



International Union of Pure and Applied Chemistry
Analytical Chemistry Division

Minutes of the Analytical Division of IUPAC

Virtual Meeting

9th April 2020

Attendees: M. Resat Apak; Ján Labuda (Past President); Brynn Hibbert; Zoltan Mester (President); Vasilisa Baranovskaya; Jiri Barek; Erico Flores; Attila Felinger; Franziska Emmerling; Ilya Kuselman; Hongmei Li; Luisa Torsi; Mariela Piston; Clara Magalhaes; Maria Filomena Camoes; Petra Krystek; David Shaw (Vice president); Derek Craston (Secretary); Susanne Wiedmer; Takae Takeuchi; Yu-Ju Chen; Rufus Sha'Ato

Apologies: Malarvili Ramalingam; Orawon Chailapakul; Frank Vanhaecke; Hasuck Kim; Serigne A. Ndiaye

Introductions: Zoltan Mester (ZM) welcomed all attendees to the meeting, and in particular those new members of the committee. The introductions included brief overviews of some of the work of the Division, including the Orange Book (Brynn Hibbert, BH); metrology in chemistry (Ilya Kuselman); pH (Maria Filomena Camoes) and solubility and equilibrium data (Clara Magalhaes)

Division overview: ZM introduced the web page of the division, the divisional structure and Wiki site. Attendees were encouraged to register with the Wiki site which contains the key documentation, including the outputs from prior meetings. **Action: all attendees to register for access to Wiki site**

Main Agenda

- a) Analytical chemistry education. ZM gave an update on this new and important divisional project. **All members are invited to join this project.** Thus far there has been a kick-off meeting of the project team, which took place earlier in the year; minutes of this meeting will be available soon.
- b) Awards. Erico Flores (EF) introduced the two awards that the Division is planning to launch. Feedback was as follows:
 - (i) Members of the committee (past and present) should not be eligible for nomination for either of the awards, as these should not be designed to be rewards for services to IUPAC.
 - (ii) Recommendations might include endorsement from a Learned Society (or associated sub-committee) or appropriate National Authority.
 - (iii) Recipients should attend the award ceremony in person and thus nomination and selection need to be planned such that there is sufficient time between announcement and the chosen presentation event. Ideally, this event will be part of the biennium and the associated conference.
 - (iv) The award should be cost neutral to the Division. Sponsorship should be explored but needs to be sustainable, and it should be an acknowledged IUPAC award, rather than one associated with a particular company.



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It was agreed that final drafts of the Awards documents should be prepared by allowing on-line inputs and editing. **EF was actioned to put the documents into GoogleDocs and to bring final drafts to the next meeting.**

- c) Industry sub-group. Derek Craston (DC) outlined the objective of forming such a group, and the need in so doing to provide relevance in our divisional outputs. It was agreed that a paper should be prepared that covers areas of industry interest that might be relevant to IUPAC (**action DC**)
- d) Young Observers. David Shaw (DS) provided feedback on the views expressed by the young observers who attended the Paris meeting. It was agreed that the Analytical Division should do more to engage young observers, both at the biennium and in projects, and that a group should be established with this aim in mind. **Members of the committee were invited to contact DS if they wished to be involved in this activity**
- e) Orange Book. Brynn Hibbert (BH) outlined the excellent progress made on the Orange Book and the follow-on project to link the terms to the Gold Book. ZM thanked BH for his considerable efforts in getting this project (almost) completed.

It was proposed that the next meeting takes place (virtually) at the beginning of June (action DC). The following items are to be covered:

1. Update on the major projects – Agreement on Awards
2. How to work with IUPAC (presentation to be given by ZM)
3. Divisional sub-committee updates

Minutes of the Analytical Division Virtual Meeting

9th June 2020

Attendees: M. Resat Apak; Ján Labuda (Past President); Brynn Hibbert; Zoltan Mester (President); Vasilisa Baranovskaya; Jiri Barek; Attila Felinger; Franziska Emmerling; Ilya Kuselman; Hongmei Li; Luisa Torsi; Mariela Piston; Clara Magalhaes; Maria Filomena Camoes; Petra Krystek; David Shaw (Vice president); Derek Craston (Secretary); Susanne Wiedmer; Takae Takeuchi; Yu-Ju Chen; Rufus Sha'Ato; Malarvili Ramalingam; Orawon Chailapakul

Apologies: Erico Flores

Introductions: Zoltan Mester (ZM) welcomed all attendees to the meeting. Feedback was provided by participants on local matters pertaining to the Covid crisis.

