

Newsletter 2020 of the Interdivisional Committee on Green Chemistry for Sustainable Development, ICGCSD

Editor's note: Below is the 2020 newsletter; it was possible thanks to your hard work and your kindness to share the materials. Please keep sending your items, including pictures, or suggested topics for future issues via e-mail to apascariu@yahoo.com. Please circulate this newsletter to all interested parties. Best regards, Aurelia Visa

ICGCSD Members 2020-2021:

Core Membership: Prof. Pietro Tundo *STC-Chair*, Prof. Buxing Han- *STC-Secretary*,

Titular Members: Dr. Jonathan Forman, Prof. Klaus Kümmerer, Prof. Natalia Tarasova

Associate Members: Prof. Florent Allais, Dr. Aurelia Visa, Prof. Jane Wissinger

Division Representatives: Prof. Pier Metrangolo -DR I, Prof. Jorge Colón - DR II, Prof. Liliana Mammino - DR III, Prof. Ana Aguiar-Ricardo - DR IV, Prof. Zoltan Mester -DR V, Prof. Nadia Kandile DR VI, Dr. Alan Hutton -DR VIII, Dr. Anna Makarova -CR COCI

Advisory Board ICGCSD, Mike Schwenk, Mirabbos Hojamberdiev, Fabio Arico, Liu Zhimin, James Clark, Bipul Saha, Haoran Li

The first Division Virtual Meeting was held on 30 January 2020. The agenda contains topics as communication and collaboration with Professional Bodies, Stakeholders and Industry: UNESCO, ISC, OPCW, ISC₃, ACS/GCI, EuCheMS Division on Green and Sustainable Chemistry, projects and awards information under ICGCSD umbrella, biennium 2020-2021 budget, statement and events (conferences, meetings and summer schools) in 2020.



Some of the participants to the first virtual meeting.

Projects progress and new

Current projects-Metrics for Green Syntheses https://iupac.org/projects/project-details/?project_nr=2017-030-2-041. The project main objective is to develop Green Metrics and harmonize the correct application of green metrics analysis in syntheses. The outcomes were sent on January 11th to the IUPAC Secretariat (so, to ICTNS) for evaluation. Since a little money is left, we have the opportunity to present the current results of the

project in order to pave the way for the Step 2; the latter will concern Recommendations, which is a more difficult task. Participation of ICTCN in such a meeting (to be held maybe on the occasion of the Summer School in Venice this July and/or in Athens) will be appreciated.

New project proposals to be considered/developed (17UNSDGs)

A project on the 17UNSDGs is proposed. This followed up the Special Symposium held last July in Paris; Miraboss Hojamberdiev already collected the most important IUPAC projects for the last 20 years; this Symposium was organised and coordinated by ICGCSD with the fundamental contribution of all Divisions. Tundo explained that this new project might be a good starting point for future actions under IUPAC umbrella; sustainable development and coordination on such topics is one of the Terms of Reference of our Committee. The results and the work of this Project are relevant to the General Assembly in Montreal, where 17UNSDGs will be one of the main topics. Each division will be asked, through each division representative, to contribute with a representative(s) on this project and also to give financial support to it.

Everybody agreed that Miraboss Hojamberdiev to lead this project. In this respect he will be contacted by Pietro Tundo and asked to write a draft project proposal to be submitted first to each division representative and to ICGCSD members.

Other projects

No other project was proposed at the moment, but Pietro Tundo stressed that the division delegates have to propose projects as it is written in the Terms of Reference. Therefore, we are open for new proposals and collaborations.

Prizes and Awards

1. The **Chemrawn VII** prize is given every two years by IUPAC during International Conference on Green Chemistry. The Prize of USD 5000 is granted to a young investigator (less than 45 years of age) from an emerging region who is actively contributing to research in Green Chemistry. The research topics that are covered by the prize include: atmospheric chemistry, use of alternative feedstocks, use of innocuous reagents, employing natural processes, use of alternative solvents, design of safer chemicals, developing alternative reaction conditions, minimizing energy consumption. The Award will be presented at the 9th IUPAC International Conference on Green Chemistry, 18-22 October 2020, Athens, Greece, -where the winner will be asked to give a lecture. The prize is advertised on IUPAC webpage (<https://iupac.org/2020-chemrawn-vii-prize-for-green-chemistry-call-for-nominations/>) and 9th IUPAC International Conference on Green Chemistry web page.

