

Newsletter - November 2022

Learn about our recent Exploitation Workshop in Uganda, publications and more!

EU-Africa Cooperation 2nd - 4th November 2022



**WORKSHOP ON
INNOVATIONS FOR
A NEW AGE OF THE
CHEMICAL INDUSTRY**

**RENEWABLE
ENERGY
CONFERENCE
2022 (REC22) & EXPO**



The FlowPhotoChem team met for our third face-to-face meeting in Kampala, Uganda on the 2nd of November 2022. Partners gave updates on their work developing the photoelectrochemical, electrochemical and photocatalytic flow reactors, which will be combined into an integrated demonstrator reactor for the production of ethylene. We also continued our life cycle analysis work.

Following the plenary, members of the FlowPhotoChem team participated in a [panel session](#) at the Renewable Energy Conference (REC2022) meeting on the 3rd of November, which hosted over 1,000 participants. The session featured FlowPhotoChem researchers, innovators, and practitioners from the Global North with their counterparts from the Global South discussing avenues of developing and deploying technology. The panellists included Prof. Wasswa

[Center \(DLR\)](#), Dr Justus Masa, [Kyambogo University](#), Uganda, and Dr Juliet Kyayesimira, also of [Kyambogo University](#).



To wrap up the EU-Africa activities, the team hosted a 'Workshop on Innovations for a New Age of the Chemical Industry' on the 4th of November, led by Dr. Justus Masa of Kyambogo University. Around 80 people joined the hybrid meeting in person and online, with participants from a broad range of sectors and countries represented. Speakers included academic researchers and industry representatives, as well as the Hon. Dr. Monica Musenero, Minister of Science, Technology and Innovation, Office of the President as [Chief Guest](#) and Hon. Eng. Dr. Irene Nafuna-Muloni who gave the Keynote about 'Incentivising the Uptake of New Innovations to Accelerate Uganda's Green Energy Transition'. Check out videos of the workshop [here](#).

Recent Conferences & Meetings



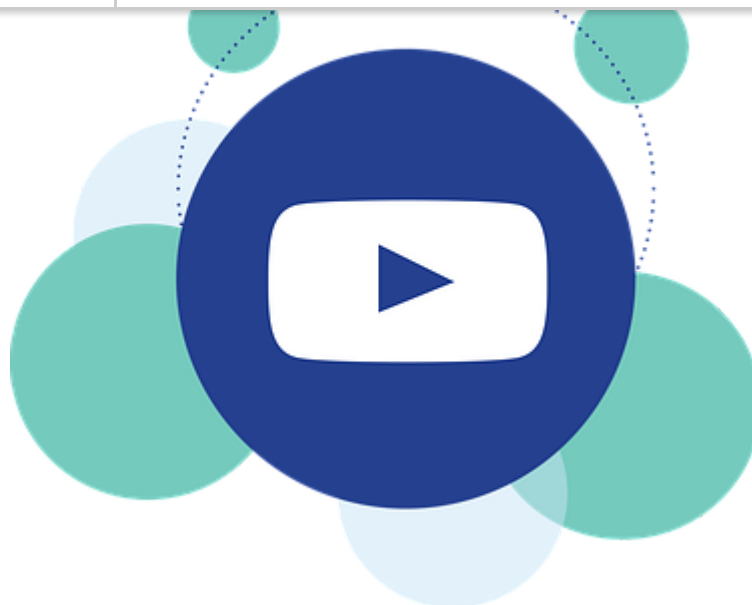
We're delighted that many conferences have started again in person! FlowPhotoChem researchers have been busy sharing our results at a number

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- Dr Josep Albero of the [Instituto Mixto Universitario de Tecnología Química CSIC-UPV](#) presented FlowPhotoChem at the [European Research and Innovation: Transformation and storage of renewable energy Workshop](#) in Barcelona on 28th October 2022.
- Dr Csaba Janaky of the [University of Szeged](#) delivered an invited talk 'Differences and Similarities of Electrochemical CO₂ and CO Conversion' at [MAT-SUS](#), Materials for Sustainable Development Conference, in Barcelona on 26th October 2022.
- Dr Pau Farràs of the [University of Galway](#) presented FlowPhotoChem technologies at the CCUS conference in Galway on 13th October 2022 in a keynote presentation on 'Electro, Photo and Biocatalysis: Efficient Ways for H₂O Oxidation and CO₂ Conversion'.
- Hanka Besic of the [University of Galway](#) presented a [poster](#) 'Sustainable chemicals from sunlight and carbon dioxide' at the Galway Carbon Capture, Utilisation and Storage (CCUS) Symposium on 13th October 2022.
- Congrats to Gumaa El-Nagar, Flora Haun, Siddharth Gupta, Sasho Stojkovijk and Matthew T. Mayer of the [Helmholtz Zentrum Berlin](#), awarded first prize at the [GDCh Electrochemistry 2022](#) meeting in Berlin (27th- 30th September 2022) based on Gumaa's presentation of the study titled 'Effects of cation Crossover through Anion Exchange Membranes on the Operation of Zero-gap CO₂ electrolyzers.'
- In a flash presentation before a poster session at the [ISE Regional Meeting](#) at the Clarion Congress Hotel in Prague on August 18th, 2022, Siddharth Gupta, PhD student at [Helmholtz-Zentrum Berlin](#) presented 'CO Reduction in gas diffusion electrolyzers: Overcoming operational challenges and developing operando methods'.

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Early Stage Researcher Vlogs - Results Updates!

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Four of our PhD students, Siddharth Gupta ([HZB](#)), David Brust ([DLR](#)), Tom Masson ([UvA](#)), Stefan Zondag ([UvA](#)) and Hanka Besic ([UoG](#)) have recently created Vlogs to share their work.

Check them out on our [Media](#) page!

Project Publications



We've published another paper since our last newsletter!

- *T.M. Masson et al.*, "**Rapid and Replaceable Luminescent Coating for Silicon-Based Microreactors Enabling Energy-Efficient Solar Photochemistry**" *ACS Sustainable Chem. Eng.* 4 August 2022 DOI: <https://doi.org/10.1021/acssuschemeng.2c03390>

All of our project publications are on our project website [here](#) and on our

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