

## IUPAC General Assembly, Puerto Rico 2011

### Division VI - Chemistry and the Environment (DCE)

#### Division Committee Meetings – 29 & 30 July 2011

#### MINUTES OF THE MEETING

1. Opening, welcome, approving the agenda

All Division members were cordially welcomed, with a special welcome for the young observers that were present!

The agenda was approved with 2 additions: agenda items 17 (Contribution of Division to Chemistry International) and 18 (Division representative in editorial board of PAC).

2. Call by name of members attending, apologies

**Present:**

Nicola Senesi (Chairman), Willie Peijnenburg (Secretary), Ken Racke (NR, United States), Laura McConnell (TM, United States), Michel Ostraat (Young observer, United States), Ting Kueh Soon (NR, Malaysia), Petr Fedotov (TM, Russia), Sirpa Herve (TM, Finland), Hemda Garelick (AM, United Kingdom), Paul Wine (TM, United States), Leif Abrell (young observer, United States), Brad Miller (young observer, United States), Leo Klasinc (AM, Croatia), Werner Kördel (TM, Germany), Keiji Tanaka (TM, Japan), Ewa Cukrowska (TM, South Africa), Nadia Kandile (TM, Egypt), Yehuda Shevah (NR, Israel), Maria Quitantana (Young observer, Peru).

**Apologies:**

Prof. Manos Dassenakis (AM, Greece), Dr. Rai Kookana (NR, Australia), Prof. Michael E. Goodsite (NR, Denmark).

3. Communications by the President

None

4. Elections results for the biennium 2012-2013: TMs, AMs and NRs

A word of thank was expressed to especially Hemda for the work associated in the election process. All nominations still need formal approval by Bureau. The new TM elected is Prof. Guibin Jiang from China, substituting Dr. Keiji Kanaka whose term expires in 2011.

Ten NRs have been selected, as communicated earlier this year. A problem was raised by Prof. Black (executive director) regarding the position of Yehuda Shevah as he is not eligible as NR and was not candidate as officer or TM. A strong recommendation for Yehuda to be re-nominated as NR was submitted by Prof. Senesi, and a final decision is to be made by the Bureau. **Dr. McConnell will prepare a written recommendation, highlighting the activities of Dr. Shevah for the Division.**

All new Division and Commission members will be appointed from now on by the Bureau for a period of 2 years, with possible extension. This is according to the IUPAC bylaws. In 2013 we will need to elect 8 new TMs, which is a profound change. A potential threat to continuity is to lose a significant fraction of existing TMs/AMs. A new nominating committee will be selected in the first half of 2012, according to the bylaws of Division VI. The committee will consist of two internal and three external members.

A general problem that is encountered is inactivity of the members of the Division; in some cases only half of the members reply to emails, reviews of project proposals, requests for votes, etc. Sometimes even only 3 or 4 replies are received out of a pool of 26 members. **All**

**members are strongly requested to respond more frequently to requests brought forward.**

Another issue dealing with elections is that we have the possibility to propose members for Bureau in 2012. **We need to think about strong candidates.**

