

International Union of Pure and Applied Chemistry

127th MEETING OF EXECUTIVE COMMITTEE

San Francisco, California, USA 24-25 March 2000

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

Secretary: Dr. J. W. Jost

1. INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Dr. Hayes welcomed the members of the Committee to the 127th meeting. Dr. Hayes extended a special welcome to the new members of the Committee, Dr. Buxtorf and Prof. Sydnes. Dr. Hayes noted that Prof. Ward and his wife had been asked to join the Bureau for dinner at its next meeting in Cobham, UK. He then asked if there were any comments on the agenda. There were no comments; the agenda was adopted unchanged.

2. MINUTES OF 126TH MEETING OF EXECUTIVE COMMITTEE

2.1 AMENDMENTS AND APPROVAL

Dr. Becker noted that the minutes had been approved by correspondence. No amendments were proposed.

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

There were no matters arising.

3. ACTION ITEMS FROM BUREAU MEETINGS

Dr. Jost was asked to provide a separate list of completed and in progress items as of this meeting to the Bureau for its next meeting. There was a brief discussion of Item 5 regarding the presentation of scientific talks by the Division Presidents at Bureau meetings. It was concluded that the concept in Item 6, a strategic review of the activities of Divisions and Operational Standing Committees was more appropriate. After some discussion it was agreed that rather than asking Division Presidents to present a scientific review of work in their Divisions the suggestion from the last Division Presidents meeting should be adopted. This proposed that the Division Presidents and Standing Committee Chairmen should present a strategic review of their Division's plans. Two Division Presidents and the Chairman of CHEMRAWN will be asked to make such a presentation at the next Bureau meeting. The presentations should have a twenty-minute time limit.

4. FINANCE COMMITTEE

4.1 REPORT FROM FINANCE COMMITTEE MEETING, FEBRUARY 2000

Dr. Przybylowicz noted that due to his inability to fly to Zürich because of

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bad weather, Prof. Ward had chaired the meeting. Specific items discussed at the Finance Committee meeting of interest to the Executive Committee would be discussed under the appropriate headings of the subsequent agenda items.

4.2 STATEMENT OF ACCOUNTS FOR 1999

Dr. Buxtorf observed that the overall financial situation of the Union is very good. He noted that 51% of the Union's revenues came from National Subscriptions, more than 33% from publications, and 15% from dividends and interest plus miscellaneous sources.

He reported that the Finance Committee had had an extensive discussion of the desirability of taking exchange rates into account when setting National Subscriptions. It was decided to continue using US dollars because any attempt to change to an alternative, such as a basket of currencies, would lead to excessive complications. Special situations would continue to be handled on a case by case basis.

4.3 NATIONAL SUBSCRIPTIONS

Dr. Buxtorf reported that the Finance Committee had discussed the current formula for calculating National Subscriptions and had concluded that the formula should not be changed. The Executive Committee recognized this discussion and approved the decision.

4.4 REVIEW OF BUDGETS FOR 2000-1 AND CAPITAL BUDGET FOR 2000

Dr. Buxtorf noted that care would have to be exercised in considering requests for additional funds from the operating reserve. How do we make sure that the first to apply do not gain funds at the expense of later, possibly better, projects? Dr. Becker described the evolution of the procedure for approval and funding of projects, as described under item 14. He pointed out the need for flexibility in funding during the transition period, 2000-2001, when Commission operations consume a large fraction of divisional budgets. He briefly reviewed the situation in Division VI that had led to a request for funds in addition to the original budget as an example.

Dr. Hayes asked that the column labeled over/under in the Management Accounts Reports be instead labeled favorable/unfavorable to make interpretation easier.

4.5 ALLOCATIONS TO IUPAC BODIES, 2002-3

Dr. Becker briefly described the earlier discussions of how to approach the subject of allocation to IUPAC bodies in 2002-3, especially to Divisions. The scheme labeled C in the paper from Prof. Ward had been adopted by the EC last year as that giving the most flexibility. The intention is to increase the allocation to Divisions in future biennia based on the experience gained in allocating the undistributed Division/Standing Committee reserve during the biennium on the basis of needs. There was a discussion of the value of a zero

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based budget approach to allocations. The conclusion was that such an approach, while attractive in the abstract, had too many practical difficulties to be adopted.

4.6 COMPANY ASSOCIATE FEES

Dr. Jost reported that a letter that had been sent to those NAOs whose Company Associates paid their fees directly to the Secretariat. The responses received covered all the possibilities regarding the use of the fees. Most NAOs had not responded. Fees from Company Associates of those NAOs would continue to be added to the general funds of the Union. Dr. Jost also noted the certificate of membership developed for Company Associates. These certificates have been sent to the NAOs for distribution to Company Associates when they have paid their 2000 fees.

