



MINUTES

IUPAC Division VI Chemistry and the Environment (DCE) Division Conference Call Wednesday, Sep 19th 2020 from 9:00 am – 12:30 PM (EDT).

Present (15 in total)

Hemda Garelick - UK – Division President
 Roberto Terzano - Italy - Division Vice President
 Annemieke Farenhorst – Canada – Division Secretary
 Rai Kookana – Australia – Division Past President
 Laura McConnell – USA - Emeritus Member
 Bipul Behari Saha – India – Associate Member
 Nadia Kandile – Egypt – Associate Member
 Irina Perminova- Russia - Associate Member
 Diane Purchase – UK - Titular Member
 Fani Sakellariadou – Greece - Titular Member
 Vladimir Beskoski – Serbia - National Representative
 Oluseun Popoola – Nigeria - National Representative
 Tina Sikanen – Finland- National Representative
 Weiping Wu – UK – Project Lead
 Walter Waldman – Brazil – Observer

Regrets: Doo Soo Chung, Petr Fedotov, Bradley Miller, John B. Unsworth

In Lieu of Regrets: Weiguo Song (Titular Member), Yong-Chien Ling, Baoshan Xing (Associate Members); Bulent Mertoglu, Yehuda Shevah, Michal Galambos, Joon Ching Juan, Christina de Matos, Yehuda Shevah, Monthip Sriratana (National Representatives)

1. Welcome and Introductions

Division members on the call expressed joy in re-connecting with each other through a virtual meeting. As well, we welcomed Walter Waldman as an observer.

2. Approval of the Minutes: Division VI Meeting July 2019

Rai Kookana complimented that the minutes taken by Roberto Terzano are excellent.

The minutes were accepted as written.

3. Approval of the Minutes: Division VI Conference Call November 2019

The minutes were accepted as written.

In addition, Hemda Garelick provided a table (see below) to show which Division members are involved in standing committees. A discussion followed particularly as it relates to COCI, CHEMRANWN and SCAR.

Action Items:

1. Hemda Garelick to write an email to Division members and ask who wants to serve in an official capacity as the Division VI representative to 1) COCI and 2) CHEMRANWN. Subsequently, update the table below.
2. Hemda Garelick to include in the table that Rai Kookana is the Division VI member appointed to the Scientific Committee on Antarctic Research (SCAR): <https://www.scar.org/>
3. Rai Kookana to send a paragraph on SCAR to Roberto Terzano. Roberto to add information about SCAR on the Division VI website to indicate the linkage between Division VI (via Rai Kookana) and SCAR.

Committee	Chair	Div Representative
Committee on Chemistry Education (CCE)	Jan Apotheker	Doo Soo Chung
Committee on Chemistry and Industry (COCI)	Anna Makarova	No official Div Representative (Bipul Saha is part of COCI but not in an official capacity as a Division VI representative)
Committee on Chemical Research Applied to World Needs (CHEMRANWN)	Francesca (Fran) M. Kerton	No official Div Representative (Nadia Kandile is part of CHEMRANWN but not in an official capacity as a Division VI representative)
Interdivisional Committee on Green Chemistry for Sustainable Development (ICGCSD)	Pietro Tundo	Nadia Kandile
Pure and Applied Chemistry Editorial Advisory Board	Richard Hartshorn	Yehuda Shevah
Interdivisional Committee on Terminology, Nomenclature and Symbols	Jürgen Stohner	Petr Fedotov

4. Approval of the Minutes: Division VI Conference Call March 2020

The minutes were accepted as written.

Action Item:

- 1. Hemda Garelick to write an email to Division members and ask who wants to serve as a judge for the student poster competition at the IUPAC2021 Montreal. During the call, various Division VI members already confirmed their interest, e.g., Annemieke Farenhorst, Diane Purchase, Weiping Wu etc.*

5. Results of Polling Query to Approve Division VI Meeting Minutes through E-mail Voting

Annemieke Farenhorst reported that the polling query resulted in 12 votes in favour of allowing Division VI members to approve Meeting Minutes by email. There were 0 votes “against”, and 0 votes for “no opinion”.

The Division VI members on the call then proceeded with the motion:

Motion: Division VI will allow for the approval of Meeting Minutes through email voting.

Carried

Subsequently, another motion was presented:

Motion: Division VI will allow for the approval of Projects through email voting.

Carried

Consequently, a brief discussion followed that there might be a need to update the Division VI rules and procedures to reflect the option of email voting.

