

International Union of Pure and Applied Chemistry

128th MEETING OF EXECUTIVE COMMITTEE

Stellenbosch, South Africa 9-10 March 2001

MINUTES

1.	INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA	1
2.	MINUTES OF 127TH MEETING OF EXECUTIVE COMMITTEE	1
2.1	AMENDMENTS AND APPROVAL.....	1
2.2	MATTERS ARISING FROM MINUTES (NOT COVERED BY ITEMS ON AGENDA).....	1
3.	ACTION ITEMS FROM PREVIOUS MEETINGS	1
4.	COUNCIL AGENDA AND PROCEDURES	1
4.1	BYLAW AMENDMENT PROPOSED BY SLOVAKIA	2
5.	BYLAW ON DIVISION ELECTORATE	2
6.	NEW DIVISION RULES	3
7.	FINANCE COMMITTEE.....	3
7.1	REPORT FROM FINANCE COMMITTEE MEETING, 2 MARCH 2001	3
7.2	STATEMENT OF ACCOUNTS FOR 2000	4
7.3	NATIONAL SUBSCRIPTIONS	4
7.4	NAOS AND ANAOS IN DEFAULT	5
7.5	REVIEW OF BUDGETS FOR 2002-3 AND CAPITAL BUDGET FOR 2001	5
7.6	ALLOCATIONS TO IUPAC BODIES, 2002-3.....	6
7.7	DISCUSSION OF INVESTMENT POLICY STATEMENT	6
7.8	AUTHORITY FOR APPROVING EXPENDITURES, INVESTMENTS, AND OTHER FINANCIAL OPERATIONS OF IUPAC	7
7.9	CZECH PROPOSAL FOR CHANGE IN FORMULA FOR NATIONAL SUBSCRIPTIONS....	7
8.	VICE PRESIDENT'S CRITICAL ASSESSMENT.....	8
9.	WORLD CHEMISTRY LEADERSHIP MEETING	8
10.	REPORT FROM WORKING PARTY ON EDUCATION PROPOSALS	9
11.	STRUCTURE OF THE UNION'S NOMENCLATURE ACTIVITIES.....	10
11.1	FUTURE OF CCINS (COMMITTEE ON CHEMICAL IDENTITY AND NOMENCLATURE SYSTEMS).....	10
11.2	FUTURE OF IDCNS (INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS)	10
11.3	CONTINUATION OF JCBN (JOINT COMMISSION ON BIOCHEMICAL NOMENCLATURE)	10
12.	PROPOSALS TO CREATE NEW COMMISSIONS.....	11
12.1	COMMISSION I.1: QUANTITIES, UNITS & SYMBOLS	11
12.2	COMMISSION II.1: ATOMIC WEIGHTS & ISOTOPIC ABUNDANCES	11

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

13.	PROGRESS REPORT FROM <i>AD HOC</i> COMMITTEE ON THE RELATIONSHIP OF IUPAC AND THE GLOBAL CHEMICAL INDUSTRY.....	11
14.	INTERNATIONAL CHEMISTRY COUNCIL-DISCUSSION	12
15.	STRATEGIC PLAN	12
15.1	PROGRESS MADE IN ACHIEVING THE GOALS SET IN THE STRATEGIC PLAN	12
15.2	UPDATING THE STRATEGIC PLAN.....	12
16.	PROJECT APPROVAL SYSTEM	12
16.1	CURRENT PROJECTS	12
16.2	GUIDELINES FOR IUPAC PROJECTS	13
16.3	NEW ICSU GUIDELINES FOR SMALL GRANTS	13
16.4	PROPOSAL FOR LARGE ICSU GRANT-JOINT WITH SCOPE.....	13
16.5	PROPOSALS FOR SMALL ICSU GRANTS	14
17.	FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS	14
18.	IUPAC WEB SITE AND OTHER PUBLICITY ABOUT THE UNION	14
19.	STATUS REPORT ON IUPAC SECRETARIAT	15
20.	PUBLICATIONS	15
20.1	STATUS REPORT <i>CHEMISTRY INTERNATIONAL</i>	15
20.2	REPORT OF THE <i>CHEMISTRY INTERNATIONAL</i> STRATEGY DEVELOPMENT COMMITTEE	15
20.3	STATUS REPORT <i>PURE AND APPLIED CHEMISTRY</i>	16
20.4	SPECIAL ISSUES OF <i>PURE AND APPLIED CHEMISTRY</i>	17
20.5	SUPPLEMENT TO "HISTORY OF IUPAC"	17
20.6	BOOK PUBLICATION AND BOOK SALES	17
21.	IUPAC ARCHIVES	18
21.1	ARCHIVES AT THE CHEMICAL HERITAGE FOUNDATION-REQUEST FOR FUNDING 18	
21.2	CURRENT ARCHIVES-PAPER AND ELECTRONIC.....	18
22.	CONFERENCES AND SYMPOSIA	18
22.1	NEW DIRECTIONS IN CHEMICAL SCIENCES COMMITTEE	18
22.2	CONFERENCES IN DEVELOPING COUNTRIES	19
22.3	CONFERENCE POLICY COMMITTEE	19
22.4	RATIFICATION OF SPONSORSHIP OF SYMPOSIA.....	19
23.	GENERAL ASSEMBLIES AND CONGRESSES	19
23.1	PLANS FOR BRISBANE, 2001	19
23.2	PLANS FOR OTTAWA, 2003.....	19
23.3	CONGRESS AND GENERAL ASSEMBLY, 2005	19

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

24.	IUPAC BODIES	20
24.1	RATIFICATION OF MEMBERSHIPS APPROVED BY CORRESPONDENCE	20
24.2	NOMINATIONS OF NEW MEMBERS	20
25.	CLAQ MEETING, LIMA, PERU.....	20
26.	CHEMICAL WEAPONS CONVENTION REVIEW.....	20
27.	US CHEMICAL SCIENCES ROUNDTABLE	20
28.	IUPAC PRIZE FOR YOUNG SCIENTISTS.....	20
29.	NAMES AND SYMBOLS OF TRANSFERMIUM ELEMENTS 110-112 ...	21
30.	DATES AND PLACE OF NEXT EXECUTIVE COMMITTEE MEETING	
	21	
31.	ANY OTHER BUSINESS	21

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MINUTES

Present: Dr. A. Hayes (Chairman), Dr. E. D. Becker, Dr. C. F. Buxtorf,
Prof. H. Ohtaki, Dr. E. P. Przybylowicz, Prof. P. S. Steyn, Prof. L. Sydnes

Absent: Prof. J. Jortner

Secretary: Dr. J. W. Jost

1. INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Dr. Hayes welcomed the members of the Committee and thanked Prof. Steyn for the excellent arrangements. He noted the absence of Prof. Jortner due to illness and expressed the wishes of the Committee for his speedy recovery from his recent surgery.

