

# International Union of Pure and Applied Chemistry

84<sup>th</sup> MEETING OF BUREAU

Torino, Italy, 8-9 August 2007

MINUTES

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- Attendees: Prof. B. R. Henry, Chairman, Prof. D. StC. Black, Prof. C. M Brett, Dr. C. F. Buxtorf, Dr. M. C. Cesa, Prof. S. Chandrasekaran, Prof. P. W. Erhardt, Prof. M. Isobe, Prof. J-I. Jin, Dr. A. Kallner, Prof. W. Klein, Prof. R. Lobinski, Prof. P. G. Mahaffy, Dr. J. M. Malin, Dr. G. P. Moss, Prof. N. J. Moreau, Prof. S. Penczek, Prof. O. M. Nefedov, Dr. K. D. Racke, Dr. E. Reichmanis, Dr. A. Smith, Prof. L. K. Sydnes, Prof. M. C. E. van Dam-Mieras, Prof. A. R. West
- Absent: Prof. C. Bai
- Guests: Dr. F. Meyers, Prof. G. Somsen, Prof. R. D. Weir
- Secretary: Dr. J. W. Jost, Executive Director

## 1. INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Prof. Henry welcomed the members of the Bureau to the meeting. He thanked Prof. Giuseppe Della Gatta, Dr. Michela Segal and Dr. Elena Amico di Meane for the excellent arrangements for the General Assembly. Prof. Henry noted that the detailed Agenda provided for the meeting is a result of a recommendation by the Streamlining Task Group. The purpose of the detailed Agenda is to make clear which items are for information only, which items require a decision, and which items are for discussion. The expectation is that this will speed up action on those parts of the Agenda that do not require discussion and allow more time for those items that do require discussion. The timings indicated on the detailed Agenda are intended to guide progress on the Agenda. There were no additional items for the Agenda.

## 2. MINUTES OF 83<sup>RD</sup> MEETING OF BUREAU

Prof. Henry noted that the minutes of the previous Bureau meeting had been approved by correspondence and were presented for information.

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

There were no further matters arising from the Bureau Minutes.

## 3. MINUTES OF 134<sup>TH</sup> MEETING OF EXECUTIVE COMMITTEE

### 3.1 RECEIPT OF MINUTES BY BUREAU

Prof. Henry noted that the minutes of the Executive Committee meeting had been approved by correspondence and were presented for information.

### 3.2 HIGHLIGHTS AND QUESTIONS ABOUT ITEMS NOT ON BUREAU AGENDA

Prof. Henry noted that the Executive Committee had approved a proposal by the Finance Committee to add unspent project funds to the Strategic Operating Fund and to institute a new project termination process (see EC Minutes 15.2). There was some discussion of the project termination process. A number of

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Division Presidents expressed concern that a mechanical process had been instituted in place of the judgment of the Division Committees. Prof. Henry responded that the process was not mechanical, but rather was a process intended to remind Division Committees of the need to review progress of projects that were both past their planned completion date and that had not spent any of the funds allocated to them. Projects would only be terminated after the responsible Divisions had been asked to explain the situation. He also reminded the Bureau that the unexpended funds from terminated projects would now be added to the Strategic Opportunities Fund.

The mechanism for review of projects to be funded from the Strategic Opportunities Fund was briefly reviewed. Projects can be sent to the Project Committee designated for funding from the Strategic Opportunities Fund or the Project Committee can determine that a project is suitable for funding from the Strategic Opportunities Fund. In either case, the Project Committee will review the Project in the normal way and make a recommendation to the Executive Committee. The Executive Committee will make the final decision on funding.

#### 4. ACTION ITEMS FROM PREVIOUS MEETINGS

Prof. Henry reviewed the Action Items and asked that any changes be reported to the Executive Director.

#### 5. RECEIPT OF WRITTEN REPORTS FROM DIVISIONS AND STANDING COMMITTEES

The Division Presidents and Standing Committee Chairmen highlighted certain aspects of their written reports. Prof. Brett reported that the *Green Book* had been published and displayed a copy to the applause of the Bureau. He also reported that three Young Observers had attended the Division Committee meeting and will all be involved in projects to be submitted after the General Assembly. Prof. West reported that a Spanish translation of the revised *Red Book* had been published and was available at the General Assembly. He noted that currently the Materials Subcommittee, while nominally an interdivisional Subcommittee was in practice a Subcommittee of Division II. The Subcommittee has proposed that a higher profile organization is needed, perhaps a “cross-cutting” Commission. A formal proposal is being developed for presentation to the Executive Committee in November.

Prof. Isobe noted that the Division had published a series of books on Green Chemistry. Prof. Jin reported that an agreement had been reached with DSM for an IUPAC-DSM prize in Performance Materials of EUR 50 000 plus sponsorship of a special symposium at the World Polymer Congress. The agreement will be signed soon after the General Assembly and the first prize will be awarded at the upcoming World Polymer Congress in 2008. Prof. Lobinski reported that FIZ Chemie Berlin had made no significant progress in converting the Stability Constants database from a PC based system to a web-based system. Prof. Henry noted that he had discussed the subject with Dr. Deplanque and completing of the web-based system was expected by the second quarter of 2008. Dr. Meyers commented that Prof. Kip Powell had met with Dr. Deplanque and they had agreed on a timeline for the conversion.

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Dr. Racke reported that the Division had focused on revitalizing the area of Food Chemistry at its Division Committee meeting. Three projects were approved in this area and four new members appointed to the Division Committee with expertise in Food Chemistry. Dr. Erhardt reported that the Division had elected a new President, Prof. Templeton, due to the inability of the Vice President to serve as a result of the sanctions applied to his National Adhering Organization, Brazil. He also noted that the Division had displayed a number of posters at the Congress highlighting the work of the Division. Prof. Moss reported that hash version of INChI was in beta testing and would soon be released for general use. This new version of INChI would be more suited for use in certain applications because it would have a fixed length rather than the variable length of the regular INChI code. He also noted that flyers promoting the two color books recently published by the Royal Society of Chemistry, the *Green Book* and the *Red Book*, would be distributed to IUPAC sponsored conferences over the next few months.