Action Items:

- 1. Hemda Garelick and Roberto Terzano to review the need to update the Division VI rules and procedures to reflect the option of email voting.*

6. Division VI Multimedia Communication

Roberto Terzano provided for an update on Division VI web pages and social media platforms. Roberto reminded Division members that he can make updates to web pages, as needed, both to the main division page and the subcommittee pages. Laura McConnell has also access to updating the Advisory Committee on Crop Protection Chemistry subcommittee pages.

Roberto Terzano highlighted that we now can integrate videos into our Division VI websites because IUPAC has established its own YouTube channel:

https://www.youtube.com/channel/UCKg5DzBtxwnB45S3PRcX_qw/featured

Anybody can register for IUPAC YouTube channel and watch posted videos. Division VI members who have videos that might be suitable for postings on the IUPAC YouTube channel, should contact Roberto for a further discussion.

Roberto Terzano showed the website link that provides information about Emeritus Fellows, most notably highlighting Laura McConnell. Congratulations Laura! The link is: <https://iupac.org/who-we-are/emeritus-fellows/>

There was also a discussion that the membership lists on the subcommittee pages might need to be updated. Laura McConnell has a spreadsheet that can serve as a start to update current contact information of members.

There was a discussion that some members listed on the Division VI main page or subcommittee pages may not have given permission for their email addresses to be seen on the Internet. Roberto Terzano reminded members that such permission can only be accomplished at the individual member level, rather than through Division VI leadership.

There was a discussion about whether Division VI members could have an option to highlight some of their new publications that are not a direct product of Division VI projects, but still relevant to the topics typically tackled in Division VI projects. For example, new publications that are review articles and already highly cited.

Laura McConnell pointed out that LinkedIn is really a good way for Division VI members to promote our projects and articles. Weiping Wu pointed out that he has posted new publications on his LinkedIn, resulting that such articles were quickly noted by a few thousand scientists. There was a discussion that some members wanted to learn more about LinkedIn so they can be more effective in promoting their projects and articles on this platform.

In addition, there was a motion to officially appoint Laura McConnell as the Chair to the Advisory Committee on Crop Protection Chemistry as follows:

Motion: As a Divisional committee, we nominate Laura McConnell to serve as the Chair of the Advisory Committee on Crop Protection Chemistry.

Carried

Action Items:

- 1. Laura McConnell to review the spreadsheet and share it with the members of the Advisory Committee on Crop Protection Chemistry with the aim to ensure that the spreadsheet accurately reflects the membership on this subcommittee, including membership contact information. Subsequently, the website of the Advisory Committee on Crop Protection Chemistry can be updated.*
- 2. Laura McConnell to also share the spreadsheet with Bradley Miller so he can share it with the Subcommittee on Chemical and Biophysical Processes in the Environment to ensure that the spreadsheet accurately reflects the membership on this subcommittee, including membership contact information. Subsequently, the website of the Subcommittee on Chemical and Biophysical Processes in the Environment can be updated.*
- 3. Roberto Terzano to show the link to Emeritus Fellows on the Division VI main page and/or subcommittee pages.*
- 4. Roberto Terzano to allow for some of such publications to be listed on the subcommittee pages. As well, to create a link on the main page of the Division VI website to direct internet users to the subcommittee pages.*
- 5. Laura McConnell and Weiping Wu to work together to provide guidelines to Division VI members on how to effectively utilize LinkedIn as a platform, including how to post articles*

7. Division VI Budget

Every division has available \$2,000 for operational budget. We need to propose projects as \$35,000 funds are available.

Hemda Garelick made reference to a project led by Mei-Hung Chiu from Taiwan on a global approach to addressing the gender gap in natural sciences. Oluseun Popoola indicated that Nigeria is also very active in initiatives directed to bridging the gender gap. Annemieke Farenhorst expressed interest in learning more about these initiatives as she has research projects in this area, with collaborators from Canada, Sweden and Germany, and some publications.

Action Item:

1. Hemda Garelick to contact Mei-Hung Chiu to seek information about the status of the project that is addressing the gender gap and see if there are possibilities for future collaborations with Division VI members such as Oluseun Popoola in Nigeria, Annemieke Farenhorst in Canada and others.

8. Sub-committee Reports

8.1. Advisory Committee on Crop Protection Chemistry

Laura McConnell informed the Division VI members that the Advisory Committee on Crop Protection Chemistry (virtually) met in July 2020.

One plan that arose from the Advisory Meeting is for the subcommittee to proceed with the development of a "Good News on Crop Protection" newsletter, which has been championed so far by Zisis Vryzas from Greece and Geis Kleter from the Netherlands.

