

International Union of Pure and Applied Chemistry

92nd MEETING OF BUREAU

Leiden, The Netherlands, 13-15 April 2012

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MINUTES

Attendees: Prof. K. Tatsumi, Chair, Prof. C. M. A. Brett, Prof. M. Buback, Prof. M. F. Camões, Dr. M. C. Cesa, Prof. M-H. Chiu, Prof. J. Corish, Prof. R. Deplanque, Dr. M. J. Dröscher, Prof. K. N. Ganesh, Prof. J. García-Martínez, Prof. R. M. Hartshorn, Mr. C. J. Humphris, Prof. R. S. Lamba, Dr. R. D. Loss, Dr. L. L. McConnell, Prof. N. J. Moreau, Prof. S. Penczek, Prof. E. Reichmanis, Prof. L. K. Sydnes, Prof. N. P. Tarasova, Prof. D. M. Templeton, Prof. M. C. E. van Dam-Mieras, Prof. K. Yamanouchi, Prof. Q-F. Zhou

Absentees: Prof. F. Pontet, Prof. I. Willner

Guests: Dr. M. Behnke, Prof. H. K. J. Powell, Prof. R. D. Weir

Secretary: Dr. T. A. Renner, Executive Director

1. WELCOME BY DR. GABRIËLLE DONNÉ-OP DEN KELDER, DIRECTOR AND SECRETARY GENERAL, ROYAL NETHERLANDS CHEMICAL SOCIETY (KNCV)

Prof. Tatsumi introduced Dr. Gabriëlle Donn -Op den Kelder, the official representative of the Royal Netherlands Chemical Society (KNCV), the NAO host for the 92nd Meeting of the IUPAC Bureau in Leiden. Dr. Donn -Op den Kelder addressed the Bureau members briefly, welcoming them and also explaining the organization and functions of the KNCV. She also described the activities of her organization during the International Year of Chemistry 2011 and the new projects and programs that have been planned and initiated as a result of IYC in the Netherlands.

2. INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

Prof. Tatsumi welcomed the members of the Bureau to the meeting and thanked the Royal Netherlands Chemical Society (KNCV) for hosting IUPAC. He asked if there were any changes or additions to the Agenda. There were no changes.

3. MINUTES OF 90TH AND 91ST MEETINGS OF BUREAU

Prof. Tatsumi noted that the Minutes of the 90th Bureau meeting in Warsaw, Poland, and the Minutes of the 91st Bureau meeting in San Juan, Puerto Rico, had been approved by correspondence and asked if there were any comments. There were no comments. Minutes of these two meetings were included in the Agenda Book for the Bureau meeting in Leiden.

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

There were no matters arising from the Minutes not covered by the Agenda.

4. MINUTES OF 146TH MEETING OF EXECUTIVE COMMITTEE

4.1 RECEIPT OF MINUTES BY BUREAU

Prof. Tatsumi noted that the Minutes of the 146th Executive Committee meeting held in Research Triangle Park, North Carolina, had been approved by correspondence and asked if there were any comments. There were no comments.

4.2 HIGHLIGHTS AND QUESTIONS ABOUT ITEMS NOT ON BUREAU AGENDA

There were no questions about Items from the Minutes of the Executive Committee.

5. ACTION ITEMS FROM PREVIOUS MEETINGS

Prof. Tatsumi reviewed the Action Items included in the Agenda Book. Item 1 dealt with communication and contacts with the NAOs. Prof. Moreau stated that she was developing a secondary NAO contact list so that more than one person within each NAO would receive vital information from IUPAC, thus making it more likely that those who would need this information would actually receive it. Both Dr. Dröscher and Prof. Tarasova commented that they felt that this communication effort should also be extended to the chemical industry, especially to the Company Associates of IUPAC. Dr. Renner commented on Item 2, an update of the application process for IUPAC sponsorship of conferences. Many applicants seem not to appreciate that sponsorship does not imply financial support. The best way to improve this misperception would be to rewrite the pages of the website dealing with this matter so that ambiguities of language would be corrected. Since sponsorship also permits the use of the IUPAC logo in conference advertising, Prof. Lamba suggested that IUPAC should clearly state the conditions for use of the logo in order to avoid possible embarrassment to the Union. Item 2 is still in progress. Prof. Tatsumi stated that Item 3 had no real practical value and that it should be removed from the Action Item list. The Bureau unanimously concurred with this recommendation.

The Bureau was asked to inform the Secretariat of any changes in status. No changes were reported.

