

# International Union of Pure and Applied Chemistry

97th MEETING OF BUREAU  
Busan, Korea, 11 &-14 August 2015

## MINUTES

Attendees: Dr. Mark Cesa (Chair), Prof. Russell J. Boyd, Prof. Christopher Brett, Prof. Greg Russell (in for Prof. Michael Buback), Prof. Tavarekere K. Chandrashekar, Prof. Mei-Hung Chiu, Prof. John Corish, Prof. Javier Garcia-Martinez, Prof. Mary Garson, Prof. Richard Hartshorn, Dr. Karl-Heinz Hellwich, Prof. D. Brynn Hibbert, Mr. Colin Humphris, Ms. Bonnie Lawlor, Prof. Roberto Marquardt, Dr. Laura McConnell, Prof. Christopher K. Ober, Dr. Thomas J. Perun, Prof. Jan Reedijk, Prof. Natalia Tarasova, Prof. Kazuyuki Tatsumi, Prof. Ron Weir, Dr. Bernard West, Prof. Kaoru Yamanouchi, Prof. Qi-Feng Zhou, Prof. Leiv Sydnnes, Prof. Doug Templeton, Dr. Lynn Soby

Absentee: Prof. Michael Buback, Prof. Ram Lamba

Secretary: Dr. Fabienne Meyers

## Tuesday, 11 August (starting at 14:00)

### 1. INTRODUCTORY REMARKS AND WELCOME

IUPAC President Dr. Cesa welcomed all participants and thanked our Korean hosts.

Dr. Cesa noted that the scheduling of a Bureau meeting within the General Assembly has been reinstated (last instance was in Glasgow in 2009). This was to address issues that are specifically relevant to Council. The Bureau last met virtually (i.e. conference call via GoToMeeting) on 27 May 2015.

Dr. Cesa informed the Bureau that at its meeting on Friday August 14, on the day following the Council, the Bureau would hold an election to select three of the Elected Members as members of the Executive Committee. Dr. Cesa invited members to consider who will be good candidates for such position, acknowledging that prior experience with the Union would be beneficial.

In addition to the current Officers, the EC currently includes Colin Humphris (also acting Secretary General), Prof. Qi-Feng Zhou, and Prof. Ram Lamba.

Dr. Cesa noted that in the registration hall of the Congress, the Korean Chemical Society has put up a booth in support of Nepal.

### 2. FINALIZATION OF AGENDA

Dr. Cesa indicated that most items to be discussed by the Bureau were in the Council Agenda and therefore background materials could be found in the Council Agenda Book.

No additional items were requested and the agenda was approved as proposed.

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**3. MINUTES OF 95<sup>TH</sup> AND 96<sup>TH</sup> MEETING OF BUREAU**

The minutes of the 95th Bureau meeting held in Coimbra, in April 2014 were circulated by email and via the bulletin board on 3 Sep 2014, and last corrections requested in May 2015.

The Bureau also met by GoToMeeting on 27 May for a brief meeting; the draft of the minutes was circulated by email on 13 July 2015, and included in the Council Agenda Book.

*Decision: The Bureau is asked to approve the Minutes of the 95th (Coimbra) and 96th (GoToMeeting) meetings.*

Dr. Cesa asked if there were any comments. As there were no comments, the minutes of the 95th and 96th meetings of the Bureau were approved by show of hands (unanimous).

For reference the Bureau minutes since 1958 are available online from the Bureau page <http://www.iupac.org/body/010>

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

There were no matters arising.

**4. MINUTES OF 153<sup>RD</sup> MEETING OF EXECUTIVE COMMITTEE**

**4.1 RECEIPT OF MINUTES BY BUREAU**

The Executive Committee met briefly in Coimbra, Portugal, in April 2014 directly following the Bureau; minutes for that 152nd meeting were issued. The EC met next in RTP, NC, USA, on 8-9 November 2014; the minutes of this 153<sup>rd</sup> meeting are included in the Council Agenda Book.

The minutes of the 153<sup>rd</sup> EC meeting were received by Bureau on 27 May 2015.

There were no comments or matters arising.

For reference the EC minutes since 1999 are available online from the EC page <http://www.iupac.org/body/020>

**5. MINUTES OF 47<sup>TH</sup> MEETING OF THE COUNCIL**

The final minutes of the 47<sup>th</sup> Council Meeting are included in the Council Agenda Book.

There were no comments or observations.

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**6. ACTION ITEMS FROM PREVIOUS MEETINGS**

The Bureau was asked to review the Action Items in the Bureau backing papers and inform the Secretariat of any changes in status. The format of the listing has been revised and relevant items are recalled in this Detailed Agenda under the corresponding item.

Action Items not specifically covered in the agenda for noting:

*[93BU03] Establish alternative NAOs contacts list: **Secretariat** (same as [92BU02]) in progress; info collected by Moreau shared with Cesa. Transferred to Secretariat (as of 153 EC)*

*[93BU16] Review speaker pack – all/Secretariat, (in progress)*

*[93BU17] Review Past President ppt IUPAC hint-inspired presentation – all (in progress)*

*[153EC04] IUPAC as a Corporate entity in USA to be finalised as necessary **LS***

*[153EC21] Brazil GA July 3rd to July 11th dates need to be approved by Council. Write to Brazil to confirm that these are the dates, indicating the need for approval of Bureau, and requesting confirmation of their acceptance of conditions in the original invitation letter **LS**. Circulate confirmed dates to Bureau for approval **LS** (in progress – item Council Agenda)*

*[153EC32] Information gathering on ON and OFF representatives with regards related to organizations (on-going **FM** with **LS/SC**)*

*[153EC36] Set up a Bureau Committee to evaluate value that we get from ICSU, how to get best value from membership and the justification of remaining members. **MC/Secretariat***

*[153EC45] IUPAC Africa fund for new members - Sinopec need invitation from IUPAC to comply with Chinese state laws. Also consider the possibility for other countries/donors to join fund. **Action CH/MC to craft response** (Outstanding)*

*[153EC46] Sinopec proposal on collaborative research into clean energy/green chemistry building on the PhosAgro model **MC/CH to respond**. (Outstanding)*

Leiv Sydnes asked what progress has been made ref 153EC36. In principle, ICSU and IUPAC share the same values. Mark Cesa confirmed that a Bureau committee has yet to be set up but the issue will be looked at promptly now that the Strategic Review was completed.