Dr. Cesa reported on plans for the improvement and enhancement of the Company Associate program. He noted that COCI and CCE were cooperating on a project to publicize the scientific method. He also noted that the Committee had made special efforts to raise funds for its projects from outside sources. He reported that efforts were continuing to have IUPAC formally listed as a Non Governmental Organization with those international organizations that had formal requirements for recognition of NGOs. Dr. Cesa noted that the Committee planned to hold a Chemical Safety Training Workshop at an upcoming workshop in Kuala Lumpur. He reported that the Committee was studying the establishment of an industrial prize in cooperation with a major chemical company. He concluded by noting that he and other members of the Committee had visited a number of Division Committees and felt that these visits had been very productive and would lead to future cooperation.

Dr. Malin reported that the CHEMRAWN Committee was planning to organize a session on Ethics and Development at the 2009 Congress. He also reported that a book based on CHEMRAWN XV, held in 2004, on "Chemistry for Water" had recently been published. He noted that CHEMRAWN XVII "Greenhouse Gas Mitigation" had recently been held and that CHEMRAWN XII "Chemistry, Sustainable Agriculture and Human Well Being in Sub-Saharan Africa" would be held in December.

Prof. Mahaffy noted that a major activity of CCE, the proposal for an International Year of Chemistry, would be discussed later in the Agenda. He reported that the Committee had established partnerships with UNESCO and the Chemical Heritage Foundation. He also reported that he had made very productive visits to a number of Division Committees. He noted that CCE was planning to organize outreach efforts at IUPAC sponsored conferences. He then thanked Dr. Meyers for her assistance in the work of the Committee.

*Action Item: Prepare proposal for an Interdivisional Committee on Materials Chemistry for consideration by the Executive Committee in November.*

*Responsible: Prof. West.*

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**6. ITEMS FROM MEETING OF DIVISION PRESIDENTS**

Dr. Racke reported that the Secretariat staff had presented a tutorial session on various operational aspects of the work of Division and Standing Committee officers. Division Presidents and Standing Committee Chairmen as well as other Division and Standing Committee officers attended the session. All those who participated found the session very worthwhile and thanked the Secretariat staff for organizing the session. The PowerPoint slides used for the presentations would be made available for future reference. The Division Presidents held their normal private session after the presentation and discussed a number of subjects of mutual interest. The main topic of discussion was the project termination process, which had been clarified in Item 3 above. The Division Presidents also suggested that the Secretariat no longer copy Divisions not directly involved in regular Division sponsored Conferences when circulating the approval requests for these conferences. They also suggested that the conference approval requests contain a questionnaire to facilitate responses. The comment was made that the IUPAC web site could be more attractive to non-members. The Presidents suggested that the schedule for electing new members be made public earlier and asked that some flexibility be allowed so that final decisions could be made at the General Assembly. Prof. Black noted the importance of completing the election and selection process for Division Committees before the General Assembly so that the Bureau could provide input on the proposed membership. He pointed out that the new schedule for Bureau meetings implied that approval of Division Committee would now occur in the second quarter of the year of the General Assembly. This would require that the process begin earlier in the biennium. The Secretariat will distribute a schedule for the process early in 2008. He also emphasized the importance of deciding on the Division Officers for the coming biennium at the off year meeting of the Division Committees.

*Action Item: Secretariat to change copy procedure for Conference Sponsorship Approval requests.*

*Responsible: Secretariat*

*Action Item: Develop questionnaire for Conference Sponsorship Approval.*

*Responsible: Secretariat.*

*Action Item: Develop schedule for Division Committee nomination and election process.*

*Responsible: Secretariat.*

**7. TASK FORCE TO IMPROVE OPERATIONAL EFFICIENCY**

Prof. Henry reported that the Task Force's report reviewed the functions and current operations of the Union's governing bodies, Council, Bureau, and Executive Committee. The report then suggested improvements in communications and operations, especially of the various meetings of these bodies. This detailed Agenda is the result of one of the suggestions of the report. One recommendation in the report, that the Chairmen of the three operating Standing Committees (CCE, CHEMRAWN, and COCI) who are now ex officio members of the Bureau without voting rights be made voting members of the Bureau, will require a change in the Bylaws and cannot

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be addressed until 2009.

Prof. Henry noted that the other major change resulting from a recommendation of the Task Force is a change to Bureau and Executive Committee meeting times. One change is the elimination of the main meeting of the Bureau from General Assembly. The brief Bureau meeting after the Council meeting will continue to be held; however, the main meeting of the Bureau during the General Assembly year will occur before the General Assembly, in the second quarter. The Executive Committee will now meet in the third or fourth quarter of the year. This means that the Executive Committee will meet soon after the General Assembly in a General Assembly year while the Bureau will have its first meeting of the new biennium in the second quarter. Thus both the Executive Committee and the Bureau will begin work much earlier in the biennium than in the past. The meeting of the Executive Committee in the fourth quarter of the General Assembly year would replace the meeting of incoming and outgoing officers that had been customarily held at that time.

This change in meeting schedules will bring new officers and members of the Bureau into the work of the Union much earlier in their terms of office. It will also enable the Bureau at its meeting in the second quarter of the General Assembly year to have more meaningful discussions of the Council Agenda.

One other recommendation of the Task Force that has been adopted is that the Executive Committee will hold a brief meeting after all Bureau meetings to discuss implementation of recommendations made by the Bureau.