4.7 OFFICIAL IUPAC ADDRESS – ACTION

The change of the Union's official address to Reber and Co., Zürich, Switzerland proposed by the Finance Committee was approved.

4.8 DISCUSSION OF INVESTMENT POLICY STATEMENT

Dr. Przybylowicz informed the Committee that USD 200 000 had recently been taken from the Union's checking account and invested. In addition, USD 50 000 had been transferred from the operating reserve to the Southern Hemisphere Fund and USD 600 000 had been transferred from the operating reserve to the Endowment Fund. The return of the investment portfolio had been ~11% in 1999. The Investment portfolio was invested in stocks and bonds with a ratio of 60:40. The stock portion of the portfolio was invested in US and European funds in a 60:40 ratio.

Dr. Przybylowicz described the reasons for the proposal of the Finance Committee to adopt an Investment Policy Statement. The Committee felt that such a statement would be useful in communicating with the Council and other groups. The Executive Committee asked the Chairman of the Finance Committee to continue development of an Investment Policy Statement. In addition to the subjects covered in the draft statement, the final statement should include a discussion of the Operating Reserve, the Endowment Fund, and the Southern Hemisphere Fund. The Committee suggested a separate policy statement be developed regarding the use of the income from the Endowment Fund. After approval by the Finance Committee, these statements should be brought to the Executive Committee and the Bureau for approval in 2001.

5. VICE PRESIDENTIAL CRITICAL ASSESSMENT

Prof. Steyn spoke to his paper. He plans to address two major subjects. The first is the assessment of the progress and problems associated with the change in the Union's management of its scientific work. Feedback will be solicited from

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Division Presidents and Standing Committee Chairmen. The second is to evaluate the success achieved in meeting each of the ten Goals in the Strategic Plan.

Dr. Becker commented that the first subject was a timely one. Prof. Jortner suggested that a focus on IUPAC's role in the service of chemistry in the global context should be added. Dr. Hayes noted that his attempts to improve the Union's involvement with the UN agencies had not been successful. He suggested a strategic overview of this subject might be useful. The subsequent discussion concluded that the UN agencies were difficult to deal with other than on a project by project basis. The Committee encouraged Prof. Steyn to proceed as he had proposed.

6. SHOULD THE VPCA BE ADDED TO THE COUNCIL AGENDA?

After a brief discussion of the background to this subject, the Committee decided to add the VPCA to the agenda of the 2001 and subsequent Council meetings.

7. PLANS FOR IUPAC MEETING IN PERU, OCTOBER 14, 2000

Dr. Jost reported that Prof. Gabriel Infante from Puerto Rico had offered to provide a list of possible participants for this meeting. It was noted that unlike the meetings organized in North America, Europe, Asia, and Africa, there was no local champion able to take on the organization of this meeting. The activity of the American Chemical Society in this area might be helpful. There was some discussion of how this meeting related to the Chemistry World Leadership meeting (see Item 8). It was decided that this meeting was of potential value and should be pursued. Dr. Jost was asked to contact Prof. Carol Collins of Brazil to obtain the names of more potential participants. The agenda of the meeting will have to be developed by the Secretariat in conjunction with Prof. Infante, Prof. Collins, and possibly other Latin American chemists active in IUPAC. Dr. Hayes was asked to represent IUPAC at the meeting.

8. CONFERENCE OF LEADERS OF WORLD CHEMICAL COMMUNITY

One of the action items emanating from the meeting of Presidents of National Chemical Societies in Berlin, just after the General Assembly, asked IUPAC to collect and organize information on programs being planned or conducted by major Chemical Societies to aid developing countries. With this information in hand, IUPAC was asked to organize a meeting of leaders of the world chemical community to discuss potential collaborative efforts.

The Committee agreed that a meeting should be organized for the Brisbane General Assembly to include both national chemical societies and regional chemical societies. The meeting would take place on the Monday after the Council meeting. Funding would be provided for some delegates by IUPAC. Additional funding would be sought from the major chemical societies.

Prof. Steyn will chair an organizing committee, with Dr. Jost and Dr. Meyers providing staff support. Possible members of the organizing committee are: Dr. Hayes, Prof. Jortner, Prof. Ohtaki, Dr. Becker, Prof. Sydnes, Prof. Gilbert, and Prof. Nefedov. A tentative time was set for the organizing committee to meet on

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September 21, two days before the Bureau meeting.

Dr. Jost was asked to contact Dr. John Malin of the ACS concerning a possible format for a questionnaire to obtain necessary information. The Secretariat will distribute the questionnaire to the chemical societies in developed countries and collect the responses. A report will be prepared for the Bureau meeting. The results will be organized for posting on the IUPAC web site.