Some ideas for new projects were discussed during the Advisory Meeting and Laura is expecting that some of these ideas might be developed into new proposals to be refined when the Advisory Committee meets again in November 2020.

Action Item:

1. Laura McConnell to solicit feedback from Division VI members on the "Good News on Crop Protection" newsletter

8.2. Subcommittee on Chemical and Biophysical Processes in the Environment

The Subcommittee on Chemical and Biophysical Processes in the Environment met in September 2020. Diane Purchase indicated that the Subcommittee also discussed options for establishing a newsletter. However, for these initial discussions to flourish, the subcommittee needs champions to step forward.

Diane Purchase indicated that the Subcommittee has a new book coming out. As well, there are some new project ideas including in the areas of: 1) COVID-wastes environmental impact and

disposal; 2) The sorption of chemicals by microplastics; and 3) Circular Economies/Smart Cities: urban mining.

A discussion followed in that there is already an on-going project on microplastics that is led by Weiping Wu and includes other Division VI members.

Action Item:

- 1. Weiping Wu to provide some information to whether a discussion on the sorption of chemicals by microplastics can be integrated into the current project, or whether it is better to develop this as a stand-alone project.*

9. Cooperation and Joint Project with COCI

Bipul Behari Saha reminded the Division VI members that the Chair of COCI is Anna Makarova and further informed members that he has agreed to become the Secretary of COCI. Bipul highlighted that COCI is an active committee that wants to build relationships with IUPAC Divisions, including Division VI.

A current project includes “Systems Thinking in Chemistry for Sustainability: Towards 2030 and Beyond”, which was approved by IUPAC for a starting date on September 1, 2020. The aim of this project is to publish a valuable book targeting students to learn about how green chemistry is being used by industry. Other points of discussion included that a project on COVID and waste disposal is certainly of interest to COCI, and that COCI members are involved in outlining how IUPAC has contributed to enhancing the United Nations’ Sustainable Development Goals.

Action Items:

- 1. Hemda Garelick to share with Division VI members an email written by Jan Apotheker that provides further information about the project “Systems Thinking in Chemistry for Sustainability: Towards 2030 and Beyond”*
- 2. Nadia Kandile to send her project idea on “Sustainable and green solutions for Covide-19 pandemic plastic wastes management to reduce risks of planetary boundary threat” to Division VI members*

10. Cooperation and Joint Project with IHSS

The International Humic Substances Society held a meeting in October 2020.

Irina Perminova has been appointed Vice-President of IHSS and has set a priority of developing a project towards the development of a chemical definition pertaining to humic substances that goes beyond classifying humic acids, fulvic acids and humin on the basis of solubility. Some Division VI expressed their interest in joining such project including Fani Sakellariadou and Annemieke Farenhorst.

Action Item:

1. *Irina Perminova to send her project idea on “Chemical definition of humic substances” to Division VI members*

11. Collaborations with Other International Organizations

There was a discussion about an ongoing collaboration with the Organization for the Prohibition of Chemical Weapons. Roberto Terzano was initially approached by a scientist in Italy to develop a project for the diffusion of the “Emergency Response Guidebook” in Russian speaking countries, especially of the Central Asian Area, and there have been substantial efforts to identifying collaborators, and collaborative units within OPCW, Division VI, Division VII, COCI and CCE. The overall aim of the project includes IUPAC leading an awareness campaign for managing chemical risk and the distribution of the guidebook.

12. IUPAC2021 Montreal: Symposia in Sustainability

12.1. Approved Symposia

12.2 Approaches to Budgeting for Symposia

The following symposia have been approved for IUPAC2021 Montreal:

- Sustainability Environmental Chemistry and Sustainability: The Environmental Impact of Fires. *Organizers (in alphabetical order by last name): Fani Sakellariadou, Roberto Terzano*
- Sustainability Environmental Chemistry and Sustainability: Emerging Technologies and Conservation Practices for Sustainable Agriculture and Public Health. *Organizers (in alphabetical order by last name): Annemieke Farenhorst, Laura McConnell, Diane Purchase*
- Sustainability Environmental Chemistry and Sustainability: A Healthy Intake: Environmental Pollutants in Air, Water, Food and their Removal. *Organizers (in alphabetical order by last name): Hind Al-Abadleh, Patrick Hayes, Bradley Miller, Kevin Wilkinson*
- Sustainability Environmental Chemistry and Sustainability: Sustainable Polymers *Organizers (in alphabetical order by last name): Nadia G Kandile, Christine Luscombe, Bulent Mertoglu, Wu Weiping*

Each of the above organizers are asked to have in their symposia a diversity of speakers. Specifically, symposia organizers are asked to include at least 50% of speakers to be women, racialized persons, Indigenous Peoples, and/or persons with a disability.

