

News from SLU Water Forum. We bring together water-related education, research and environmental monitoring and assessment at SLU.

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## Newsletter

SLU Water Forum

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### [Hi SLU Water Forum](#)

It is about time to sum up the last six months within SLU Water Forum, and to look forward to the fall and winter 2021. Despite all the restrictions due to the pandemic, the forum has been very active. For example, experts and researchers within SLU Water Forum have participated in webinars during the World Water Day, the World Biodiversity Day and the World Water Week. Researchers within SLU Water Forum have also been involved in with digital presentations to school classes at the Baltic Sea Science Center at Skansen. We also put extra attention to the Baltic Sea Day on 26 August, among other things by participating in an event at Skansen that focused on food production in the Baltic Sea region. Furthermore, the projects that received seed funding in 2020 to strengthen water cooperation at SLU have now been reported, and three new projects have been granted funding in 2021. It is so nice to see all the engagement within SLU Water Forum.

Now we look forward to the autumn and winter. Hopefully we can return to more normal working conditions. We nevertheless consider the positives and opportunities that are given via digital meetings and events, but of course we also hope to be able to meet each other physically. The activities within SLU Water Forum during the coming months include preparations for a call from Mistra on a sustainable blue economy, the planning of a digital and popular science oriented seminar series on water research at SLU, and the arrangement of a second internal water seminar at SLU in January 2022. We also intend to investigate the interest and opportunities to contribute with information about water on Wikipedia, and if time allows, review the outline and content of SLU Water Forum's website.

As usual, we welcome suggestions on how we can keep SLU Water Forum up to date, interesting and relevant, and how we can contribute to strengthening cooperation on water at SLU. Do not hesitate in providing suggestions to [water@slu.se](mailto:water@slu.se).

Jens Olsson, coordinator of SLU Water Forum



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VATTEN  
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### [World Water Day March 22](#)

Similar to previous years, we put some extra focus and efforts during the days around this year's World Water Day. Take part of the activities we carried out and news that we distributed focusing on the value of water [here](#).

## [World Biodiversity Day May 20](#)

Together with SIWI and WWF, SLU organized a [webinar](#) focusing on water issues during the World Biodiversity Day 2021. Take part of the recording of and presentations from the webinar [here](#), and read [SIWI's news post about the event](#).



## [New work plan for SLU Water Forum](#)

During the spring we have developed a new [Aim and work plan](#) for SLU Water Forum considering the years 2021-2022.

Photo: Lisa Beste

## [Reporting of seed money 2020](#)

The projects that received seed funding from SLU Water Forum in 2020 have now been reported. Here you can read [short summaries](#) of the results from the projects.

Illustration: Fredrik Saarkoppel



## [Three projects granted seed money for 2021](#)

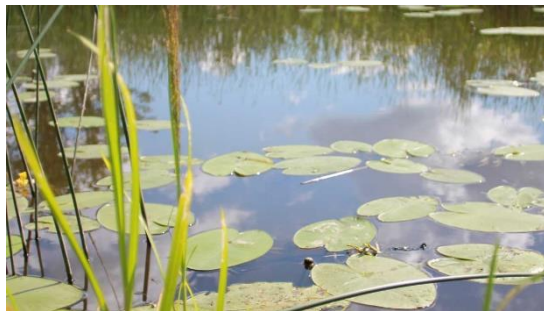
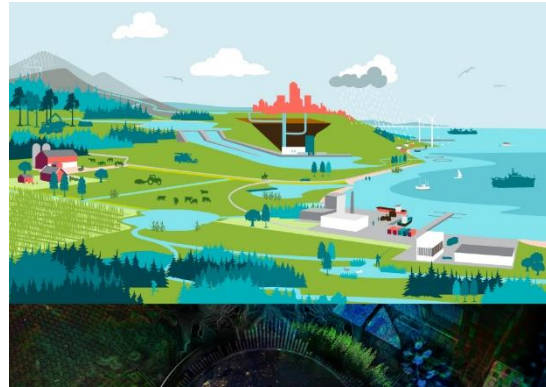
During spring, new seed money were announced within SLU Water Forum to strengthen cooperation on water at SLU. Of the four project proposals submitted, three were granted funding: 1) *Landscape in transition - scoping urbanization impacts on stream ecosystems in real time using a SITES experimental catchment*, 2) *Utveckling av ett systemperspektiv för vattenresurshantering i multifunktionella landskap*, och 3) *Förberedande workshop om studier av våtmarkers biogeokemi*. Read the [decision](#) on this from the NJ-faculty dean.