9. PROGRESS REPORT FROM EDUCATION STRATEGY DEVELOPMENT COMMITTEE

Prof. Jortner reviewed the background leading to the formation of the *ad hoc* Committee, noting especially Dr. Hayes' VPCA. He then reviewed the Charge to the Committee and its membership. IUPAC is fortunate that Prof. Peter Atkins has accepted the task of Chairman of the Committee. He also expressed his appreciation of the excellent work done by Dr. Meyers in coordinating the work of the Committee and organizing the London meeting.

It is expected that the committee will emphasize relevance, international dimension, capacity building, and public understanding of chemistry. The committee has taken a zero based planning approach to its work. If there were no education activities in the Union, what would one create? Prof. Jortner then reviewed the meeting summary. One proposal discussed was to replace the current Committee on the Teaching of Chemistry with a Committee on Education in the Chemical Sciences.

Prof. Sydnes reviewed the work of the committee, noting that it had conducted a thorough examination of the activities of CTC. The work of the committee has been divided into three subgroups:

1. Current activities
2. Public appreciation of the chemical sciences
3. Organizational changes

Each subgroup will write a draft report that will be circulated in turn to each of the other subgroups for comment. Final drafts are due to Prof. Atkins by 31 May. The committee plans to meet in July to prepare its final report. The committee has decided to publicize its work widely by inviting comments on IUPAC's educational activities from inside and outside IUPAC. A letter has been drafted that will be sent to members of CTC, NAOs, chemical societies, and chemical magazines. It is expected that many of the chemical magazines will print the letter or a summary.

Prof. Ohtaki noted that a conference on the Public Understanding of Science in Asia (PUSAT 2000) will be held in Malaysia in April. Dr. Hayes suggested that the draft final report could be circulated to the major chemical societies for comment.

Prof. Sydnes suggested that this could be done between completion of the draft at the end of May and the meeting in July.

10. REPORT FROM NOMENCLATURE ROUNDTABLE

Dr. Becker described the background of the meeting and its participants. The focus of the meeting was on what nomenclature activities the Union should undertake, rather than on organizational issues and the work of the current Commissions. He

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then briefly reviewed the meeting summary that was handed out. Dr. Becker noted that the meeting had exceeded his expectations. Participation had been high and the discussion had been fruitful, leading to a number of suggestions and recommendations, as noted in the summary report. The EC was asked to act on three proposals:

1. Establish, effective immediately, an *ad hoc* Committee on Chemical Identity and Nomenclature Systems. Dr. Alan D. McNaught was proposed as the Chairman of this committee.
2. Approve the feasibility study of the Chemical Identifier project [Recommendation 7 in the summary report], to be managed by the CCINS. Drs. Stephen Heller and Stephen Stein to lead the feasibility study.
3. Authorize the appointment of an official IUPAC representative to OASIS, the coordinating group for development of XML [extended markup language] when and if such a representative is deemed appropriate by the Secretary General and the Chairman of CCINS.

The Executive Committee approved all three recommendations.

Prof. Steyn commented that it will be important to keep the Chemical Abstracts Service involved in IUPAC's nomenclature work. The commercial implications of this work should be kept in mind.

10.1 IDCNS-REPORT FROM PROF. MILLS

There was a general discussion of Prof. Mills' report. It was felt that the issue raised of the workload of the Chairman and Secretary of IDCNS was a serious one. It was suggested that this could be addressed by greater involvement of the other members of the committee in the review work now conducted solely by the Chairman and Secretary.

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

Dr. Hayes reviewed the first meeting of the *ad hoc* Committee. He noted that the minutes of the meeting had been circulated to the Executive Committee. The organization and the work of the International Council of Chemical Associations were described, with special reference to the Long-Range Research Initiative. The US Chemical Manufacturers Association is now the Secretariat for the ICCA, replacing CEFIC. The LRI is focused on evaluation of older bulk chemicals for unforeseen adverse effects. The work of the LRI has been divided between the major trade associations, CEFIC, CMA, and JCIA (Japan Chemical Industry Association). One possible area of cooperation between IUPAC and the ICCA is in the review and dissemination of the results of the research programs of the LRI. This could be done by Workshops sponsored and organized by IUPAC. Dr. Hayes noted he was corresponding with ICCA regarding the possibility of a presentation to the third quarter meeting of the ICCA on possible areas of IUPAC-ICCA cooperation.

There was a general discussion of the need to make senior chemistry industry

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executives, many of whom are not chemists, aware of the contributions of IUPAC in areas of industrial value. It was noted that in many cases the National Adhering Organizations are not in communication with other national organizations, especially industry trade associations. The suggestion was made that IUPAC should establish communication with chemical engineering societies, such as the National Academy of Engineering in the US.