6. REPORT OF THE PRESIDENT

Prof. Tatsumi delivered his first official address to the Bureau as President of the Union. He stated that as IUPAC moves toward the 100th anniversary of its founding in 1919, the Union should find a new path forward based on a solid strategy of growth and development taking into account current world challenges. This updated approach to IUPAC's core activities should also seek to capitalize on the global momentum that has been developed as a result of IYC 2011. He specifically asked that a comprehensive record of IYC from start to finish be documented in the form of a formal report. Prof. Deplanque commented that former IUPAC President, Bryan Henry, had proposed a formal project for this

very purpose. He also suggested that IUPAC Associate Executive Director, Fabienne Meyers, could contribute to this effort because of her involvement in the development and management of the IYC 2011 website, a large archive of relevant information. He strongly supported the completion of such a report. Prof. Tatsumi emphasized that IUPAC needed to have solid goals established towards which all activities could be strongly focused in the next seven years. Proposed goals included:

- Refocus the direction of IUPAC policies, programs and projects towards world needs;
- Increase the visibility and relevance of IUPAC within the global community;
- Reform the processes by which IUPAC undertakes all of its official activities;
- Develop an updated and formal strategic plan for the future.

Finally, Prof. Tatsumi stated that the activities of the Divisions are critical for IUPAC. The work of the Divisions constitutes the core of the Union. He encouraged the Division Presidents to be more active and proactive in working with him to achieve the goals for growth moving toward 2019.

7. VICE PRESIDENT'S CRITICAL ASSESSMENT

Dr. Cesa delivered his Critical Assessment to the Bureau members. In his address he asked "What is IUPAC today? How do we interact with other scientific unions and organizations, and with the general public?" Quite in concert with the remarks of Prof. Tatsumi, he asked what IUPAC should want to be in 2019 and thereafter. IUPAC has long-range goals and objectives, perhaps needing updating, and there are new goals and a rich legacy to be derived from IYC 2011. Dr. Cesa proposed that several tasks be undertaken by IUPAC:

- Review programs and projects as they relate to long-range goals;
- Seek out opportunities for change and improvement to provide a basis for strategy development;
- Enhance productive interactions with the chemical industry by renewing the Company Associates program for greater participation and greater impact;
- Establish new interdivisional subcommittees and new interactions with other global scientific unions;
- Make available the scientific intellectual property of IUPAC for the greater benefit of society;
- Clarify operating processes and practices of IUPAC to enhance current strengths thus encouraging greater participation by more outside organizations and individual scientists.

Dr. Cesa expects to submit a draft version of the Vice President's Critical Assessment for discussion at the next Bureau meeting in Frankfurt, Germany. Prof. Buback asked how IUPAC can avoid becoming too political yet still be able to interact with political bodies, particularly on specific issues for which IUPAC has truly relevant expertise. This point should be considered in the development of the updated strategic plan.

8. REPORT OF THE SECRETARY GENERAL

Prof. Deplanque reported to the Bureau members the major tasks that he had undertaken during his first 100 days as Secretary General of IUPAC:

- Assess opportunities for generating new sources of operating revenue;
- Review the current in-house processes for publication for *PAC* and *CI*, seeking the input of both the Bureau and CPEP;
- Review general Secretariat operations;
- Understand the mechanisms by which IUPAC conducts its business internally as well as how the Union interacts with external entities.

He commented that IUPAC should work to increase the impact of its “brand recognition.” He also commented on the apparent chaos regarding the new IUPAC website. The current production website was formed from a combination of four separate websites, among which there were many inconsistencies and incompatibilities. He acknowledged the need for improvement but also stated that significant progress had been made toward correcting many of the deficiencies.

9. RECEIPT OF PROGRESS REPORTS FROM DIVISIONS AND STANDING COMMITTEES

The reports from the Divisions and Standing Committees were accepted as read. A few specific highlights from these reports are enumerated below. Eight of the Division Presidents just started their terms of office as of 1 January 2012.

Prof. Yamanouchi stated that Division I will hold its off-year meeting in Tokyo in June of 2012. A “*One-Day IUPAC Division I Symposium*” will be organized in conjunction with this meeting on the campus of the University of Tokyo, in order to introduce the activities of Division I as well as those of IUPAC to graduate students, researchers, and university professors in the Tokyo area, financially supported by Chemical Society of Japan and the University of Tokyo. Four new projects were approved since the last Divisional meeting at the GA in San Juan, Puerto Rico.

