

1st Swiss Lake Day – The conference for the Swiss Lake community

03 September 2025, University of Lausanne

SCOPE

The Swiss Lake Day is the networking event for the Swiss Lake community. For the first edition, we cordially invite you to a day of presentations, discussions and updates on Swiss-led lake science and other lake-related activities. This first event proposes to gather the Swiss lake research community, creating opportunities for:

- Scientific collaboration and knowledge exchange
- Networking with stakeholders
- Connecting with companies and organizations in lake research and management

ORGANIZING COMMITTEE

Damien Bouffard (Eawag & University of Lausanne), Nathalie Dubois (EAWAG & ETHZ), Oliver Heiri, (University of Basel), Marie-Elodie Perga (University of Lausanne)

PARTNERS AND SPONSORS

Swiss Commission of Oceanography and Limnology,
Swiss Society for Hydrology and Limnology

PLACE

Room: GEN b
Building: Génopode
University of Lausanne
Access : Metro UNIL- Sorge

[Google map link](#)



Final Program Swiss Lake Day 2025

08:30	Registration opens & poster hanging
09:30	Opening and welcome (Damien Bouffard and Marie-Elodie Perga)
09:40	Swiss Commission of Oceanography and Limnology (COL) (Nathalie Dubois)
09:45	Open presentations I (Chair: Oliver Heiri)
10:45	Coffee break and posters
11:15	Open presentations II (Chair: Nathalie Dubois)
12:15	Lunch and posters
14:15	Online presentation: Interuniversity Research Group in Limnology (GRIL), Québec
15:00	Short feedback questionnaire (Nathalie Dubois)
15:10	Open presentations III (Chair: Oliver Heiri)
16:35	Closing remarks (Damien Bouffard and Marie-Elodie Perga)
16:45	Apéro and posters
17:30	End

List of flash talks Swiss Lake Day 2025

Open presentations I (Chair: Oliver Heiri)				
1	09:45-09:50	Anita	Narwani	Biodiversity of Swiss lakes
2	09:50-09:55	Blake	Matthews	Evolutionary ecology of zooplankton: A southern Greenland perspective
3	09:55-10:00	Pierre	Rossi	The invasive Quagga mussels and the EPFL water cooling system.
4	10:00-10:05	Philine	Feulner	Evolutionary Conservation Genomics of Lake Biodiversity
5	10:05-10:10	Bas	Ibelings	Lake Geneva foodweb, not as it was
6	10:10-10:15	Santona	Khathun	The EPFL SENSE research unit
7	10:15-10:20	Nora	Richter	Lipid biomarkers for tracking methanotrophs overtime
8	10:20-10:25	Nathalie	Dubois	Lake sediments as archives of our past
9	10:25-10:30	Nemiah	Ladd	Molecular fossil records of Swiss environmental history
10	10:30-10:35	Petra	Zahajská	Non-destructive and high-resolution analyses of lake sediments
11	10:35-10:40	Cindy	De Jonge	Chemical fossils for lake system reconstruction
12	10:40-10:45	Oliver	Heiri	Long-term ecosystem developments of lakes based on lake sediment analyses
Open presentations II (Chair: Nathalie Dubois)				
13	11:15-11:20	Helmut	Bürgmann	The Microbial Ecology Group of Eawag/Surface Waters Department
14	11:20-11:25	David	Janssen	Trace elements: drivers and tracers of biogeochemical cycling
15	11:25-11:30	Moritz	Lehmann	Aquatic and stable isotope biogeochemistry at the University of Basel
16	11:30-11:35	Nina	Zeyen	What do we know about the interconnection between Mg-clays and carbonates within modern lakes?
17	11:35-11:40	Marie Elodie	Perga	Lake biogeochemistry at UNIL
18	11:40-11:45	Nicola	Storelli	The Meromictic Lake Cadagno - A Window into Ancient Oceans
19	11:45-11:50	Paul	Magyar	Novel isotopic approaches for constraining greenhouse gas sources and sinks

20	11:50-11:55	Nathalie	Chèvre	Risk of chemicals present in lakes
21	11:55-12:00	Rébecca	Beauvais	Assessing the environmental quality of Swiss lakes: Contributions from the Ecotox Centre
22	12:00-12:05	Katrina	Kremer	Sediment Dynamics in lakes: Combining sediment record and monitoring at UNIBE
23	12:05-12:10	Daniel	McGinnis	State of lake research at Uni. Geneva - upcoming changes and possibilities
24	12:10-12:15	Damien	Bouffard	Aquatic physics at Eawag & UnIL

Open presentations III (Chair: Oliver Heiri)