12. INTERNATIONAL CHEMISTRY COUNCIL-DISCUSSION

Dr. Hayes discussed the origins and work of the International Chemistry Council. He noted that the ICC had been formed at the request of the UNESCO Directorate of Physical Sciences, based on the success of a similar group in Physics. The special funds available from UNESCO for cooperative projects were described. It was noted that COCI had recently entered into an agreement with UNESCO based on this mechanism. The Executive Director was asked to obtain a report from COCI on the operation of this agreement.

A discussion of the value of the ICC followed. It was concluded that this is the time to undertake a review of the ICC in conjunction with UNESCO. The President was asked to arrange a meeting with the new Director General of UNESCO to discuss the future of the ICC. The Executive Committee approved a change in the Terms of Reference of the ICC to have the Chairman be the current President of IUPAC.

Dr. Hayes will take up this subject in his meeting with UNESCO.

13. THE STRATEGIC PLAN

13.1 STRATEGIC PLAN, 2000-2001

Dr. Becker reviewed the background of the revision of the Strategic Plan. The revised Strategic Plan will be printed in the same format as the 1998-9 Plan and will be distributed to the NAOs, Bureau, ANAOs, National Chemical Societies, Company Associates, other ICSU Unions, and other scientific organizations.

Dr. Hayes noted that one comment he hears regularly is that the Strategic Plan covers too many goals and that the goals are too broad. It was suggested that the Bureau be asked for areas on which the Union should focus. This would give the Project Committee guidance in choosing projects.

13.2 IMPLEMENTATION OF THE STRATEGIC PLAN, 1998-99

Dr. Becker noted that the report in the Agenda Book had been drafted based on the original input from the Division Presidents and Standing Committee Chairmen plus accomplishments completed since the original draft was written. This draft was then circulated for comment. It was suggested that in response to the request made at the Berlin Council meeting for a more uniform format the Division Presidents and Standing Committee Chairmen be asked to present their reports in the format used for this report. It was proposed that the report be reformatted to resemble that used for *Chemistry*

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International and distributed as widely as the Strategic Plan.

14. NEW PROJECT APPROVAL SYSTEM

Dr. Jost reviewed the project statistics in the Agenda Book. He noted that the large number of completed and abandoned projects since the last *IUPAC Handbook* was printed was due to the work of Dr. Meyers in updating the project information on the web site. Her inquiries had determined that a number of projects had been completed over the years but the information had not been given to the Secretariat.

The new project approval system is functioning. Projects are being received by the Secretariat, distributed for review by the Division Committees, sent for review by outside referees, approved or disapproved by the Division Committees and then, when appropriate, submitted to the Project Committee or the Secretary General and Treasurer for funding decisions.

The major conceptual difficulty for all concerned was the distinction between projects to be reviewed by the Project Committee and those to be reviewed by the Secretary General and the Treasurer. The distinction that has been developed is that the Project Committee is responsible for projects that are interdivisional, that come from Standing Committees, or that are require funds beyond the resources of a Division. The Secretary General and Treasurer are to review projects that are of a type and size that would normally be funded by the Division Committee, but for which the Division does not have sufficient funds. This is a particular problem during the current biennium, when Division funds are largely allocated to Commission activities.

Dr. Jost noted that a new section of the Management Accounts Report was being developed to track expenditures for projects. This report will show current expenditures, total expenditures for the life of the project, total project budget, and commitments for future years by years. The latter aspect is important because, unlike the current system for funding Commissions, a project can cover parts of more than one biennium.

A discussion of the Biodiversity project followed. This project has been recommended to receive USD 15 000 by the Project Committee. The group felt that it would be important to see what the outcomes of the project were in reviewing its success.

14.1 PROPOSALS FOR ICSU GRANTS

Dr. Becker noted the two categories of ICSU project, Type I is less than USD 50 000 while Type II is more than USD 50 000 up to USD 100 000. Projects submitted for Type I grants would be chosen from among those already submitted for IUPAC funding and that had significant expenditures planned for 2001. Dr. Becker noted that IUPAC, in partnership with IUPHAR and IUTOX had recently received a Type II grant for the Environmental Estrogens project. He then briefly described a project submitted by Dr. Davies of CPEP for a Type II grant. He recommended against submitting this project

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for ICSU funding. The Committee agreed.

15. FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS

Dr. Jost reviewed the statistics for these two programs. There are now 462 Fellows, 351 with e-mail, compared to 194 Fellows in 1998-9. Replies have been received from 118 Fellows. The large increase in the number of Fellows is due to the inclusion this year of members of Subcommittees and Working Parties.

There are 36 individual AMP members, 4129 Paid (3,050 ACS) and 396 sponsored for a total of 4525. Seven of the travel award winners from Berlin have accepted the offer of a subscription to CI.