Dr. Loss commented that, as of mid-March 2012, Division II has 19 active projects under its aegis. Two of these are featured in his report: “*Recommendations for Isotope Data in Geosciences*” and “*Periodic Table of the Isotopes for Chemical Education (IPTI)*.” Work continues on the validation of claims for the discovery and naming of new elements. A new Joint Working Group is being formed to address claims for elements with atomic numbers greater than 112. He also described the involvement of Division members with various activities undertaken during the International Year of Chemistry.

Prof. Ganesh highlighted the project and subcommittee activities of Division III. The Division continues to be involved with IUPAC-sponsored conferences dealing with many areas of Organic and Biomolecular Chemistry.

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Prof. Buback offered some very specific suggestions for improving the impact of Division IV. The following points should stay in the focus of Polymer Division activities: Involve younger scientists; involve colleagues from industry; strengthen polymer activities in developing countries; further improve the role of Polymer Division in education; strengthen the IUPAC label and make organizations ask for IUPAC advice and opinion; stimulate both short-term and long-term projects with early discussion at Polymer Division meetings; improve the monitoring of projects; provide expert fora for identifying and solving problems by preparing dilemma papers and by organizing initiatives; broaden the IUPAC offer in the areas of nomenclature and in providing reliable benchmark data of polymerization-related rate coefficients; recommend reliable techniques for measurement of polymer-relevant parameters and coefficients; strengthen the role of NRs by asking them to report to their NAOs and to the Polymer Division and act as ambassadors for both sides; recruitment of excellent candidates for service to IUPAC; attempts should be made to improve the funding situation of the Polymer Division with the intention to be able to increase further the number of supportable projects.

Prof. Camões reported that Division V had worked on the planning and development of strategy for the Global Water Experiment during the IYC 2011. She indicated that members of the Division are actively involved with many outside scientific organizations. In particular she singled out the BIPM within which a debate is still ongoing concerning the definition of the mole. She stated that IUPAC has put forth more than one opinion on this important issue and that a final and formally approved position and statement should be developed to avoid further ambiguity and confusion.

Dr. McConnell indicated that Division VI would work on improvement of communications, both within the Division and with other IUPAC Divisions and Subcommittees. The Division is interested in participating in the upcoming 2013 IUPAC Congress in Turkey through the development of at least one symposium on an environmental chemistry topic. Initial contact has been made with the local conference organizers and a positive response has been received. She has also agreed to assist with the development of a new IUPAC global experiment in cooperation with Dr. Mark Cesa and others. Several potential projects are currently being evaluated by the committee members.

Prof. Templeton, acting President for Division VII, highlighted the numerous Division and Subcommittee activities in which the members currently participate. He particularly emphasized the Division's efforts to foster IUPAC's goals, namely, leadership in global chemical issues; provision of practical tools; assistance to the chemical industry for sustainable development, creation of wealth, and improvement of the quality of life; fostering open communication; supporting education; and public relations on behalf of both the Division and the entire Union.

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Prof. Hartshorn reaffirmed the commitment of Division VIII to matters of Nomenclature, one of IUPAC's core areas of expertise. Key project work includes further development of the International Chemical Identifier (InChI) and Preferred IUPAC Names (PINs). The Division has also been developing closer contacts with organizations that are, or will be, users of nomenclature. This includes project work with the International Union of Biochemistry and Molecular Biology (IUBMB) under the auspices of the Joint Commission on Biochemical Nomenclature (JCBN). New links with the International Standards Organisation (ISO) will shortly result in new project proposals that will be aimed at developing nomenclature for particular classes of nanomaterials. Since the last report, to the IUPAC Council, in San Juan, representatives of the Division have conducted a two day symposium on IUPAC nomenclature for the EU Commission on Taxation and Customs Union. These are examples of means by which nomenclature development and use can be enhanced.

After the GA in Puerto Rico in 2011, the Executive Committee acted to reduce the time for Division and Committee meetings at the next GA from two days to one day. Prof. Hartshorn strongly recommended that the meeting schedule should be reinstated to its former length of two days, stating that the longer time was needed to permit Division members to participate in their own meetings as well as in those of other Divisions with which they might be involved in related IUPAC activities. Dr. Renner said that he would revisit this issue with the Executive Committee before the meeting schedule for the GA in Istanbul was completed.

10. ITEMS FROM MEETING OF DIVISION PRESIDENTS AND STANDING COMMITTEE CHAIRS

Dr. Loss chaired the meeting of Division Presidents and Standing Committee Chairs held the day before the full Bureau meeting. He discussed three specific points that had been discussed in the smaller meeting.

IUPAC should review its operating structure with the intent of being more comprehensive and inclusive. Divisions themselves, as well as Subcommittees, might need to be renamed to reflect this reorganization. Formal relationships and expectations among all of these groups should be better defined and committed to writing.