5. 43<sup>o</sup> IUPAC World Congress, Puerto Rico 2011. Two Division Symposia  
Overviews of both symposia were provided by the organizers, Laura McConnell and Hemda Garelick. Unfortunately, no poster sessions were allowed for both symposia. **It will be proposed by Nicola that in future at least one representative of Division is involved in the organization committee of IUPAC conferences.** This will also allow local organizers of conferences to benefit from the long-term experience available within IUPAC. Nadia and Hemda are proposed to be the Divisional liaisons for the next IUPAC conference in Turkey.
6. Actual Budget status  
Total budget: \$ 68.000. Normally, 70 % is spent on project, 30 % on operational issues. On the 6<sup>th</sup> of July the commitments (projects supported) were \$ 11.000 instead of \$ 47.000 for which there is budget, for operational issues we spent about \$ 19.000, which leaves about \$ 5.000. There are requests for extra support by Yehuda and John Unsworth, and there is a new project by Werner Kördel. Five project proposals are being evaluated and will be discussed later in the Division meeting, two new project proposals were received recently and are not in the system yet. **A phone conference will be organized in November 2011 to decide on projects to be initiated.** It is important to spend all money before the end of the year.
7. IUPAC-WILEY Book Series. New Series Co-Editor  
Unfortunately, Prof. Huang passed away two years ago. Prof. Huang was the senior co-editor on this series. A new, active co-editor is needed. It is proposed that Prof. Xing (University of Massachusetts Amherst) is to replace Prof. Huang. Prof. Xing is a competent and active person, and will be appointed as a new associate member of our Division. The Division committee supported the proposal. **Prof. Senesi will inform Wiley on this change of editorship.**
8. Reports on the Status of Current Projects  
Most of the task group leaders have submitted progress reports.  
2003-013-1-600 (Carazo): this project is completed. There will be a textbook. **Nicola will inform Fabienne Meyers.**  
2003-058-1-600 (Hertel). Budget spent. However, the book that was planned is not successfully completed. Project terminated. **Nicola will inform Fabienne Meyers, explaining the situation.** A new proposal is welcome. **Prof. Wine and Prof. Klasinc will take the initiative.**  
2005-024-2-600 (Von Holst): progress report received, the project page in the IUPAC website is updated. Completion planned in march 2012: this continuation was already approved.  
2006-015-3-600 (Kleter): progress report received. The project is developing well with lots of activities for a relative small amount of funding.  
2006-039-2-600 (Fedotov): project successfully completed with a publication in Critical Reviews in Environmental Science and Technology.  
2006-044-2-600 (Linders): project close to completion. A presentation will be given in dg the IUPAC conference Puerto Rico and the report will be finalized in Puerto Rico as well.

2006-049-2-600 (Dassenakis). The technical report has been accepted for publication in PAC and a workshop was organized in Greece. **Manos Dassenakis is requested to provide a short report to Fabienne to complete the project.**

2007-017-1-600 (Melton). This project is terminated.

2007-026-2-600C (Kalderis). A progress report was prepared by the project coordinator. A technical report is published in PAC. Project completed.

2007-057-1-600C (Alleluja). Project successfully completed.

2008-001-1 (Xing). Book is published – project successfully completed. **Dr. Xing is to prepare a short report for Fabienne, on top of this Prof. Senesi will ask for a short overview for publication in Chemistry International.**

2008-003-3-600 (Shevah). A progress report was submitted. A request for additional funding is pending.

2008-011-2-600 (Parker). A progress report was received during the meeting. Progress is according to planning.

2008-039-2-600C (Letcher). Project completed – book published, final report received. **A short report in Ci is appropriate given the topic.**

2008-041-1-600 (Unsworth). Report received, most of the budget is spent.

2009-048-1-600 (Kördel). The final version of this monitoring project is planned for the end of this year. Progress according to planning.

2010-018-2-600 (Chen). Project has just started – progress report received. Status of project according to planning.

2010-20-2-600 (Racke). This was a project number used to accept funding for a congress organized last year. No IUPAC money was used. **Dr. Racke will prepare a report for Fabienne Meyers.**

2010-056-1-600 (Unsworth). Report received. Project according to plan.

Overall, 10 projects are running at this moment.

(New) division members are encouraged to participate in existing projects by contacting the project leader.

As an increasing number of emails are circulated on new and existing projects, **Yehuda and Laura will facilitate the use of threats on the IUPAC discussion board, allowing all documents of projects to be available for anyone interested.**

#### 9. New/Revised Project Proposals

9.1. Project #2010-028-2/Sakellariadou. This project is around for more than 1 year, requested funding is \$ 5.000. **It was decided to support the proposal for funding. The project coordinator is strongly requested to include a more detailed list of parameters to be studied in the first progress report (after half a year in the project).**

9.2. Project #2010-060-1/Wauchope. Internal and external reviewers were positive. The project deals with the maintenance of a database on pesticide properties established before. Requested funding is \$ 5.000. It was decided to support the proposal.

