division II, Prof. Steptoe has been nominated as Vice-President of Division IV for a four-year term, Dr. W. Work has been nominated as Secretary of Division IV for a two-year term. It was noted that Division V does not usually have both a Past-President and a Vice-President. The Secretary of Division III is being appointed to two-year term.

A letter to Prof. Ohtaki from a member of Division IV regarding the voting procedure for Division Officers was discussed. The issue raised was whether Titular Members as of next year are eligible for election to Division office. It was agreed that if a protest were lodged it would have to be settled at Council.

The Division Officers nominated by the Divisions were recommended for approval to Council.

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6.4 MEMBERSHIP IN THE UNION [COUNCIL ITEM 22]

6.4.1 Application for Upgrading to Full Membership by Pakistan

The application for upgrading by the Chemical Society of Pakistan was recommended to Council.

6.4.2 Application for Upgrading to Full Membership by Philippines

The application by the Philippine Society of Chemists was incomplete and therefore was not considered further.

6.4.3 Application for Upgrading to Full Membership by Puerto Rico

The relationship of Puerto Rico to the USA was discussed. In view of the Presidential Ruling noted below, the application for membership by the College of Chemists of Puerto Rico was recommended to Council by a vote of For: 18, Against: 1 and Abstain: 2.

6.4.3.1 Presidential Ruling on Statute 3.1

In accord with IUPAC's status as a nongovernmental association, Prof. Fischli ruled the word "country" as used in Statute 3.1 may include a specific geographical territory which is widely recognized as having the cultural and administrative characteristics usually associated with an independent state, but without necessarily having complete independence or sovereignty.

6.4.4 Application for Membership by Union of Yugoslav Chemical Societies

The application for Membership by the Union of Yugoslav Chemical Societies was recommended for approval to Council by a vote of For: 19 and Abstain: 2 with none against. It was noted that the dues for the UYCS will be set at USD 2 000 until reliable chemical turnover data become available.

6.4.5 Application for Downgrading to Observer Organization Status by Turkey

The request by the Turkish Chemical Society to withdraw as a National Adhering Organization and become an Observer Organization was noted with regret. The Bureau expressed the hope that conditions would soon change and enable the Turkish Chemical Society to rejoin the Union as a Full Member.

6.4.6 Proposed delegation by Council to Bureau/EC for Provisional Membership

Two proposals regarding Provisional Membership were discussed. The first would delegate to the Bureau and Executive Committee the authority to approve Provisional Membership by an applicant for NAO status. This would enable chemists represented by that NAO to participate in Union activities in advance of consideration by Council of the application at the next General Assembly.

The second proposal would create the category of Provisional Individual Membership in a Union body. This would permit chemists who are not represented by an NAO to participate in Union activities, but not to be named as Titular or Associate Members.

After some discussion, it was recommended that the Council request the Bureau to develop procedures to implement these two concepts. These procedures would then be considered by the Council at the next Council meeting (1999).

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6.5 FOUR-YEAR REVIEW OF ASSOCIATED ORGANIZATIONS [COUNCIL ITEM 23]

Dr. Becker reviewed the status of the 31 AOs. All have provided a report on their activities except the International Zeolite Association. Attempts to contact this group have so far been unsuccessful. The Bureau recommended to Council that all 31 organizations continue as Associated Organizations, and asked Dr. Becker to look into the communication difficulties with the IZA.

6.6 RECOMMENDATIONS ON NOMENCLATURE AND SYMBOLS [COUNCIL ITEM 24]

6.6.1 Names and Symbols of Transfermium Elements

Prof. Leigh reviewed the status of this recommendation. It was noted that the process of consideration of the names of elements 110-112 would not begin until after the names of elements 101-109 had been approved by Council.

The recommendation was approved and recommended to Council. The Bureau expressed its thanks for the extraordinary efforts made by Prof. A. M. Sargeson Prof. Leigh and the late President of the Union, Prof. K. I. Zamaraev, to bring this issue to a satisfactory conclusion. The Bureau also wished to thank the Members of the Commission on Nomenclature of Inorganic Chemistry for their work.

7 STATUS REPORT ON IUPAC SECRETARIAT

Dr. Jost briefly reviewed the process of setting up the new Secretariat office in Research Triangle Park and the transfer of responsibility from the Oxford office. The new office will be fully functional as of 1 October 1997 at which time the Oxford office will no longer be active. The month of October will be devoted to shut down activities at Oxford.