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**7. REPORT OF THE PRESIDENT**

The State of the Union report and a report on the IUPAC Strategy Review were included in the Council Agenda Book. This item was to enable clarification of any matters prior to the Council meeting.

*\*[96BU04] To provide comments and suggestions on the mission statement, vision, core values, goals and objectives by 15th June 2015; **Bureau members***

Mark Cesa referred to item 7.1 and 7.2 of the Council Agenda Book and asked if there were any comments. He noted that the report IUPAC Strategy Review had been shared with all NAOs and that only 5 responses had been received.

Leiv Sydnes asked how we could improve contact and engagement of the NAOs. He felt that this was an important question for Council and that the community of NAOs should be more effectively re-engaged.

Colin Humphris agreed with the need to improve the relationships with NAOs and that the Union should brief Council on the steps it was taking.

**8. REPORT OF THE SECRETARY GENERAL**

The Secretary General report is included in the Council Agenda Book as item 9. Item to enable clarification of any matters prior to the Council meeting

*\* [151EC02] Establish a task group to provide recommendations on how the office shall work in collaboration with the Officers and EC, and how to exercise control and oversight of the budgets. Humphris, Corish, and Cesa will undertake the task. In addition, a member of the FC will be asked to participate.*

*\*[153EC01] Restructure QuickBooks from 1 January 2015 with data integrity.  
**LS***

*\*[153EC02] Recommendation to have a financial controller approved. Proceed with recruitment of financial controller **LS***

*\*[153EC03] Complete lease and office move **LS***

Colin Humphris emphasized the need to have good accounting as a priority, especially when money was short. He noted that the upgrade of the accounting system has been completed. Under Lynn Soby's leadership, the Office was in new accommodation more appropriate to our needs for an international center. Costs were comparable to the old office.

Mark Cesa noted that with the pressing office restructuring complete the Executive Director will have time to focus on longer term priorities.

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Richard Harshorn asked for a vote of thanks for the 'Acting' Secretary General. The Bureau concurred.

Leiv Sydnes asked about the length of the new lease for the Office, and why USA had been the only option considered. He felt that the NAOs should be informed of the reasoning.

Colin Humphris confirmed that the lease was for seven years. The Secretariat remained in the USA to ensure continuity following a difficult period of change.

Mark Cesa asked that if others considered alternative venues as more appropriate that they should inform the Executive Director.

Lynn Soby welcomed feedback and Colin Humphris confirmed that if NAOs are interested in hosting the Secretariat in the future, they should make interest known in good time.

**9. VICE PRESIDENT'S CRITICAL ASSESSMENT**

**PROF. TARASOVA**

The Vice President's report is included in the Council Agenda Book as item 8. Item to enable clarification of any matters prior to the Council meeting.

*\*[96BU05] To provide comments and feedback to Natalia Tarasova on her Vice President's Critical Assessment prior to the General Assembly.*

Natalia Tarasova thanked Jan Reedijk for his feedback received after the previous Bureau; she had hoped for more comments.

Her VPCA was further developed following the draft already outlined in 2014. The VPCA focuses on the project system and how it can serve the Union to address major goals and key issues that are relevant to global challenges (including large and interdisciplinary projects); on sharing good practices among NAOs; on cultivating a rich diversity among members (by gender, age, regions); on recognizing the value of education and ethic issues (ref to OPCW and management of chemicals, connection with UNESCO, the Chemistry Olympiads, and understanding the new paradigms derived from the Sustainable Developments Goals); and on anticipating problems to avoid catastrophe.

Natalia Tarasova argued that IUPAC should draw on its intrinsic strengths to make meaningful contributions to international projects that address the needs of the chemistry community and the world at large and with a focus on sustainable development.

The opportunity of the Centenary (iupac100) was reviewed separately (see item 12).

Leiv Sydnes asked how the UNESCO network could be better used.

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Natalia Tarasova cited as an example a possible repeat of a global experiment during the centenary for which the UNESCO network would be invaluable, as during IYC.

John Corish also mentioned that the PhosAgro project and the UNESCO contribution provide a good model to explore relations/joint activities with other organizations or companies.

Karl-Heinz Hellwich indicated that he has had the opportunity to talk about IUPAC in high schools and that these presentations are welcome with equal enthusiasm both from the teacher and the students. He supports IUPAC involvement in the Chemistry Olympiad.

Natalia Tarasova indicated that a small budget has been reintroduced in the proposed 2016-17 budget to support the Chemistry Olympiads. The 2016 event will be held in Pakistan (at the International Centre for Chemical and Biological Sciences (ICCBS), Karachi University, 20-29 July 2016) and the 2019 will be held in Paris and in sync with IUPAC 100!

Mei-Hung Chiu noted that the IUPAC representation at the Olympiads is very valuable. She felt that IChO would welcome practical input from IUPAC.

