

Sub-Committee on Green Chemistry

Minutes of meeting

Busan, South Korea – August 8th 2015 - h. 12.30
BEXCO Conference Center; room 313

1. Welcome and Apologies

The Chair-Professor Pietro Tundo welcomed the committee members, guests and the Young Observers. He conveyed apologies from absents members. The participants introduced themselves, their work and interest.

PRESENT: Divisional members and/or sub-committee representatives and national representatives:

Pietro Tundo (PT, Italy) – Chair
Natalia Tarasova (NT, Russia)- (IUPAC vice-President)
Mary Garson (MG, Australia)- (President Division III)
Virinder Parmar (VP, India)
Christopher Brett (CB, Portugal)
Ana Makarova (AM, Russia)
Kenneth Seddon (KS, UK)
Christine Luscombe (CL, USA)

OTHER ATTENDEES (including young attendees):

Laura McConnell (LM, USA, President Division VI)
Vladimir Zharov(VZ, Russia)-(UNESCO, Paris)
Nikolai Nifantiev, (Russia)
Oleg Demchuk (OD, Poland)
Aurelia Visa (AV, Romania)
Ramchandra Kandel (RK, Nepal)
Dannibelle Haase (DH, USA)
Jyoti Giri (JG, Nepal)

APOLOGIES:

Buxing Han (BH, China)
Liliana Mamino (LM, South Africa)
Claudio Mota (CM, Brazil)
Andrea Vavasori (AV, Italy)
Janet Scott (JS, UK)
Philip Jessop (PJ, Canada)
Ekaterina Lokteva (EL, Russia)

Natalia Plechkova (NP, UK)
Patricia Vazquez (PV, Argentina)
Vania Zuin (V.Z., Brazil)
Patrick Moyna (PM, Uruguay)
Rameshwar Adhikari (RA, Nepal)

2. Organization of the sub-Committee on Green Chemistry

The Sub-Committee on Green Chemistry is managed by the executive committee, EC, which helps the Chair. It is composed by: JS, AM, CM, LM. This executive committee met by Skype or by email. EC represents an operative structure which is able to manage projects and other accomplishments. Each member have a precise role:

Anna Makarova, Management within IUPAC.
Liliana Mammino, Education
Claudio Mota, Projects
Janet Scott, International activities

PT suggested to revise the structure of the S/C according to the results the several meetings which will take place during the next six days in Busan. S/C agrees with the aim to strengthen the collaboration within IUPAC.

MG thanked Professor PT and BH for chair the sub-committee. She proposed to involve the titular member ex. JS. The group should decide who go forward. As a positive comment she welcomed the participation of members from different divisions like Division I (CB), VI (LM) and Division IV (CL).

From Division I - CB considers that Green Chemistry Sub-Committee should be outside of the division and to be a standing committee. If the S/C is an independent forum (as previous proposed) then it will have no chance to have or manage a financial support. The money come to Divisions or Committees at the moment. Actually, this Green Chemistry Sub-committee is an interdivision body between Environmental, Education, Polymers, Health, and Organic-Inorganic Chemistry.

NT discussed administrative and scientific matters. From scientific point of view in September 2015 UN will be discussed new sustainable goals. One of the 12 priorities is chemistry.

In some countries green chemistry is called sustainable chemistry. NT said that more discussion is necessary in order to make ready a new and useful organization.

3. Phosagro/Unesco/IUPAC Symposium

PT welcome VZ from UNESCO main organizer of the Phosagro-UNESCO-IUPAC partnership “Green Chemistry for Life”.

The “Green Chemistry for Life” Project was launched in 2013 by UNESCO’s International Basic Sciences Programme (IBSP) and PhosAgro, the largest producer of phosphate-based fertilizer in Europe, in close cooperation with IUPAC. In 2014 year 140 project proposals were received, while in 2015 125 projects were received from Asia, Europe (west and east) but just a few projects from Africa. The suggestion was to promote better this grant in Africa.

During 2014 and 2015, 12 excellent projects have been supported and financed (about 30.000 US\$ each).

With respect with the huge number of grant proposals, KS observed that green chemistry works.

PT noticed that the quality of the proposals of second year was very nice and better that in the first competition.