15.1 LETTER OF APPOINTMENT AND FURTHER COMMUNICATIONS WITH FELLOWS

Dr. Becker noted that the text of the current letter sent to notify new Fellows of their status is out of date. In addition to referring to the recent establishment of the program by the Council at Geneva in 1997, it also does not emphasize the desire of the Union for the continued involvement of Fellows in the work of the Union. The revised draft in the Agenda Book has been written with these points in mind. The Committee approved the use of the new draft letter for future appointment of IUPAC Fellows.

16. IUPAC WEB SITE AND OTHER PUBLICITY ABOUT THE UNION

Dr. Jost reviewed the developments in the IUPAC Web site since the Bureau meeting in Berlin. The most significant development on the web site has been a program to provide automatic updates of member information based on the members database. This will allow more frequent updating of contact information without manual intervention.

The project area continues to be updated with the addition of links to publications resulting from projects. Dr. Meyers has stimulated many project leaders to provide updates on projects and in some cases discovered that projects had been completed and publications made with no notification to the Secretariat.

A calendar of IUPAC sponsored conferences was distributed to all recipients of *CI*. The calendar is also being sent to all sponsored conferences in the first half of the year.

A pocket Periodic Table is being developed in conjunction with the same designer who worked on the calendar. The Table will show the date of discovery of the elements in graphic form.

17. STATUS REPORT ON IUPAC SECRETARIAT

Dr. Jost reviewed the activities of the Secretariat since the last Executive Committee meeting. Some significant activities are summarized in the list below.

1. Ms. Pamela Footman was hired to handle the increased workload associated with publishing PAC.
2. The Berlin GA was run despite problems caused by the failures of the local

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organizers.

3. Invoices for *PAC*, *CI*, National Subscriptions, ANAO fees, AO fees, AMP fees, and CA fees were sent out.
4. Payments for subscriptions were collected and processed.
5. The subscriber database was converted from the format provided by Blackwell to a database of agents and subscribers.
6. The membership database was revised to reflect changes made at Berlin.
7. Appointment letters were sent to all members of IUPAC bodies.
8. Letters were sent to new IUPAC Fellows.
9. The IUPAC Handbook was extensively revised and distributed at the end of February.
12. There are now 1096 members in our database. The breakdown is TM: 297, AM: 235, NR: 241. The balance consists of members of Working Parties, Subcommittees and Task Groups.

18. STAFF SUPPORT FOR DIVISIONS AND STANDING COMMITTEES

Dr. Becker reviewed the letters received from Prof. Wilson, President of Division I and the letter sent to all Division Presidents and Chairmen of Standing Committees. There has been little response to the letter. It was decided to add staff to provide support to Divisions and Standing Committees if future developments warrant.

19. PUBLICATIONS

19.1 STATUS REPORT *CHEMISTRY INTERNATIONAL*

Dr. Jost noted that *CI* is now produced on a regular schedule and is distributed by the issue date. The actual costs of production have been in line with those predicted when selfpublishing was approved.

19.2 DISCUSSION OF THE PURPOSE OF *CHEMISTRY INTERNATIONAL*

Dr. Becker reviewed the history of *CI*, noting that the perceived purpose had changed a number of times in the past. He recommended that an *ad hoc* Committee be formed to study the purpose of *CI* and make recommendations on changes to the content and format to better allow *CI* to accomplish its purposes. The discussion that followed produced a number of suggestions including the possible value of a virtual advisory board, the possible hiring of a consultant to advise on design and format. It was also suggested that *CI* should include both coverage of IUPAC activities and news articles of a more general nature. There was also a discussion of the possibility of reducing the frequency of *CI* since current news about the Union is now available on the web.

After some discussion of possible members of an *ad hoc* Committee, the Secretary General was asked to discuss the possibility of chairing the

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Committee with Dr. D. H. M. Bowen, former Chairman of CPEP. The President will appoint the members of the Committee after consultation with the Chairman.

19.3 FORUM EDITOR FOR *CHEMISTRY INTERNATIONAL*

It was decided to incorporate this question in the work of the *ad hoc* Committee discussed in Item 19.2.

19.4 ARTICLES ON "IUPAC AND ME" FOR *CHEMISTRY INTERNATIONAL*

It was decided to incorporate this question in the work of the *ad hoc* Committee discussed in Item 19.2.

19.5 STATUS REPORT *PURE AND APPLIED CHEMISTRY*

Dr. Jost reported that *PAC* continues to be published late. There has been a problem in obtaining material but this has been exacerbated by Blackwell's poor performance in editing the material and printing it in a timely fashion. The editing by Blackwell has been slipshod and has required much more than usual attention on our part to proofing copy. The cover of the August issue, which lists a conference from the June issue, indicates this problem. The September and October issues are scheduled to be printed in late April, 17 weeks after the material for these issues was supplied to Blackwell.