## 10. FINANCIAL MATTERS

### 10.1 REPORT OF TREASURER

John Corish referred to his report and the information included in the Council agenda book. He focused his review on challenges of National Subscriptions. The current formula for allocating National Subscriptions is based on CEFIC data of the relative size of each country's chemical industry averaged over 5 years. NAOs have had the option to elect to pay in either USD or their national currency. To calculate the exchange rates an average over the 4 quarters of the year prior to the General Assembly was used. The approach was an attempt to smooth variations. The model failed however when used to calculate the national subscriptions for the upcoming biennium (2016-17). A significant number of countries were assigned very large and unacceptable percentage increases in their subscriptions. A proposal to share the current financial burdens equally was therefore to be presented to Council that set a 5% per year increase for all countries in their chosen currency for payment. If approved, this would apply to all members for a 2 year interim period only. During the next biennium the Treasurer indicated that a new model would be developed with inputs from the NAOs.

Leiv Sydnnes indicated his support and thought that it is a good and equitable proposal.

Mark Cesa mentioned that other organizations are looking at similar subscription problems. Judging the relative size of a national chemistry enterprise is complex.

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Colin Humphris recognized that an important value of the data set that IUPAC has been using is that it is both objective and available from an independent source. Identifying a new model will be challenging.

Kaz Tatsumi recognized that the current formula has failed to buffer the currency fluctuations properly.

#### 10.2 REPORT OF FINANCE COMMITTEE

The Finance Committee met on 16 February 2015; the meeting minutes are included in the Council Agenda Book and were noted by Bureau.

*\*[153EC10] Treasurer and Executive Director to implement the Finance Committee portfolio management recommendation immediately. Next steps; inform BB&T, develop policy statement for FC, implement SC/LS*

*\*[153EC11] Revisit Terms of Reference for Finance Committee given changes to investment portfolio management and policy statement in 2015 SC/LS*

The Treasurer confirmed that the actions above have been implemented.

#### 10.3 STATEMENT OF ACCOUNTS FOR 2013 AND 2014

The Audited Financial Statements for 2013 and 2014 were included in the Council Agenda Book and noted by Bureau.

#### 10.4 REVIEW OF BUDGETS FOR 2016-17

The Proposal for National Subscriptions and their calculation was included in the Council Agenda Book and accepted by Bureau as per the agreed action:

*\* [96BU02] To develop an alternative, more equitable, interim proposal for review by Bureau prior to submission to Council; **Treasurer with the Officers***

Support to IChO will be considered during the next Biennium.

*\*[153EC41] Reconsider financial support to IChO as part of the next biennium budget preparation **LS/SC***

#### 10.5 NAO AND ANAO PAYMENT STATUS

Bureau noted that five National Adhering Organizations were in arrears for their 2014 National Subscription payments (Argentina, Belgium, Cuba, Ethiopia, and Tunisia) as documented in the Council Agenda book (item 19.4) of 16 July 2015.

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Lynn Soby confirmed that Jordan has now paid and is up to date.

Dr Soby also noted that two Associated National Adhering Organizations were in arrears for greater than 24 months. The 2013 and 2014 ANAO payments have not been received from Indonesia and Venezuela.

Options were still under consideration for Cuba and its outstanding subscriptions.

*\*[153EC09] Evaluate payment route/alternatives for Cuba. Checking with US Treasury and North Carolina Department of Commerce (in progress/State Department and Treasury contacted)*

**11. APPLICATIONS FOR NATIONAL ADHERING ORGANIZATION STATUS**

The applications previously approved by Bureau for Council were noted:

11.1 COSTA RICA (NAO) – NATIONAL NANOTECHNOLOGY LABORATORY-HIGH TECHNOLOGY NATIONAL CENTER

11.2 COLOMBIA (NAO) - SOCIEDAD COLOMBIANA DE CIENCIAS QUÍMICAS

11.3 GHANA (ANAO) - GHANA INSTITUTE FOR PURE AND APPLIED CHEMISTRY

11.4 KAZAKHSTAN (NAO) – KAZAKH NATIONAL ACADEMY OF SCIENCE

11.5 SENEGAL (NAO) - COMITÉ SÉNÉGALAIS POUR LA CHIMIE

Lynn Soby confirmed that Costa Rica and Colombia have not paid yet and that their applications would lapse if no payments were made by 31<sup>st</sup> December 2015.

11.6 READMISSION OF NATIONAL ADHERING ORGANIZATIONS

The proposed process for readmission of NAOs who have ceased membership was approved and the positions of Spain and Bangladesh were considered.

*\* [96BU01] To develop appropriate policy guidelines and review the relevant Statutes in relation to NAO cessation and (re)admission; EC*

Dr Soby confirmed that the organizations that form the Spanish IUPAC Committee and will represent Spain as the National Adhering Organization in IUPAC are Real Sociedad Española de Química (RSEQ) Federación Empresarial de la Industria Química Española (FEIQUE) Instituto de Tecnología Química (ITQ) Institut Català d'Investigació Química (ICIQ) and coordinated by Fundación Española para la Ciencia y la Tecnología (FECYT).



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This newly organized Spanish IUPAC committee had filed all the necessary documents required: the readmission application, the formal notification and support letter from the ministry of economics and competitiveness which outlines a new process for ensuring and coordinating efforts for support. The Spanish IUPAC committee had also paid the outstanding national subscriptions for 2013, 2014 and 2015 as of 24 July 2015 and confirmed by the executive director.

Dr Soby also confirmed that the Bangladesh Chemical Society BCS had paid their national subscriptions in arrears for 2013, 2014 and 2015 and had submitted a readmission application and the required supporting documents.

In the absence of any questions Bureau recommended readmission of Spain and Bangladesh to Council.

Greg Russell asked if Mexico was currently in the process of applying as the Polymer Division (Div IV) was considering a proposal for the major Macro conference to be held there. Kaz Tatsumi confirmed that Mexico has yet to apply to become an NAO and that an IUPAC conference should not therefore be held there. He recalled the case for the recent ICCS in July 2014 that was held in Singapore and in that instance, the endorsement has not been granted because Singapore was not an NAO.

