Division VI – Subcommittee on Chemical and Biophysical Processes in the Environment activities in 2019

Introduction
This subcommittee focuses on topics regarding the distribution and environmental fate of chemicals (inorganic and organic compounds, nanomaterials), chemical and biophysical processes in environmental compartments (e.g., in soil and aquatic ecosystems) and interactions with organisms (bioavailability).

Although many of the members of the Subcommittee on Chemical and Biophysical Processes in the Environment are elected members of the IUPAC Division of Chemistry and the Environment (Division VI), the subcommittee is open to all scientists that are interested in questions regarding the topics of the subcommittee. We are in the process of confirming the membership list.

Recent activities
IUPAC 47th World Chemistry Congress Paris 2019
Our members led the organizing committee and chaired a symposium in the IUPAC 47th World Chemistry Congress (in Paris 5-12 July, 2019) and the Chemistry and the Environment Division Award. The symposium highlighted the role of innovative chemistry in: a) end-of-pipe solutions for industrial processes; b) technologies for pollution and wastes reduction and control; and c) approaches to tackle global environmental challenges.

The symposia took place over two days (10-11th July), during which a number of high-profile international speakers presented on three special sessions:

- Innovative chemistry in industrial solutions
- Advanced techniques for pollution and waste reduction
- Novel approaches to tackle global environmental challenges

All three sessions were well-attended and well-received, raising awareness of the important topics associated with the work and expertise of Division VI membership. They also provided the opportunity to address specific regional problems and expand current, mainly EU and US based networks.

World Mycotoxin Forum 2019
Prof Diane Purchase of the subcommittee represented IUPAC to give a keynote in the World Mycotoxin Forum meet IUPAC100 in Belfast (14-16 October 2019).
https://www.worldmycotoxinforum.org/

CLEAR2020 13-16 May 2020
Profs Diane Purchase and Hemda Garelick chair and lead the organizing committee in London of this international conference. The meeting is endorsed by IUPAC but it has been postponed to June 2021 due to Covid-19.

APCE & CECE 2020 1-5 November 2020
Prof Doo Soo Chung chairs and leads the local organizing committee in Angkor Wat of this joint meeting. He is supported by other members of the subcommittee and the division. The meeting has been endorsed by IUPAC and it is supported by the Financial Support for Conferences in Scientifically Emerging Regions.
Publications from subcommittee projects:


Projects update
Project updates. Some actions are still outstanding.

<table>
<thead>
<tr>
<th>Project</th>
<th>Updates</th>
</tr>
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<tbody>
<tr>
<td>2014-026-3-600 Obare</td>
<td>Due 30-Jun-2020</td>
</tr>
<tr>
<td>2014-031-3-600 Purchase</td>
<td>manuscript accepted by PAC</td>
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<tr>
<td>2016-045-2-700 Xing</td>
<td>manuscript is accepted by NanoImpact</td>
</tr>
<tr>
<td>2016-047-1-600 (Xing)</td>
<td>Most chapter readied. Expect to submit to publisher in April 2020.</td>
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<tr>
<td>2018-013-2-600 Shevah</td>
<td>Update needed</td>
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<tr>
<td>2018-039-3-600 Sakellariadou</td>
<td>Update needed</td>
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<tr>
<td>2019-026-2-600 Wu*</td>
<td>Kicked off meeting held. Progressing well.</td>
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<tr>
<td>2019-029-2-600 Miller*</td>
<td>Kicked off meeting held. Progressing well.</td>
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</tbody>
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**e-waste project with CHEMRAWN**
The e-waste in Africa meeting is to be held in May 2021. Potential project collaboration between the division and the committee, led by Profs Hemda Garelick, Diane Purchase, Nadia Kandile and Dr Oluseun Popoola of the subcommittee.

Workshop and Divisional Meeting in Angkor Wot
Prof Chung reported that the conference may be cancelled or postponed due to Covid-19. He will keep us informed.

* New project approved in 2020

Upcoming activities:
Three symposia proposals have been submitted to the IUPAC World Chemistry Congress 2021

Montreal organisers for approval:

- ‘The environmental impact of fires’: to be chaired by Prof Roberto Terzano (Italy) and Prof Fani Sakellariadou (Greece)
- ‘Emerging technologies and conservation practices for sustainable agriculture and public health’: to be chaired by Prof Annemieke Farenhorst (Canada), Prof Diane Purchase (UK) and Dr Laura McConnell (US) – intra sub-committee collaboration.
- ‘Sustainable Polymers’: to be chaired by Dr Weiping Wu (UK), Prof Bulent Mertoglu (Turkey), Prof Nadia Kandile (Egypt) and Prof Christine Luscombe: President of IUPAC Division IV, Polymer Division. (US) – inter divisional collaboration.