### 8. TASK FORCE TO REVISE STATUTES AND BYLAWS

Prof. Black reported that the Committee has made an initial survey of the Statutes and Bylaws and located out of date or no longer relevant sections. It is planned to have the proposed changes available for review by the National Adhering Organizations in mid 2008.

### 9. COUNCIL AGENDA

Prof. Henry noted that the Korean Chemical Society has requested that the National Adhering Organization for Korea be changed to the Korean Federation of Science and Technology Societies. This is Council Agenda Item 16.

He then noted that three organizations have applied for National Adhering Organization status. These are: the Sociedad Cubana de Química, the Chemical Society of Ethiopia and the Programa de Desarrollo de Ciencias Básicas (Uruguay). The Federación Latinoamericana de Asociaciones Químicas (FLAQ) has applied for Associated Organization status. This is *Council* Agenda Item 17.

Motions 1-5 relate to these two Council Items. These Motions were moved and seconded and passed unanimously.

**Motion 1:** *The Bureau recommends that the request to change the National Adhering Organization of Korea from the Korean Chemical Society to the Korean Federation of Science and Technology Societies be approved by Council.*

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**Motion 2:** *The Bureau recommends that the application of the Sociedad Cubana de Química to become an IUPAC National Adhering Organization be approved by Council.*

**Motion 3:** *The Bureau recommends that the application of the Chemical Society of Ethiopia to become an IUPAC National Adhering Organization be approved by Council.*

**Motion 4:** *The Bureau recommends that the application of the Programa de Desarrollo de Ciencias Básicas (Uruguay) to become an IUPAC National Adhering Organization be approved by Council.*

**Motion 5:** *The Bureau recommends that the application of the Federación Latinoamericana de Asociaciones Químicas for Associated Organization status be approved by Council.*

Prof. Henry reported that the following nominations had been received [*Council Agenda Item 4*]

*President*

Prof. Jung-II Jin (Korea)

Dr. Anders Kallner (Sweden)

Prof. Nicole J. Moreau (France)

*Vice President*

Prof. Jung-II Jin (Korea)

Prof. Nicole J. Moreau (France)

*Secretary General*

Prof. David St.C. Black (Australia)

*Treasurer*

Prof. John Corish (Ireland)

Dr. David Schutt (USA)

*Elected Members of the Bureau (Four minimum)*

Prof. Dusan Berek (Slovakia)

Prof. Giuseppe Della Gatta (Italy)

Prof. Vladyslav Goncharuk (Ukraine)

Prof. Minoru Isobe (Japan)

Dr. Anders Kallner (Sweden)

Prof. Venceslav Kaucic (Slovenia)

Prof. Werner Klein (Germany)

Prof. Ram S. Lamba (Puerto Rico)

Prof. Natalia Tarasova (Russia)

Prof. Henry explained that while the Bylaws set the minimum number of Elected Members at ten, the Bureau may set a number greater than ten. Bureau may also, if it chooses, make recommendations on any candidates for officer or Elected Member of the Bureau. Motions 6 and 7 were moved and seconded and passed unanimously.

**Motion 6:** *The Bureau has decided to set the number of Elected Members of the Bureau for 2008-9 at ten.*

**Motion 7:** *The Bureau does not have any specific recommendations regarding any of the candidates for Officer or Elected Member of the Bureau.*



## 10. WORLD CHEMISTRY LEADERSHIP MEETING

Prof. Sydnes reported that the World Chemistry Leadership Meeting would be held on Friday afternoon, 10 August 2007.

This year's WCLM focuses on the topic of the emerging chemical regulatory environment and its effect on the basic chemical sciences, chemical industry and society. The influence of the rapidly developing regulatory environment in Europe on chemical use and production throughout the world would be a major part of the discussion.

The organization of the 2007 WCLM includes talks by four speakers on the following topics:

- Regulatory trends such as REACH and SAICM
- Industry issues and responses
- Emerging issues - views from industry and academia

The talks will be followed by an open, moderated panel discussion in which all attendees will be encouraged to participate.

Prof. Henry thanked Prof. Sydnes, Dr. Cesa, and Dr. Colin Humphris for their work in organizing this year's WCLM. He noted that the Executive Committee had decided at its meeting in March to review the format and purpose of the WCLM at its meeting in November.

*Action Item: Add agenda item for WCLM review to Executive Committee Agenda.  
Responsible: Dr. Jost.*

## 11. PROPOSAL FOR AN INTERNATIONAL YEAR OF CHEMISTRY

Dr. Jost reported that at a meeting with UNESCO staff in Paris on 25 May 2007 it was confirmed that they supported the proposal to designate 2011 as an International Year of Chemistry and also confirmed that 2011 was the earliest possible year, given the dates of the meetings of the biennial UNESCO General Conference (October 2007). He also noted that 2011 is the centenary of the Chemistry Nobel Prize of Marie Skłodowska Curie, which provides an opportunity to celebrate the role of women in chemistry as part of the International Year of Chemistry. The Task Group was told that the United Nations General Assembly has informed all UN agencies that International Years can only be named by the General Assembly. The Task Group has identified the necessary requirements for obtaining the desired designation by the United Nations General Assembly.

Prof. Henry emphasized that only the UN General Assembly can designate an International Year. He also noted that ICSU has stated that they will not take a position on applications for International Years.

Prof. Mahaffy reported that letters would be drafted to NAOs, ANAOs and other IUPAC related organizations, requesting that they contact their UNESCO Permanent Representatives and National Commissions. The Task Group has proposed that the motion to the UNESCO General Meeting be introduced by Ethiopia. A letter requesting that the Ethiopian National Adhering Organization ask their Permanent

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Representative to introduce such a motion would be sent by the President of IUPAC. He reported that Mr. Stanley Langer, a member of the Task Group, would be in Addis Abba in September and would be able to directly request the Ethiopian NAO to support this proposal. Prof. Mahaffy noted that contacts would have to be established to lobby for this proposal both at the UNESCO General Meeting and the UN General Assembly.