Leiv Sydnnes concurred and felt that the prospect for such an IUPAC conference would be the driving force for the country to become member.

It was noted that Crystallographers do the reverse: they encourage events where the country is not member (i.e. their NAO equivalent) and work from the initial conference to ensure a sustainable participation.

## 12. 2019 IUPAC CENTENARY

*\* [153EC24] Invite Regional chemistry bodies (e.g. EuCheMS etc.) to consider centenary activities*

*\* [153EC25] to contact ICCA to open dialogue about Centenary (in progress – Cefic Secretary General attending the General Assembly)*

*\*[153EC22] Find out about various prizes, the application process, rationale for IUPAC eligibility and next steps for 2019*

*\*[153EC23] Approach UNESCO to clarify the process by which the IUPAC Centenary would be included in the UNESCO 2019 calendar of memorial dates*

*\*[153EC26] Register IUPAC url's for Centenary and 2019: [www.IUPAC100.xxx](http://www.IUPAC100.xxx) and [www.IUPAC2019.XXX](http://www.IUPAC2019.XXX)*

## 97th MEETING OF BUREAU MINUTES

The IUPAC100 workgroup met on Saturday afternoon, 8 August 2015, and Natalia Tarasova chaired this 1st meeting of the Centenary Planning Steering Group (CPSG). Participants included Bonnie Lawlor, Chris Ober, Chris Brett, Russell Boyd, Javier Garcia-Martinez, Richard Hartshorn and Fabienne Meyers; Ram Lamba was absent in Busan and Laura McConnell had a conflict with another meeting.

The group considered the legacy of IYC and discussed the timeline for IUPAC100. A whitepaper clarifying the objectives and goals of the celebration will be drafted and shared various stakeholders, including NAOs. [ACTION 01]

One theme that is unique to IUPAC is the development of a common language for chemistry; this will be echoed in the whitepaper. This was very important for effective Intellectual Property registration a possible aspect to be celebrated.

An option to add IUPAC in the UNESCO Calendar of memorial dates will be pursued.

The whitepaper will also serve as a reference to initiate advertising and funds raising activities. An approach that will require involvement of the NAOs will be formulated.

Colin Humphris felt that the work of the steering group was timely. He pointed out that one of the lessons learnt from the IYC was the need for a dedicated project manager.

Javier Garcia Martinez stressed that CPSG sees the celebrations as an opportunity to engage with NAOs and the whitepaper will focus on clarifying one message and steering one momentum.

Mary Garson recalled the Women in Chemistry Networking breakfast activity that was initiated during IYC and mentioned that in some places, it has continued as a yearly activity.

The whitepaper shall be available by March 2016, in time for discussion at the next Bureau.

### 13. IUPAC WEB SITE

Progress on the website was described. The prototype demonstrated displayed a limited number of features to share the feel of what is being developed.

*\*[153EC07] Website demonstration to be ready for Busan GA*

*\*[153EC08] Develop portal for new members for website*

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\* [153EC39] Upgrade AIS process and implement move to "endorsement" (in progress/documents upgrades outstanding. To be completed as part of website upgrade)

Bonnie Lawlor explained that the task force proceeded with a survey last year and that a report had been shared with the EC.

The features viewed as most important for a new website were (i) ease of navigation, (ii) a clear image of what IUPAC is and does (relates to promote the image of chemistry), (iii) a space for more content and group workspace.

Lynn Soby displayed the prototype and highlighted the key features. She pointed out to the ability for members to upload/update/edit content.

The link to the prototype was shared (email Aug 11); it included a comment feature that everyone was welcome to use; these comments are automatically shared with the developers.

#### 14. PAC & CI TRANSITION TO DE GRUYTER

Colin Humphris reported that the transition in general has been manageable and positive, and that DeGruyter (DG) has been responsive to the specific needs of the journal. Issues continued to be worked out, and work relation is positive.

Karl-Heinz Hellwich indicated however that from his experience there have been difficulties, such as the multiple rounds of proofreading needed for the *Brief Guide to the Nomenclature of Inorganic Chemistry*.

#### 14.1 TRANSITION REPORT ON *PURE AND APPLIED CHEMISTRY* AND THE PAC DATABASE

Colin Humphris confirmed that reports and recommendations published in PAC continue to be free as soon as released, and so are all the archives after a year.

He explained that DG have started the development of a database of IUPAC Standards and Recommendations at their own risk. The database is built by extracting standard and recommendations from *PAC*, and therefore includes definitions of terms, standard values, procedures, rules for naming compounds, etc.

Karl-Heinz Hellwich indicated that such database could be problematic because IUPAC will have no control of the quality and hence cannot authorize the content.

Colin Humphris noted that the *PAC* Editorial Advisory Board met on Monday 10 August. At the EAB it was agreed to bring a recommendation to Bureau for

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IUPAC to sign the San Francisco declaration on Research Assessment (DORA; <http://www.ascb.org/dora/>).

Leiv Sydnnes confirmed that ICSU endorsed the declaration last year.

The Bureau supported the idea in principle and that this recommendation be passed on to the Council for approval.

14.2 TRANSITION REPORT ON *CHEMISTRY INTERNATIONAL* AND FUTURE  
OPTIONS

For *CI*, Bonnie Lawlor confirmed that the transition has been more challenging. *CI* is not a scholarly journal and editorial practices differ from DeGruyter's core competences. DeGruyter started in 2014 by replacing IUPAC copy editor with a contractor of their own. In 2015, they reorganized their internal workload and replaced that contractor by assigning *CI* copy editing to *PAC* managing editor.

While the relation is today stable, it is not providing the complementary fit necessary to develop *CI* print as we know it. *CI* online on DG website is also not that of a newsmagazine but simply similar to *PAC*.