4. 6th Conference, IUPAC ICGC-6, Venice 4-8 September 2016. Report and proposals. www.greeniupac2016.eu

PT intends to organize not just lectures in Green Chemistry at this Conference, but also talks connected with industry. In this respect PT would like to invite somebody from Clariant and Bayer German companies to promote green chemistry. It would also be possible to dedicate one day to PhosAgro/UNESCO/IUPAC Award. To improve the green chemistry papers quality was suggested to invite the green chemistry journal publishers. JS is already dedicated to this end. Most probable this conference will be held in Mestre. Around 500 attendees are expected. Prof. Scrosati from Italy and Prof. Li from Canada already agreed to have plenary lectures. Also Professor David Black, Secretary of ICSU, agreed to speak. Other speakers will be invited soon and PT asked the S/C for support and suggestions.

VP informed us that Elsevier start a green chemistry project.

KS informed that in October 2016 in Germany will be the “Green Solvents Conference” and recommended to not overlay topics and the related speakers.

MG propose to involve more women in this conference. She proposed that LM, president of Division VI, to give a talk and/or NT as next IUPAC President.

Text and topics of the conference first circular were slightly modified.

5. 7th Conference. IUPAC ICGC-7, Moscow, May 2017 – Presentation

AM presented the IUPAC ICGC-7 which will be held in Moscow, May 2017. This conference is dedicated to Valentin Afanasievich Koptug (1931-1997), ex-president of IUPAC. The conference is supported by Russian Science Federation.

Regarding the organizing of this conference (within less than one year from ICGC-6), KS brought the attention to immediacy of these Conferences.

6. 8th Conference, IUPAC ICGC-8, August/September 2018 - Proposals for the venue.

Proposals for the locations of ICGC-8 were Asia (suggested by PT) or Greece (proposed by KS). Location will be decided on 2016 in Venice.

7. Projects of the our sub-Committee (past, present, future)

The Sub-Committee on Green Committee used to have many projects in the past. Now there are only few active projects. PT- chairman and CM, Professors He Liang-Nian and Ekaterina Lokteva are Members of the Task Group of the Project dealing with the book titled "Chemistry beyond Chlorine". This project has already 22 chapters finished. The provisional list of contributions was circulated to the attendee. Some chapters from industry are still missing: a general vision of industry about this subject matter. The topics of the book range from chemicals that can replace alkyl halides, catalysts to replace acyl halides to solvents replacing methylene chloride. The book will be ready in few months and will be published by Springer.

Liliana Mammino and Vania Zuin are organising a Symposium at the University of Venda in November 2015 (<https://sites.google.com/site/acrice2015/home>), focused on Green Chemistry in LAN and African universities. The webpage is updated and a paper will be written for the CI as a result of such initiatives.

Another activity is the publication of a RSC book (<http://pubs.rsc.org/en/content/ebook/978-1-84973-949-8#!divbookcontent>), which will be launched in South Africa in November.

OD proposed a project about what is green and what is not, because every country considers green chemistry in a different way. So, it is difficult to define the

green chemistry, without a worldwide discussion. Each country looks at their own needs and chemical industry is doing the same.

AM – proposed a project to present IUPAC activity to SAICM. The project will attract funds from IUPAC and SAICM. Green Chemistry will be a priority for SAICM in future. PT encourage AM to go forward with this proposal.

8. Projects and collaborations with other IUPAC Divisions and Committees

Interdivisional projects are encouraged. Meetings at this regard will take place in the next days in Busan.

9. CHEMRAWN VII Award on Green and Atmospheric Chemistry

This award is not well advertised; only a few proposals were received in the last competitions. This award is advertised in Chemistry International around November-December with the deadline to apply by the end of March; this is not enough. Extra ways to advertise this award have been discussed, such as Green Chemistry Conferences, blogs or by some publishers. UNESCO might advise how to advertise this award in its website.

OD proposed to advertise for free the Awards on Current Chemistry Letters. The S/C encouraged and agreed.

10. Any Other Business

PT illustrated the need to improve the international representative membership of S/C by including new young members. The S/C will welcome new proposals, provided they will include the CV of the applicant.

Aurelia Visa, Romania and Oleg M. Demchuk, Poland asked to be accepted as new members of the S/C. Their CVs are here attached for evaluation.