The Bureau expressed its thanks to Dr. Becker for his extraordinary efforts during this period. Dr. Williams was thanked for his work in bringing about a smooth transition from the old office to the new.

8 TREASURER'S REPORT

Prof. Ward reviewed his report on the Union's financial position. If the requested 3% increase in the general level of dues is approved by Council the level of the Divisional allocation can be raised to the equivalent in purchasing power of the allocation before the 1991 General Assembly.

It was proposed and approved that Bureau recommend to Council that increases in dues of less than the OECD inflation rate can be approved by Bureau rather than Council.

8.1 RECOMMENDATION ON APPOINTMENT OF AUDITORS FOR 1997-8 [COUNCIL ITEM 8]

The motion to recommend to Council the appointment of Neutra Treuhand AG as auditors for 1997-98 was approved by a vote of For: 20 and Abstain: 1 with none against.

8.2 RECOMMENDED BUDGET AND NATIONAL SUBSCRIPTIONS FOR 1998-9 [COUNCIL ITEM 19]

The allocations to Divisions and Standing Committees were briefly discussed.

The Treasurer requested that the Bureau approve a change in the subscription of the Russian NAO to USD 15 000 for 1997. This would be a one-time change to allow the published trade figures to more accurately reflect the current state of the Russian economy. This motion was approved unanimously.

8.3 OTHER FINANCIAL MATTERS, IF ANY

There were no other financial matters to be discussed.

9 AFFILIATE MEMBERSHIP PROGRAM

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9.1 REPORT OF COMMITTEE ON AFFILIATE MEMBERSHIP

Prof. Lorimer reviewed the report of the special Committee on the Affiliate Membership Program.

The proposal to institute a Fellows Program was discussed. The section regarding the administration of the program was clarified. The program will be administered by the Secretariat.

9.2 RECOMMENDATIONS TO COUNCIL

It was moved and seconded to recommend to Council that the Affiliate Membership Program be continued until 1999 in its present form. The motion was passed unanimously.

It was moved and seconded to recommend acceptance of the proposed Fellows Program to the Council. The motion was passed unanimously.

It was moved and seconded to review the AMP in 1999. The motion was passed unanimously.

The Special Committee was discharged with the thanks of the Bureau. It was noted that the existing Standing Committee on the Affiliate Membership Program should continue in its present dormant state until its possible future functions could be clarified by the program review in 1999.

10 ADVICE ON LONG-RANGE GOALS AND FUTURE SCIENTIFIC POLICY

10.1 REPORT OF MEETING IN LONDON (97.02.24)

10.2 REPORT OF MEETING IN SINGAPORE (97.06.21)

Prof. Jortner reviewed the two above meetings. He compared and contrasted the views from the two meetings. The emphasis on the global nature of the Union was a common theme of both meetings.

The subsequent discussion touched on a number of different points. The importance of disseminating and promoting the recommendations of IUPAC Commissions was noted. The need to increase the participation of industrial chemists in the work of the Union was pointed out. The fact that the Union has a stronger connection to industry than many national and regional chemical societies was viewed as a strength that could be built upon. The increasing interactions with other international organizations were seen as leading to the development of two "Unions". One, which operated at a high level with other organizations, and the other, concerned with the traditional work of the Union. There was seen to be a need to inform the members of IUPAC bodies of these high level initiatives.

The suggestion was made to convene a group of former IUPAC Officers for a view gathering session. Prof. Jortner noted that the VPCA had been sent to past-Presidents of the Union with helpful comments having been received.

There was also discussion of the need to increase the involvement of chemists around the world in the Union's activities. The question of how to broaden the base of Commission membership was raised. Could Commissions make their needs more widely known for members of working parties?

11 STATUTORY VICE-PRESIDENTIAL CRITICAL ASSESSMENT

Prof. Jortner briefly reviewed his VPCA. He suggested that future VPCAs should be presented

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to Council. In his discussion Prof. Jortner emphasized the principles used in carrying out the assessment and the issue of "Human Capital for IUPAC". The organization of the Union was also discussed, along with the need to close gaps in certain areas, especially Materials Science and Biological Chemistry. Prof. Jortner also pointed out the need for indicators for the assessment of the nearly 500 projects listed in the *IUPAC Handbook 1996-1997*.

Prof. Jortner concluded his review by discussing the reach and relevance of chemistry. Chemistry is broader and more vital than ever. The Union is in a unique position to lead its discipline into the future.