The first issue for 2000, to be published directly by IUPAC, not through Blackwell, is in preparation. It is a special issue containing reports from the Workshop on Advanced materials, WAM-1, held last year in Hong Kong. This will be a double issue, January and February, of over 300 pages. It will be printed by the end of April. The copies will be sent with a note informing subscribers of the change in publisher and noting that while the first issue of 2000 has been printed, the remaining issues for 1999 will be printed by Blackwell in April, May, and June.

19.6 SPECIAL ISSUES OF *PURE AND APPLIED CHEMISTRY*

Dr. Jost referred to the publication of the special issue of WAM-1 noted in Item 19.5. Prof. Bull has discussed possible topics for future issues with various IUPAC bodies. The project most likely to be completed first is an issue on Sustainable or "Green" Chemistry. Dr. Jost then discussed the letter Prof. Bull has proposed sending to solicit individual review articles for *PAC*. The group approved this initiative.

Dr. Becker reviewed the issue of terminology regarding the use of Sustainable or Green Chemistry. He noted the extensive discussions between COCI and the group Chaired by Prof. Tundo over the use of this term. COCI prepared a document entitled "Is Green Chemistry Sustainable" as part of these discussions. The EC agreed with Dr. Becker's contention that any position taken on this issue must be formally adopted by IUPAC, it cannot be the result of action by COCI alone. He asked that the Executive Committee reaffirm

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Prof. Bull as the final authority on what appears in a special issue of *PAC*. The Committee agreed that this position should be communicated to all the parties concerned.

19.7 SUPPLEMENT TO "HISTORY OF IUPAC"

Dr. Becker described the current position. Dr. Stanley Brown had written a supplement covering through 1997. It was later decided that this should be extended to cover through 1999 because that would cover the significant decisions made by the Council at Berlin and would also mark the 80th anniversary of IUPAC. Dr. Becker has written some of the additional material required. Dr. Senzel will edit the supplement and Dr. Jost and Dr. Becker will provide additional material as necessary. Printing of the revised book is planned for the end of 2000.

19.8 PROPOSAL TO DISTRIBUTE ALL IUPAC PUBLICATIONS GRATIS TO NAOs

Dr. Jost reported that the distribution of all IUPAC books to NAOs for a given year is expected to cost less than USD 7000. The Committee requested the Executive Director to send a list at the end of the year to each NAO asking if they wished a gratis copy of any or all of the books published in that year.

19.9 PROPOSAL TO PROVIDE *PAC* GRATIS TO ALL ANAOs

Dr. Jost reported that the cost of providing a free subscription to each ANAO would cost less than USD 4000. The Executive Director was requested to send each ANAO a letter asking if they wished to receive a gratis subscription to *PAC*.

19.10 BOOK PUBLICATION AND BOOK SALES

Dr. Jost reported that agreement had been reached with Blackwell for IUPAC to purchase the stock of IUPAC books. They will be sold directly by the Secretariat. Negotiations are under way with two publishers to publish the new edition of the Green Book and the Red Book as well as Red Book II. The agreements being negotiated include a provision allowing IUPAC to sell copies to members of IUPAC bodies at a discount.

20. USNC/IUPAC YOUNG OBSERVER PROGRAM

Dr. Przybylowicz reviewed the history of this program. The original programs to send young Observers to the General assembly were begun by the UK NAO and the US NAO in 1977. The US program has been active over the years with varying amounts of support. The reports for the participants at the Berlin General Assembly had been useful in providing an outsider's view of IUPAC activities. The USNC plans to bring Observers to the Brisbane meeting. An additional proposal to use the program to promote contacts with host country scientists had been made. The USNC had assigned an American mentor to each participant, but it was felt that in the future the mentor should be someone on the IUPAC body being observed,

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regardless of nationality. Dr. Przybylowicz noted that the program at Berlin had not had as much industrial participation as in the past, but that will be corrected in future recruitments.

Dr. Ohtaki reported that the Science Council of Japan had supported four Observers at Berlin and planned to support again four AM/Observers to attend the Brisbane GA. The subsequent discussion noted that other NAOs had similar programs, but at a lower level. The Executive Director was asked to write to the NAOs asking if they had a Young Observer program.

The group felt that a more general scheme of this sort should be promoted. It was noted that after Brisbane the opportunities for Observers would be limited since only Division Committees and Standing Committees would be meeting at the GA. The question was raised if there was any useful connection between this program and the program to bring young scientists to the Congress. The need for a new name was discussed. One alternative was Invited Observer rather than Young Observer.

Dr. Buxtorf suggested that a fund be set up for this purpose to encourage Observers from NAOs without the financial resources to operate programs of their own.

Dr. Hayes suggested that a letter be written to Company Associates suggesting that their scientists who plan to attend the Congress might also participate in meetings at the GA.