A general discussion followed whereby Division VI members recognized that:

- It will be important to look for external sponsorships, e.g. universities, industry
- It is not clear whether there is a possibility for a blended conference
- If travel funding is required, it would helpful to develop Division VI projects that speak to the four approved Sustainability Environmental Chemistry and Sustainability Symposia (see above)

Action Item:

1. *Annemieke Farenhorst to make inquiries in Canada to whether there is a possibility for a blended conference.*

13. Report on the Approved Projects and Proposals

Fani Sakellariadou informed Division VI members that there are 14 active projects in total. Two projects have asked for an extension for 18-months each. Out of the 14 projects in total, there are four projects that have not replied to the inquiries that Fani sent and three of these four projects need to be finished in 2020.

Motion: As a Divisional committee, we approve the requested extensions.

Carried

Action Items:

1. *Hemda Garelick to contact two of the four project leads that did not provide a response to the inquiry of Fani Sakellariadou, asking them to provide for a project update. These two projects are 2018-013-2-600 Shevah and 2018-014-1-600 Gubala.*
2. *Laura McConnell to contact the other two of the four project leads. This includes 2013-029-2-600 Kleter, who provided an update to this project in March 2020. This also includes 2014-026-3-600 Obare for which the status is unknown.*

14. New Call for Project Proposals – Moving Forward

Hemda Garelick reminded that the Division VI members should allocate time to reviewing the proposed project “Systems Thinking in Chemistry for Sustainability: Towards 2030 and Beyond” (see agenda item 9 above).

A general discussion followed on how to prepare for the new call for Project Proposals.

Action Item:

1. *Roberto Terzano to update the Division VI website to include the new call for Project Proposals*

15. Information about the Process for Division Nominations and Elections

Laura McConnell provided the Division VI members with information about the process for the 2022-2023 Elections for Divisions, Standing/Interdivisional Committees. All appointments are typically for two years. Since current appointments end in 2021, the Division VI members need to start thinking about appointments to be made in 2022. Nominations will have to be early enough so that they can be included in the Elections for review and approved at the next Assembly. Particularly important are the nominations for Titular members and officers.

Laura McConnell also informed Division VI members that there will be a list coming out that explains current and previous contributions that Division VI members have made, and how this might influence what they can be nominated for in the future, including for 2022.

Laura McConnell also reminded individual members, who have the ability to do so, to ensure that they pay their individual IUPAC membership fees for 2021.

16. Global Women's Breakfast

Laura McConnell shared some slides with the Division members that explained the successes of the Global Women's Breakfast which has been organized for the past several years. It typically starts in New Zealand and then moves around the World to end in Hawaii. Last year, there were at least 242 events in 53 countries, with at least 10,000 participants. Laura acknowledged that several of Division VI members play a key role in organizing events in their countries, such as Bipul Behari Saha in India, Oluseun Popoola in Nigeria, Nadia Kandile in Egypt, Fani Sakellariadou in Greece, Annemieke Farenhorst in Canada, Rai Kookana in Australia, as well as Hemda Garelick and Diane Purchase in the UK.

The date of the next Global Women's breakfast will be February 9 2021. The GWB 2021 website will be updated within the next month or so to provide further information, and make available. A flyer can be circulated to assist in promoting the event. Laura McConnell encouraged Division VI members to play a key role in organizing the event in their institutions and countries, which would start by signing up for the GWB 2021 event when possible.

Laura McConnell also informed Division VI members on "Chemists Beyond the Bench", which involves a webinar series made possible because of a partnership between IUPAC and the International Younger Chemist Network (IYCN). Division VI members are encouraged to register for information about this initiative and the next webinar:
<https://register.gotowebinar.com/register/587861997423364879>

16. New ACS Journal

Laura McConnell provide the Division VI members with information about a new ACS Journal: [ACS Agricultural Science and Technology](#). Laura will be serving as Deputy Editor for this journal and welcomes any suggestions for Division VI about nominations to serve on the Editorial Advisory Board, or as an Associate Editor.

17. Additional Agenda Items or other New Business

None.

18. Approximate Timing of Next Meeting and Adjournment

Discussed was that the next meeting should be held in the first few months of 2021, unless urgent matters arise in 2020 that could not be discussed by email and require a Division VI virtual meeting.

Meeting Adjourned.