

**Division VI - Chemistry and the Environment (DCE)
Conference Call Meeting –28th January 2016**

Minutes

1. LM: Opening, welcome,

a. Members confirming participation ,

Petr Fedotov- Russia- Division President--	(PF)
Laura McConnell- US- Division Past President-	(LM)
Hemda Garelick- UK- Division Secretary-	(HG)
Rai Kookana- Australia - Division Vice President	(RK)
Nadia kandile – Egypt	(NK)
Manos Dassenakis- Greece	(MD)
Doo Soo Chung- Korea	(DSC)
Heinz Ruedel- Germany	(HR)
Gijs Kleter– Netherland	(GK)
Ana Aguiar-Ricardo – Portugal	(AAR)
Maria José Gonzalez-Spain	(MJG)
Roberto Terzano- Italy	(RT)
Nelly Mañay- Uruguay	(NM)
Bradley Miller- US	(BM)
Annemieke Farenhorst- Canada	(AF)
Irina Perminova -Russia	(IP)

b. Guests attending

Ken Racke - - US

c. Apologies,

Stefka Tepavitcharova - Bulgaria
Baoshan Xing - US
Nicola Senesi - Italy
John Unsworth - UK
Anna-Lea Rantalainen - Finland
Edgard Resto – Puerto Rico

All members present introduced themselves and their work and interests.

**2. HG: Approval of Minutes Division Annual Meeting 8th and 9th August 2015-
Busan, Korea.**

Approved Unanimously. It was also agreed that the list of actions will be further discussed in details at the Division meeting in London (May 28-29th 2016) (appendix 1)

3. Subcommittee reports

a. Subcommittee on Crop Protection Chemistry

GK introduced the report using presentation slides (also appendix 2)

- Symposium during the 46th World Chemistry Congress, Brazil, 2017 (Suggestions made by team members for topics)
- Rio chosen as venue for the 2018 pesticides congress
- Upcoming APACHNE conference in India, April 2016 (jointly organized with IUPAC in collaboration with e.g. Najam Shakil, IARI)
- IUPAC Harmonization Awardee 2016 award to be announced soon, awardee lecture during AGRO ACS meeting in Philadelphia

KR added his report on the 'IUPAC International Award for Advances in Harmonized Approaches to Crop Protection Chemistry' (appendix 3)

LM thanked Ken Racke and John Unsworth for the work towards establishing the communication and contact between IUPAC and AGRO with the latest example of the very successful congress organized jointly by ACS, AGRO and IUPAC. This was 13th IUPAC INTERNATIONAL CONGRESS OF PESTICIDE CHEMISTRY in association with DIVISION OF AGROCHEMICALS – ACS 248th NATIONAL MEETING, August 10–14 2014, San Francisco, California , US. <http://www.iupac2014.org/>

- Various projects nearing completion, others ongoing, sequel to nanopesticides proposed (to be discussed later)
- Pesticides database: continuity pursued
- PF and RK reported on the sequel project to the nano-pesticide project: a draft proposal has been prepared and is awaiting feedback and participation from Industry, so the project can be taken to the next stage.

b. Subcommittee on Chemical and Biophysical Processes in the Environment

- HR reported on the Session “Metals, Metalliods and Elemental Speciation” organized at ICCE2015 (15th EuCheMS International Conference on Chemistry and the Environment, Leipzig, September 2015) – PF and Heinz Ruedel (HR)
- 40 participants have come to the session.
- HG has reported on E-waste Seminar at ICCE2015 (Led by Dr Diane Purchase with approx. 20 participants) and the project meeting that follow that. The team is now established to include chemists, soil scientists, ecumenists and social scientist. The team will have a conference call very soon.
- PF reported on the progress in IUPAC book project (IUPAC-Wiley), eds. Nicola Senesi and Baoshan Xing, which has been completed and is now undergoing review.