2. The **NHU award** is financed by the corresponding Chinese chemical industry. The objective of NHU award is to encourage young professional chemists and experienced chemists of the importance of advancements in Green Chemistry. IUPAC-Zhejiang NHU International Award. Last time the scheme for the NHU award included: Three prizes for three early career chemists, 2,000 US\$ each, who have received their Ph.D. (or equivalent) degree, or completed all Ph.D. **requirements**, including successful defense of their doctoral thesis within the last 3 years (2016-2018) and one prize to an experienced chemist (10,000 US\$) who should have made significant contributions to green/sustainable chemistry throughout their career. This prize winner will be communicated during 48th World Chemistry Congress held in Montreal, 13-20 August 2021.

3. The aim of the **PhosAgro/UNESCO/IUPAC Partnership in Green Chemistry for Life** is to generate and apply new scientific knowledge in green chemistry through the promotion of the activity in this area of young scientists. The PhosAgro/UNESCO/IUPAC project will offer research grants of up to US\$30,000 to scientists aged 39 and under with an innovative research project that respects the 12 principles of green chemistry, to help them implement their project. <http://www.unesco.org/new/en/natural-sciences/science-technology/basic-sciences/chemistry/green-chemistry-for-life/> Deadline for applications: April, 25th, 2020.

IUPAC endorsed conferences

Congress in Athens (October 18-22, 2020) and proposals for 2022

Konstantinos Triantafyllidis, Aristotle University of Thessaloniki, the chair of the 9th IUPAC International Conference on Green Chemistry prepared all the necessary things for this conference. (<https://greeniupac2020.org/>)



Summer School on Green Chemistry in Venice (July 5-10, 2020)

On 28 February 2020 the applications for financial support was close and after the Scientific Committee will select the winner. The Summer School on Green Chemistry will be held in Venice from 5th to 10^h July 2020 www.unive.it/ssgc and <https://iupac.org/event/postgraduate-summer-school-on-green-chemistry/>.

Professor Tundo announces that the school will be organized in CAMPLUS Venice.

<https://www.camplusapartments.it/en/students/housing-solutions/venezia/camplus-venezia-santa-marta/38/>



Upcoming meetings:

Next virtual meeting is proposed to be done on 15th May after the Bureau meeting, an hour has to be agreed. A *second meeting* will be face-to-face meeting before the Summer School on Green Chemistry at Venice start (5-10 July 2020); Saturday 4th was proposed.

A *third meeting* in person is in program at Athens at the 9th IUPAC International Conference on Green Chemistry.



Membership – Standing Committee
Interdivisional Committee on Green Chemistry
for Sustainable Development (ICGCSD)
2020-2021

Name	Status	Term	NAO
Core Membership			
Prof. Pietro Tundo	STC-Chair	2018-2021	Italy
Prof. Buxing Han	STC-Secretary	2020-2021	China/Beijing
Dr. Jonathan Forman	TM	2020-2021	Netherlands
Prof. Klaus Kümmeler	TM	2020-2021	Germany
Prof. Natalia Tarasova	TM	2020-2021	Russia
Prof. Florent Allais	AM	2020-2021	France
Dr. Aurelia Visa*	AM	2020-2021	Romania
Prof. Jane Wissinger	AM	2020-2021	USA
Non-Core Membership			
Prof. Pier Metrangolo	DR I	2018-2021	Italy
Prof. Jorge Colón	DR II	2018-2021	Puerto Rico
Prof. Liliana Mammìno	DR III	2020-2021	South Africa
Prof. Ana Aguiar-Ricardo	DR IV	2020-2021	Portugal
Prof. Zoltan Mester	DR V	2018-2021	Canada
Prof. Nadia Kandile	DR VI	2020-2021	Egypt
Dr. Alan Hutton	DR VIII	2020-2021	South Africa
Advisory Board			
Prof. Mike Schwenk		2020-2021	Germany
Dr. Mirabbos Hojamberdiev		2020-2021	Uzbekistan
Prof. Fabio Arico		2020-2021	Italy
Prof. Zhimin Liu		2020-2021	PR China
Prof. James Clark		2020-2021	UK
Prof. Bipul Saha		2020-2021	India
Prof. Haoran Li		2020-2021	PR China
<i>5 TMs, 3 AMs, 7 DRs, 7 AB</i>			