



*International Union of Pure and Applied Chemistry*  
Analytical Chemistry Division

**2012-2013 Biannual Division Committee Meeting**

**Antwerp- Belgium**

**Elzenveld Conference Venue**

**5 - 7 February 2012**

**Minutes**

*Monday, 6 February 2012, 9 to 12:30 and 14:00 to 18:00; all ACD members and observers*

**Present**

<b>Prof. Maria F. Camões</b>	<b>TM - President</b>
<b>Prof. D. Brynn Hibbert</b>	<b>TM - Vice President</b>
<b>Dr. Zoltán Mester</b>	<b>TM - Secretary</b>
<b>Dr. Ales Fajgelj</b>	<b>TM - Past President</b>
<b>Prof. Christo Balarew</b>	<b>TM</b>
<b>Prof. Yngvar Thomassen</b>	<b>TM</b>
<b>Prof. José M. Pingarrón</b>	<b>TM</b>
<b>Prof. M. Clara F. Magalhães</b>	<b>TM</b>

**Prof. Paul De Bièvre (host)**

**Apologies**

<b>Prof. Attila Felinger</b>	<b>TM</b>
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### **1. Welcome and arrangements**

MFC welcome address. PDB welcome participants and provided housekeeping notes.

### **2. Approval of Agenda and Minutes from last meeting**

AF proposed change to agenda, and introduced a discussion on ACD position of redefinition of the mole. PDB report on the VIM and GUM.

Minutes approved.

### **3. President remarks**

MFC noted that it is a good practice that we meet at the beginning of the biennium to provide strategic directions to the

### **4. Reports from:**

#### **a. Executive Officers' Meeting**

MFC provided overview of the officers meetings and discussed outcomes and decisions

#### **b. Report on developments since GA meeting in San Juan- Puerto Rico**

MFC reported on the ACD meeting at the GA in the Puerto Rico.

- Good turnout.

- MFC expressed concern because of the lack of opportunities related to participating at the work of other divisions.

- IYC closing event with industry

-changes at corporate IUPAC. Nicole Moreau stepped down as President. She sent an email thanking the division presidents and members.

## **5. ACD members' roles and responsibilities (ToR for ACD members)**

Representations on other bodies is important (DBH and MFC). MFC was especially concerned about ACD representations on Educational divisions. PDB agreed to MFC's opinion on the need that the basic science divisions must have representation on the educational committee.

MFC described her concern about the IYC global experiments and how poorly were defined. Educational aspects were not well developed. With her university she actually participated. MFC noted that it is still online. The translation (Spanish and French especially) of the website propagated the erroneous descriptions in the originals..

YT expressed the importance of chlorination.

AF made motion that ACD support that maintain educational committee as a committee instead of transforming it to a division. Supported by YT and DBH

Vote; yes

ZM Divisional representatives should ask division feedback on any and all issues discussed by these committees in order to obtain a divisional opinion to represent.

Vote, Yes

TeamWork distribution will be made by MFC within a few days summarizing the last biennium's work.

## **TERMS OF REFERENCE**

Reading and Review of the roles of various officers, TMs and AM. No changes in the roles implemented.

Except:

-The chairs of WPHQA, SSED and pH are ex officio associate members of ACD.

**ACTION: ZM, arrange implementation this change on the web**

-associated members should seek funding to attend meeting.

It was suggested to include election duties in the terms of reference. No formal motion.

IUPAC conference sponsorship discussion. No \$\$ but just a general endorsement.

#### **6. Report from Subcommittee on Solubility and Equilibrium Data (SSED)**

CFM gave a detailed overview of the subcommittee activities including project status update planned meetings. CFM described the status of the Franzosini award for solubility (travel award to the ISSP conference)

#### **7. Report from Interdivisional Working Party on Harmonization of Quality Assurance (WPHQA)**

No formal report. However AF discussed the history of the WP. Described also the challenges with chairmanship of the WP risen by the sudden departure of Paolo Zorzi from the party. AF graciously agreed to chair the WP for the biennium and the WP searching for a chair.

DBH raised the issue of whether the WP has fulfilled its mandate and could be dismantled. And QA related activities could simply be done through the project system.

#### **8. Report from Subcommittee on pH (SpH)**

MFC provided an update on the lunching and status of SpH. Presentation could be obtained from MFC.

#### **9. Reports from Task Groups/Liaisons**

-AF solicit opinion on redefinition

-ZM and PDB gave background information on the redefinition of SI.

-ZM presented a lecture on the Avogadro efforts re: new kilogram. Copy of the presentation is available from ZM.

The Division strongly support opening a public discussion within the chemistry community potentially via the formulation of a project proposal.