Main Agenda

a) ACD Awards. The medal award was discussed in detail and amendments to the proposed document were agreed (**Action Derek Craston (DC)** to update document and send to Erico Flores for completion). The process for designing the medal was discussed. It was agreed that it might be appropriate to offer this as a project to an appropriate University or Arts School, or to commission via a specialist organisation. A number of medals should be cast at the same time to help manage costs. (**Action ZM** with input from Ilya Kuselman (IK))

b) Projects. David Shaw (DS) clarified that projects remain open on the IUPAC update sheets until the outputs are published, even if the work itself has finished. DS will ask IUPAC to prepare an on-line update sheet for the Division to assist effective information collection (**Action DS**)

DS described a model for future project initiation that would align these around specific programmes (e.g. update of Orange Book). One approach to this is to build around existing sub-committees and selected initiatives (e.g. training). DS noted that while the divisional budget is low, the ways of working through the Covid-19 crisis has demonstrated how travel costs might be effectively managed in the future. Brynn Hibbert also noted that the sub-committees were contributing to publications without the work formally being covered by a specific project.

Maria Filomena Camoes (MFC) provided an update on the current pH projects and the activities and plans of the sub-committee.

Clara Magalhaes (CM) outlined the extensive outputs from the solubility and equilibrium constants data sub-committee since its inception, and how this group already operates with a "joined up and collaborative" approach to project initiation.

It was agreed that members of the sub-committees should have opportunity to engage more with the overall work of the Division and that this should include invitations to attend committee meetings.

c) The final week of July was proposed for the next Zoom meeting (**Action DC**). Members of the sub-committees will be invited to attend this session once the date is set (**Action MFC, CM, IK**). ZM will produce the agenda for the meeting well in advance (**Action ZM**). It was agreed that the recording of the June meeting will be made available through the Wiki site and that minutes of the meeting will be circulated (**Action DC**)

Minutes of the Analytical Division Virtual Meeting

29 July 2020

Attendees: M. Resat Apak; Ján Labuda (Past President); Brynn Hibbert; Zoltan Mester (President); Vasilisa Baranovskaya; Jiri Barek; Attila Felinger; Franziska Emmerling; Ilya Kuselman; Hongmei Li; Luisa Torsi; Mariela Piston; Clara Magalhaes; Maria Filomena Camoes; Petra Krystek; David Shaw (Vice president); Derek Craston (Secretary); Susanne Wiedmer; Takae Takeuchi; Yu-Ju Chen; Rufus Sha'Ato; Malarvili Ramalingam; Orawon Chailapakul; Fabienne Meyers (IUPAC); Andrew Dickson; Earle Waghorne; Ricardo Silva

Apologies:

Introductions: Zoltan Mester (ZM) welcomed all attendees to the meeting. Feedback was provided by participants on local matters pertaining to the Covid crisis.

Main Agenda

- a) ACD Awards
 - Award documents were reviewed, comments discussed and agreed. Erico agreed to complete and tidy the documents.
 - Erico agreed to connect with Fabienne to discuss the mechanics of the award launch and operation
- b) Divisional operation and interaction with IUPAC
 - Fabienne provided a review of the project system at IUPAC.
 - A new divisional project progress report has been compiled and will be used for the next round of updates in January 2021
 - Zoltan presented the Strategy of the Division that was defined at the meeting in Nara.
 - It was suggested that the divisional sub-committees should explore opportunities to work with other IUPAC Divisions
 - The need for better nomenclature and standardisation of viral measurement has been highlighted through the Covid crisis. It was agreed that we should explore potential projects in this area – Derek to bring thoughts to the next meeting (BIPM hosting conference Oct/Nov on measurement issues related to covid: IUPAC likely to join as co-organiser and will bring visibility to this activity)
 - Jan / Derek to discuss input in to the IUPAC committee on industrial chemistry
 - Next meeting due in September (confirmed for 24 Sept)

Minutes of the Analytical Division Virtual Meeting

27 October 2020

Attendees: Derek Craston (Secretary); Takae Takeuchi; David Shaw (Vice president); Franziska Emmerling; Yu-Ju Chen; Brynn Hibbert; Zoltan Mester (President); M. Resat Apak; Luisa Torsi; Ilya Kuselman; Petra Krystek; Maria Filomena Camoes; Clara Magalhaes; Rufus Sha'Ato; Ján Labuda (Past President); Malarvili Ramalingam; Jiri Barek; Ilya Kuselman; Hasuck Kim; Erico Flores

Introductions: Zoltan Mester (ZM) welcomed all attendees to the meeting.

Participants confirmed that it was okay for the session to be recorded.