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4. Presentation of the budget, and current Projects: LM

LM presented the divisional budget for 2016-2017 biannual

LM and PF explained the system of IUPAC projects (as presented on the IUPAC website <http://www.iupac.org/home/projects.html>)and invited Division members to submit ideas for project proposals

5. Future projects

PF commented on the fact that there are not many new project proposals and invited members of the Division to suggest projects

- IP has reported that she is organising a project group on the creation of a database and guidelines on constituents of organics / molecular component of natural organic matter. There are currently 7 members in the project group.
- DSC – reported about the HPLC 2017 conference Jeju Island (Korea) in November 2017. Doo Soo Chung
He suggested again that the above conference theme will include symposia on water and environmental analysis.
- LM raised the issue that we have lost the connection to Food Chemistry. She reported that she plans to attend a mycotoxin symposium in Winnipeg and to link up with the mycotoxin group to develop a project. <http://wmfmeetsiupac.org/welcome.html>
AF and GK offered help.
- RK and HG presented to state of play on the development of the Fracking project which was originally raised in Busan. HG made contacts with the Chair of COCI, Bernard West who has sent material related to the industry perspective and expressed an interest in the project on behalf of COCI, and the Plenary Speaker from ICCE2015 (15th EuCheMS International Conference on Chemistry and the Environment, Leipzig, September 2015), Avner Vengosh, Professor of Geochemistry and Water Quality, Duke University, US who also expressed interest in the project.

RK plan to set up a phone conference in near future and invite key people to discuss and come up with a more specific topic to propose.

Summary

- Nanopesticides (sequel project) – *Rai Kookana (RK)*
- Fracking (the involvement of COCI) : *RK and HG*
- *Database for molecular components of non-living organic matter – Irina Perminova Workshop and definitions*
- *HPLC 2017 – Jeju Island, Korea – Doo Soo Chung*
- *Mycotoxin Conference in Winnipeg – McConnell*
- Pesticides in Tropical Ecosystems: Chemistry Driven Management, - Mark Silburn and Rai Kookana

6. IUPAC 2017 in Sao Paolo, special symposia

HG reported on the ideas that were presented to the Brazilian organisers following consultation with Division members (appendix 4). In summary it is proposed to have a number of symposia as follows:

1. *Fate of Pesticides in Latin American Environments*

Potential topics include:

- Actual pesticide **usage** in Latin America,
- Examples of pesticide **fate** in tropical and subtropical countries,
- **Regulatory** issues regarding pesticides in the environment,
- **Analysis** of pesticide residues in environmental samples,
- Use of **models** in predicting fate,
- Trends in usage with the advent of **genetically modified (GM) crops**,
- **Lessons** to be learnt in the use of pesticides, and
- Development of **environmentally friendly pesticides**.
- Pesticide impacts on beneficial non-target organisms including pollinators
- Usage of pesticides in minor crops (often not registered specifically for these crops)

2. *Environmental impact of emerging technologies*

- New trends in the determination of contaminants in various environmental compartments (new analytical methods for emerging pollutants, monitoring emerging pollutants in the environment)
- Bioavailability and risk assessment (bioavailability and risk assessment of emerging pollutants, risk of contaminants of emerging concerns)
- Reducing the environmental impact (alternative environmental-friendly technologies, alternative solvents, new technologies for soil/water remediation)
- A workshop on the Environmental impact of E-waste.
The above can be presented as two project proposal and may need additional funds.

3. *The Division Environmental Poster award*

BM and LM reported on the Division Environmental Poster award which was very successful in Korea .

It was agreed that we should have a similar event at the Sao Paulo meeting. It was also agreed not to use the word poster in the award title.

7. IUPAC Centenary, Paris, 2019 – DCE input

GK initiated a discussion about possible connection with OECD Environmental Health and Safety Division.

Suggested the development of a joint event or webinar series. Proposed a possible invitation to their staff, Dr Bob Diderich and Dr Peter Kearns, to the meeting in May to follow this up

8. DCE Meeting in London, May 2016

HG presented the details of the Division meeting on 28-29th May 2016 in the RSC in London.

9. AOB

DSC_reported on the HPLC meeting 2017 and has added that that ACS will be having an Asia Pacific International Conference on Analytical Chemistry in parallel to the HPLC 2017 and he proposed to organise an ACS and HPLC joint session

Submitted to the Division Committee by Hemda Garelick 08/02/2016