There were no changes to the agenda.

2. MINUTES OF 127TH MEETING OF EXECUTIVE COMMITTEE

2.1 AMENDMENTS AND APPROVAL

There were no amendments or comments on the Minutes of the 127th meeting of the Executive committee. The minutes had already been approved by correspondence.

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

There were no matters arising from the minutes that were not already on the agenda.

3. ACTION ITEMS FROM PREVIOUS MEETINGS

Dr. Jost noted that the list of Action Items contained items not only from the Executive Committee and Bureau meetings, but also from meetings of other bodies whose work is relevant to that of the Bureau. The members were asked to inform Dr. Jost if the status of any of the items on the list changed. A revised list will be circulated before the Bureau meeting in Brisbane.

4. COUNCIL AGENDA AND PROCEDURES

The Committee discussed how best to ensure that Council meetings ran smoothly and did not become confusing. It was agreed that the use of a complex set of rules and procedures, such as those in Robert's Rules was inappropriate for an IUPAC Council meeting. However, it was felt that guidelines would be helpful in cases when the Council discussed difficult or contentious issues. The Secretary General was asked to develop a one-page set of guidelines for use in Council.

Dr. Jost noted that a resolution had been received earlier in the week from the UK National Adhering Organization. This resolution had been added as Item 16.2 to the Agenda mailed to the NAOs on 7 March 2001. It was also reported that the

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

discussion of the recommendations arising from the report of the Education Strategy Development Committee would be discussed under Item 11.4 of the Agenda.

Dr. Becker reported that three nominations for the Bureau had been erroneously sent to his office rather than to the Secretariat. These were the renomination of Prof. G. Somsen of The Netherlands, and the nominations of Prof. M. Moo-Young of Canada and Prof. S. Gultekin of Turkey.

4.1 BYLAW AMENDMENT PROPOSED BY SLOVAKIA

Dr. Becker briefly described the background of the Bylaw amendment proposed by the Slovak National Committee. He noted that the Bylaw was incorrect in its description of the process of approving conferences for IUPAC sponsorship. In his opinion, this sort of detail should not be in the Bylaws. He suggested that any necessary changes to the approval process should be considered by the *ad hoc* committee proposed to study the entire sponsorship process as well as its relationship to *Pure and Applied Chemistry* (see Item 22.3).

Dr. Przybylowicz proposed that the Executive Committee recommend to the Bureau that it should recommend to Council that this amendment not be approved. Dr. Hayes commented this is a Divisional matter and not something that should be included in the Bylaws of the Union. The Committee unanimously approved the proposal to not recommend approval of the amendment.

5. BYLAW ON DIVISION ELECTORATE

Dr. Becker reviewed the background on the proposed Bylaw amendment. The proposed amended Bylaw only defines the electorate to a particular point and then authorizes the Bureau to define other electors. The Bureau at its 2000 meeting had approved an electorate that included the Titular Members of the Division Committee, as well as the Associate Members and National Representatives. In addition the members of the Nominating Committee, Task Group Chairmen for active projects, and Task Group Chairmen for projects completed in the past two years. Dr. Becker noted that it would require extensive revisions of the Bylaws to define this electorate because many of the terms used in the definition of the electorate, such as projects and Task Groups are not defined in the Bylaws.

Dr. Przybylowicz noted that this opened the possibility of defining the electorate differently each biennium. Dr. Becker commented that this was the case and was useful to give the necessary flexibility as we learn more about how best to operate in the new environment of projects rather than Commissions. Dr. Hayes suggested that the Divisions be allowed to define their own electorates in their division rules. After some discussion, it was felt that this would lead to too much confusion with possibly very different electorates defined for each Division.

The Committee then discussed alternative wordings of the proposed Bylaw amendment but was unable to agree on any improvements. The Committee

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

approved a recommendation to the Bureau that the proposed Bylaw be presented to Council.

6. NEW DIVISION RULES

Dr. Becker reviewed the background regarding the Division rules. These had become out of date and in many cases, either duplicated material from the IUPAC Bylaws or contradicted them. A set of model rules has been developed that incorporate the IUPAC Bylaws by reference. These have been distributed to the Divisions and they have been asked to modify them as necessary to accommodate their individual circumstances. Dr. Becker noted that some Divisions might not be ready to present their rules to Council. It was decided that those Divisions that have rules ready for inclusion in the Council Agenda book would submit their rules for approval by Council. Those that are not ready would operate under a policy statement of the Bureau until the next Council meeting.

7. FINANCE COMMITTEE

7.1 REPORT FROM FINANCE COMMITTEE MEETING, 2 MARCH 2001

Dr. Przybylowicz reported that the Finance Committee had taken the following actions:

1. Dr. Miyamoto and Dr. Senti had agreed to serve an additional term on the Committee;
2. recommended to the Committee on Printed and Electronic Publications that the subscription rate for institutional subscribers be increased by 5%;
3. recommends that the Affiliate Membership fee for chemical societies remain at USD 16;
4. supports efforts to find ways to generate revenue from the on-line edition of *Pure and Applied Chemistry*;
5. recommends that the Pakistan Chemical Society be removed as an NAO for nonpayment of their National subscription;
6. accepted the resignation of the NAO of Saudi Arabia;
7. recommended that the proposal to change the method of calculation of national subscriptions not be approved;
8. recommended an increase in the total national subscriptions for 2002-3 of 1% per year;
9. changed the ratio of equity to fixed income investments from 60/40 to 50/50;
10. approved an Investment Policy statement (see Item 7.7);
11. approved a rearrangement of the various Funds comprising the IUPAC reserve as well as a Policy Statement regarding these Funds (see below).

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

12. decided to sell the position in the Janus fund;

13. adopted a policy to keep no more than 8% of the Union's invested funds in any single investment.

Dr. Przybylowicz noted that a "shadow portfolio" that had been constructed to evaluate alternative investment strategies had not performed as well as the current portfolio in 2000.

Dr. Przybylowicz reviewed the draft Fund Policy Statement. After some discussion the Finance Committee had agreed on the following fund structure:

1. Biennial Operating Reserve Fund: this fund will be set each year at the actual operating expenses for the previous biennium, less publication expenses.
2. Southern Hemisphere Sinking Fund: this will be set at a maximum of USD 250 000. This fund is intended to provide money for General Assemblies in particularly expensive locations and will be replenished as necessary by the Finance Committee.
3. Young Scientists Awards Fund: this will be set at USD 530 000. The income will be used to fund the IUPAC Young Scientists Prize and the Young Scientists travel grants to the IUPAC Congress.
4. Endowment Fund: this is equal to the balance of the amount in the reserve and the income will be used to fund special projects as decided by the Bureau.