The subsequent discussion by the Members of the Bureau covered a number of topics. The suggestion was made that Division Vice-Presidents should make Critical Assessments of their Divisions. It was pointed out that this idea had been proposed in the VPCA. The extensive discussion of this document by the members of IUPAC bodies was noted. The value of the diagram showing the connection between the Union's activities and its Objectives was pointed out.

12 DIVISIONAL MATTERS

12.1 REPORT ON DIVISION PRESIDENTS' MEETING AT FRANKFURT (97.03.24)

Prof. Economy briefly described the Division Presidents meeting at Frankfurt. He then requested each Division President to describe the outcomes in his Division of the recommendations made at the meeting.

12.1.1 Reports from Division Presidents on Follow-up Actions

The mechanism for merging the activities of the commissions dealing with electrochemistry in Divisions I and V is still being discussed.

An "Ad Hoc Strategic Committee on Materials" chaired by Prof. J. Corish and Prof. R. Gilbert has been established. This Committee will report to the President of the Union by 1 July 1998.

An "Ad Hoc Strategic Committee on Biomolecular Chemistry", chaired by Prof. U. Pandit has been established. This Committee will report to the President of the Union by 1 July 1998. A change of the name of Division III has been deferred until the General Assembly in 1999.

A Coordination Committee on Environmental Matters has been established under the leadership of Division VI to coordinate environmental activities of the Union.

The Commission on Oils, Fats, and Derivatives will be merged with the Commission on Food Chemistry before the Berlin General Assembly.

Division VII continues to work towards an integration of the Clinical and Medicinal Chemistry activities of the Division. Council should be recommended to dissolve Commission VIIC.3 at the end of 1997.

12.2 REPORT OF MEETING OF DIVISION PRESIDENTS WITH SECRETARY GENERAL

The Division Presidents will meet before the end of the year to discuss reorganization proposals for the Union and provide input for the Strategy Development and Implementation Committee.

Division III has proposed that the total number of Titular Members attached to the Division Committee be increased, but the total number Titular Members in the Division remain the same. This will lead to some Commissions having more Associate Members than Titular Members. These changes will allow greater flexibility in assigning Titular

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Members to projects. This proposal was approved for an interim period of two years.

13 STRATEGY DEVELOPMENT AND IMPLEMENTATION COMMITTEE

13.1 MEMBERSHIP AND TERMS OF REFERENCE

Prof. Jortner reviewed the evolution of views on the Science Policy of the Union. The VPCA led to the discussions on reorganization at the Division Presidents meeting at Frankfurt. As a result of these discussions, the Secretary General prepared a report on the "Management of the Union's Scientific Work". The discussion of this report by the Executive Committee at its Jerusalem meeting led to the establishment of the Strategy Development and Implementation Committee.

Prof. Jortner then reviewed the membership of the SDIC. The members of the Committee were chosen to represent the Officers of the Union, the Divisions, Bureau Members and members from outside the Union. The charge of the Committee was then discussed as were the issues to be studied by the Committee. These include Strategies, Implementation, Project Assessment and Human Capital. See Attachment 1 for a list of SDIC Members and the charge to the Committee.

13.2 REPORT OF INITIAL MEETING (OXFORD, 97.06.24)

Prof. Jortner discussed the working document on Goals and Strategies written by Dr. Becker subsequent to the first meeting of the Committee in June 1997. The goals arrived at by the SDIC will not be part of the Statutes and By-laws since they should be reviewed periodically and modified to suit current conditions. The goals set by the SDIC will be accompanied by strategies and actions required to achieve those goals. This is necessary to prevent the goals chosen from merely being slogans.

The next step to be considered by the Committee is the development of project assessment and evaluation mechanisms. This will be followed by a consideration of how to choose the people to carry out the work of the Union.

Discussion by the Bureau Members followed with the comments covering a number of areas. It was pointed out that Strategy and Implementation is a function of the Bureau and that the basis for a discussion of these issues should be based on wider input than the VPCA. It was noted that input for the work of the SDIC was not only the VPCA but previous documents covering many years of discussion of the Scientific Policy of the Union as well as input from the USA and UK NAOs. The SDIC is an instrument of the EC and will make its recommendations to that body. The EC will then present its recommendations to the Bureau. The Bureau will then be able to discuss the recommendations and make its recommendations to Council based on the work of the SDIC.