Bonnie Lawlor indicated that DG had asked about IUPAC intentions for *CI*. She confirmed that a survey was underway to help identify what *CI* could and should be. Based on this, CPCDS will make recommendations in time for the next EC bearing in mind that any changes to the 2017 plan will need to be confirmed by Q1/2016. [ACTION 02]

14.3 BUSINESS PLAN 2016 AND 2017

Lynn Soby indicated DG confirmed strong sales for *PAC* for 2016. For *CI*, while it took a few months to sort out the subscriptions records, the numbers of paid versus free subscription are now stable, and that allows for better planning and forecast. The largest decrease is now that of the number of affiliates subscribing via ACS.

Javier Garcia asked how the new website could help with *CI*?

Bonnie Lawlor confirmed that CPCDS/*CI* task force will explore options of going digital first and the use the new website to flash features and provide an entry to *CI* online. She confirmed that based on the existing contract, 2016 will not be different than this year, but the year ahead can provide opportunities to test features and see how contents can be pushed to members/NAOs/fellows.

Colin Humphris also confirmed that the Affiliate Membership Program (AMP) should be reviewed; the AMP fee of USD 35 has not been reconsidered since at least 15 years. Access to *CI* is an important benefit.

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**15. CONFERENCES AND SYMPOSIA**

**15.1 FINANCIAL SUPPORT FOR CONFERENCES IN SCIENTIFICALLY  
EMERGING REGIONS (SER) AND ON NEW DIRECTIONS IN CHEMISTRY**

Doug Templeton indicated that the Project Committee is often challenged by the definition or lack definition for SER. The OECD list does not apply to the criteria of 'emerging region' when specifically applied to development on chemistry, and many developed countries are not OECD members by choice. The PC will be looking into alternative metrics. [ACTION 03]

The list of financially supported conferences was enclosed in the PC chair report.

**15.2 RATIFICATION OF ENDORSEMENT OF SYMPOSIA**

Mark Cesa referred to the list shared in advance of the meeting; there was no questions/comments and the Bureau approved the sponsorship/endorsement of the events listed in the report included in the Agenda Book.

Mark Cesa closed the meeting and confirmed that Friday follow-up meeting will start at 8:30 with the election of three members to make up the Executive Committee.

**Friday 14<sup>th</sup> August (starting at 08.30)**

The Bureau reconvened the day after the Council meeting.

Additional attendees: Hemda Garelick (newly elected bureau member EM, UK), Mustafa Sozbilir (incoming CCE chair, Turkey), Petr Fedotov (incoming DP6, Russia), Kew-Ho Lee (newly elected bureau member EM, Korea). No absentees beyond those listed on p. 1.

**16. ELECTION OF BUREAU REPRESENTATIVES TO THE EXECUTIVE COMMITTEE**

Colin Humphris explained that in addition to the 5 officers (President, Vice President, Past President, Treasurer, and Secretary General), the Executive Committee (EC) includes 3 elected members (EM) of Bureau. He asked for nominations and the following were announced:

- Chris Brett (Portugal) – just reelected for a second 4-year term on the Bureau; previously member/President of Division I
- Mei Hung Chiu (China/Taipei) – just elected for a 1st term; previously CCE chair
- Russell Boyd (Canada) – currently in his 1st term as EM; member of the PC
- Chris Ober (USA) - currently in his 1st term as an elected Bureau member; previously member/President of Division IV
- Kaoru Yamanouchi (Japan) - currently in his 1st term as EM; previously member/President of Division I

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The Bureau was asked to vote for 3.

The ballots were counted and Brett, Chiu, and Yamanouchi were elected.

**17. MATTERS ARISING FROM COUNCIL AND THEIR RESOLUTION**

*\*[96BU06] On completion of the 2015 election process, to audit the process so that the Union can build on the experience for 2017; Executive Director (pending)*

Colin Humphris confirmed the Division elections have been completed in advance of the Council following a timeline agreed upon last year. Being new, the process will need to be reviewed as further improvements should be implemented.

Roberto Marquardt indicated that Div I also has membership for Commission I.1. Details will be shared with the secretariat.

Similarly, Commission II.1 and JCBN would be finalized.

*\* [96BU03] To lead a review of the basis of subscription calculations for future biennia*

Mark Cesa confirmed that a task force will be established to carry out the task. The task force should include the Executive Director (chair), the Treasurer, the incoming Treasurer, a member of the Finance Committee (suggested by FC chair), plus two or three members from NAOs, preferably one from small NAO, one from medium, one from large NAO. NAO representatives should be familiar with the current process and allocation. The task force will be in place by the end of the year. [ACTION 04]

John Corish mentioned that it will be important for the study to consider creatively new objective measures of the relative importance of chemistry in the different countries and a satisfactory method to handle currency fluctuations.

Jan Reedijk asked that the Bureau approve the release from Commission II.1 that was not presented at Council. (see item 35 below)

Jan Reedijk also asked that endorsement of the San Francisco Declaration be reviewed since it has not been presented at Council (see earlier 14.1 and item 35 below)

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

The Division Presidents and Standing Committee Chairs met on Tuesday morning, 11 August 2015.

Laura McConnell chaired the meeting of the DPs. Jan Reedijk will be the next chair.

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The group considered the suitability of the GA schedule and in particular the cross divisional meetings. The cross divisional meetings were viewed as fruitful, yet the attendance was mixed.

Richard Hartshorn suggested that may be a preset agenda or theme could help to focus the discussions.

Lynn Soby suggested that in the future there might be more options to consider that take advantages of online tools.

Participation of National Representatives during the GA was also an issue. Several Divisions had difficulty communicating with NAOs; especially obtaining nominations. NAOs need to better understand the opportunity provided by NR participation and also better appreciate that a NR is often a stepping-stone to become Associate Member.