The fund structure given above will be reviewed by the Finance Committee each year and modified as necessary.

7.2 STATEMENT OF ACCOUNTS FOR 2000

Dr. Buxtorf noted that the 2000 audit of the IUPAC accounts had been completed the week of 19 February. A draft of the Audit report had been received the day before the Finance Committee meeting by e-mail. Copies were distributed to the members of the Executive Committee. The Auditors had reported no exceptions in their examination of the accounts. The Union's net assets had increased by USD 172 874. This increase was composed of a gain from operations of USD 277,753, a realized gain on investments of USD 141,804 and an unrealized loss on investments of USD 246,683.

7.3 NATIONAL SUBSCRIPTIONS

Dr. Hayes reviewed the desire expressed by many NAOs to reduce National Subscriptions. He then discussed the need to be sure that IUPAC does what needs to be done and has value to its various constituencies. Dr. Przybylowicz commented that a senior industry executive had recently told him that he had difficulty in seeing the "value proposition" in IUPAC. Dr. Becker noted that IUPAC is in the midst of a wrenching change and we must give these changes time to take effect. Dr. Buxtorf noted that education could be an activity that gives IUPAC visibility.

Dr. Przybylowicz suggested that the support provided to ICSU should be re-evaluated. Dr. Becker commented that over the long term IUPAC received as

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

much funding from ICSU for projects as it paid in dues.

Dr. Przybylowicz then noted that both the Committee on Chemistry and Industry and CHEMRAWN were important connections to industry. Both of these connections had grown weaker over the years and should be improved.

Dr. Hayes suggested that the meeting of Incoming/Outgoing Officers or perhaps a special meeting of the Executive Committee should be used to consider the strategic thrusts the Union should undertake in the coming biennium and to consider the financial implications of proposed activities. See Item 30 for further discussion of this proposal.

Dr. Buxtorf suggested that the Divisions should be asked to use ~75% of their allocation for new projects and 25% for operations.

7.4 NAOs AND ANAOs IN DEFAULT

The Committee approved a recommendation to the Executive Committee by the Finance Committee that Council be asked to remove Pakistan as a NAO for nonpayment of its National Subscriptions since 1998 when it was admitted as a member.

The Committee noted with regret the request of the NAO of Saudi Arabia to resign its membership.

The Committee approved the recommendation to the Executive Committee by the Finance Committee that the Associate National Adhering Organizations of Bangladesh, Estonia, and Kenya be removed as ANAOs for nonpayment of their membership fees.

7.5 REVIEW OF BUDGETS FOR 2002-3 AND CAPITAL BUDGET FOR 2001

Dr. Buxtorf noted that no changes in the budget for 2000-1 were being proposed. The format of the budget will be revised for presentation to Council to take into account the change in publications to self-publishing.

Dr. Buxtorf then reviewed the draft budget for 2002-3. The major change in the format was to show line items for the income for the Young Scientist Awards Fund and the expenses for this activity. It was noted that similar line items should be added for the Endowment Fund. Dr. Buxtorf reported that there had been an extensive discussion by the Finance Committee of how large an increase in the National Subscription should be proposed to Council. The draft budget was based on a 3% increase in each year from the previous year. The Committee concluded that, while OECD inflation was of the order of 3% (without the volatile energy component), the strong financial position of the Union allowed a token increase of only 1% per year. There was some discussion of the desirability of basing the increase in 2002 on the 2001 National Subscription for only the continuing members (that is not including Pakistan and Saudi Arabia). No final decision had been reached and it had been left to the Treasurer to judge how best to proceed.

The Finance Committee had commented that in its judgment the subscription rate for *PAC* should be increased and asked the Treasurer to include a 5%

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

increase in the draft budget. The Committee also decided not to budget an increase in Affiliate Member Program fees for 2002-3.

The Executive Committee approved the draft budget for 2002-3 with a 1% increase in National Subscriptions per year.

Dr. Buxtorf reported that the Finance Committee had approved the proposed capital budget of USD 5000 for the Secretariat for 2001.

7.6 ALLOCATIONS TO IUPAC BODIES, 2002-3

Dr. Buxtorf presented the proposed allocations to the Divisions and Standing Committees for 2002-3. The proposal was based on the scheme approved by the Finance Committee, Executive Committee and by the Bureau at their 2000 meetings. The only modifications have been the inclusion of a *pro forma* budget for the proposed new Division VIII and the adjustment of the allocation to the Project Committee for projects to maintain a balanced budget. The Treasurer was authorized to make the necessary adjustments to the proposed allocations to accommodate the decision of the Executive Committee regarding the proposed new Division and the changes in National Subscription and Publications revenue agreed at this meeting.

Dr. Buxtorf reported that the Finance Committee had discussed an item that was not on the original agenda. The Committee on Chemistry and Industry has never had a budget and has relied on the willingness of its members' employers to pay their travel expenses. COCI feels that this is no longer a viable way of operating in the long term and would like to have a budget allocation to allow it to fund the attendance of certain members at meetings. The request was for USD 20 000 for the next biennium. Dr. Przybylowicz had noted that the future terms of reference and membership of COCI would be the subject of a recommendation to the Bureau from the *ad hoc* Committee on IUPAC and Industry. The issue of funding for COCI activities would be part of that recommendation. The Finance Committee had agreed to include a *pro forma* item in the draft budget of USD 20 000 for COCI, subject to the actions of the Bureau on the future of COCI. Dr. Becker commented that if an allocation were made for COCI the special COCI bank account should be transferred to the general account of the Union.

7.7 DISCUSSION OF INVESTMENT POLICY STATEMENT

Dr. Przybylowicz reviewed the draft Investment Policy Statement.

Dr. Hartmann had commented that the dates used in the first table in section 3.0 were probably not as meaningful as the alternative dates of 1975-1995. The Finance Committee also agreed to remove the last sentence of the last paragraph of section 2.2, referring to investment in tax-exempt securities. It was felt that this was redundant. The Finance Committee also felt that the reference to specific portfolio compositions in section 4.1 should be deleted. Portfolio composition targets, that is, the ratio of equities to fixed income and US to European equities, should be left to the Finance Committee to adjust as needed. It was also agreed that since IUPAC primarily invests in equity funds

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

and bonds the policy did not have to give guidelines on ethical stock investments. The policy will be reviewed each year by the Finance Committee and will form the basis of the investment review for the Executive Committee and Bureau.