21. CONFERENCES AND SYMPOSIA

21.1 NEED FOR IUPAC POLICIES ON ORGANIZATION AND FINANCIAL SUPPORT

Dr. Becker noted the wide variety of conferences sponsored by IUPAC, from the Congress to specialized symposia and workshops. Since conferences add up to a major IUPAC activity, a policy is required as to what conferences should be supported by IUPAC funds. In particular, the question has arisen as to what types of "workshops" should be funded as projects. He asked the EC to discuss the issues briefly in preparation for a more detailed presentation to the Bureau. The discussion noted that while financial support of conferences would be useful the conferences supported should have a relation to some specific IUPAC goal. It was also noted that for most conferences the value of IUPAC sponsorship lies in the ability to use the IUPAC name. The comment was made that IUPAC sponsorship is also important in promoting the free circulation of scientists.

Prof. Jortner suggested a hierarchy of IUPAC sponsored conferences. He proposed the following hierarchy:

1. The IUPAC Congress
2. CHEMRAWN and the Conferences on New Directions in Chemistry
3. Supported conferences in Developing and Economically Disadvantaged Countries
4. Conferences sponsored by IUPAC bodies
5. IUPAC sponsored conferences

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6. General Conferences

Conferences in categories 1, 2, and 3 are supported under current policies. Conferences in category 4 can be supported by Division funds, while conferences in categories 5 and 6 should not be supported financially.

Prof. Sydnes commented that IUPAC should use sponsored conferences to develop ideas for new projects. Funds should be provided only if a conference has a session to brainstorm for new project ideas. With regard to support via the project mechanism, he felt that holding a conference should not be the only purpose of a project. Dr. Hayes proposed that the Division Presidents and the Chairmen of the Operating Standing Committees be involved in developing a policy. The Committee agreed that the subject should be put on the agenda of the next Bureau meeting.

21.2 NEW DIRECTIONS IN CHEMICAL SCIENCES COMMITTEE

The Committee agreed that the second in this series of conferences should again be devoted to Advanced Materials, with future conferences covering other important topics. Dr. Hayes was asked to appoint a Program Committee for the next conference in consultation with Prof. Jortner and Dr. Becker.

21.3 CONFERENCES IN DEVELOPING COUNTRIES

Dr. Becker noted that one issue remained to be decided in the process for implementing this program. Should applications be submitted through the NAO? It was decided that all applications should be sent to the IUPAC Secretariat with a copy to the NAO. The Executive Committee approved a Selection Committee for this program consisting of Dr. Becker, Prof. Ohtaki, and Prof. Steyn (and possibly others?).

21.4 SHOULD ENGLISH BE REQUIRED AS THE OFFICIAL LANGUAGE OF ALL IUPAC SPONSORED SYMPOSIA

The Committee approved a recommendation that English should be one of the official languages of all IUPAC sponsored conferences.

21.5 REVISION OF THE ADVANCE INFORMATION QUESTIONNAIRE

Dr. Jost reported that a Working Party of Division Presidents was still developing a revised AIQ.

21.6 QUESTION FROM CZECH NAO REGARDING SOLICITATION OF FUNDS FOR IUPAC SPONSORED CONFERENCES

The Committee agreed to keep the current requirement in the letter granting sponsorship that the NAO be informed of solicitation for funds in their country. The Executive Director was asked to write a letter to the Czech NAO informing them of this decision.

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21.7 PRIZES FOR POSTERS AT IUPAC SPONSORED CONFERENCES

The Committee approved the proposal to award copies of a suitable IUPAC book to the winners of prizes for best posters at IUPAC sponsored conferences.

21.8 RATIFICATION OF SPONSORSHIP OF SYMPOSIA

The Committee approved the sponsorships of conferences made since the last Bureau meeting.

22. GENERAL ASSEMBLIES AND CONGRESSES

22.1 FOLLOW-UP FROM BERLIN

Dr. Jost reviewed the situation with respect to the IUPAC bank account in Berlin and the claim made to the GDCh for reimbursement of the costs of renting the hall for the Council meeting and the Council reception.

It was suggested that the list of requirements for the General Assembly sent to NAOs should include offices for the IUPAC Officers and for a climate controlled lecture hall for the Council meeting.

22.2 PLANS FOR BRISBANE, 2001

Dr. Jost reported that planning for the Brisbane meeting was proceeding on schedule. He will visit Brisbane early in 2001 to confirm that the plans conform to the requirements.

Dr. Becker reviewed the proposals of the Danish NAO for the agenda of the Council. The items regarding the VPCA and IDCNS have been taken care of. The remaining proposal is to have presentations to the Council by candidates for Officer and the Bureau. After some discussion, the Committee concluded that presentations would be disadvantageous to non-English speakers. It was decided to have the candidates introduced to the Council on the first day of the meeting. It was also agreed that a Bulletin Board should be prepared with pictures and CVs of the candidates.