The question about who owns the rights to publication of the IUPAC Color Books was raised. He asked where the royalty payments come from and where do they go. Dr. Renner responded that royalty payments normally come from the publishers or from the Copyright Clearance Center, depending on the type of publication. Unless a specific purpose has been identified and communicated to the Secretariat, these funds are deposited into the Union's normal operating account.

Dr. Loss echoed the comments that Prof. Hartshorn had earlier presented regarding the scheduling of Division and Committee meetings at the General Assemblies. He stated that all of the Division Presidents wanted the full two days of time made available again. Dr. Renner reiterated that he would revisit this

issue with the Executive Committee before the meeting schedule for the GA in Istanbul was completed.

Prof. Hartshorn was elected to chair the 2013 meeting of Division Presidents and Standing Committee Chairs.

11. INTERNATIONAL YEAR OF CHEMISTRY 2011

11.1 SUMMARY OF KEY EVENTS AND IYC LEGACY

Prof. Moreau briefly described the closing ceremony for the International Year of Chemistry that took place in Brussels, Belgium, on 1 December 2011. A closed session in the morning included a select group of young business people, while the afternoon session included a roundtable discussion for a broader audience. Representatives of both industry and the UN delivered closing remarks.

Prof. Moreau spoke about the legacy derived from IYC 2011. A wealth of information exists in the form of the dedicated IYC website. In particular, contact information to improve IUPAC's external communication with scientific organizations and scientists can be harvested from the site. She remarked that public understanding of the importance of chemistry in daily life was improved. Thousands of students at all levels of education were exposed to chemistry and many participated in a large variety of activities, including the Global Water Experiment.

The activities of IYC 2011 were good for chemists in general, probably good for the science of chemistry, and were perhaps only neutral for IUPAC. Prof. Moreau clarified this remark by saying that the UNESCO effect somewhat overshadowed IUPAC in the public perception and that national activities did not often feature IUPAC but were highly localized. Mr. Humphris commented that IUPAC must find a reasonable way to strengthen its global impact and to make its logo more recognizable in the public eye. He challenged the Executive Committee to take advantage of the new opportunities to achieve this recognition afforded by IYC 2011.

11.2 FINANCIAL REPORT

Professor Corish presented an interim financial report for IYC 2011. He commented that no unexpected financial matters had arisen during the international year and that the overall budget of approximately USD 1.3 million has been fully utilized. Although the Executive Committee had approved the spending of USD 500K from IUPAC central funds to support IYC, in the end only USD 141K of that amount had actually been spent. There was no additional discussion about the financial report.

11.3 GLOBAL WATER EXPERIMENT AND WCLM

Prof. García-Martínez presented a brief summary of the Global Water Experiment including details of the experiment itself as well as commentary about the data that were generated. In general, the GWE was considered to be a success in that it raised world awareness of the need to protect and

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guarantee supplies of fresh water everywhere. The GWE was also financially successful in that the activity met agreed spending expectations in the IYC budget. Dr. Cesa presented options for a new or continuing global experiment to maintain the momentum generated by the original GWE. He suggested that careful planning would be necessary before implementing another effort. He offered to keep the ball rolling by interacting with the appropriate people within and outside of IUPAC.

Mr. Humphris revisited the outcomes of the WCLM meeting that took place during the previous General Assembly in Puerto Rico. The focus of the WCLM had been several areas of current challenges pertaining to global sustainability and opportunities for chemistry. These included the need to work with others to deliver sustainable development and the recommendation that chemistry play an active role at the World Summit Rio+20 organized by ICSU and UNESCO. Mr Humphris led a workgroup which prepared an IUPAC position paper for ICSU but the work did not go on to consider the most appropriate ways for IUPAC to play its part. This was a role the Executive Committee had wished to lead (see item 4.2.4. Minutes of the 146th Executive Committee Meeting October 2011) but had not progressed. Several members of the Bureau commented that they recognized the importance and need for IUPAC to work with other outside organizations to maximize the impact of chemistry in fora such as Rio+20. Dr. McConnell of Division VI (Chemistry and the Environment) suggested that Prof. Irene Baptista de Alleluia of Brazil, a member of the Division VI Subcommittee on Crop Protection Chemistry could attend the Rio+20 meeting as an observer for IUPAC and then deliver a report on the proceedings afterwards. After additional group discussion, the Bureau asked that the officers reconsider IUPAC representation at Rio+20 as a matter of urgency.