Prof. Henry noted that the Task Group had been established to plan the road map for obtaining approval from UNESCO and the UN. A separate Committee will need to be set up to carry out this process and to organize the International Year. He proposed that the Chairman of the Committee would be Dr. Malin. IUPAC members on the Committee would be Prof. Tarasova, Prof. Mahaffy, the Secretary General, and himself. In addition the following organizations would be asked to suggest members of the Committee: ICCA (International Council of Chemical Associations), EuCheMS (European Association for Chemical and Molecular Sciences), FACS (Federation of Asian Chemical Societies), and FLAQ (Federación Latinoamericana de Asociaciones Químicas).

There was a brief discussion of the proposal. The comment was made that the occasion of the Nobel Prize in chemistry of Dr. Curie might not be sufficient justification for UNESCO and the UN. A number of comments were made emphasizing the need to address the political aspects of approval by UNESCO and the UN, especially the need to address items of interest to these organizations such as the UN's Millennium goals. The point was made while the reference to Dr. Curie would be of interest to the French and Polish governments, it was important not to associate the event too closely with one or two countries. The need to involve chemical societies in the process was emphasized. It was also noted that this should be viewed as an opportunity by the chemical societies as long as they were involved in the process. It was also suggested that the International Union for the History and Philosophy of Science would be interested in participating given the historical aspect. Prof. Mahaffy commented that successful execution of this proposal would require both a financial commitment and the commitment of staff.

The Motion given below was then moved and seconded. The Motion was unanimously approved.

**Motion:** *The Bureau recommends that Council endorse the plan to obtain United Nations approval of 2011 as an International Year of Chemistry.*

*Action Item: Draft letter from President to IUPAC stakeholders (NAOs, ANAOs, etc.) requesting support for the IYOC 2011 proposal and asking them to contact UNESCO representatives.*

*Responsible: Prof. Mahaffy and Dr. Malin.*

*Action Item: Complete the membership for the Organizational Committee for the IYOC 2011.*

*Responsible: Prof. Henry and Dr. Malin.*

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**12. FUTURE GENERAL ASSEMBLIES AND CONGRESSES**

12.1 45<sup>TH</sup> GENERAL ASSEMBLY AND 42<sup>ND</sup> CONGRESS (GLASGOW, 2009)

Professor Paul O'Brien, University of Manchester, 2009 Congress Organizing Committee Chair gave a brief review of plans for the 2009 Congress and General Assembly.

12.2 46<sup>TH</sup> GENERAL ASSEMBLY AND 43<sup>RD</sup> CONGRESS (2011)

Prof. Black reported that proposals have been received from the Colegio de Quimicos de Puerto Rico and the Turkish Chemical Society to host the General Assembly and Congress in 2011. The Executive Director has visited each of the proposed venues and determined that the proposed facilities are suitable. Representatives of each organization then made a presentation concerning their plans and the proposed facilities. Prof. R. Lamba will present the proposal from Puerto Rico and Prof. M Mahramanlioglu will present the proposal from Turkey.

12.2.1 Presentation from Puerto Rico

Prof. R. Lamba presented the proposal from the Colegio de Quimicos de Puerto Rico.

12.2.2 Presentation from Turkey

Prof. A. Aroguz and Prof. S. Gultekin presented the proposal from the Turkish Chemical Society.

Prof. Henry reminded the Bureau that it has the option to recommend one of these venues to Council. He then noted that there has never been a Congress or General Assembly in Latin America, a Congress was held in Istanbul in 1995, there will have been two General Assemblies and Congresses held in Europe after 2009, the last General Assembly and Congress held in the Western Hemisphere was Ottawa in 2003.

There was an extensive discussion of the two proposals, following which the Motion below was moved and seconded. The motion was passed with no votes against and two abstentions.

*Motion: Bureau recommends that Council accept the proposal from the Colegio de Quimicos de Puerto Rico.*

**13. FINANCIAL MATTERS**

13.1 REPORT OF TREASURER

Dr. Buxtorf noted that while the Union's reserves are adequate for the near to mid term, there are possible long term financial issues that could arise due to the decline in the income realized from the Union's journal, *Pure and Applied Chemistry*. He also noted a number of other developments, including the introduction of the Strategic Opportunities Fund and the success of the project

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system in promoting the work of IUPAC. He also commented on the success of the concept of calculating National Subscriptions in national currencies in reducing exchange rate related payment problems for NAOs.

13.2 REPORT OF FINANCE COMMITTEE

Dr. Buxtorf reported that the overall IUPAC portfolio performed well in 2006 with an overall return of almost 14 %. IUPAC's investments are invested in both Euro and USD denominated securities (equities and bonds) with a total value of USD 5 551 193 as of 31 December 2006. He noted that the conservative posture adopted by the Finance Committee has served IUPAC well in the past two years by minimizing the impact of the fall in equity prices in 2005. He emphasized that the IUPAC portfolio is not managed to maximize investment gains but rather to generate current income and to preserve capital.

13.3 STATEMENT OF ACCOUNTS FOR 2006

Dr. Buxtorf reported that the audited Financial Statements showed no areas of concern. The motion below was moved and seconded. The Motion was approved unanimously.

**Motion:** *The Bureau recommends to Council that Batchelor, Tillery & Roberts, LLP, of Raleigh, North Carolina, USA be appointed as IUPAC Auditors for 2007 and 2008.*

13.4 REVIEW OF BUDGETS FOR 2008-9

Dr. Buxtorf reported that the proposed budget is USD 2 936 100 with balanced income and expense. He noted that there are small increases in most expense categories. The proposed Total National Subscription in the budget is an increase of 3 % per year from that for 2007.