The DPs reviewed the issues of book projects and spoke of the need to eventually have an additional section in the project proposal form to account for a review of contract and the scientific peer review. The DPs are inclined to reject proposals that already have book contract in place.

John Corish confirmed that only the Officers, not the Divisions, could sign a contract that has any financial decision/commitment with a commercial publisher.

After the scientific assessment and recommendation by the Division(s), a negotiation with the publisher should take place between the Executive Director and the publisher, and that before the project is finally approved and the financial commitments made from the budget.

The approval letter will also be therefore a confirmation for the DPs that the Secretariat has finalized a suitable contract.

The DPs also addressed issues related web projects that in the future, will need to 'fit in' the main site development. The Task Group Chair will need to recognize that the ultimate deliverable is to be integrated within the main server.

## **19. REPORT FROM THE MEMBERSHIP RELATIONS COMMITTEE**

The MRC met on Tuesday morning, 11 August 2015.

*\* [153EC30] Develop a value proposition for IUPAC as tool to retain existing NAOs. What is IUPAC worth to different countries – general and country specific elements; supporting existing NAOs action for MRC, Secretariat to provide ideas for development of the value proposition and a template. EC members to seek out past presentations/relevant information. Initiate a project on NAO relationships.*

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Kaz Tatsumi indicated that the group has considered various activities that would result in better engagement of the NAOs.

First, the need to provide better feedback to the NAOs was highlighted. The MRC recommended that the NAOs be informed about new projects, and in particular the projects that are lead by a TGC from that NAO, and similarly that the relevant NAO be informed of any conferences endorsed to take place in its country.

MRC will need to broaden its remit for the next biennium to consider not only the recruitment of new NAOs but also the retention of existing members.

**20. REPORT FROM PROJECT COMMITTEE**

The PC met on Tuesday morning, 11 August 2015 and Doug Templeton outlined the discussions briefly focusing on the issues related to the one-year deadline associated with financial support for conferences (FSC) and funding of meetings as part of ongoing series.

The PC will consider FSC submissions as long as the applications were clearly being worked on within IUPAC during the one year period. The endorsing body (DP) may be asked to justify late submission.

The committee questioned its role in funding of meetings in an ongoing series as the PC sees the Division as 'owner'. The PC should focus on interdivisional initiatives.

**21. REPORT FROM EVALUATION COMMITTEE**

The EvC met on Tuesday morning, 11 August 2015.

The Evaluation Committee has the overall task of reviewing the project portfolio and setting mechanisms to enable review of the vibrancy of the project system. The terms of reference for the Committee were reviewed as they were impractical in use.

Revised terms of reference were prepared, endorsed by Bureau and approved by Council, (see Item 4 from the May 2015 Go-to-meeting, and Item 24.2 from the Council Agenda papers).

**22. COMMITTEE ON CHEMISTRY RESEARCH FUNDING**

**PROF. TATSUMI**

*\*[153EC34] Establish process to replace the current secretary of CCRF. KT to review with Markus Behnke as lead into 2016*

*> Laura McConnell took the lead to organize a meeting in Busan*

Kaz Tatsumi confirmed that CCRF met during the Assembly. Markus Behnke (German Research Foundation) had stepped down as secretary but fortunately Laura McConnell had stepped in and organized the meeting.

In addition to Chris Brett and Chris Ober (both members of the Bureau), the following participants were present:



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Suk-Wah Tam-Chang – National Science Foundation, USA  
G. Yang – Univ. of Chinese Academy of Sciences, Chinese Chemical Society  
Zhigang Shuai – Tsinghua University, Chinese Chemical Society  
George Horvai – Hungarian Academy of Science  
May Copsey – Royal Society of Chemistry, UK  
M. Van Sisseren – Royal Netherlands Chemical Society/Young Observer  
Sidney Riberio – Sao Paulo State Funding Agency (FAPESP)  
Alexandre Roccoatto - Sao Paulo State Funding Agency (FAPESP)  
Bradley Miller & Steven Hill – American Chemical Society

The committee agreed to coordinate an initiative with CS3, the Chemical Sciences and Society program hosted by USA, Germany, China, Japan and UK, and have the subject of the CCRF call inline with CS3 priorities which include water, health and the environment; detection; treatment; and recovery of materials from wastewater.

CS3 will meet in September 2015 in Leipzig, Germany, and a draft report of this meeting will be available by the end of 2015. The following timeline for the next call was then anticipated:

Fall 2015 to Summer 2016 – Solicit funding agency participation  
June/July 2016 – Finalize agreement of participating agencies  
Winter 2016 – Call for Letters of Intent  
Early 2017 – Full Proposals Received  
August 2017 – Review panel convenes at IUPAC GA in Brazil for final selection of funded proposals  
August 2019 – Symposium of funded groups at IUPAC GA in Paris

The committee actions list from their meeting includes the following:

- Develop a formal letter to CS3 leaders to initiate this collaboration
- Work with IUPAC Secretariat to prepare for hiring of Call Manager via short term contract with NSF
- NSF has funded this position in the past, but would appreciate contributions from other funding agencies
- This would mean setting up an account within IUPAC where funds could be transferred from agencies
- Update contact information for funding agencies
- Begin to make contacts with agencies to solicit more participants
- Hold GoToMeeting event after CS3 as follow up

Chris Brett questioned why IUPAC was involved given that during the second CCRF call, the pool of countries was so small. In reply, Chris Ober argued that the program provided good experience and opportunities to share best practices among funding agencies. Leiv Sydnnes indicated that if Water was to be a topic, CHEMRAWN might have an interest.

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**23. REPORTS FROM DIVISIONS AND STANDING COMMITTEES**

This item was to cover any matters arising from the reports to Council.

Karl-Heinz Hellwich (DP8) mentioned that he received several requests for the translation of the *Brief Guide to the Nomenclature of Inorganic Chemistry* that he presented at Council and encouraged Bureau members to initiate further translations.