11.4 IYC WEB SITE

Dr. Renner reported that the IYC 2011 would be formally closed as of 30 March 2012. No additional postings will be permitted after that date. However, because of the valuable contact information it contains and the descriptions of worldwide IYC activities, the website will be maintained as an information archive.

12. FUTURE GENERAL ASSEMBLIES AND CONGRESSES

12.1 47TH GENERAL ASSEMBLY AND 44TH CONGRESS (ISTANBUL, 2013)

The principal topic of discussion was the shortened schedule for the General Assembly that had been approved by the EC at their meeting during the last GA in San Juan, Puerto Rico. It was unanimous among the Division Presidents and Standing Committee Chairs that they wanted the former two-day schedule for their meetings to be reinstated. A formal motion from the floor was made by Prof. Hartshorn and seconded by Dr. McConnell for this purpose. The motion carried unanimously. Dr. Renner stated that he would

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investigate the expansion of the current GA schedule to include one additional day on 8 August 2013. This action must be coordinated with the Turkish Chemical Society.

The Bureau members briefly discussed the scientific program for the World Chemistry Congress in Istanbul. It was recommended that additional members be added to the International Advisory Board to broaden the geographical coverage. More details of the actual structure of the technical program were also requested. Dr. Renner agreed to contact the local organizing committee in Turkey to express these suggestions and to encourage their implementation as soon as possible.

12.1.1 Format for WCLM in Istanbul

Discussion of the World Chemistry Leadership Meeting in Istanbul focused on the topic for the meeting and on what format would be employed to conduct it. General comments suggested that the WCLM topic should be complementary to that of the Congress, "*Clean Energy Through Chemistry*." However, no formal recommendation was made. Dr. Cesa agreed to coordinate the WCLM effort with Dr. Dröscher and Mr. Humphris (Chair of the WCLM in Puerto Rico).

12.2 48TH GENERAL ASSEMBLY AND 45TH CONGRESS (SEOUL, 2015)

Dr. Renner reported that preliminary contacts had been made with the Korean Chemical Society, from which organization members of the local organizing committee will be chosen for the GA/WCC in Korea in 2015. There was no other discussion of this item.

12.3 RECEIPT OF BIDS FOR GA/CONGRESSES 2017 AND 2019

Dr. Renner indicated that formal proposals had been received from five NAOs for hosting the GA/WCC in the years 2017 and 2019. Australia, Brazil and Nigeria wish to host these events in 2017 and China and France wish to do so in the IUPAC centennial year 2019. He commented that the proposal from Nigeria did not meet the minimum requirements for response to the call for proposals. Prof. García-Martínez moved that the proposal from Nigeria be accepted as is for presentation at the GA in 2013 for consideration by the Council. There was no second from the floor and no vote was taken.

Prof. Deplanque moved to accept the proposals from Australia and Brazil for presentation at the 2013 Council meeting in Istanbul. Included in his motion was the statement that the proposal from Nigeria did not meet the requirements for a fully responsive proposal. The motion was seconded by Prof. Reichmanis and was carried by a vote of the Bureau members. There was one vote opposed to this motion.

Dr. McConnell moved that the proposals from China and France be accepted for presentation at the 2013 Council meeting in Istanbul. Her motion was seconded by Prof. Reichmanis and was approved unanimously by a vote of the Bureau members.

13. FINANCIAL MATTERS

13.1 REPORT OF TREASURER

Prof. Corish reported that there were no significant financial issues to report, other than the normal fluctuations in the value of the investment portfolio with changes in global market conditions. He did indicate that two of IUPAC's three principal revenue streams were declining. Several of our corporate bonds have matured in the last two years. Yields on high-quality new corporate bonds are approximately half of what was earned on the matured bonds, thus leading to a significant decline in annual interest income. In addition, the number of subscriptions to *PAC* has declined substantially in the past year, also leading to a loss of operating revenue.

13.2 REPORT OF FINANCE COMMITTEE

Prof. Corish commented that normal market swings continue to have an effect on the value of IUPAC's investment portfolio. In addition, several corporate bonds have matured and the funds are awaiting reinvestment in suitable replacement bonds. The Table below summarizes the recent value of the portfolio through 31 March 2012.

