



IUPAC: Chemistry of the Environment Division (DIV. VI)

Harmonising carbon sequestration measurement

WORLD FORUM, THE HAGUE

Room South America

August 22, 2023

Workshop Background

Carbon sequestration technologies are essential in combating climate change. Despite the advances and innovations in addressing carbon sequestration, the global scientific community currently lacks a generally accepted assessment standard to improve comparability between different technologies. There is a need to provide a consensus on chemistry-based solutions with a focus on harmonising metrics and measurement for carbon sequestration across matrices and evaluating mechanisms for capture in terrestrial, aquatic and atmospheric environments. In this workshop, we will hear from scientists working on this topic to share their knowledge and have a round table discussion to disseminate best practices to address the problems of analysis, matrix interference, behaviour/transformation of carbon in different environmental compartments and comparability.

Agenda

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| 14:00-14:05 | Welcome and opening (5 min)
Professor Roberto Terzano, President of Division VI, IUPAC |
| 14:05-14:20 | Project Overview (10 min + 5 min Q&A)
Professor Diane Purchase, Middlesex University, UK |
| 14:20-14:50 | Blue Carbon (20 min + 10 min Q&A)
Professor William Austin, University of St Andrews, UK |
| 14:50-15:10 | coffee break |
| 15:10-15:35 | Carbon sequestration on Land (20 min + 5 min Q&A)
Dr Jan Peter Lesschen, Wageningen Environmental Research, The Netherlands |
| 15:35-16:00 | Challenges in carbon sequestration measurement (20 min + 5 min Q&A)
Professor Weiping Wu, Chinese Academy of Science, China |
| 16:00-16:25 | The Economic Principles of Carbon Capture & Sequestration (20 min + 5 min Q&A)
Dr Yehuda Shevah, HGM Planning and Engineering, Israel |
| 16:25-16:55 | Roundtable Discussion (30 min)
Chaired by Dr Michelle Bailey, National Institute of Standards and Technology, US |
| 16:55-17:00 | Closing and Conclusion (5 min)
Professor Weiping Wu, Chinese Academy of Science, China |