The Executive Committee approved the draft Investment Policy Statement and recommended its adoption by the Bureau.

7.8 AUTHORITY FOR APPROVING EXPENDITURES, INVESTMENTS, AND OTHER FINANCIAL OPERATIONS OF IUPAC

Dr. Buxtorf reported that the Finance Committee had reviewed the draft schedule of authorities and recommended approval of the proposed schedule by the Executive Committee.

The Executive Committee approved the proposed Authority for Approving Expenditures, Investments, and Other Financial Operations of IUPAC.

7.9 CZECH PROPOSAL FOR CHANGE IN FORMULA FOR NATIONAL SUBSCRIPTIONS

Dr. Jost briefly reviewed the proposal from the Czech National Committee.

Dr. Buxtorf then reported that the Finance Committee had had an extensive discussion of the proposal from the Czech National Committee. A number of points were raised during the discussion and these are summarized below.

1. The mention of per capita chemical turnover is misleading because the proposal calls for the multiplication of per capita chemical turnover by population, which is simply chemical turnover.
2. The change in slope of the plot of log National Subscription vs. log chemical turnover from 0.68 to 1.0, results in a situation in which the major contributors to IUPAC (the top five) pay 64.3% of the total National Subscription versus 45.8% in the current system. This would lead to an organization dominated by the major contributors. The slope of 0.68 was not chosen arbitrarily, but was the result of fitting the existing discrete scale of National Subscriptions vs. Chemical Turnover to a straight line. The scale used in 1983 had been arrived at by negotiation over many years and was felt to be equitable.
3. In many respects, the benefits of IUPAC membership are more important to the smaller NAOs and they should be expected to contribute proportionately more to the Union.
4. The adoption of this proposal poses the very real danger that the larger contributors would no longer feel that the benefits that they received from the Union were commensurate with their expected financial contributions, and some might withdraw from the Union. This would lead eventually to a much smaller and less significant organization, if it survived at all.

The Finance Committee's conclusion is that the adoption of this proposal poses a very serious danger to the continued existence of IUPAC.

MINUTES

The Executive Committee recognized the financial difficulties faced by many smaller countries, but similar problems have been brought forward by several of the largest countries as well. The committee concluded that the Finance Committee's analysis is sound and that any change from the long-accepted formula, based on a desire to favor either larger countries or smaller countries, would threaten the cohesion and balance of the Union. The Committee decided to ask the Bureau to recommend against approval of the proposal.

8. VICE PRESIDENT'S CRITICAL ASSESSMENT

Prof. Steyn noted that before the VPCA of Prof. Jortner, VPCAs had focused on the scientific activities of the Divisions. He described the various sections of his VPCA and noted that its thrust was to examine how IUPAC was responding to the changes being implemented in the organization of the Union's scientific activities. The major sections of the VPCA are:

Management of IUPAC;

The challenging areas of the chemical sciences;

The core of the new IUPAC: a review of the project-driven system;

Review of IUPAC's contribution to the advancement of research in the chemical sciences;

Assessment of IUPAC's function in the development of effective channels of communication in the international chemical community;

Assessment of IUPAC's role in the service of chemistry in both developed and developing countries, with an emphasis on Africa;

Conclusion: Highlights of 2000/2001, and recommendations for 2002/2003.

One of the major recommendations of the VPCA is the establishment of a task group to evaluate and prioritize the long-range goals of the Union to ensure that resources are properly allocated.

Dr. Hayes congratulated Prof. Steyn on a very complete report on IUPAC in the midst of change. He commented that the VPCA should focus on what areas IUPAC should work on and the question of "Where can IUPAC make a difference?"

In response to Prof. Steyn's request, members of the committee made a number of suggestions for modification of specific portions of the current draft. These will be taken into account as the Vice President prepares the final version to be presented to both Bureau and Council.

9. WORLD CHEMISTRY LEADERSHIP MEETING

Dr. Hayes reported that invitations had been sent to national chemical societies, regional federations, and international and national trade associations. The final agenda will be worked out by Dr. Hayes, Prof. Steyn, and Dr. Becker. Dr. Becker noted that support would probably be needed for the representatives of regional federations and possibly speakers. Prof. Sydnes agreed to organize participation from Eastern Europe. It was suggested that the American Chemical Society be asked to suggest participants from Latin America. Dr. Becker agreed to identify

MINUTES

representatives from India whereas Prof. Steyn undertook to identify two participants from Africa.

Dr. Hayes suggested that the morning session concentrate first, on what is needed and then on what can be done. The afternoon would focus in part on the outcome of the morning session and then on the public image of chemistry and how to improve the image of IUPAC within chemistry. The latter discussion should cover such special topics as: nomenclature and terminology; standard methods, harmonization and trace analysis; polymers; the definition of pH; the stability constant database.

10. REPORT FROM WORKING PARTY ON EDUCATION PROPOSALS

In the absence of Prof. Jortner, Dr. Becker reviewed the origin and charge to the Working Party on Education Proposals. He noted that letters had been sent to over 100 organizations, mainly chemical societies, and about ten replies had been received. The larger societies did not see a need for IUPAC to be involved in curriculum development while some of the smaller societies thought this would be helpful.

The Working Party had agreed on the following recommendations:

1. the name of the committee should be changed to the Committee on Chemistry Education;
2. the committee should continue as an operational standing committee;
3. the Terms of reference proposed by the Education Strategy Development Committee should be adopted;
4. the committee should have 8 Titular Members (including the Chairman and Secretary), 8 Associate Members representing the Divisions-these should be Titular Members of the Division Committee, and National Representatives-there should be no limit on the number of national Representatives;
5. the committee should have two subcommittees, one on the Public Awareness of Chemistry and the other on Education in Developing countries--the Chairmen of both Subcommittees should be Titular Members of the Committee.

Dr. Becker noted that the NAOs felt it was important to have National Representatives on this committee and that it was important for this committee to have good communication with the NAOs. He commented that it was vital to the success of this committee to find a Chairman and Titular Members that had a broad view of education.

Dr. Hayes suggested that it might be more efficient to organize National Representatives into regional groups. Each group would then have one representative on the committee. Dr. Becker noted that educational issues are so diverse that he believed that individual National Representatives were necessary. Dr. Becker also commented that the ESDC had had strong disagreements on the role of IUPAC in curriculum development. This was reflected in the divergence of opinions on this subject among the chemical societies noted above.