-GUM

DBH provided update and described the need for more chemical examples in the next iteration of GUM,

## **10. Review of actions arising from the ACD meeting in San Juan- Puerto Rico 2012**

Terms of Reference reviewed, no substantial changes were implemented.

## **11. Review of Project Progress Reports**

A general discussion has been held on the pace of progress of the projects and JMP emphasized the importance of timely completion of the projects because of the impact on the image of the division.

-PDB report on the traceability project which has been completed and published in PAC. Link to the paper: <http://www.iupac.org/publications/pac/83/10/1873/>

PDB has acknowledged his co-authors, DBH, AF and Rene Dybkaer.

PDB has described the requests what he has received on this project producing an abridged/simplified versions of this manuscripts for laboratory practitioners.

AF has expressed doubt about the feasibility of coming up with such a document. He was advocating creating an IT platform where practitioners could actually upload schemes for others benefit.

DBH, was suggesting not necessary more examples but heavily annotated examples.

AF has pointed out the success with the salinity community and the need for more of such interaction.

YT posed question about need for such a document when most of the people buying traceability via CRMs.

CFM asked about the fate of project submitted by Wolfgang VOIT which seems to be missing in action (MIA)

Updated project list is maintained by the president (MFC) and is available upon request.

## **12. New project proposals**

Short discussion re: Orange book projects not yet submitted (details see below in the table on OB)

## **13. Review of Division operations, work plan 2012 – 2013**

### **a. Division funds**

MFC described the OB projects submitted at the last few months in the biennium.

For the current biennium \$60,600 budget for ACD. 70% is for projects the rest is for operation.

Because of the current divisional focus on OB there is a backlog of projects.

CFM asked about the submission deadlines if any

DBH described the process of continuous project submission (no deadlines)

AF for larger projects there are central projects funds at IUPAC and there are opportunities at ICSU also. However the project preparation is significantly more involved.

### **b. Division priorities and core business**

The division reaffirmed commitment to the OB project.

c. SSED, WPHQA and SpH

The division reaffirmed commitment to working groups.

d. Task Groups

e. Liaisons

- i. Representative to Interdivisional Committee on Terminology, Nomenclature and Symbols (ICTNS) Brynn Hibbert;
- ii. Committee on Chemical Education (CCE) Nelson Torto;
- iii. Committee on Chemical Industry (COCI) Zoltán Mester;
- iv. Pure and Applied Chemistry Editorial Advisory Board Aleš Fajgelj;
- v. International Committee on Weights and Measures/Consultative Committee on the Amount of Substance (BIPM/CCQM) Aleš Fajgelj;
- vi. ISO-Committee on Reference Materials (ISO/REMCO) Aleš Fajgelj;
- vii. Joint Committee for Guides in Metrology (JCGM) Paul de Bièvre
- viii. Joint Committee for Guides in Metrology (JCGM WG1) Working Group1 Brynn Hibbert;
- ix. Joint Committee for Guides in Metrology (JCGM WG2) Working Group 2 Paul de Bièvre;
- x. Inter-Agency Meeting (IAM) Zoltán Mester;
- xi. Joint Committee on Traceability in Laboratory Medicine (JCTLM) Cancel
- xii. EUCHEMS – Filomena Camões + Jan Labuda
- xiii. African analytical network – Nelson Torto

#### **14. Division key products**

a. SC-database

The chair of the SSED raised the question of the existing electronic database and the planned new ones contained in some new projects, in order to explore the possibility of the various electronic tools compatibilization. Brynn Hibbert offered himself to help in the formation of a group to analyse the present situation and to find new solutions.

b. Orange Book

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- c. Division brochure
- d. CI articles
- e. Web page

The ACD expressed dismay of the constant and prolonged delayed of releasing of the new website first promised for SJ.

- f. Teamwork
- g. Conferences and workshops

Solubility workshop, potentially human error in analytical chemistry workshop if the project approved. Proposed to be held at Israel Analytica in January 2013,

<http://isranalytica.org.il/>

- h. Any other initiative

***ACTION: DBH encourages CI publication as profile raising for the division.***

Discussions on republication of old solubility data in an Ebook format.

Need more clarity on who owns what.



*Tuesday, 7 February 2012, 09:00 to 12:30*

**15. Orange book revision**

-DBH gave a presentation on the history of the OB project.