Portfolio Value Summary

<u>Date</u>	<u>USD</u>	<u>EUR(in USD)</u>	<u>Total</u>
31-Dec-06	3,991,233	1,559,961	5,551,194
31-Dec-07	4,192,852	1,668,575	5,861,427
31-Dec-08	2,969,792	1,531,446	4,501,238
31-Dec-09	3,603,516	1,307,702	4,911,218
31-Dec-10	3,465,432	1,248,346	4,713,778
31-Dec-11	3,113,521	1,056,551	4,170,072
31-Mar-12	3,132,143	982,861	4,115,004

Loss in value of the investment portfolio during the recent global economic downturn has been minimized due to the conservative investment policy adopted by the Finance Committee during this period of uncertainty. During the past year, changes in value have largely tracked the general market movement. During the last meeting of the Finance Committee (7 February 2011), the portfolio was reviewed in detail. Several mutual funds were identified as underperforming and the recommendation was made to divest one or all of them to free cash for higher-quality investments.

13.3 STATEMENT OF ACCOUNTS FOR 2010 AND 2011

Prof. Corish noted that the Agenda Book contains the audited financial statement for 2010, the full accountant's report for 2010, and the most recent accountant's report through 30 June 2011. The annual audit was completed less than one month ago at the Secretariat and the final audited financial statement for 2011 was not yet available at the time of compilation of the Agenda Book for this meeting. No material issues had arisen during the auditor's field work and their report was not expected to contain any

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items of concern.

13.4 REVIEW OF BUDGETS FOR 2010-11 AND 2012-13

Prof. Corish reported that the budget for 2012-13, as approved by Council, was included in the Agenda Book for information. No changes were proposed in the approved budget. The budget for the recently concluded 2010-2011 biennium was also included in the Agenda Book for comparison with the current budget.

13.5 NAO AND ANAO PAYMENT STATUS

As of 31 December 2011, eight NAOs were still delinquent in payment of their National Subscriptions for 2011. The total amount in arrears was approximately USD 27,000. The Secretariat continues to be in contact with these NAOs in order to rectify these delinquencies. It is expected that these accounts due will be settled by the end of the first quarter of 2012.

14. REPORT FROM MEMBERSHIP RELATIONS COMMITTEE

Prof. Moreau indicated that current practice recognizes only one official NAO contact, but there should be at least two or three other contacts within the NAOs to ensure that information is being disseminated promptly and effectively when it is sent out from the Secretariat. Prof. Tatsumi supported this recommendation but also suggested that the NAOs themselves have internal problems that sometimes hamper the movement of vital information within their organizations.

15. PUBLICATIONS

15.1 STATUS REPORT ON *PURE AND APPLIED CHEMISTRY*

Dr. Renner noted that the Agenda Book contained an updated financial summary for *PAC*. He reported that *PAC* continues to be a significant source of income for IUPAC, although the total number of institutional subscribers declined again in the current year. The number of print subscriptions to *PAC* continued to decline, while the number of electronic-only subscriptions showed an increase. The net result is a decline in operating revenue from subscription income, as reported above in Agenda Item 13.1.

15.2 STATUS REPORT ON *CHEMISTRY INTERNATIONAL*

Dr. Renner noted that the Agenda Book contained an updated financial summary for *CI*. He reported that *CI* continues to be a net expense for IUPAC in that income generated from its production and distribution comes only from Affiliate Membership fees and a few outside subscriptions (about USD 27K in total), while the total cost of production was greater than USD 180K during 2011.

15.3 BOOK PUBLICATION AND BOOK SALES

Dr. Renner reported that book sales during the calendar year 2011 were quite low with revenue amounting to only a few hundred US dollars. These

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sales are not a major contributor to IUPAC's operating cash flow. Royalties from publication of books amounted to a few thousand US dollars in 2011.

16. CURRENT PROJECTS

16.1 REPORT FROM PROJECT COMMITTEE

During 2011, Prof. Powell reported that the Project Committee had reviewed and approved 7 projects that sought funding from the Project Reserve. This was a comparatively small number and possibly reflected the pre-occupation of Divisions and Standing Committees with activities related to IYC. Consistent with this hypothesis, three of the proposals were received for review in the second half of December. Commitments for these 7 projects totaled USD 51,665; these were supplemented by commitments of USD 31,195 from the proposing Divisions and Standing Committees.

The total commitments from the Project Reserve for the biennium were USD 101,165 in support of 19 projects, representing 92% of available funds. In 2011 there were no requests to the Project Committee for funding from the Strategic Opportunities Fund (SOF), although there were significant grants towards IYC-related activities during the first half of the biennium (USD 11,000 for the Global Water Experiment for IYC, and USD 45,120 for the IYC Management Committee, and Subcommittee, meetings).