Prof. Sydnes reported that some members of the ESDC felt that it would be helpful

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

to have an internationally-developed curriculum available to push local Universities to adopt reformed curricula. However, the consensus of the ESDC was that IUPAC should not develop curricula but should be a clearinghouse. Dr. Becker commented that the Working Party felt that the role of the Education Committee should be to gather and organize information both in the area of curriculum development and the public appreciation of chemistry. Dr. Becker reported the Working Party had intensively discussed the proposals in the ESDC report on the use of the Internet and *Chemistry International*. It had been agreed that it would be important to the success of the reorganized committee to make maximum use of these two channels of communication. Dr. Jost noted that the Secretariat was prepared to assist the reconstituted committee but that the need for additional staff could only be determined when it was clear what use the committee made of the Internet and *CI*. Dr. Przybylowicz commented that the public appreciation of chemistry would be expected to have a broader focus and a wider audience than that for curriculum related issues.

Dr. Becker reported that the Working party had endorsed the recommendation of the ESDC that IUPAC should in general avoid projects that had as their aim the production of equipment or materials. The difficulties of dissemination were usually beyond the resources that IUPAC could provide. He also commented that while the Working Party appreciated the comments from some of the chemical societies regarding the necessity to translate materials into local languages, it was felt that this was the responsibility of the interested parties. IUPAC's role should be to make educators around the world aware of the materials that were available in any language.

11. STRUCTURE OF THE UNION'S NOMENCLATURE ACTIVITIES

11.1 FUTURE OF CCINS (COMMITTEE ON CHEMICAL IDENTITY AND NOMENCLATURE SYSTEMS)

Dr. Becker reviewed the material that had been provided to the Committee. After some discussion, the Committee recommended to the Bureau that the *ad hoc* committee be extended to the end of 2001. The Committee also recommended the acceptance of the proposal to establish a new Division of Systematic Nomenclature and Structure Representation. The Executive Committee also noted that it recommends that subcommittees of the new Division Committee not meet on a regular basis, but only when necessary.

11.2 FUTURE OF IDCNS (INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS)

Dr. Becker reviewed the background provided. The committee agreed to the proposal that the membership of IDCNS be redefined so that the division representatives must be members of their respective Division Committees.

11.3 CONTINUATION OF JCBN (JOINT COMMISSION ON BIOCHEMICAL NOMENCLATURE)

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

After a brief discussion, the Committee agreed to the continuation of the JCBN. If the proposal to create the new Division of Systematic Nomenclature and Structure Representation is approved by Council, JCBN should report to the new Division.

12. PROPOSALS TO CREATE NEW COMMISSIONS

12.1 COMMISSION I.1: QUANTITIES, UNITS & SYMBOLS

Dr. Becker reported the status of the work by the *ad hoc* Committee. A report and recommendation will be ready for the Bureau meeting at Brisbane.

12.2 COMMISSION II.1: ATOMIC WEIGHTS & ISOTOPIC ABUNDANCES

Dr. Becker reported the status of the work by the *ad hoc* Committee. A report and recommendation will be ready for the Bureau meeting at Brisbane.

Dr. Becker noted that the Committee has reservations about including the International Measurement Evaluation Programmes (IMEP) in the new Commission.

13. PROGRESS REPORT FROM *AD HOC* COMMITTEE ON THE RELATIONSHIP OF IUPAC AND THE GLOBAL CHEMICAL INDUSTRY

Dr. Hayes reviewed the background, with special emphasis on the efforts that had been made to involve the major trade associations in the work of IUPAC, especially with COCI. CEFIC, the European Chemical Industry Council, has agreed to provide a member of COCI. Attempts to contact the American Chemistry Council (ACC) formerly the Chemical Manufacturers Association, had been unsuccessful but would be continued. Dr. Jost and Dr. Przybylowicz plan to visit the Washington office of the ACC to see if the ACC can be convinced of the importance of establishing a formal connection with IUPAC. Dr. Miyamoto has agreed to ask the JCIA, Japan Chemical Industry Association, to name a member of COCI.

Dr. Hayes then described the need to bring COCI into the normal IUPAC structure. This would involve funding the participation of the core members of the Committee by IUPAC rather than relying on the ability of the members to obtain funding from their companies. He also noted the need to involve senior industry executives from the R&D sector in COCI. There was a brief discussion of possible candidates for the position of Chairman in 2002. The Committee agreed that new terms of reference and a new membership structure were needed for COCI. The new membership structure would consist of Titular Members whose participation was funded by IUPAC and National Representatives whose participation would be funded by their organizations.

Dr. Hayes noted that Dr. P. Norling, the Chairman of CHEMRAWN, would prepare a report for the Bureau on changes to the structure and operations of the committee.

MINUTES

14. INTERNATIONAL CHEMISTRY COUNCIL-DISCUSSION

Dr. Hayes reviewed the history of the ICC. He planned to meet with the new Assistant Director-General for Natural Sciences at UNESCO to discuss the role of the ICC in promoting interactions between UNESCO and IUPAC. He noted that the current ICC members would become an advisory panel and would not be expected to attend meetings. The ICC-Executive Committee [namely, the President and Secretary General of IUPAC, the UNESCO representative, and the Chairmen of COCI, CHEMRAWN, and CTC] would meet at Brisbane on the Sunday afternoon after the Council meeting (8 July 2001).

15. STRATEGIC PLAN

15.1 PROGRESS MADE IN ACHIEVING THE GOALS SET IN THE STRATEGIC PLAN

This subject was covered during the discussion of the VPCA.

15.2 UPDATING THE STRATEGIC PLAN

Dr. Becker noted that the next revision of the Strategic Plan is expected to be more significant than the revision made in 1999. It is planned that after discussion at Council, a Committee will be appointed to do the actual revision. The draft revised Strategic Plan would be reviewed at the proposed special meeting of the Executive Committee at the end of 2001. The special committee appointed to revise the Strategic Plan will also consider the question "Where does IUPAC go now?" After some discussion, Dr. Przybylowicz was asked to chair the special committee. The members of the Committee will be appointed by the President at a later date.

Dr. Becker reported that the Biennial Report 2000-1 would be prepared using the same format as the Biennial Report 1998-9. The Division Presidents have been asked to structure their reports to Council so that they can easily be incorporated into the biennial report. It is planned to complete the report by the end of 2001 and to print it early in 2002.

16. PROJECT APPROVAL SYSTEM

16.1 CURRENT PROJECTS

Dr. Jost reviewed the data in the supplied reports. The new project system continues to evolve. A significant number of projects have been approved and are in progress. The major problems with the new system are the difficulty of obtaining outside reviews of proposed projects and that of getting timely responses from the Division Committees. There also continues to be confusion on the part of some Division Committees of their role *vis á vis* the Project Committee.