Main Agenda

Update on Awards

- Awards are now announced and on the IUPAC web site. Members of the Division were requested to publicise through appropriate vehicles, including social media platforms.
 - Division members were also encouraged to put forward nominations.
 - The composition of the Awards Committee to review the nominations was discussed in detail. In conclusion this will include four members of the IUPAC committee (Jan Labuda [as chair], Erico Flores, Takae Takeuchi and Petra Krystek). In addition, we will seek three leaders from industry and three academics. For industry we will ask for senior input from:
 - Agilent (Derek to approach)
 - Thermo Fisher (Erico to approach)
 - Shimadzu (Takae to approach)
 - Waters and Anton Paar to be approached if needed at a later dateFor academia Zoltan / Erico will approach editors of relevant journals; Yu-Qi Feng (J of Chromatography A), Manuel Miró (Analytica Chimica Acta), Margaretha de Loos-Vollebregt (Spectrochimica Acta)
- This Awards Committee will advise on both awards and be constituted for this Biennium.
- The Division Committee were asked to consider sources for sponsorship of the award (\$10,000 for both awards, can be more than one sponsor)

Update on sub-committee activities

- Clara updated the group on the plans of the Sub Committee for Solubility and Equilibrium Data, where the desire is to generate more project ideas. Zoom meetings are planned in the coming months but the 19th International Symposium in Solubility Phenomena has had to be cancelled until at least 2021. Efforts are also underway to resurrect old work in the area of equilibrium.
- David described early progress in the Inter Divisional Sub Committee on the Evaluation of Critical Data (ISCED).
- Ilya described the slow progress in publishing the CITAC/ Divisional approved technical guide “on the risk in conformity assessment of multicomponent materials due to measurement uncertainty” in PAC. It was noted that Resat had a similar experience in publishing his work, and that Brynn’s Technical Report on the “Interpretation and use of standard atomic weights” was under review for 5 years prior to being approved. These, plus the delay in publishing the paper on Henry’s law provides cause to contact the Editor of PAC to discuss. Ilya also mentioned the

IUPAC/CITAC Web-seminar “Metrology, Quality and Chemometrics - Correlation of Test Results and Mass Balance Influence on Conformity Assessment” which will be held in January 2021

- Brynn updated progress on the Orange and Gold books. The update to the Gold book will be occurring over the coming year.
- Zoltan provided an update on a new project defining and better understanding the role of analytical chemistry in modern chemistry education. This project has stalled, because many of the participants have been busy in providing on-line teaching due to SARS-CoV-2.

SARS-CoV-2

- A mini symposium / round table will be held to discuss the wider impact of SARS-CoV-2 late in November / early December

Elections Preparations

- David described progress on the election of officials for the next Biennium. This matter will be discussed again at the meeting in November/December.

Minutes of the Analytical Division Virtual Meeting

3 December 2020

Attendees: Derek Craston (Secretary); Takae Takeuchi; David Shaw (Vice president); M. Resat Apak; Brynn Hibbert; Zoltan Mester (President); Franziska Emmerling; Ilya Kuselman; Petra Krystek; Hongmei Li; Jiri Barek; Maria Filomena Camoes; Rufus Sha'Ato; Yu-Ju Chen; Prof. Érico M. M. Flores

Introductions: Zoltan Mester (ZM) welcomed all attendees to the meeting.

Participants confirmed that it was okay for the session to be recorded after SAR CoV 2 Diagnostics

Main Agenda

SAR CoV 2 Diagnostics

- Reach out to division 7 – chemistry and human health
- Topics Derek Craston to comment on
 - How's this going to impact on training education project
 - Plastics – reach out to environment group – Derek work with Montserrat Filella
 - Personal data and valuation and standardization
- Zoltan to offer idea for remote lab talking points
- Micro plastic project link to be sent
- Derek to share presentation

Awards

- Plan for a series of remote meetings
- DC reached out to Agilent
- Erico to reach out to Thermo
- Merk (DC to find out who), Sigma (Derek to find out who) and LGC (Derek)
- Offers Shimatzu (sp) a place on the committee (Takae contacted but no response)
- Proposed to hold sponsorship request
- Finalise committee structure in next few months
- Erico to send reminder with press release from IUPAC and request nominations

Elections

- David to send email to division to share article <https://iupac.org/iupac-elections-for-the-2022-2023-term/>
- Nomination process open until 1 February 2021
- Ballot will come out April/May
- Results on or about time of general assembly
- Current membership of the division is not automatically continued you must complete application, beneficial if nomination is agreed or submitted by you NAU (DC to check 54.57mins)

PAC journal publications

- Methods to evaluation to scavenging activities of antioxidant – Resat and David paper
- Zoltan to speak to bureau about over complicated administration for submission of papers
- Details of papers to be sent to Derek

Recording of meeting has been saved to wiki site under London 2020 folder

Next meeting to be scheduled mid to end January 2021.