Leiv Sydnes mentioned that CHEMRAWN needs to work more closely with the Divisions and will look at how to establish a better “interface” to establish collaborative projects.

**24. WORLD CHEMISTRY LEADERSHIP MEETING (WCLM)**

Laura McConnell briefly summarized what she presented at Council.

The WCLM in Busan was coordinated under project 2015-004-1-020 <http://www.iupac.org/project/2015-004-1-020>. The theme was to review IUPAC's role in achieving the environmental/socio-economic issues related to the UN Sustainable Development Goals, and the process was to engage the Young Observers (YOs) in a way similar to what had been done in Istanbul. It was designed to address the new IUPAC Strategic Plan and to develop a framework for young scientists who want to get engaged and who can take on leadership roles.

During the GA, 1-hour briefing and working sessions were organized for the YOs in advance of the plenary session. The YOs were divided into 5 groups and asked to develop an idea and draft a proposal and slides for a presentation at the plenary. On the day prior to the plenary, the YOs worked for 3 hours to complete their project proposals.

The WCLM itself included a welcome message by Mark Cesa, IUPAC President, followed by a plenary session with perspectives provided by Prof. Yuan-Tseh Lee, Dr. Hubert Mandery (CEFIC), and Prof. Javier Garcia-Martinez. The YOs provided their reports and project proposals, and the meeting was concluded with a discussion facilitated by Prof. Natalia Tarasova, IUPAC Vice President.

As follow-up to the meeting, the WCLM project task group will form a Sustainable Development Goals working group and will invite all YOs to participate and to continue working on their proposal. The SDG working group will provide feedback and support to the YO teams. The ultimate goal might be to package the emerging project proposals into a larger proposal to be submitted to ICSU. [ACTION 05]

**25. INTERNATIONAL YEAR OF CHEMISTRY**

**25.1IYC2011 REPORT AND DISSEMINATION**

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Mark Cesa noted that the final report from IYC2011 has been released and was available from [www.iupac.org/project/2012-009-1-020](http://www.iupac.org/project/2012-009-1-020) and announced in the July 2015 *CI* issue.

## 25.2 INTERNATIONAL YEAR OF CRYSTALLOGRAPHY 2014

John Corish indicated that a final resolution of IYCr, i.e. the *IYCr2014 Legacy Resolution* has been prepared by IUCr. IUPAC was invited to sign and the President has done so on behalf of IUPAC.

*“The resolution embraces the needs to enhance the stature of crystallography, to build capacity in developing regions of the world, and to extend further the public understanding of science in general and crystallography in particular.”* It is available for individuals to review and sign at <http://iycr2014.org/declarations/legacy-endorsement>

Roberto Marquardt reminded the Bureau that IUPAC and IUCr shared a project on the Basic Terminology of Crystal Engineering, sponsored by ICSU, and chaired by Professor Metrangolo.

## 25.3 INTERNATIONAL YEAR OF LIGHT AND INTERNATIONAL YEAR OF SOILS 2015

Bureau noted the completion of International Years of relevance to IUPAC

*\*[95BU02] Bureau members were asked to respond with their ideas to the President by mid July (2014). The President will then write to John Dudley (president@eps.org) to seek ways to collaborate in the 2015 **International Year of Light***

*\*[95BU03] Contact IUSS President elect Rainer Horn: [rhorn@soils.uni-kiel.de](mailto:rhorn@soils.uni-kiel.de) to see how to engage with the 2015 **Year of the Soil***

## 25.4 PHOSAGRO PROJECT

John Corish confirmed that the program will continue and that a call for 2016 will be released by UNESCO in September with the objective of awarding six grants to be presented at the IUPAC International Conference on Green Chemistry to be held in Venice in September 2016 (<http://www.greeniupac2016.eu/>).

## 26. FUTURE GENERAL ASSEMBLIES AND CONGRESSES

### 26.1 49TH GENERAL ASSEMBLY AND 46TH CONGRESS (2017)

*\*[95BU19] To review General Assembly/Congress schedules for iupac2017 and later (Workgroup General Assembly)*

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Lynn Soby reported that she met with the Brazilian delegation and that her plan was to work with them following the model of this Assembly.

Bureau agreed that the Division Presidents should be involved well in advance so that their input can influence the scientific program of the Congress. It was recalled that in Glasgow (2009), one local organizer was paired with a Division under each theme. It was noted that the pool of IUPAC women awardees could constitute a good pool of lecturers and that the Women Award session would be better featured and integrated with the Congress program.

Follow-up is needed to ensure that the regular form for conference endorsement is prepared and details of the International Advisory Board agreed. [ACTION 06]  
It was recommended that a representative from Brazil should be invited to the next Bureau meeting in Montreal. [ACTION 07]

The Bureau reviewed the question of the timeline to call for Congress in the future. This year there was no call as IUPAC 2019 is already assigned to Paris. Russell Boyd expressed the view that to secure a suitable site 4 years is nowadays too short and that going forward 6 years is more appropriate. Others concurred.

Bureau agreed that NAOs should be invited to present proposals for IUPAC 2021 and IUPAC 2023 in Brazil. Then, in Paris in 2019, the Council will be asked to vote for IUPAC 2025. [ACTION 08]

## 26.2 50TH GENERAL ASSEMBLY AND 47TH CONGRESS (2019)

There were no actions arising from Council. Bureau felt that further consideration was needed of the proposal to use venues separated by a short journey given the positive experience of integration of the GA and Congress in Busan. [ACTION 09 – ED to visit Paris to review proposals on site]

## 27. FELLOWS AND AFFILIATE MEMBERSHIP PROGRAMS

*\*[153EC31] Review the status of AMP and sponsored AMP programmes with a view to upgrading the programmes*

Colin Humphris confirmed that the review of these programs still needs to be done. Chris Brett suggested that similarly the AO program be examined.