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

16.2 GUIDELINES FOR IUPAC PROJECTS

Dr. Becker reported that three meetings were now planned for Brisbane to address various concerns regarding the project system. These are as follows:

1. Open Meeting on Projects: this meeting will take place on Friday 29 June 2001 and will be open to all members of IUPAC bodies. The purpose of this meeting is to encourage the current members of IUPAC bodies to submit projects. This will be done, in part, by reviewing the process and the kinds of projects IUPAC is looking for.
2. Project Workshop: this meeting is scheduled for Monday 2 July 2001 and will be facilitated by Dr. Norling. Participants will be Division Officers and members of Division Committees, along with representatives of some Standing Committees. The purpose of this meeting is to exchange ideas on how to encourage chemists around the world to submit projects.
3. Project Policies and Procedures: this meeting is scheduled for Tuesday 3 July 2001. Participants will be Division Presidents, Standing Committee Chairman whose committees would be expected to generate projects, and Division Officers as felt necessary. The purpose of this meeting is to review the policies and procedures for the approval system.

Dr. Becker commented that each of these meetings was intended to address the concerns of a different audience. The Open Meeting would reach out to the current members of IUPAC bodies and encourage them to view the change to a project system as a change in their relationship to IUPAC not the end of that relationship. The Project Workshop will address the concern that the new system has no method to automatically generate projects. The last meeting will address concerns about the operation of the new system.

16.3 NEW ICSU GUIDELINES FOR SMALL GRANTS

Dr. Jost reviewed the new guidelines from ICSU for the small grants program. The most significant change was the introduction of a strong recommendation (requirement) that all grant proposals have cosponsorship from another Union or a National Member of ICSU. The other significant change that has been introduced is the concept of block grants. Each Union can apply for a USD 5000 grant that can be used for projects that the Union feels meet the objectives of the ICSU grants program. The stated intent of the block grants program is to reduce the number of applications for small grants.

16.4 PROPOSAL FOR LARGE ICSU GRANT-JOINT WITH SCOPE

Dr. Hayes asked Prof. Sydnes to comment on the review of the grant proposal from Dr. Miyamoto "SCOPE/IUPAC Project on Endocrine Active Substances" by the Project Committee. Prof. Sydnes noted that the review of the project by the Project Committee had expressed reservations especially about the workshop planned for the end of the project. He also noted that the

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

field might be moving too fast for a new review of the science at this time to be useful. The Project Committee felt that the planned workshop should be refocused.

Dr. Becker briefly reviewed the history of this project, noting that Dr. Miyamoto had obtained significant support from the Japanese government. IUPAC has agreed to publish the final report as two special issues (~600 pages) in *Pure and Applied Chemistry*. He suggested that IUPAC agree to cosponsor the proposal from SCOPE to ICSU. The cosponsorship should note that the project has been reviewed by IUPAC, that it has been supported by a grant of USD 10 000, further funding is being considered, and that IUPAC has agreed to publish the final report and will bear the publication expenses. After further discussion of the objectives of the project, the recommendation of the Secretary General was approved.

16.5 PROPOSALS FOR SMALL ICSU GRANTS

Dr. Becker reviewed the projects being considered for submission to ICSU. Requests have been made to SCOPE and to the Russian Academy of Science to cosponsor two of the projects if it is decided to submit them to ICSU. The Secretary General was authorized to decide which, if any, of these projects should be submitted to ICSU.

17. FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS

Dr. Jost reported that there are now 459 Fellows, 359 with e-mail, compared to 194 Fellows in 1998-9. Replies accepting the offer of IUPAC fellowship have been received from 144 Fellows. The large increase in the number of Fellows is due to the inclusion this year of former members of Subcommittees and Working Parties. There are 36 individual AMP members, 4129 Paid (3050 ACS), and 396 sponsored, for a total of 4525.

The financial results for *CI* and the AMP will be summarized in Item 20.1. The net income is still positive. The cost of providing *CI* for Fellows is USD 4200 at full cost (USD 9.14).

18. IUPAC WEB SITE AND OTHER PUBLICITY ABOUT THE UNION

Dr. Jost noted that the main page of the IUPAC web site was being redesigned with the intent of changing the design philosophy of the site. The current design is based on the organizational structure of IUPAC and was originally intended to be an expanded and enhanced version of the IUPAC Handbook. This design is useful for members of IUPAC bodies but is not intuitive to nonmembers. The new design will lead visitors who are not familiar with IUPAC to the topics that are of interest to them, such as the names of the elements, nomenclature, publications, etc. The report on the web site was noted and the Secretariat was congratulated on the continuing improvement in the content and usability of the site.

The Biennial Report 1998-9 was noted as a good example of how to present the work of IUPAC to the world chemistry community in an attractive and effective

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

way. The major contributors to the report, Dr. Becker and Dr. Przybylowicz, were thanked for their work. The new brochure *IUPAC and Industry* was also viewed as being both attractive and effective in presenting IUPAC's work to both industry and the general chemistry community. Dr. Jost was asked to have the title of the report changed to *IUPAC at a Glance* and have a new supply printed.

19. STATUS REPORT ON IUPAC SECRETARIAT

The Committee noted the written report that had been provided.

20. PUBLICATIONS

20.1 STATUS REPORT *CHEMISTRY INTERNATIONAL*

Dr. Jost reported that *Chemistry International* continues to be published on schedule. The total number of copies printed in 1999 was 40 180 and in 2000 is 43 447. More copies of *CI* were printed because of the increase in the number of Fellows, members of IUPAC bodies, and AMP members.

Articles on chemistry in various countries have been published as part of our effort to improve the content of *CI*. Sample copies of *CI* are being sent to all IUPAC sponsored conferences.

The most significant activity with respect to *CI* was the appointment of a Strategy Development Committee by the EC, chaired by Dr. D. H. M. Bowen, to develop recommendations regarding the role of *CI* in IUPAC and any changes required in format and staffing to achieve the goals set for *CI*. The report of the Committee will be discussed in Item 20.2. An announcement regarding the work of the Committee was printed in the July issue of *CI*.

The financial benefits expected from self-publishing have been achieved.

20.2 REPORT OF THE *CHEMISTRY INTERNATIONAL* STRATEGY DEVELOPMENT COMMITTEE

Dr. Becker reviewed the background and the report of the CISDC. He noted the proposed Mission Statement for *Chemistry International*. The Committee approved this proposal. Dr. Becker commented that the report could be summarized by saying that *Chemistry International* needed a better look and feel. It should be seen as a news magazine that reports on IUPAC activities, as well as issues in chemistry of international interest, rather than a collection of reports from IUPAC bodies. The CISDC report emphasizes the importance of integrating the three main news channels of the Union, *Chemistry International*, the web site, and e-news. It was suggested by the Executive Committee that *CI* should be distributed to every participant at all IUPAC sponsored conferences.