The Motion below was moved and seconded. The Motion was approved unanimously.

**Motion:** *The Bureau recommends that Council approve the proposed budget for 2008-9 and the National Subscriptions implied by the proposed Budget.*

13.5 NATIONAL SUBSCRIPTIONS FOR 2008-9

Dr. Jost reminded the Bureau that the National Subscriptions for individual NAOs are calculated using a formula based on the Total National Subscription in the approved budget, and the Chemical Turnover reported for each NAO by recognized international authorities. Changes in relative Chemical Turnover and changes in exchange rates have the greatest effect on individual National Subscriptions.

13.6 NAO AND ANAO PAYMENT STATUS

Dr. Jost reported that, in addition to Argentina and Brazil, who are in arrears for 2005 and whose situation would be discussed below, two NAOs (Belarus and Chile) have not paid their 2006 National Subscriptions in full. These

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NAOs have been reminded that their delegates will not be able to vote at the Council at Torino if payment is not made.

Sanctions were approved for Argentina and Brazil by the Executive Committee at its meeting in March 2007. Argentina has requested that it be allowed to change its status from NAO to ANAO.

The Motions below were moved and seconded. The Motions were approved unanimously.

**Motion 1:** *The Bureau recommends that Council approve the resignation of the Asociacion Quimica Argentina as the National Adhering Organization of Argentina, with the understanding that if the AQA reapplies for NAO status the total National Subscription currently owed, ARS 29 970.99, payable in USD at the then current exchange rate, must be paid before Council will consider such application.*

**Motion 2:** *The Bureau recommends that Council approve the application of the Asociacion Quimica Argentina for Associate National Adhering Organization status, to be effective when the annual fee of USD 250 is paid.*

**Motion 3:** *The Bureau recommends that Council approve the sanctions imposed by the Executive Committee on the NAO of Brazil.*

#### 13.7 FINANCE COMMITTEE MEMBERSHIP

Dr. Buxtorf reported that there would be one vacancy at least on the Committee due to the retirement of Dr. Senti. The Finance Committee has solicited nominations from the National Adhering Organizations; five nominations were received, and is reviewing the candidates.

*Action Item: Recommend new member of Finance Committee to President.  
Responsible: Dr. Senti.*

### 14. PUBLICATIONS

#### 14.1 STATUS REPORT ON *PURE AND APPLIED CHEMISTRY*

Dr. Jost reported that *PAC* continues to be a significant source of income for IUPAC despite the continued decrease of institutional subscribers. The report discusses a number of significant operational aspects regarding *PAC*, such as the implementation of reference linking through CrossRef.

#### 14.2 STATUS REPORT ON *CHEMISTRY INTERNATIONAL*

There were no questions for Dr. Meyers. The Bureau thanked her for the continued excellent work she has done in making *Chemistry International* interesting and informative. Dr. Meyers commented that the supply of material for the magazine depended on the Divisions and Standing Committees.

#### 14.3 BOOK PUBLICATION AND BOOK SALES

Dr. Jost reported that two books were published in 2007 and four in 2006:

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**2007:** *Environmental Colloids and Particles: Behaviour, Separation and Characterisation, Thermodynamics, Solubility and Environmental Issues;*  
**2006:** *Developments and Applications in Solubility; Combining and Reporting Analytical Results; Fundamental Toxicology; Chemistry for Water - CHEMRAWN XV Perspectives and Recommendations.*

Dr. Jost informed the Bureau that the Royal Society of Chemistry had published the revised Green Book in July and copies were available at the Congress and General Assembly. The Royal Society of Chemistry had also distributed flyers advertising both the Green Book and the revised Red book. The revised *Blue Book* (Preferred Names) is expected to be published by the Royal Society of Chemistry in 2008. An agreement has been signed with the Royal Society of Chemistry to publish a new edition of the *Purple Book*. A project has been initiated to revise the *Gold Book*. This will not be a printed book; the revisions will be made in the online edition.

14.4 APPROVAL OF *PAC* AND *CI* SUBSCRIPTION RATES FOR 2008

Prof. Glasser reported that the Committee on Printed and Electronic Publications had recommended the following subscription rates for *PAC* and *CI* for 2008.

<i>PAC</i>	Price Schedule: 2007	Proposed Price Schedule: 2008
Institutional (Print & electronic; includes <i>CI</i> )	1700	1850
Institutional E-only	1000	1100
Personal	99	99
Back Issues	170	170
<i>CI</i>	Price Schedule: 2007	Proposed Price Schedule: 2008
Institutional	99	99
Personal	45	45
Back Issues	25	30

Prof. Glasser commented that while the decline in revenue from institutional subscriptions to *PAC* had been offset by regular price increase, the Union should consider a disaster plan in case subscription revenue were to fall dramatically in the future.

Prof. Glasser asked that the Bureau approve the recommended prices as given above. The Motion below was moved and seconded. The Motion was approved unanimously.

Motion: *The Bureau approves the prices for PAC and CI recommended by the Committee on Printed and Electronic Publications.*

## **15. CURRENT PROJECTS**

### **15.1 REPORT FROM PROJECT COMMITTEE**

Prof. Somsen reported that its activities have reached a steady state whereby the review and funding decisions of proposals are performed routinely and on a timely basis. The overall review process continues to benefit from smooth interactions between the Project Committee, and the Division Presidents and the Chairmen of the Standing Committees. The Project Committee relies on the expert opinion of these bodies for making the final funding decision. Such essential communication has been facilitated by the usage of an explicit document suggesting questions to be addressed by Officers of Divisions and Standing Committees when recommending a proposal to the Project Committee.

As of today, and out of its 2006-2007 budget of USD 110 000, the PC made commitments for a total USD 80 000, covering 9 projects. Out of these 9 approved projects, 1 was interdivisional.