The need for more input from industry was mentioned. It was noted that Strategy Development is the fit of the outside world and the Union's capabilities. The views of the outside world have been determined and we are now in the process of fitting the Union's strategy to those views.

The draft Goals and Strategies will be distributed to the Bureau Members.

14 PROPOSAL FROM UK-NAO RE COMMISSION ACTIVITIES

The proposal of the UK NAO was discussed. It was pointed out that the SDIC is creating the instrument that will accomplish what the resolution by the UK NAO proposes. It was noted that the mechanism proposed is probably inappropriate but that the goal itself is a good one. The

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Bureau endorsed the UK motion to Council.

15 RECOMMENDATIONS FOR CONTINUATION/DISSOLUTION OF EXISTING IUPAC BODIES, PROPOSALS FOR NEW AND RECONSTITUTED BODIES/TERMS OF REFERENCE [COUNCIL ITEM 16]

The Bureau agreed recommend to Council the dissolution of Commission VII.C.3 and the continuation of all other Commissions for the biennium 1998-9.

16 DISCUSSION OF POTENTIAL RECONSTITUTION OF THE BUREAU

16.1 PROPOSAL BY PROF. G. J. LEIGH

Prof. Leigh briefly reviewed his document on the Reconstitution of the Bureau. After some discussion, it was recommended that this proposal be discussed at the proposed meeting of Division Presidents, with the goal of formulating proposals for input to the SDIC and for discussion by the Executive Committee.

The value of multiple inputs to the SDIC was noted.

It was pointed out that the proposal as presented contained the danger of leading to the situation that the decision-makers for allocation of resources (the Division Officers) are the same people who are advocating individually for each Division. Under such circumstances it often occurs that resources are simply spread evenly over all its activities, rather than being concentrated on those which have the highest priority.

16.2 OTHER PROPOSALS

No other proposals were brought to the Bureau.

17 STANDING COMMITTEES AND OTHER BODIES REPORTING TO COUNCIL AND BUREAU

17.1 RECEIPT OF WRITTEN REPORTS

17.1.1 Committee on Printed and Electronic Publications [Council Item 10]

Dr. Bowen reviewed three major recommendations of CPEP for changes in the operation of *Pure and Applied Chemistry*

- Continuation of the concept of Special Topics Issues, along the lines of the "White Book" on Chlorine and the proposed issue on Endocrine Disrupters.
- Appointment of a Special Topics Issues Editor and two additional Members of the Editorial Advisory Board to broaden the advice available to the Special Topics Issues Editor.
- Publication of selected longer Commission Reports mainly in electronic form.

Dr. Bowen then discussed the recommendation to increase the library subscription price for *PAC* from USD 1 020 to USD 1 090 and the individual subscription price from USD 115 to USD 121. The price of *CI* will remain the same with the size of the average issue reduced from 40 to 32 pages.

Subsequent discussion noted that there is a need to increase the visibility of *PAC* and the IUPAC recommendations contained in it. In reference to publishing longer reports electronically, the point was made that length should not be the only criterion.

It was moved and seconded to approve the recommended subscription prices. The motion was passed.

Dr. Bowen then discussed the previous recommendation to put the contract for the Union's official publisher out for tender. CPEP felt that given the uncertainty in

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the Union's publishing policy this action should be postponed for a year, i.e. until 1999.

The Bureau approved this action but reminded the Committee that the Bureau still felt that this was an important step and it should not be further delayed.

Dr. Bowen then discussed the following points.

- A Forum Editor should be appointed to develop articles for *CI* on science and public policy.
- *Monographs on Chemistry for the 21st Century* will end as planned at the end of 1999.
- A working party on Electronic Publishing Technology and on Data Base Standards for use on the World Wide Web will be created.

17.1.2 CHEMRAWN Committee and Request for Grants from CHEMRAWN Conference Loan Fund **[Council Item 11]**

The Treasurer reviewed the financial principles (January 1992) that have governed CHEMRAWN. The proposal was moved and seconded to change the repayment principle from 110% to 100%. The motion passed. The revised Financial Principles of CHEMRAWN are detailed in Attachment 2.

Dr. Hayes then discussed the need to increase the operating budget of the Committee from USD 11 400 to USD 22 800.

The question was asked why an increase in operating budget was necessary when there was money available to be borrowed. The point was made that the operating budget is used to fund preliminary work while the loan fund is used to provide cash flow for the conference.

It was moved and seconded to increase the Committee's budget as requested. The motion passed.