The Project Committee met on Friday afternoon, 13 April 2012. Prof. Powell mentioned that the Project Committee had asked several questions during their private meeting on Friday. Is the project system closed to IUPAC or open to chemists worldwide. Dr. Renner responded that any legitimate scientist may submit a proposal for a IUPAC project and that instructions for doing so are available on the IUPAC website. He also asked "How accessible is the project system?" Dr. Renner replied that access to people outside of IUPAC is limited to the website pages dedicated to the project system. People inside of IUPAC may access more detailed accounts of the project system by contacting the Project Program Manager, Dr. Fabienne Meyers, or the Secretariat. Finally, Dr. Powell asked what percentage of outside proposals is actually approved and funded. Dr. Renner replied that he did not have this information at hand, but that Dr. Meyers could be contacted to discuss this matter.

16.2 PROJECT COMMITMENTS AND EXPENSE, PROJECT APPROVALS

Dr. Renner stated that three reports routinely provided to Division Presidents, Standing Committee Chairs, Task Group Chairs, and the IUPAC Officers have been included in the Agenda Book for the information of the Bureau. There was no additional discussion.

17. REPORT FROM EVALUATION COMMITTEE

Prof. Penczek, Chair of the Evaluation Committee, discussed his attempts to improve the practical impact of the project evaluation system. The purpose of the

work of the Evaluation Committee is to assess the benefits that IUPAC derives from its project system. This includes both tangible and intangible benefits. He presented enlightening statistical data that demonstrated a variety of trends gleaned from an inspection of projects completed to date. These trends included a distribution of Task Group Chairs by NAO country, indicating to some extent the areas within IUPAC where the greatest effort is being expended on project activities.

Prof. Penczek suggested that when IUPAC representatives speak at sponsored meetings and conferences, they should speak about IUPAC in general and about the IUPAC project system in particular to encourage greater meaningful participation.

In the end, he concluded that the project evaluation process needs to be revamped and streamlined. It should not be a burden to implement but a helpful tool to measure the value received from monetary investments in projects. Division Presidents and Standing Committee Chairs should be responsible for determining when a project is completed and ready for evaluation. Prof. Chiu suggested that project evaluation should be an up-and-down process interlinking the Task Groups, the Division Presidents and Committee Chairs, and the Evaluation Committee in an interactive chain.

The Evaluation Committee met on Friday afternoon, 13 April 2012.

18. DISCOVERY AND NAMING OF NEW ELEMENTS

Prof. Corish reported that a Provisional Recommendation has been published for the proposed names and symbols for new elements with atomic numbers 114 and 116. After a public comment period of five months (ending on 1 May 2012) the Final Recommendation will be issued and the elements will be formally named by approval of IUPAC's Division II, responsible for such actions. The original evaluation and verification of claims for discovery of these two elements were completed by a Joint Working Group composed of members from IUPAC and its sister union, the International Union of Pure and Applied Physics (IUPAP). At the closing ceremony for the IYC in Brussels, Belgium, then IUPAC President Moreau announced that the proposed names and symbols for the new elements were flerovium (Fl) for element 114 and livermorium (Lv) for element 116.

19. FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS

Dr. Renner commented that there were no significant changes in the operation of the Fellows program in 2011. The current number of Fellows in our database is 1522. Each new Fellow receives a letter signed by the President indicating his/her new status.

The Affiliate Membership Program (AMP) has remained relatively steady with regard to membership numbers over the past year. There are currently 2371 paid Affiliates, 671 from other chemical societies and 1700 from the ACS. In addition, there are 32 individual paid Affiliates, 82 individual sponsored Affiliates, and 220 sponsored Affiliates through chemical societies. The grand total is 2740.

20. STATUS REPORT ON IUPAC SECRETARIAT

Dr. Renner reported that the IUPAC Secretariat continues to operate with six staff members, five based in Research Triangle Park, North Carolina, and one based in Boston, Massachusetts. At the last meeting of the Executive Committee, held in Research Triangle Park, NC, 15-16 October 2011, the Executive Director recommended that a new Deputy Executive Director position be created and that the successful candidate be hired to work in the Secretariat. In addition to assisting the Executive Director with the day-to-day operations of the Secretariat, a key responsibility of this new position would be to identify and capture new sources of operating revenue and to monetize IUPAC's intellectual property through appropriate copyright and trademark activities. The Executive Committee approved this proposal and the position was advertised at the end of 2011. Seventeen candidates responded with full applications. The selection committee (Secretary General René Deplanque, Treasurer John Corish, and Executive Director Terry Renner) screened the applications and chose three for personal interviews. The interviews were conducted at the Secretariat in mid-January 2012. From this process a leading candidate was chosen and a formal offer was made. Unfortunately, this candidate declined our offer of the new Deputy Executive Director position. Upon re-examining the other two candidates, the decision was taken not to offer the position to either of them. Executive Director Terry Renner has since announced his intention to retire from his post at the end of the year 2012. Therefore, his position is currently advertised to find a suitable replacement. This advertisement will expire on 30 April 2012, at which time candidates will be screened by the officers and those selected for personal interviews will be determined. It is anticipated that the interview process will take place during the month of June at the Secretariat. Dr. Renner has agreed to stay through the end of calendar year 2012 in order to allow a reasonable period of overlap with the new Executive Director to make the transition as smooth as possible.