23. CHEMICAL HERITAGE FOUNDATION

23.1 PRESENTATION BY DR. ARNOLD THACKRAY, PRESIDENT, CHF

Dr. Thackray reviewed the history and programs of the Chemical Heritage Foundation. The Committee felt that greater contacts with the CHF should be considered. The suggestion was made that a workshop on the preservation of the Chemical Heritage be set up at the Brisbane Congress. This should help foster contacts between IUPAC members and the CHF.

24. FORMAT FOR FUTURE BUREAU MEETINGS

Dr. Hayes introduced the subject by noting the difficulty of keeping the Bureau

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meeting on schedule. He suggested that the agenda be structured to separate items for information from those for discussion and decision.

Prof. Sydnes suggested that information should be noted as being for discussion unless otherwise noted. Dr. Buxtorf suggested that all items should be preceded by a summary of the action required. Prof. Steyn suggested that individual Bureau members be given assignments. Prof. Jortner noted that this had already been done in the case of the Project Committee and the Evaluation Committee. He suggested that Bureau members be given responsibility for items on the Actions Items list. Dr. Becker noted that in past there had been repetition of discussion of many items on the Bureau Agenda at the Division Presidents meeting. This duplication has now been eliminated. Dr. Przybylowicz suggested that each session of the Bureau should start with a strategic presentation by a Division President or Standing Committee Chairman. Dr. Buxtorf suggested that breakout sessions might occasionally be useful. Dr. Becker and Prof. Steyn suggested that it might be useful for Dr. Buxtorf to attend the Friday meeting of the Division Presidents.

25. IUPAC BODIES

25.1 RATIFICATION OF MEMBERSHIPS APPROVED BY CORRESPONDENCE

There were no memberships of IUPAC bodies approved by correspondence.

25.2 NOMINATIONS OF NEW MEMBERS

There were no new memberships of IUPAC bodies to be approved.

26. ASSIGNMENT OF VOTES IN FUTURE COUNCIL MEETINGS

Dr. Becker reviewed the history of the assignment of votes at Council meetings. The recurring problem is one of compression of the number of votes as the absolute values of national subscriptions increase. A system based on percentage contributions would eliminate this problem. The Committee decided not to take any action on this item this biennium.

27. IUPAC PRIZE FOR YOUNG SCIENTISTS

27.1 SELECTION COMMITTEE

Dr. Hayes will appoint the selection committee for this Committee after consultation with the Chairman, Prof. Jortner. The selection process for this year's awards will be completed by the end of June.

28. NAMES AND SYMBOLS OF TRANSFERMIUM ELEMENTS 110-112

Dr. Jost circulated a message from Prof. Corish describing the current situation. The Joint IUPAC/IUPAP Task Group has completed its investigation of the claims of discovery for elements 110-112 and written its report. The portions of the report pertaining to the claims of each laboratory were sent to those laboratories for their

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comment before the final draft was prepared. This report will be circulated to the President of IUPAP and to various experts in the field for comment. It will then be published in *PAC* and an appropriate Physics journal as a report (not as a Recommendation). The Commission on Nomenclature of Inorganic Chemistry will then consider proposed names for elements 110-112. The report from the joint Task Group will provide information for the use of the Commission.

29. DATES AND PLACE OF NEXT EXECUTIVE COMMITTEE MEETING

The next Executive Committee meeting will be held in Stellenbosch, South Africa in March 2000. The exact date will be determined later. Prof. Steyn proposed that on the Friday afternoon after the morning meeting of the Executive Committee a mini-symposium be held at the University of Stellenbosch featuring scientific presentations by the members of the Executive Committee.

30. ANY OTHER BUSINESS

Prof. Steyn reported on his recent meetings in Washington, DC with the US National Academy of Sciences, the American Chemical Society, the American Association for the Advancement of Science, and the US National Science Foundation. Of special interest was a proposal of the NAS to make major scientific journals available on-line at no cost to scientists in developing and economically disadvantaged countries at some delay, such as 12 months after publication. This proposal will be presented by the NAS initially to the ACS as a major society publisher.

Dr. Becker noted that Dr. Larry R. Kohler has been appointed Executive Director of ICSU. Dr. Becker also distributed an article from *Science International* describing proposed changes in IUBMB governance.

Dr. Hayes reported that there were ongoing discussions among a number of ICSU Unions on how to proceed on an evaluation of Genetically Modified organisms as Food. This effort has superseded the proposal for a Special Issue of *PAC* devoted to this issue sponsored by IUPAC, IUTOX, and IUPHAR.

Dr. Hayes asked the members of the group to provide him with suggestions as to what subjects the President's Address at the General Assembly should include.

The Committee voted its deep and heartfelt thanks to the ACS for its hospitality in making the arrangements for the meeting.