### **15.2 PROJECT COMMITMENTS AND EXPENSE, PROJECT APPROVALS**

Three reports routinely provided to Division Presidents, Standing Committee Chairmen, Task Group Chairmen, and the IUPAC officers were included for the information of the Bureau. There were no questions on these reports.

## **16. REPORT FROM EVALUATION COMMITTEE**

Prof. Weir reported that the work by the EvC has led to the following observations: (a) the use of citations is an accurate measure of impact for some projects, but not for some other projects; (b) low profile projects characterized by a lack of citations may have high value via (i) their impact on nomenclature, terminology, units, as these documents are used throughout university instruction, scientific journal standards, often translated into other languages, and some have CD ROMs issued for sale, (ii) their impact on the scientific development of young scientists; (c) there is anecdotal information on the positive value of the conferences (projects), but quantitative data are lacking.

## **17. DISCOVERY AND NAMING OF NEW ELEMENTS**

### **17.1 STATUS OF WORK BY JOINT WORKING PARTY**

Prof. West reported that the Joint Working Party has decided to divide its work into two parts; they will first consider the evidence regarding the element of atomic number 112 and then claims regarding elements of higher atomic number. This will enable the naming process for 112 to proceed while the claims for elements 113 et seq. are resolved.

The Motion below was moved and seconded. The Motion was approved unanimously.

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**Motion:** *The Bureau requests that the Council delegate to the Bureau the authority to approve a proposed name for the element of atomic number 112, providing that there is no controversy after the Public Comment period.*

17.2 GUIDELINES FOR THE APPOINTMENT OF JOINT IUPAC/IUPAP WORKING GROUPS TO VALIDATE CLAIMS FOR THE DISCOVERY OF NEW ELEMENTS

Prof. Black noted that claims for the discovery of new elements require validation by a group of experts in the field, so a working group is established to do this. The validation requires the joint approval of both IUPAC and IUPAP, whereas the naming of any new element is the responsibility of IUPAC. In the past, the composition of a working group has usually been determined following informed advice, and discussions between the Presidents of IUPAC and IUPAP. It was agreed with IUPAP that some more formal guidelines for the establishment of future working groups would be helpful.

Negotiations between the two Unions have resulted in agreement on a set of guidelines. The Motion below was moved and seconded. The Motion was approved unanimously.

**Motion:** *The Bureau approves the guidelines agreed with IUPAP.*

18. FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS

Dr. Jost reported that there were no significant changes in the operation of the Fellows program or in the AMP in 2006. The current number of Fellows in the database is 1343. Each new Fellow receives a letter signed by the President informing him/her of their new status.

The number of Affiliates increased from 2001 to 2002 and decreased in 2003 and again in 2004 followed by a small increase in 2005 and a larger decrease in 2006. The Secretariat continues to look at ways to encourage NAOs and chemical societies to better promote the AMP.

19. STATUS REPORT ON IUPAC SECRETARIAT

Dr. Jost noted that the report provides a summary of the job descriptions of the Secretariat Staff, the Memorandum of Understanding signed with Fachinformationszentrum für die Chemie Berlin and its implications for the Secretariat, the use of Google Groups to assess the utility of this service to IUPAC bodies, and the loss earlier this year of Mrs. Erin Carter from the Secretariat staff.

Prof. Somsen commented that when the move of the Secretariat to North Carolina was approved it had been agreed by the Bureau that a review of the question of the future location of the Secretariat would be made after ten years. He noted that the ten years had now passed and asked if any plans for this review had been made? Prof. Black noted that the current location was low cost compared to many other possible locations. He also noted that the Union would be searching for a new Executive Director in the next four years and that it might be best if no change in the location of the Secretariat occurred at least until the end of the Executive Director's term of



office.

Prof. Henry proposed that the Secretariat remain in North Carolina at least until the end of 2010. A motion to that effect was made and seconded. The motion was approved unanimously.

## **20. IUPAC WEB SITE AND OTHER PUBLICITY ABOUT THE UNION**

### **20.1 STATUS REPORT**

Dr. Meyers noted that the report provided in advance discussed the move of the IUPAC server from North Carolina to Berlin, the implementation of CrossRef linking for *PAC*, the development of a new interface for *PAC* online, the continued addition of new volumes to the *PAC* online archive, the XML version of the *Gold Book*, and planned future developments.

Prof. Brett noted the comment from the Division President's meeting that the appearance of the web site was not inviting for non-IUPAC visitors. Dr. Meyers commented that the group in Prague was nearing the end of the development phase of a new version of the web site. This will change the underlying technology to XML. This change by itself will not significantly change the appearance of the site. However, it will make changing the appearance and the navigation easier. Dr. Meyers also noted that the front page of the site was much less significant than a few years ago because most visitors to the site now arrive at an internal site as the result of a search on Google or some other search engine. Dr. Racke noted the importance the IUPAC web site will have during the years before and during the International Year of Chemistry. This will be an opportunity to increase the visibility of the site and should be taken advantage of.

## **21. IUPAC PRIZE FOR YOUNG SCIENTISTS 2007**

Prof. Sydnes informed the Bureau that in 2007, 57 applications were received, from 24 different countries. A committee, chaired by IUPAC's Past President, reviewed the applications and selected five winners and two honorable mention winners. He commented that the Committee had asked that the instructions to the applicants be changed to stress the need to adhere to the 1000 word limit for the essay. The Secretariat had been asked to monitor submissions and return any applications with essays greater than 1200 words. Prof. Sydnes then noted that some prize Winners had declined to submit a review manuscript for publication in *Pure and Applied Chemistry*. There was some discussion of the desirability of making this a requirement of acceptance of the prize. However, the conclusion was that this would be difficult to enforce and would not result in the high quality manuscripts desired for *Pure and Applied Chemistry*.

