PLEASE CONSIDER TO SUBMIT AN ABSTRACT TO CONFERENCE LuWQ2021.

International Interdisciplinary Conference on
Land Use and Water Quality
Agriculture and the Environment
Maastricht, the Netherlands, 17–20 May 2021

A conference on the cutting edge of science, management and policy to minimise effects of agriculture and land use changes on the quality of groundwater and surface waters.

Though LuWQ2021 has a well-defined narrow focus on 'agriculture and water quality', the conference is broadly oriented with regard to the various professional disciplines. One of the issues addressed at the conference regards 'agriculture and protection of water sources for drinking-water production'.

In this sense, as some conference topics deal with protection of water sources from pollution by nitrate and pesticides, the LuWQ2021 conference is also relevant to researchers and professionals from water-supply companies and water-supply related research institutes/ organisations. The topics related to 'agriculture and protection of water sources for drinking-water production' are outlined further below.

Please mark your calendar – LuWQ2021, 17–20 May 2021, Maastricht –
and plan to submit an abstract to:
[1] Theme G, 'Managing protected areas for water supply and nature conservation';
[2] Special Session S2 to review current approaches and measures for protection of drinking water resources against nitrate and pesticide pollution in the EU (FAIRWAY).

Abstract submission will be possible from beginning July 2020.

LuWQ2021, 5th International Interdisciplinary Conference on
LAND USE AND WATER QUALITY: *Agriculture and the Environment*
Maastricht, the Netherlands, 17-20 May 2021.

For information about the LuWQ2021 conference please refer to https://www.luwq2021.nl/.

Conference is jointly convened by:
- RIVM, National Institute for Public Health and the Environment, the Netherlands
- DCE - Danish Centre for Environment and Energy, Aarhus University, Denmark
- Department of Bioscience, Aarhus University, Denmark
- Geological Survey of Denmark and Greenland (GEUS), Denmark
- Umweltbundesamt (UBA), Federal Environment Agency, Germany

Objectives of the conference are:
- to provide a forum for exchange of scientific knowledge, research to better understand 'systems function', modelling and uncertainty;
- to discuss the entire policy cycle for water quality improvement;

- to intensify contacts (a) between soil/water related scientists, agro related scientists, social scientists, ecological scientists and economists, and (b) between scientists, water managers and policy makers.

Professionals working for the drinking water supply sector are often involved in management of their drinking water protection areas (DWPA) to secure the future source of drinking water, for example, by using their influence to adapt national agri-environmental policies, but also by initiating or taking part in projects with farmers in their DWPA to improve farm management.

LuWQ2021 is the follow-up to the successful LuWQ conferences, LuWQ2019 held in Aarhus, Denmark in June 2019, LuWQ2017 held in The Hague, the Netherlands, in June 2017, LuWQ2015 held in Vienna, Austria, in September 2015 and the LuWQ2013 conference held in The Hague, the Netherlands, in June 2013.

To give you a feeling for the essence of LuWQ… The key strength of the conference is twofold. On the one side, LuWQ has a well-defined narrow focus on 'agriculture and water quality'. On the other side, the conference is broadly oriented with regard to the various professional disciplines related to the conference topics. Based on the experience from previous Land Use and Water Quality conferences, it is just the diversity in professional background of participants which results in a multi-faceted conference programme. Consequently, LUWQ offers sessions on a broad variety of topics, all of them however dedicated exclusively to agriculture and water quality. In this sense, the conference topics range – to illustrate by a few randomly chosen examples – from scientific research on denitrification and travel time, …, challenges in monitoring and modelling at different scale (parcels, field, region), …, practice-oriented and technical measures to limit leaching of nutrients and agrochemicals, …, development of management options to mitigate effects on water quality in drinking-water protection areas, including cooperation between local governments, water supply companies and farmers, …, to policy development, and lessons to be learned from policy implementation, e.g. comparison of farmers' behaviour between top-down and bottom-up implementation of agri-environmental measures.

CONFERENCE THEMES, and TOPICS within Themes

For Themes A through I, and Topics within these Themes, please refer to webpage https://www.luwq2021.nl/programme/themes-topics/.
In addition to Themes A through I, it is also possible to submit abstracts to three Special sessions (S1, S2, S3), see webpage https://www.luwq2021.nl/programme/special-sessions/.

At the conference special attention is paid to the protection of water sources for drinking-water supply from agriculture-related pollution

The below listed **Theme G** and **Special Session S2** are relevant to researchers and professionals from water-supply companies and water-supply related research institutes/ organisations. The topics within **Theme G** and **Special Session S2** concern protection of water sources for drinking-water production from pollution by nitrate and pesticides.

[1] Theme G, 'Managing protected areas for water supply and nature conservation', with water-supply related topics G.1, G.5, G.6, G.7 and G.8, see webpage 'Themes and Topics' at https://www.luwq2021.nl/programme/themes-topics/:

Topic G.1: Drinking water supply areas; observing and predicting quality and quantity – as far as relevant for quality – of groundwater and surface water in abstraction areas.

Topic G.5: (Agricultural) Management options to mitigate effects on water quality in protected areas, including cooperation between local governments, water supply companies and farmers.
Topic G.6: Water quality protection versus water purification for management of nutrients and agrochemicals in drinking water supply areas (safe guard zones).
Topic G.7: Designation and management of protection zones within nitrate vulnerable areas (NVZ) with use of additional measures.
Topic G.8: Modelling delayed effects (time lag) in slowly responding groundwater systems.

[2] Special Session S2 to review current approaches and measures for protection of drinking water resources against nitrate and pesticide pollution in the EU (FAIRWAY), see webpage 'Special Sessions'.
Quoting … "Throughout the EU, diffuse pollution of nitrogen and pesticides from agriculture is the main obstacle to meeting the drinking water quality targets. The objective the EU-project FAIRWAY is also to identify and further develop innovative measures and governance approaches for a more effective drinking water protection".
For details about Special Session S2 please refer to https://www.luwq2021.nl/programme/special-sessions/.

The topics within Special Session S2 are:

- Decision support tools for reduction of nitrate and pesticide pollution from agriculture;
- Measures to reduce pesticide pollution to groundwater and surface waters;
- Measures to decrease nitrate pollution of drinking water;
- Innovative governance approaches to protect drinking water resources against nitrate and pesticide pollution from agriculture;
- Role of Multi-Actor Platforms in addressing challenges to protect drinking water supplies;
- Agri-drinking water indicators (ADWIs): Linkage between agricultural practice and good drinking water quality;
- Integrated assessments and recommendations of most promising measures, policies and tools at national and EU level.

Please consider abstract submission to Theme G and Special Session S2.

ABSTRACT SUBMISSION:

Abstracts are due by 12 October 2020. Abstract submission will be possible from beginning July 2020.

ORGANISING COMMITTEE – FURTHER INFORMATION:

Dico Fraters, **chair**, dico.fraters@rivm.nl,
RIVM National Institute for Public Health and the Environment, Centre for Environmental Quality, the Netherlands
Karel Kovar, karel.kovar@rivm.nl,
RIVM National Institute for Public Health and the Environment, Centre for Environmental Quality, the Netherlands
Brian Kronvang, bkr@bios.au.dk,
Department of Bioscience - Catchment Science and Environmental Management, Aarhus University, Denmark
Frank Wendland, f.wendland@fz-juelich.de,
Institute of Bio- and Geosciences – Agrosphere (IBG-3), Research Institute Jülich, Jülich, Germany
Esther Wattel, esther.wattel@rivm.nl,
RIVM National Institute for Public Health and the Environment, Centre for Environmental Quality, the Netherlands

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