21. IUPAC WEBSITE RENOVATION

Prof. Deplanque presented a briefly summary of progress on the IUPAC website renovation. The new website has been the production site for several months. Although some problems still exist and bugs continue to appear from time to time, Bryan Pearson of the Secretariat continues to work with staff at FIZ-Chemie and with website users to identify and repair these problems and bugs. One of the major issues to be remedied is the need to automate the updating of the website with a more reliable communication between the server in Germany and the database on the server at the Secretariat. Communication errors between the servers have been more frequent than is acceptable. On the positive side, four or five separate servers have now been combined into one consistent server for the IUPAC website. On the negative side, more development and debugging is still required to reach desired performance.

22. IUPAC PRIZES FOR YOUNG SCIENTISTS 2012

Dr. Renner announced that applications for the 2012 prizes have been received from 41 applicants in 19 different NAO countries and the quality of the research presented was again very high. The number of applicants for this year is 6 fewer than in 2011. The Selection Committee members are currently reviewing the applications to determine the prize winners for this year's competition.

23. CONFERENCES AND SYMPOSIA

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

Prof. Powell noted that the Project Committee reviews proposals from Divisions and Standing Committees for financial support of conferences in scientifically emerging regions (FSC-SER) and conferences that promote new directions in chemistry (FSC-NDC). The biennial budget for these two conference categories is \$65,000.

In 2011 the Committee completed an evaluation and revision of the Application Forms and Guidelines for the FSC-NDC and FSC-SER programs. These revised forms have been in use since April 2011. The revisions have been successful and align the applications much more closely with the Project Proposal Form.

In 2011 only 5 applications were received; four were successful in achieving funding on the FSC-SER program (total of \$24,000). This contrasts with 7 successful applications in 2010. Across the biennium only one of the 11 successful applications was for funding under the FSC-NDC program (although 4 were declined). Through communications with Divisions/Standing Committees, revision of Guidelines and revision of the application form the Project Committee works to improve awareness of the FSC-NDC program and how it can support symposia or workshops within a conference that push the boundaries into "new directions in chemistry" (e.g. in the form of new frontiers or new interdisciplinary approaches). Across the biennium total funds distributed from the FSC program were \$61,000 (94% of available funds).

23.2 RATIFICATION OF SPONSORSHIP OF SYMPOSIA

Dr. Renner requested that the Bureau approve the conference sponsorships that had successfully passed through the evaluation and acceptance process since the meeting of the Executive Committee in Research Triangle Park, North Carolina (15-16 October 2011), as listed in the Agenda Book. Prof. Reichmanis moved that the list of sponsored conferences be ratified by the Bureau and the motion was seconded by Prof. García-Martínez. The motion passed unanimously without additional discussion.

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24. COMMITTEE ON CHEMISTRY RESEARCH FUNDING (CCRF)

Prof. Moreau stated that, as Past President of IUPAC and Chair of the CCRF, she planned to continue the work of this committee. She asked that the Executive Director confirm which members of the Bureau would also serve on the CCRF. Dr. Renner verified that Prof. Tarasova, Prof. Brett and Dr. McConnell were duly approved members of the committee. Prof. Moreau asked the Bureau to contribute new ideas for projects to be led by the CCRF. She described briefly the success of the previous worldwide polymer call and suggested that a new call in the area of chemistry for global sustainability would be appropriate for the CCRF's next formal activity.

25. DATES AND PLACE OF NEXT BUREAU MEETING

At the time of this meeting a location for the meeting of the IUPAC Bureau in 2013 has not been identified. Uncertain financial conditions around the world make it impossible for some NAOs to consider hosting this meeting. Prof. García-Martínez offered to contact his NAO in Spain to determine their ability to host the 2013 meeting. In the meantime, the Secretariat will contact other NAO representatives to determine willingness to host this annual meeting. Target dates are mid- to late-April 2012.

26. ANY OTHER BUSINESS

Prof. Tatsumi asked if there was any other business. When there were no replies, he adjourned the meeting and thanked all of the Bureau members for their participation and support.