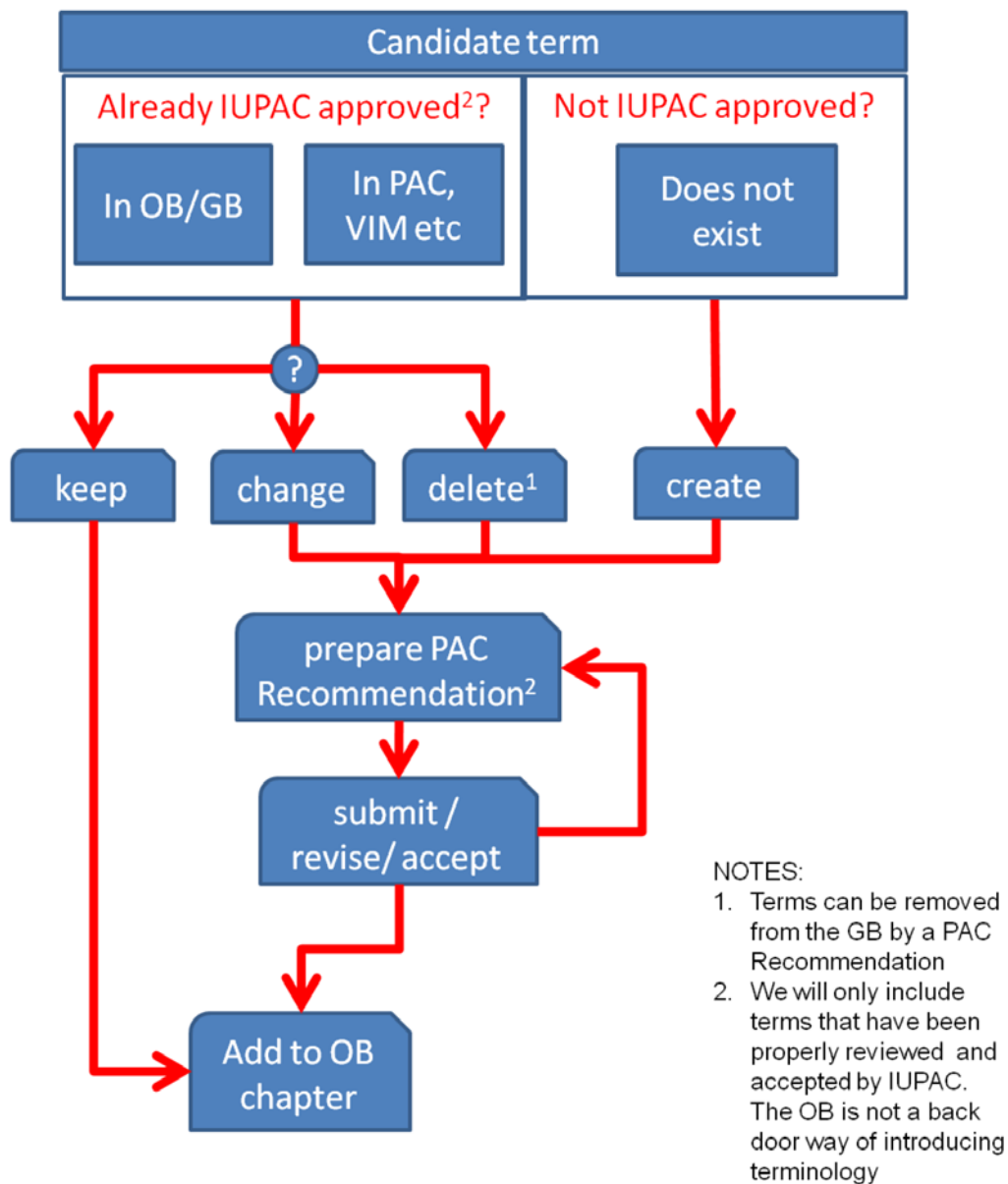
The new OB will be glossary format of the terms related to analytical chemistry. 3-4 pages of introduction and followed by the concepts in a glossary format. 11 chapters most of them lead/associated by an AM or TM.

DBH reviewed the workflow and the discussion was held about deleting erroneous terms. Old (but correct) terms should be kept.

Title options were discussed.

ZM pointed out the need to do proper “background check” on new terms.

**Work flow for adding new terms to OB**





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Chapter	Title	Chair	IUPAC liaison	Comments July 2011, San Juan	Comments Feb 2012, Antwerp	Project proposal submitted as of Feb 2012	Chapter outline provided by Feb 2012	Expected completion/ submission to PAC
<a href="#"><u>Chapter 1</u></a>	Fundamental concepts and terms (metrology), chemometrics (and statistics), quality assurance.	Paul De Bièvre,	D. Brynn Hibbert, (TM)	-no progress, project to be submitted	Project submitted	YES	NO	2014
<a href="#"><u>Chapter 2</u></a>	Sampling and sample preparation	Zoltan Mester,	Zoltan Mester, (TM)	ZM is replacing PZ who retired from IUPAC. ZM will identify	ZM Identified a lead for the chapter	Yes	NO	2014