Prof. Chandrasekaran suggested that, given the high quality of the applicants, the number of prizes be increased. Prof. Henry proposed that this be referred to the Executive Committee for discussion at its next meeting. Prof. Mahaffy suggested that an IUPAC Prize for undergraduate research might have beneficial consequences for

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IUPAC and help promote the participation of undergraduates in research. Prof. Henry suggested that the Committee on Chemistry Education develop a proposal and submit it to the Executive Committee.

*Action item: Add proposal to increase the number of IUPAC Prizes to Executive Committee Agenda.*

*Responsible: Dr. Jost.*

*Action Item: Develop a possible proposal for an IUPAC Prize for undergraduate research.*

*Responsible: Prof. Mahaffy.*

## 22. CONFERENCES AND SYMPOSIA

### 22.1 SUPPORT FOR CONFERENCES IN SCIENTIFICALLY EMERGING REGIONS AND CONFERENCES ON NEW DIRECTIONS IN CHEMISTRY

Prof. Somsen noted that this program had been set up with two purposes, first to stimulate Divisions and Standing Committees to provide financial support for conferences in new areas of chemistry and also in scientifically emerging regions. He reported that three applications had been received early in 2007, two of which had been approved, and two applications had been received since the written report was submitted, both of which had been approved. The Committee had decided to postpone its final review session to November 2007 to allow time for more applications in the current biennium.

The Bureau thanked Prof. Somsen for his work with the Project Committee.

### 22.2 MALTA III CONFERENCE

Prof. Lerman reviewed the history of the conferences for the Bureau. She noted that the participants valued the conferences for their continuity and the close interactions among the participants promoted by the small number of attendees and the format of the conference. Some major outcomes of the conferences have been collaborative research programs among groups of the participants. She reported that the next conference in the series would take place in Istanbul during December. Dr. Malin reminded the Bureau that IUPAC had replaced the American Chemical Society as the principle sponsor of this conference series. This included acting as banker for the conference by collecting and disbursing funds. Prof. Lerman pointed out that IUPAC sponsorship had been important from the beginning in order to attract participants. Prof. Black commented that this was perhaps one of the most significant things IUPAC has done in the past few years. Mr. Langer reported that a proposal had been submitted to the OPCW for funding of Malta III.

### 22.3 RATIFICATION OF SPONSORSHIP OF SYMPOSIA

Dr. Jost reported that two conferences had been approved for sponsorship since the meeting of the Executive Committee in March. These are: the 6<sup>th</sup> International Symposium on Molecular Order and Mobility in Polymer Systems, 2-6 June 2008, Saint-Petersburg, Russia and the 47<sup>th</sup> Prague Meeting on Macromolecules 'Advanced Polymer Materials for Photonics and

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Electronics', 15-19 July 2007, Prague, Czech Republic. The motion below was moved and seconded. There were two abstentions, no votes against, the motion was passed.

*Motion: The Bureau approves the Symposia granted sponsorship since the meeting of the Executive Committee.*

**23. APPROVAL OF MEMBERSHIP OF DIVISION COMMITTEES**

Prof. Black noted that all the elections for Titular Members of Division Committees had been completed before the General Assembly, but that some decisions regarding the selection of Associate Members and National Representatives had not been completed. He then reviewed the proposed membership of each Division Committee, noting those instances where the Bureau was asked to approve an exception. All appointments yet to be decided must be approved by the Executive Committee. Attachment I summarizes the proposed membership of each Division Committee as presented to the Bureau. Any changes to the membership approved by the Bureau require the approval of the Executive Committee. A summary of the situation for each Division Committee is given below.

*Physical and Biophysical Chemistry Division:* There were no exceptions requested, the proposed membership was approved unanimously.

*Inorganic Chemistry Division:* The Division requested that it be allowed to have 11 Titular Members for the 2008-9 Biennium. It was noted that a National Representative from Uruguay was listed, this was contingent on the approval of the application of Uruguay for National Adhering Organization status by the Council. Prof. Black commented that while Prof. Corish was listed as a National Representative, he would not be appointed if Council elected him IUPAC Treasurer. The proposed membership was approved unanimously.

*Organic and Biomolecular Chemistry Division:* The Division requested that it be allowed to have 11 Titular Members for the 2008-9 Biennium. It was noted that a National Representative from Ethiopia was listed, this was contingent on the approval of the application of Ethiopia for National Adhering Organization status by the Council. The proposed membership was approved with one abstention and no votes against.

*Polymer Division:* Prof. Black noted that if Council elected Prof. Jin IUPAC President or Vice President, Prof. Ober would become Division President. The Division would then need to elect a new Vice President. He also noted that the Division had not selected any National Representatives. Approval of the Executive Committee would be required for the new Vice President and the National Representatives. The proposed membership was approved with one abstention and no votes against.

*Analytical Chemistry Division:* There were no exceptions requested, the proposed membership was approved unanimously.

*Chemistry and the Environment Division:* There were no exceptions requested, the proposed membership was approved unanimously.

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*Chemistry and Human Health Division:* Dr. Kallner, representing Prof. Erhardt, reported that the Division wished to appoint Prof. Ganellin as an Associate Member, this would give six Associate Members, which is the maximum number allowed. There was some discussion of the large number of Titular and Associate Members from the US and UK on the Division Committee, seven out of sixteen. Prof. Black noted that the selection of Prof. Ganellin would be subject to subsequent confirmation by the Division President. There were no exceptions requested, the proposed membership was approved with three abstentions and no votes against.