Photo: Jens Olsson

## [Watch our videos on water](#)

During the summer, we have collected [videos on water research at SLU on the SLU Water Forum website](#). Do you have a video that you think is missing? Please contact [water@slu.se](mailto:water@slu.se).

Illustration: Christina Jonsson



## [New coordinators for the EMA Lakes and watercourses program](#)

We welcome [Sara Bergek](#) and [Simon Hallstan](#) in their roles as new coordinators for the environmental monitoring and assessment program [Lakes and watercourses](#). We wish you good luck with your tasks!

Photo: Ann-Kristin Hallin

## [SLU Water Forum at World Water Week 2021](#)

A handful of senior and junior researchers and students within SLU Water Forum arranged a webinar, *SLU's sustainable solutions on water management from source to sea*, during the 2021 edition of the [World Water Week](#). The aim of the webinar was to showcase water research at SLU and how we contribute to sustainable water resource management. The webinar had about 90 participants from all over the world. Have a detailed look at the [webinar program](#) and view the recording of the event [here](#).



## [SLU highlights the Baltic Sea Day](#)

We put some extra focus and effort to showcase the relevant SLU-expertise during the Baltic Sea Day 26 August. Besides being active on social media, we posted an [interview](#) with professor Anna Gårdmark at SLU Aqua on why the Baltic Sea needs a dedicated day and how the extremely warm summer in the Baltic Sea affects life below water.

Photo: Jenny Svénnås-Gillner

## [Baltic Sea Day at Skansen](#)

Together with Skansen, the organization Race for the Baltic, and Stockholm University, SLU organized an [afternoon event](#) during the Baltic Sea Day on 26 August at Skansen and the Baltic Sea Science Center to pay tribute to the Baltic Sea. The theme for the event was sustainable food production in the Baltic Sea region for a group of invited guests, and included scientific presentations from researchers at SLU and a panel debate.



## [Theme days on the Baltic Sea Science Center](#)

During week 38, in connection to [Forskarfredag](#) 24 September, the [Baltic Sea Science Center](#) at Skansen arranged digital lectures with Baltic Sea experts for upper secondary school classes. [Researchers](#) from SLU participated during the Thematic Days with lectures.  
Photo: Mark Harris, SLU

## [Happening soon](#)

### **Coming call from Mistra on sustainable blue economy**

In mid September, Mistra announced some good news as they will open a call for a research program over four years with a focus on [sustainable blue economy, improved environmental conditions, and increased resilience in Swedish marine areas](#). The budget for the program is approximately SEK 50 million and is expected to open in October. We keep our fingers crossed that SLU can mobilize competitive applications for the call.

### **SLU seminar on water with younger researchers**

Save the date! For two half-days, 25-26 January 2020, we plan for a second internal seminar on water, [Future water research at SLU – a seminar on perspectives from younger scholars](#). This time focusing on presentations by younger researchers from the different parts of “water-SLU”. More information on the program and venue for the seminar will be distributed later this fall.

## [News in short](#)

[Swedish radio program Vetenskapsradion Klotet about PFAS in drinking water](#)

[Honorary doctor at SLU receives the 2021 World Food Prize](#)

For more news on water at SLU, please visit [this site](#).

## [Publications](#)

SLU publish several hundred research articles on water every year. Some examples of recently published articles are:

[Growth variation of Atlantic salmon \*Salmo salar\* at sea affects their population-specific reproductive potential](#) by Jacobson et al. 2021 in Marine Ecology Progress Series



[Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions](#)

by Gomez-Gener et al. 2021 in Nature Geoscience

[Seal interactions and exits from fisheries: insight from the Baltic Sea cod fishery](#)

by Blomquist et al. 2021 in ICES Journal of Marine Science

[Moving towards multi-layered, mixed-species forests in riparian buffers will enhance their long-term function in boreal landscapes](#)

by Maher Hasselquist et al. 2021 in Forest Ecology and Management

[The impact of wildfire on biogeochemical fluxes and water quality in boreal catchments](#)

by Granath et al. 2021 in Biogeoscience

[A century of genetic homogenization in Baltic salmon – evidence from archival DNA](#)