## 28. COMPANY ASSOCIATES PROGRAM

Status and future review

*\*[151EC06] Notify the CAs about the PhosAgro project; the office is to work with COCI to ensure that a notice is sent out.*

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*\*[153EC18] CAs to receive notice drawing their attention to webpage for next PhosAgro award*

Bernard West confirmed that the review of the CAs program was progressing well and the project was led by Bryan Hanley with support from Carolyn Ribes (see <http://www.iupac.org/project/2014-018-2-022>).

The task group used surveys to discover what the various stake holders know about the CA process and IUPAC engagement with industry. That feedback is been analyzed. Input from NAOs will be gathered in a second phase. Ultimately, the goal is to develop options for changing the process to better serve the needs of the Companies and IUPAC. Any new CA programme will be in line with the new Strategic Plan.

### **29. CURRENT PROJECTS**

Lynn Soby confirmed that a new project accounting report with a revised design was being developed and that the plan was to release a monthly update.

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

*\*[153EC29] Reports on new elements 113,115,117, 118 will go first to Division II and then Council/Bureau for review following the established procedure (pending)*

John Corish referred to his report to the Council (item 12) and confirmed that Professor Paul Karol was working on the finalization of the manuscripts for submission to PAC as IUPAC Technical Report. The 1<sup>st</sup> report is entitled 'Discovery of the elements with atomic numbers  $Z = 113, 115, \text{ and } 117$ ; and the 2<sup>nd</sup> is entitled 'Discovery of the element with atomic number  $Z = 118$  completing the 7<sup>th</sup> row of the periodic table'.

Bureau noted that the Inorganic Chemistry Division was considering a review of an older recommendation that stipulates that name of new elements should end with 'ium'. (see <http://www.iupac.org/project/2015-031-1-200>)

### **31. IUPAC-SOLVAY INTERNATIONAL AWARD FOR YOUNG CHEMISTS**

Lynn Soby confirmed that Solvay will continue its support of the awards for the coming two years.

### **32. BOOKS**

*\*[153EC05] Notify Bureau that Officers/ED only should sign contracts for IUPAC, which should be stored centrally.*

*\*[153EC06] Obtain information on any Division/ Committee enacted contracts/MOUs to ensure originals are stored at RTP.*

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**32.1 ADHERENCE TO IUPAC STANDARDS IN IUPAC SPONSORED BOOKS**

Colin Humphris confirmed that this topic had been discussed earlier – see item 18.

The question of reprinting books was raised; in case of reprint this in principle should not require a new contract, but be based on the original contract.

**33. NPU**

*\* [153EC35] CH to continue to manage the relationships in NPU on behalf of IUPAC. (Ongoing activity)*

Colin Humphris reported on the NPU Terminology Steering Committee, NPU SC, which was established by an agreement between the IUPAC NPU subcommittee, IFCC, and the Danish National eHealth Authority. There is no budget for this Steering Committee, but activities depend on the SC members. The NPU (Nomenclature for Properties and Units) guidelines for clinical chemistry are currently being used in Denmark, Sweden and Norway.

The need for harmonization and integration of NPU terminology with the international health standard, SNOMED CT is underway but will be costly. The IUPAC NPU subcommittee has initiated projects to accomplish this, but future progress will require acceptance by the owner of SNOMED CT, and adoption by additional countries.

Colin Humphris offered to continue as an IUPAC representative on the NPU SC, to monitor progress and keep the EC informed

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

*\*[153EC44] Consider venues and timing for Bureau in 2016 CH. Consider September for separate Bureau meetings in non-GA years. (Completed with acceptance of Montreal in April 2016)*

Colin Humphris confirmed that the next meeting of the Bureau will be at McGill University in Montreal, Canada, 8-10 April 2016. An outline of the schedule will be confirmed shortly.

**35. ANY OTHER BUSINESS**

Jan Reedijk asked for the Bureau to review and approve the release prepared by Commission II.1 on the revision of the atomic weight of ytterbium. In previous years, similar releases were presented to the Council and processed shortly after.

*Motion: Bureau approves the Press Release on proposed changes to the atomic weights resulting from recent deliberations by the Commission on Isotopic Abundances and Atomic Weights after its meeting in Vienna, prior to the 48th IUPAC General Assembly in*

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*Busan, Korea.*

Bureau approved the press release prepared by Commission II.1 on the revision of the Standard Atomic Weight of Ytterbium.

The Secretariat to complete the web post, reprint in CI and dispatch the release  
[ACTION 10]

Jan Reedijk recalled that the Bureau had also previously agreed to present the San Francisco Declaration to the Council for its endorsement. Since that action has not been presented at Council, he asked that the Bureau to proceed.

Bureau approved the motion for IUPAC to endorse the San Francisco “Declaration on Research Assessment” (DORA; <http://www.ascb.org/dora/>) and recognizing that the document is critical towards the use of metrics as the sole means to evaluate scientific output and to reward scientists accordingly. [ACTION 11]

It was recalled that an action of this Bureau was to invite the NAOs to put proposal forward for the Congresses of 2021 and 2023 promptly. Bureau invited NAOs to formulate proposals for future Congresses six years in advance. (see item 26 and ACTION 08 above)

Jan Reedijk indicated that Netherlands might come forth with a proposal for hosting the Congress in 2023. Russell Boyd indicated that Canada is considering a proposal for 2021.

Lynn Soby confirmed that all 2016-17 membership updates will be confirmed by email and that membership of all Standing Committees should be completed in advance of the next EC and for ratification by the President.

Before the meeting end, John Corish asked for a round of applause for the President.

Mark Cesa thanked everyone for their hard work and continued support.

The meeting adjourned at 11:45

[end]