*Chemical Nomenclature and Structure Representation Division:* Prof. Black reported that the appointment of Prof. Leigh as a Titular Member for a four-year term required special approval as Prof. Leigh had already served ten years total as a Titular Member and Associate Member. Dr. Moss asked that this be confirmed and the question was therefore deferred for consideration by the Executive Committee. [Subsequent investigation confirmed that Prof. Leigh had served ten years combined as Titular Member and Associate Member of the Inorganic Division Chemistry and the Chemical Nomenclature and Structure Representation Division Committees. Bylaw 4.103 states: *Exceptional circumstances must be established and special permission of the Bureau granted for Titular or Associate Membership of the same or more than one Division or Section Committee beyond a total of twelve years of total Titular and Associate Membership, whether the Memberships are consecutive or not.*] The Division requested that it be allowed to have 11 Titular Members for the 2008-9 Biennium. The proposed membership, with the exception of the appointment of Prof. Leigh as a Titular Member, was approved with one abstention and no votes against.

**24. THE IMPACT OF ADVANCES IN SCIENCE AND TECHNOLOGY ON THE CHEMICAL WEAPONS CONVENTION: ZAGREB WORKSHOP**

Prof. Sydnes reviewed the history of IUPAC-OPCW cooperation in this area. OPCW had requested that IUPAC organize a review of scientific advances that might affect the Chemical Weapons Convention, as had been done in Bergen in 2002. The date of the Review Conference, April 2008, and the date of the meeting of the OPCW Scientific Advisory Board, May 2007, determined the choice of April 2007 as the date of the Workshop. Prof. Sydnes reported that OPCW had made some last minute changes in the nature of the support they would provide, however, by the time the organizers were informed of the changes, commitments had already been made to the speakers. This resulted in a deficit for the Workshop that has been incurred by IUPAC. OPCW has agreed to recompense IUPAC for this loss in future contracts.

Prof. Henry commented that while this was an unfortunate situation, the past cooperation with OPCW was such that he was willing to accept this resolution. Prof. Mahaffy noted that OPCW had supported other IUPAC projects and IUPAC should view this as an important long-term relationship. Prof. Black commented that the work IUPAC had done with OPCW had led to IUPAC receiving a contract for USD 125 000 from the US Department of State to organize a workshop on Chemical Safety and Security in the 21st Century.

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**25. REVIEW OF ITEMS TO BE REFERRED TO COUNCIL**

Prof. Henry reviewed the two Items that would be brought to Council under Council Agenda Item 24: *Important Matters Referred to Council by Bureau at 44th General Assembly not Covered by Items on Council Agenda.*

The first is the proposal to pursue the designation of 2011 as the International Year of Chemistry. The second is the motion approved in Item 17.1 to delegate to the Bureau the authority to approve a name for the element of Atomic Number 112, in the case that there is no controversy after the Public Comment period.

**26. DATES AND PLACE OF NEXT BUREAU MEETING**

Prof. Henry noted that the next meeting of the Bureau was scheduled at 12:30 Sunday, 12 August 2007. He reminded the Division Presidents and Standing Committee Chairmen that Division Presidents and Standing Committee Chairmen elected or appointed for 2008 are expected to attend.

He then commented that if Council adopted the recommendation of the Bureau to award the 2011 Congress and General Assembly to Puerto Rico, it would be appropriate to hold the next Bureau meeting in Turkey. He reminded the Bureau that under the new schedule adopted by the Executive Committee the 2008 meeting of the Bureau is in the second quarter. After some discussion, it was decided that the tentative date would be 29-30 March, with as usual the preceding two days reserved for meetings of the Division Presidents, the Project Committee, and the Evaluation Committee. The Bureau agreed to request that, in the case of the Council awarding the 2011 Congress and General Assembly to Puerto Rico, the Turkish Chemical Society host the 2008 meeting of the Bureau.

**27. ANY OTHER BUSINESS**

Dr. Jost reported that the Commission on Isotopic Abundances and Atomic Weights (II.1) had met in Pisa, Italy, prior to the General Assembly. Following its meeting, the Commission recommended significant changes to the standard atomic weights, Ar(E), of 5 chemical elements. The following changes are based on new determinations of isotopic abundances and reviews of previous isotopic abundances and atomic masses:

	From	To
lutetium	174.967(1)	174.9668(1)
molybdenum	95.94(2)	95.96(2)
nickel	58.6934(2)	58.6934(4)
ytterbium	173.04(3)	173.054(5)
zinc	65.409(4)	65.38(2)

The values are presented in a concise notation whereby the standard uncertainty is given in parenthesis next to the least significant digits to which it applies; for example, Ar(Zn) = 65.38(2) is the concise form of the expression  $\text{Ar}(\text{Zn}) = 65.38 \pm 0.02$

In addition, the recommended value for the isotope amount ratio of  $^{40}\text{Ar}/^{36}\text{Ar}$ , which may be of importance to geochronologists, has been changed from 296.03(53) to

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298.56(31).

The above changes will be published in a Press Release to be distributed after the General Assembly.

The motion below was moved and seconded and approved unanimously.

*Motion: The Bureau recommends that Council approve the Press Release prepared by the Commission on Isotopic Abundances and Atomic Weights after its meeting in Pisa.*

*Action Item: Distribute Press Release on revised atomic weights and isotope abundance.*

*Responsible: Dr. Jost.*

Prof. Brett reported that Prof. Quack had claimed that while IUPAC had the copyright to the *Green Book* as published, the files used to generate the book were the property of the ETH Zürich. The files were in the markup language TeX, which is most suitable for the editing of equations and manuscripts with many tables and symbols. Recreating this file would be expensive. He recommended that IUPAC pay the ETH to obtain the manuscript file. After some discussion of this proposal, the Bureau authorized Prof. Brett to negotiate a payment to the ETH with Prof. Quack. Final approval of the amount negotiated would be approved by the President.

Prof. Henry thanked the members of the Bureau for their hard work and cooperation in adhering both to the agenda and to the timeline for the Agenda.