by Östergren et al. 2021 in Proceedings of the Royal Society B

[Overriding importance of water table in the greenhouse gas balance of managed peatlands](#)

by Evans et al. 2021 in Nature

[Synergistic Effects of Rooted Aquatic Vegetation and Drift Wrack on Ecosystem Multifunctionality](#)

by Austin et al. 2021 in Ecosystems

[Cormorant predation effects on fish populations: A global meta-analysis](#)

by Overgård et al. 2021 in Fish and Fisheries

[Energy efficiency and biological interactions define the core microbiome of deep oligotrophic groundwater](#)

by Mehrshad et al. 2021 in Nature

[Brownification on hold: What traditional analyses miss in extended surface water records](#)

by Eklöf et al. 2021 in Water Research

[What's in the water? – Target and suspect screening of contaminants of emerging concern in raw water and drinking water from Europe and Asia](#)

by Tröger et al. 2021 in Water Research

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## [Events and conferences](#)

On the [SLU Water Forum webpage](#) you find a calendar for upcoming events. If you would like to add something here, please contact [water@slu.se](mailto:water@slu.se).

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## [Recent PhD-theses](#)

During the spring and summer of 2021, many PhD-thesis on water have been defended at SLU, for example:

[Shaped by the past: Resilience and ecological memory in microbial communities](#)

by Sophia Renes at the Department of Aquatic Sciences and Assessment

[Wide-scope screening for contaminants of emerging concern in archived biota: Method development, suspect prioritisation, and non-target screening in a novel identification tool](#)

by Wiebke Düring at the Department of Aquatic Sciences and Assessment

[Optical sensors in drinking water production: Towards automated process control in relation to natural organic matter](#)

by Claudia Cascone at the Department of Aquatic Sciences and Assessment

[Groundwater Connections between the boreal landscape and its headwater streams: the role of discrete riparian inflow Points \(DRIPs\)](#)

by Stefan Polun at the Department of Forest Ecology and Management

[Increasing the biological knowledge of Baltic Sea cod: growth, movements and reproductive potential from historical and contemporary data](#)

by Monica Mion at the Department of Aquatic Resources

[Losing track of time: causes and solutions for the problematic determination of Baltic cod age](#)

by Yvette Heimbrand at the Department of Aquatic Resources

[Resilience and stability of freshwater invertebrate communities across space and time](#)  
by Hannah Fried-Petersen at the Department of Aquatic sciences and Assessment

[Hidden in the Water: Development of screening strategies to identify new organic contaminants of emerging concern](#)

by Frank Menger at the Department of Aquatic Sciences and Assessment

[Impacts of land use change on river streamflow and water quality in a semi-arid catchment. Assessment of catchment under rapid and uncontrolled urbanization](#)

by Benjamin Gossweiler at the Department of Soil and Environment

[New methods for improving water management - Exploring the role of diatoms in ecosystems](#)

by Bonnie Bailed at the Department of Aquatic Sciences and Assessment

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## [Coming PhD-dissertations](#)

**Hannes Keck** at the Department of Ecology. Research area: *green gas exchange from ecosystems in agricultural landscapes*. 15 October 2021.

**Elin Jutebring Sterte** at the Department of Forest Ecology and Management. Title: [Hydrology and water chemistry in a heterogeneous landscape: process-based modelling of coupled surface water and groundwater flow across contrasting boreal catchments](#). 15 October 2021.

**Ineta Kačergytė** at the Department of Ecology. Title: *Wetland creation and restoration for biodiversity: Outcomes of conservation initiatives to facilitate birds, amphibians and occasionally fish*. 3 November 2021.

**Emma Lannergård** at the Department of Aquatic Sciences and Assessment. Research area: *processes governing the transport of phosphorous at the catchment area level*. 26 November or 3 December 2021.

**Jens Blomquist** at the Department of Soil and Environment. Research area: *water quality and use in agriculture*. 10 December 2021.

**Oskar Agstam** at the Department of Aquatic Sciences and Assessment. Research area: *phosphorous loading, internal loading, eutrophication and lake restoration*. 26 or 28 January 2022.

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## [More information](#)

If you want more information about the activity within SLU Water Forum, please take a look at the [activity reports](#).

If you want to contribute to upcoming newsletters, contact SLU Water Forum at [water@slu.se](mailto:water@slu.se).

Feel free to go visit [SLU Water Forum's website](#) for regular news updates, or follow us on Twitter, @SLUwater.