9.3. Project #2011-001-2/Unsworth. One (negative) external review was received. A problem is that there is no chemistry in the project proposal, the explanation of budget is insufficient and opposed to IUPAC rules. It was decided not to support the proposal as Division is not convinced on the contents of the proposal and the budget.

9.4. Project #2011-008-1/Letcher. The proposal is in general relatively brief and general in terms of objectives and expected impact. The outcome of the project will be a book. However, the detailed description of the book is appropriate. It was proposed to recommend the proposal to the IUPAC Project Committee for funding (\$ 6.000)

as the book is touching upon various aspects of chemistry. One of the main problems is that the topic is very broad and requires more focus. Chemrawn and COCI do not support the proposal. It was decided to await the decision of the IUPAC Project Committee and not to fund the proposal now. **The proposal will be discussed again during the teleconference later this year.**

- 9.5. Project #2011-019-1/Xing. This is a book proposal within the Wiley series. As Prof. Senesi is part of the Task Group, the proposal evaluation was performed by Fabienne Meyers, supervised by Laura. Two reviews were received, and are favorable in all aspects. It was decided to support the proposal and assign a budget of \$ 10.500. In addition \$ 2.000 will be granted from the Wiley royalties. Total budget is \$ 12.500.
- 9.6. Project #2008-003-3-600/Shevah: requested additional Division Funds. Up till now, \$ 16.000 was received and an additional \$ 5.000 is requested. It was unanimously decided to support the proposal.

In addition to these proposals, \$ 6.000 was granted to Dr. Unsworth by the Project Committee, our Division is asked to provide \$ 1.500 to support participation of IUPAC lecturers to a conference on pesticides to be organized in India under the name of IUPAC. This is a typical procedure within IUPAC. It was decided unanimously to support the request and provide the budget requested.

#### 10. Division Rules. Possible modifications

A possible modification to the Division Rules was proposed by Ken Racke. The aim is to have the Rules in agreement with the bylaws of IUPAC. The modification deals with the fact that the period of service of officers is not in line with the bylaws of IUPAC. Officer succession is now 8 years (2 years Vice-President, 4 years Division President, 2 years Past President), whereas within the IUPAC bylaws a 2-2-2 period is included. The proposal for the change was approved and it was decided to implement it after the 2012-2013 biennium. Laura McConnell will be the president for the next 4 years, a vice-president will be selected in the next round of elections. As there will be no past president in 2014-2015, a transition period will apply for this period. In 2016 the change will be fully implemented.

#### 11. Division Sponsorship of Conferences

An email was received from Prof. Soon for a conference on water and water management in Malaysia in 2013. An outline of the conference was provided by Prof. Soon. Prof. Soon will submit a formal proposal to IUPAC. Prof. Senesi will then write a positive recommendation.

#### 12. Food Chemistry SubCommittee

Christoph von Holst has taken over as chairman of the subcommittee, but has limited time available to revive the Subcommittee. Laura has taken a last step to resolve the problem. Unless within a period of about one year an active group of scientists is found that are willing to serve, the subcommittee will officially be terminated. Another option that will be investigated is to include the topic in the Subcommittee on Crop Protection Chemistry.

#### 13. SubCommittees Reports

- Subcommittee on Environmental compartments: 7 topics for new projects were proposed during a meeting of the Subcommittee in Puerto Rico. A report of the meeting is attached in appendix 1.
- Subcommittee on Biophysical Processes. Three ideas for projects were discussed. These will be brought forward for funding in the next biennium, the first of which is foreseen for September 2011.

- Subcommittee on Crop Protection chemistry. The Subcommittee will meet after the meeting of the Division on Chemistry and the Environment. A report of this meeting will be provided later on.