Dr. Jost reported that he was investigating a plan to implement the recommendations of the CISDC. The major change would be to have all of the production related work for the print and electronic editions done by one

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

outside contractor. The Secretariat would assign one person, Dr. Meyers, to coordinate *CI* and to be responsible for its content. Dr. Jost was asked to provide costs for the proposed changes following from the recommendations of the CISDC. These are:

- a new outside contractor to handle production of both *CI* and the web edition of *CI*;
- production in color;
- free copies to all conference participants;
- a design consultant.

Dr. Jost expected to have the costs associated with the above items defined by the General Assembly and the new *CI* could be ready by early in 2002.

The CISDC was thanked for its work and was discharged. Dr. Hayes commented that an announcement should be made at the appropriate time regarding the “new *CI*” and the three-fold communication path.

20.3 STATUS REPORT *PURE AND APPLIED CHEMISTRY*

Dr. Jost reported that Blackwell struggled to finish out 1999. The December 1999 issue was printed on 4 August 2000. The late publication of the 1999 issues generated a lot of work for the Secretariat in responding to claims for “missing” issues. An additional contract editor has been hired. This has allowed us to gain two months towards our goal of printing *PAC* the month before the issue date. The improved timeliness of the journal has significantly reduced the number of claims for “missing” issues.

Total paid subscribers for 2000 was 620, including 12 who have taken the three-year option, 16 personal subscriptions and 22 Company Associates. 121 copies of *PAC* are sent to NAOs, officers, and others.

The EC had previously approved the provision of a free subscription to each ANAO that wished to receive one. A letter was sent asking if the ANAOs wished to receive a free subscription to *PAC* on 2 May 2000. So far, seven of the seventeen paid up ANAOs have accepted this offer.

The first issue of 2000 was a double issue of papers arising out of the Workshop on Advanced Materials (Nanotechnology) held last June in Hong Kong. This special issue was published as a double issue of over 300 pages.

There have been extensive discussions regarding how to handle subscriptions to the electronic version of *PAC*. It is expected that the initial electronic edition will use SGML headers and Adobe Acrobat pdf files of individual articles. The Bureau has approved the recommendation by CPEP to charge USD 866 for an online only subscription, and USD 15 for downloads of individual articles. Reports & Recommendations would be free.

The full text of Reports and Recommendations are currently available on the IUPAC web site. The tables of contents, with links to abstracts of all articles are available for all issues since the January 2000 issue.

A message was sent to our e-mail list of Members of IUPAC bodies and

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

Fellows asking that they encourage their home institution libraries to subscribe to *PAC*. A brochure was developed to publicize the special issue on nanotechnology; and was distributed at a number of conferences on nanotechnology in 2000.

A press release was issued to announce that IUPAC was holding the line on subscription prices for both *PAC* and *CI*.

There was then a discussion of the continuing decline in the number of institutional subscribers. The Committee agreed with the recommendation of the Finance Committee, as noted in Item 7.5, that the institutional subscription price should be increased to maintain the income from *PAC* at its current level.

20.4 SPECIAL ISSUES OF *PURE AND APPLIED CHEMISTRY*

Dr. Jost reported that a special issue on Sustainable Chemistry (Green Chemistry) was published as the July issue of *PAC*. Prof. J. Bull wrote an article for the July issue of *CI* about the special issue on nanotechnology. This article also discusses the concept of special issues in general. Prof. Bull has sent out a letter soliciting review articles to be published in *PAC*. The first of these by Prof. F. Schaeffer was published in the August issue.

20.5 SUPPLEMENT TO "HISTORY OF IUPAC"

Dr. Jost reported that Dr. Becker had revised and extended the manuscript provided by Dr. S. Brown to cover the years 1998-9. The revised manuscript was sent to Dr. Brown for his comments. Comments were also received from Dr. M. Williams. These comments were incorporated into the final draft of the supplement. The draft has been edited to conform to the style of the original book. It is now being laid out for printing. Pictures of officers have also been collected and will be included in the final book. The supplement will be printed as a separate volume and combined with the existing stock of the original *History of IUPAC*, using a separate slipcover to combine the two volumes.

20.6 BOOK PUBLICATION AND BOOK SALES

Dr. Jost reported that the stock of IUPAC books was purchased from Blackwell for USD 60 000 plus USD 2 692 shipping. USD 19 928 worth of books have been sold to date. Price lists are being sent to all IUPAC-sponsored conferences. In addition, an appropriate sample book is being sent to each conference. A message was included in a recent E-Newsletter reminding recipients that they are eligible for a 25% discount on all IUPAC books bought directly from IUPAC.

Future book contracts will be negotiated with publishers on a case-by-case basis. A contract has been signed with the Royal Society of Chemistry to publish Red Book II and the revised Red Book. A draft contract, based on this contract has been received from the RSC for the Green Book. A draft contract

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

for the Green Book has also been received from Oxford University Press. These contracts have been circulated to the interested parties in IUPAC for comment.

Two hundred copies of the Orange book were reprinted by Cadmus.

Elsevier has printed Volume V of the series on Experimental Thermodynamics by Senger et al. - *Equations of State for Fluids and Fluid Mixtures*. IUPAC is negotiating with Elsevier to publish Volume VI, Editors, Wakeham, Marsh and Goodwin and Volume VII, Editors, Weir and de Loos. Wiley is also interested in publishing these two volumes.

A contract has been signed with Wiley for *The Experimental Determination of Solubilities* by Tompkins et al.

A draft contract has been received from Verlag Helvetica Chimica Acta to publish *Pharmaceutical Salts – Properties, Selection, and Use*, Editors Wermuth and Stahl. We are waiting for a response to our comments on the draft contract.

The feasibility of printing CD-ROMs in-house with one or more of the color books as a series of pdf files is being studied. We are investigating the feasibility of putting the Orange Book on line on the IUPAC web site.

21. IUPAC ARCHIVES

21.1 ARCHIVES AT THE CHEMICAL HERITAGE FOUNDATION-REQUEST FOR FUNDING

Dr. Becker reviewed the history of the relationship between IUPAC and the Chemical Heritage Foundation and relayed a request from CHF for USD 15 000 to assist in archiving the large amount of IUPAC material, which appears to be of widespread interest to scientific historians. The Committee approved a contribution of USD 5000.