17.1.3 Committee on Chemistry and Industry **[Council Item 12]**

Dr. Martin discussed activities planned to publicize the "White Book" on Chlorine. He then reviewed the status of the planned Special Issue of *PAC* on Endocrine Disrupters. This topic is in the early stages of becoming an issue of global importance, whereas the Chlorine issue had already peaked in its visibility as a global environmental issue.

Public notice that IUPAC is planning this Special Issue will appear in the November issue of *CI*.

COCI had decided against implementing the Executive Committees recommendation to increase the cost of a Company Associate membership from USD 400 to USD 1 000. COCI felt it was more important to concentrate on increasing membership.

COCI requested approval to change its terms of reference. The proposal was approved (see Attachment 3).

17.1.4 Committee on Teaching of Chemistry **[Council Item 13]**

There was no discussion of this report.

17.1.5 Interdivisional Committee on Nomenclature and Symbols

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There was no discussion of this report.

17.1.6 Ad hoc Committee on Chemical Weapons Destruction Technologies.

There was no discussion of this report.

17.1.7 Commission on Biotechnology

Prof. Fischli reviewed the membership of this newly reconstituted Commission. Three Titular Members have been assigned from the total designated as Pool TMs for 1998-9. This will enable a smooth transition from the previous Commission to the new one.

17.2 MATTERS REQUIRING BUREAU ACTION. ORAL REQUESTS BY COMMITTEE CHAIRMEN IF NEEDED

17.2.1 Proposed Subscription Rates for PAC and CI

This subject was discussed and the subscription rates recommended under item 17.1.1 were approved by the Bureau.

17.2.2 Plans for Electronic Publications.

This subject was discussed under item 17.1.1

18 ENVIRONMENTAL ACTIVITIES

18.1 INTERDIVISIONAL COMMITTEE ON COORDINATION OF ENVIRONMENTAL ACTIVITIES

Dr. Miyamoto said that the initial meeting of the Coordinating Committee at Geneva (97.08.28) was poorly attended. There is a need for a good definition of what constitutes an environmental activity.

18.2 COLLABORATION WITH ICSU BODIES: SCOPE; SCOR; STEM

Prof. Fischli reported on the planned and ongoing activities with these bodies.

18.3 PROPOSED IUPAC WHITE BOOK ON ENDOCRINE DISRUPTERS

Dr. Miyamoto has prepared a final draft of the proposed chapter titles from Prof. Fischli's preliminary list of topics and authors.

19 ITEMS FOR INFORMATION AND NECESSARY ACTION

19.1 NOMINATIONS FOR AWARD OF INTERNATIONAL PRIZES

Prof. Jortner reviewed the criteria for making a nomination

- The prize should be for purely scientific accomplishment
- The prize should be non-discriminatory as to national or regional origin

A nomination has been made for the Franklin Institute prize for Astro-Physics.

The question was asked if the Union is in good position to make nominations for scientific prizes. Could this activity be opening the Union to criticism? It was felt that, given adherence to the principles described by Prof. Jortner, this was a suitable activity for the Union.

19.2 RELEVANT ITEMS FROM ICSU

Prof. Fischli reviewed the changes taking place in the organization of ICSU. As the result of a recommendation by the US NAO, an outside group was asked to assess ICSU. The recommendations included a new name, the International Council for Science and

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the elimination of the General Committee. The Executive Board will consist of the President, Past-President, two Vice-Presidents (for Scientific Planning and Review and for External Relations), Secretary General, Treasurer and eight Elected Members, four from the National and Multinational Scientific Members and four from International Scientific Union Members. The grants program is to become more project driven with more activity in science for policy and policy for science. An extraordinary General Assembly will be held 25 April 1998 at Vienna to ratify these changes. Prof. Fischli also emphasized the need to increase the visibility of IUPAC.

19.3 COLLABORATION WITH UNESCO

Prof. Fischli described the joint efforts of UNESCO-UNIDO-IUPAC. Three programs are being developed

- A program for the teaching of Chemistry in Africa
- A network scheme for Latin America
- A post-doctoral program involving selected Universities

The next meeting to discuss implementation of these programs will be at Paris in January 1998. The International Chemistry Council provides guidance for these programs.

The point was made that efforts in the teaching of chemistry require integration with other sciences at the secondary and primary levels.