An issue that was raised while discussing the program of the symposia that are organized by Division in Puerto Rico was Green Chemistry. There might be a possibility to revive this topic in the activities of IUPAC, with active participation of our Division (**Action: Hemda/Laura/Nicola**). It might be considered in future to establish a new subcommittee on sustainable chemistry, possibly replacing one of the existing subcommittees.

14. Reports of Division Representatives in standing Committees (CCE, COCI and ICNTS)

CCE: Hemda Garelick. CCE is an active committee. Hemda is trying to push a training for people actually working in the field of chemical education. CCE will meet after the meeting of Division VI.

COCI: Keiji Tanaka. The next meeting of this committee too will be held immediately after the meeting of Division VI. On the 2<sup>nd</sup> of August there will be a symposium on World Leadership in Chemistry.

ICNTS (Petr Fedotov): One of the main actions has been to review technical reports. A more in-depth cooperation with ICTNS is judged beneficial by Petr. Petr proposes that for instance for future books the nomenclature used is judged by the ICTNS. Petr will discuss this proposal within ICNTS.

15. Nominations of Division Representatives in standing Committees (CCE, COCI and ICTNS) for the biennium 2012-2013

Petr and Hemda were re-confirmed as Division representatives for CCE and ICNTS. As the term of service of Dr. Keiji Tanaka will terminate in 2012, Ken Racke was appointed as the new Division representative within COCI. Finally, Nadia Kandile was appointed as Division representative for CHEMRAWN.

16. International Year of Chemistry (IYC)

Our major activity is the organization of the two symposia during the Puerto Rico conference as this conference is one of the main activities of IUPAC within the IYC.

17. Contribution of Division to Chemistry International

Chemistry International: a request was brought forward by Fabienne Meyers to provide highlights of the Division to be published in CI in anticipation of sponsored conferences, as CI is typically distributed during sponsored conferences. **Willie will ask project leaders to provide a contribution to Chemistry International.**

18. Division representative in editorial board of PAC

The term of service of Ole Hertel has expired and a new representative needs to be assigned. For most Divisions, the Division president is member of the editorial board. **Laura will decide on how to proceed with representation.** An option is to ask Dr. Guibin Jiang to be the Division representative.

19. Division Committee Meeting in 2012

The first option is to have the meeting right before or right after SETAC 2012 in Berlin. SETAC Berlin will run in between 20 and 24 May 2012. Werner Kördel will try to arrange accommodation.

20. Other businesses

The next activity will be a phone conference in the second half of November. **Nicola will circulate a list with possible dates in advance.**

# Appendix 1

**IUPAC General Assembly, Puerto Rico 2011**  
**Division VI- Chemistry and the Environment (DCE)**  
**Sub- Committee 'Environmental Compartments' Meetings**  
**Saturday, 30 July 2011**

## Proposed projects

1. Bioavailability of metals and metalloids? (speciation, bio-ligands model)- **Bradley Miller, Heinz Rudel**, Willie Peijnenburg, Werner Kordel, Yehuda Shevah, Hemda Garelick?. Nadia Kandile  
Initial draft 15-9-11  
Applied/regulatory/recommendations for policy  
  
Action: BM and HR to circulate initial proposal
2. The use of natural polymers in the removal of mercury from dental waste  
  
Action: **Nadia Kandile** to circulate proposal  
Initial draft 15-9-11
3. Atmospheric deposition via aerosol chemistry:  
  
Action: **Leo Klasnic**, Laura McConnell, Nadia Kandile  
Nov 2011
4. Marine pollution (nano plastics, iron seeding)-  
Action: **Leif Abrell, Laura McConnell**  
Nov 2011
5. Renewable resources: Water recycling and sea water desalination (membrane technology)  
**Yehuda Shevah**: Hemda Garelick, Nadia Kandile ,  
  
October 2011
6. Proposal for SETAC  
  
Action: **Laura McConnell**. Yehuda Shevah, Bradley Miller

**Division of Chemistry and Environment (VI)**  
**Subcommittee on Chemistry of Environmental Compartments**  
**2011 Membership**

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