21.2 CURRENT ARCHIVES-PAPER AND ELECTRONIC

Dr. Jost reported that a special e-mail address has been set up, archives@iupac.org, to allow officers of IUPAC bodies to send copies of correspondence to an electronic archive at the Secretariat. This facility has seen limited use to date. The Secretariat will continue to encourage officers of IUPAC bodies to use this as a way of archiving correspondence. All retiring officers will be asked to send their paper files to the Secretariat at the end of 2001.

22. CONFERENCES AND SYMPOSIA

22.1 NEW DIRECTIONS IN CHEMICAL SCIENCES COMMITTEE

In Prof. Jortner's absence, Dr. Jost reported that the next conference in this series would be called Nanostructured Advanced Materials and would be held in India on 13-16 February 2002.

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

22.2 CONFERENCES IN DEVELOPING COUNTRIES

Prof. Ohtaki reviewed the situation. He noted that only USD 10 000 had been approved for conference support for conferences in 2001. He asked if the USD 10 000 not spent for 2001 was available for conferences in 2002 or only for 2001 conferences. If it was available for 2002, could more than three conferences be supported? The committee agreed that the allocation to this program could be considered to be for the biennium and that more than three conferences could be supported in a given year.

Dr. Hayes expressed his concern that there was no definition of a developing or economically disadvantaged country. After some discussion, the Committee suggested that a list of those NAOs eligible for support under this program be drawn up.

22.3 CONFERENCE POLICY COMMITTEE

Dr. Becker reviewed the background of the proposal to appoint an *ad hoc* Committee to review the Union's policies on sponsoring conferences and related issues, especially the publication of conference lectures in *PAC*. After a review of the Terms of Reference for the proposed committee, the proposal was approved. There was then a discussion of possible members. It was agreed that the President would be authorized to appoint the members of the committee after appropriate consultation.

22.4 RATIFICATION OF SPONSORSHIP OF SYMPOSIA

The Committee ratified the sponsorship of conferences that had been made since the Bureau meeting.

23. GENERAL ASSEMBLIES AND CONGRESSES

23.1 PLANS FOR BRISBANE, 2001

Dr. Jost reported on his site visit. The local arrangements are proceeding as planned and the local organizing committee is implementing our requests concerning the logistics. No problems were noted during the visit and a number of details were clarified.

23.2 PLANS FOR OTTAWA, 2003

Dr. Jost reported that there had been no contact with the organizing committee since IUPAC had provided its suggested members of the International Advisory Board.

23.3 CONGRESS AND GENERAL ASSEMBLY, 2005

Dr. Jost reported that the only bid to hold the 2005 General Assembly and Congress had come from the Chinese Chemical Society. Dr. Jost has arranged a visit to Beijing for 25 April 2001.

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

24. IUPAC BODIES

24.1 RATIFICATION OF MEMBERSHIPS APPROVED BY CORRESPONDENCE

The Committee ratified the appointments of members of IUPAC bodies that had been approved by correspondence.

24.2 NOMINATIONS OF NEW MEMBERS

The Committee approved the appointment of Prof. Q. Zhuang to be a National Representative on CTC for the period 2000-1.

25. CLAQ MEETING, LIMA, PERU

Prof. Steyn briefly reviewed the visit by himself and Dr. Jost to the XXIV Congreso Latinoamericano de Química in Lima, Peru. The Committee thanked Prof. Steyn and Dr. Jost for their efforts to increase the participation of Latin American chemical societies in IUPAC.

26. CHEMICAL WEAPONS CONVENTION REVIEW

Dr. Becker reviewed the background of the series of meetings in which he had participated on the review of the Chemical Weapons Convention that will occur in 2003. IUPAC has been approached to provide scientific advice to the Office for Prohibition of Chemical Weapons. Dr. Hayes will meet with the Director-General of OPCW in April to formalize the relationship. The intent is to hold an international conference on scientific issues in 2002, with a small planning meeting at the OPCW headquarters in The Hague in 2001. Both conferences will be under the auspices of IUPAC. The Committee endorsed the participation of IUPAC in this worldwide effort.

27. US CHEMICAL SCIENCES ROUNDTABLE

Dr. Przybylowicz reported that he had attended the recent meeting of the US Chemical Sciences Roundtable. This is a group of senior leaders of academic, industrial, and government chemistry related organizations. He has been invited to become member of the group. One purpose of his participation had been to increase awareness of IUPAC and its work; the second was to promote possible interactions between IUPAC and the Roundtable. The Committee thanked Dr. Przybylowicz for his work.

28. IUPAC PRIZE FOR YOUNG SCIENTISTS

In the absence of Prof. Jortner, Dr. Becker reported that there were 29 applicants for the 2001 prize and judging would be finished by the end of March. He noted that the applications were of uniformly high quality.

128th MEETING OF EXECUTIVE COMMITTEE

MINUTES

29. NAMES AND SYMBOLS OF TRANSFERMIUM ELEMENTS 110-112

Dr. Jost reported that the IUPAC/IUPAP joint working party on the priority of claims to the discovery of elements 110, 111, and 112 has completed its work. It has concluded that only the claim to discovery of element 110 met the criteria previously established for validating claims. Relevant parts of the report of the JWP were reviewed for technical accuracy during its preparation by the laboratories involved. The final version has also been informally reviewed by experts from IUPAC and IUPAP. The report will now be published in *Pure and Applied Chemistry*. The Commission on Nomenclature of Inorganic Chemistry will request the discovering laboratory to suggest a name for element 110. The Commission will then draft a report proposing a name for element 110. This will be made available for public comment as a provisional recommendation. After public comments have been received and reviewed, a recommendation will be made for approval by Council.

30. DATES AND PLACE OF NEXT EXECUTIVE COMMITTEE MEETING

The Committee decided that a special meeting of the Executive Committee should be held later in 2001 to discuss strategic issues (see Item 7.3). The tentative date for this meeting is 1-2 December 2001. The meeting will cover all day Saturday and half of Sunday, the remainder of Sunday would be devoted to more routine matters associated with the end of the biennium. The members of the Committee were asked to arrive on Friday 30 November. The backup date is the following weekend, 7-8 December. The Hilton at Cobham, site of the last Bureau meeting, was suggested as a possible venue. Dr. Jost was asked to determine availability and to investigate alternative sites.

After some discussion, it was agreed that the next regular meeting of the Executive Committee would probably be held the first weekend in April 2002 at a site to be determined. Prof. Sydnese was asked to discuss possible sites in Italy with Prof. Modena of the Italian National Committee.

31. ANY OTHER BUSINESS

There was no other business.