Dr. Becker reviewed a UNESCO-funded project on Chemistry for Least Developed Countries. UNESCO has funded an IUPAC proposal to acquire information in selected Less Developed Countries with the aim of determining what kind of initiative on the part of UNESCO and IUPAC would be useful in the view of the leaders of the local chemical communities. Dr. C. Garbers is coordinating this program. Prof. Steyn reported on the meeting held at Pretoria, South Africa on 7-8 August 1997. There were participants from Botswana, Uganda, Central African Republic, Ethiopia, Malawi, Tanzania, Burkina Faso and Mozambique. The name of the program was changed at the request of the participants to Chemistry for Africa.

Two salient points about the state of science in general, and chemistry in particular, are that ten countries in Africa have had no publication in a journal abstracted in Chemical Abstracts and that all research funds come from donor organizations. The World Bank has a new initiative to strengthen African Universities. A report on this meeting will be available shortly.

The point was made that IUPAC might follow the model of Agriculture Schools and focus on the applications of chemistry to materials science and clinical chemistry. This would involve the creation of "extension centers" to assist local industry in applying chemical technology. It was then pointed out that IUPAC could not become involved in programs that require operational support.

19.4 COLLABORATION WITH WORLD HEALTH ORGANIZATION

Dr. Miyamoto described collaborative work being undertaken with WHO-IFCA (Intergovernmental Forum on Chemical Safety). This UN agency is charged with regulating hazardous materials according to Chapter 18 of Agenda 21.

In collaboration with IPCS (International Program on Chemical Safety), IUPAC has contributed to an Environmental Health Criteria Document for Carbon Monoxide.

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19.5 POTENTIAL FORMAL ASSOCIATION WITH CHEMICAL HERITAGE FOUNDATION

Dr. Becker described the new situation of the Chemical Heritage Foundation. A large bequest has altered its financial status and has led to proposals to reorganize the management of the CHF. IUPAC may be invited to join an Advisory Council for the CHF. It was moved and seconded to authorize the President and the Executive Committee to commit up to USD 2 000 as dues to join the CHF Advisory Council. The motion was approved.

19.6 RATIFICATION OF IUPAC SPONSORSHIP OF SYMPOSIA

The Symposia approved for sponsorship were noted (see Attachment 4).

19.7 RATIFICATION OF APPOINTMENTS

The appointments to Standing Committees and Commissions, as corrected, were noted (see Attachment 5).

19.8 100TH ANNIVERSARY OF DISCOVERY OF POLONIUM AND RADIUM

The planned celebrations for this anniversary were noted. IUPAC's rôle has not been defined.

19.9 PROPOSED K. I. ZAMARAEV FOUNDATION

The donation of USD 5 000 to the Zamaraev Foundation was noted and endorsed.

19.10 INTERNATIONAL MEETING OF CHEMICAL SOCIETY PRESIDENTS

Prof. Fischli reviewed the meeting that took place at Geneva (97.08.23) of the Presidents of some 20 Chemical Societies. The topic of discussion was "The future of young chemists in view of changes in the structure of the chemical industry". Two leading Swiss industrialists spoke about the changes in the Chemical Industry. This was followed by a discussion among the participants. A similar meeting should be organized in conjunction with the Berlin General Assembly and Congress. The organization of this meeting should be the responsibility of the host country. A report on the meeting will appear in the journal of the New Swiss Chemical Society and also in *CI*.

19.11 DISSOLUTION OF JOINT COMMITTEE ON ATOMIC AND MOLECULAR PHYSICAL DATA

The Bureau noted that JCAMP has dissolved itself (March 1997) and its functions will be assumed by IUPAC.

19.12 INTERNATIONAL CONFEDERATION FOR THERMAL ANALYSIS AND CALORIMETRY

Although ICTAC was a long established IUPAC-AO, Prof. Fischli pointed out that IUPAC sponsorship of each new ICTAC Congress by IUPAC must be judged anew on its merits.

20 ADDITIONAL IMPORTANT MATTERS TO BE TAKEN TO COUNCIL [COUNCIL ITEM 25]

20.1 Prof. Fischli noted that the concept of provisional membership, both for organizations and individuals, discussed under Item 6.4.6, will be taken to Council.

21 DATES AND PLACE OF NEXT BUREAU MEETING

The 1998 meeting of the Bureau will take place on 26-27 September either in London or in another location if a Member proposes an alternative. As usual, there will be preliminary meetings during the preceding two days.

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22 ANY OTHER BUSINESS

No other business was brought to the Bureau.

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Chairman: _____

Date: _____