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				suitable lead. no progress	Prof J. Pawliszyn			
<a href="#">Chapter 3</a>	Methods of analysis depending on measurements of mass and volume	Maria F. Camões,	Maria F. Camões, (TM)	project members identified	MFC made a call in a Portuguese chemistry journal about the chapter. Invitation to SSED people to join. First draft of terms already prepared.	<b>NO????</b>		2013
<a href="#">Chapter 4</a>	Separation	Tatyana Maryutina,	Tatyana Maryutina (AM) and Attila Felinger (TM)	full status update, very well developed concept, consider	very well developed but no update/news since	<b>YES</b>	NO	2013

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				<b>integrating A. Felinger as the current TM for chromatography</b>	<b>SJ</b>			
<a href="#"><u>Chapter 5</u></a>	<b>Spectroscopic methods of analysis</b>	<b>Yngvar Thomassen,</b>	<b>Yngvar Thomassen, (TM)</b>	<b>no progress. DBH contact YT for update.</b>	No progress. DBH will contact offline YT	<b>NO</b>	<b>NO</b>	<b>2015</b>
<a href="#"><u>Chapter 6</u></a>	<b>Mass spectrometry</b>	<b>Zoltan Mester</b>	<b>Zoltan Mester, (TM)</b>	<b>ZM is working actively with the current MS project team. The paper currently in PAC review stage. The ACD review would be provided by ZM and PDB</b>	ZM following the progress of the KERMIT project. Currently is in the PAC review stage. In ZM's opinion the project will	<b>YES</b>	<b>YES</b>	<b>2013</b>

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					be concluded this year.			
<a href="#">Chapter 7</a>	Electrochemical methods of analysis	José M. Pingarrón,	José M. Pingarrón, (TM)	update was provided by JL. The task group has met in Prague in 2009, list of subchapter titles prepared. Responsibilities within the working group defined. JL presented a partial list of terms related to general electrochemistry the rest is still	JMP had the project approved last year.	YES	NO	2013

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				underway. It was prepared from PAC papers and orange book.				
<a href="#">Chapter 8</a>	Radioanalytical methods	Zhifang Chai,	Peter Bode (AM) ???????????	not present, no update. DBH will follow up with him.	Submitted report and predicted submission by mid 2012.	???	YES	2013
<a href="#">Chapter 9</a>	Surface analysis	Luisa Maria Abrantes	Maria F. Camões, (TM)	Suitable chair was identified by MFC. Close coordination with YT and the spectroscopy chapter is expected.	Lead identified but no progress so far, MFC is supporting her.	NO	NO	2015
<a href="#">Chapter 10</a>	Thermal methods of	Carlos Castro,	Maria F. Camões, (TM)	no progress, MFC will follow	No progress MFC	NO	NO	2013

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	<b>analysis</b>			<b>up with</b>	liaising with the project lead			
<a href="#"><u>Chapter 11</u></a>	<b>Immuno- and bio-analytical methods of analysis</b>	<b>Jan Labuda,</b>	<b>Jan Labuda, TM</b>	<b>ongoing work. Meeting at the Euchem bioanalytical working group meeting in September. Scoping is still underway. (immuno- / enzyme / biosensor / - omics)</b>	project approved and funded. JL has presented a chapter	<b>YES</b>	<b>YES</b>	<b>2013</b>





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**ACTION:** DBH will contact YT about the proposal.

**ACTION:** MFC is following up with **Luisa Maria Abrantes** re: chapter 9

**ACTION:** MFC is following up with **Carlos Castro**, re chapter 10

ZM brought up the issue of sensors which are not covered in any of the existing chapters. No resolution.

AF brought up the issue of other organizations (CODEX) working on terminology issues, make sure that liaisons are maintained to make sure that we stay relevant.

**ACTION:** chapter layout to be sent by the chapter leads and list of terms by **January 1, 2013**

**ACTION:** for DBH send out info on how to create the glossary entries.

**ACTION :** DBH send out the link to the orange book and orangebook wiki

**16. Coming Bureau Meeting, 12-16 April 2012, Leiden- Netherlands**

The meeting will be held just days before the meeting of CCQM.

MFC will brief the Bureau about the divisions position on

**17. Next ACD meetings**

**18. AOB**

DBH, the ACD should consider preparing a position paper on the redefinition of mole and kilogram  
re: kilogram

## **19. Closure of the meeting**

MFC thanked the participants, MFC offered to host the officers meeting in early 2013. MFC thanked PDB for making the local arrangements

At the closure of the meeting Nelson Torto joint the meeting using skype videoconferencing and activities related to the Educational committee was discussed.

Motions:

AF made motion that ACD support that maintain educational committee as a committee instead of transforming it to a division. Supported by YT and DBH

Vote; yes

ZM: Divisional representatives should ask division feedback on any and all issues discussed by these committees in order to obtain a divisional opinion to represent.

Vote, Yes

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