25	15:10-15:15	Natacha	Pasche	LÉXPLORE and the Limnology Center: enabling collaborative science
26	15:15-15:20	Abolfazl	Irani Rahaghi	Remote sensing of Water resources in Switzerland
27	15:20-15:25	Thilo	Herold	Longterm real-time measurements of Swiss lakes (water temperature and additional parameters)
28	15:25-15:30	Francesco	Pomati	Automated monitoring and machine learning for understanding and predicting the dynamics of changing lakes
29	15:30-15:35	Rachele	Longhitano	High frequency monitoring in Ticino Lakes (together with Alice Balmelli, Marco Andretta and Matteo Tonello)
30	15:35-15:40	Martin	Schmid	Lake systems facing the challenges of climate change and energy transition
31	15:40-15:45	Camilla	Capelli	Limnological Research on Lake Lugano and Beyond
32	15:45-15:50	Fabio	Lepori	The case for plankton in lake monitoring
33	15:50-15:55	Timon	Langene	Lake restoration projects: Trade-off between nature and recreational needs
34	15:55-16:00	Piet	Spaak	SeeWandel-Climate: International Lake Research on Lake Constance
35	16:00-16:05	Silwan	Daouk	VSA-Platform Waterquality: A link between research, authorities and implementation
36	16:05-16:10	Nicole	Gallina	Lake Geneva: Governance, State of Health, and Emerging Challenges
37	16:10-16:15	Francesco	Pomati	Lake Competence Cluster
38	16:15-16:20	Lea Christophe	Fluri Iseli	Getting to Know the Association for Bioengineering: Mission and Projects.
39	16:20-16:25	Nathalie	Menetrey	Proposal for a methodological guide to monitor lake littorals based on macroinvertebrates
40	16:25-16:30	Lukas	de Ventura	Restoration of lake Hallwil

List of Posters Swiss Lake Day 2025

1	Bo	Gai	Combined impacts of quagga mussel invasion and climate change in European deep lakes
2	Paul	Moser Rögglä	Noble gases as indicators of excess air in lake Nam Co on the roof of the world
3	Lisa	morales	Sick and sinking: Are chytrid infections changing Asterionella aggregation, sinking and carbon transport?
4	Gaétan	Sauter	Lacustrine turbidity currents triggered by short-lived, intense rainstorms
5	Gabrielle	Koerich	Unravelling plankton networks/dynamics of Greifensee
6	Nischal	Devkota	Vertical Dynamics of Zooplankton and Its Influence on Nutrient Fluxes in Lake Lemán
7	Tomy	Doda	Spatial variability of turbulent mixing across the constriction of a two-basin lake
8	Santona	Khatun	Real-time seasonal dynamics of metalimnetic methane and hypolimnetic nitrous oxide in Swiss alpine lakes
9	Nicole	Russo	SEASONAL ALKENONE PRODUCTION IN A MIDLATITUDE ALPINE LAKE
10	Lisa	Marchand	ISOCHRYSIDALES BLOOM DYNAMICS AND ALKENONE PRODUCTION IN SWISS LAKES
12	Pinelopi	Ntetsika	Biotic interactions shape the realised niche of toxic cyanobacteria
13	Philip	Werner	Geochemical Narratives from Sediment, Porewater, and Water Column in Lake St.Moritz (SE Switzerland)
14	Julie	Conrads	Beneath the Surface: Exploring Benthic Macroinvertebrate Communities in Lake Zurich
15	Federica	Rotta	Beyond the surface: microplastics in the water column of a top plastic-polluted deep lake.
16	Theresa	Wietelmann	PERSISTENT ROMAN IMPACT ON ALGAL COMMUNITY IN MURTENSEE (SWITZERLAND)
17	Ricardo	N. Santos	Decoding Past Precipitation from Rotsee Plant Wax Isotopes
18	Virgil	Pasquier	Using Swiss lakes to better understand past sulfur cycles
19	Abolfazl	Irani Rahaghi	Thermal Dynamics of Swiss Lakes: Bridging In Situ, Remote Sensing, and Modeling
20	Antonia	Klatt	Algal lipid distributions and hydrogen isotope ratios reflect phytoplankton community dynamics
21	Fabian	Bärenbold	Trends of water temperature, oxygen concentration and water clarity across 19 large Swiss lakes

22	César	Ordóñez	Clearer Waters, Warmer Winters: The Role of Water Clarity in Lake Heat Budget
23	Mathilde	Dugenne	An image-based pipeline to assess phytoplankton near-real time dynamics and provide early warnings of algal blooms in Lake Geneva
24	Isabel	Herr	Decoupling Air and Water: How Throughflow Shapes Alpine Lake Temperatures
25	Christoph	Walcher	Scientific diving
26	Claudia	Frey	Understanding nitrite oxidation patterns in the water column of Lake Lugano (poster)
27	Andrea	Mini	From permafrost to rivers and peri-Alpine lakes: exploring warming climate trends in Southern Swiss Alps (poster)
28	Pierre	Marle	Benthic Quality Index based on deep-zone chironomids in lakes of the Jura and Alps
29	Teresa	Einzmann	Seasonal NO production rates in two lake basins with contrasting mixing regimes

List of participants

first name	family name	organisation
Pauline	Agustoni	
Marco	Andretta	Monitoraggio ambientale, ct.TI
Alice	Balmelli	UMAm
Fabian	Bärenbold	UNIL
Rébecca	Beauvais	Ecotox Centre CH
Salomé	Boudet	Unige
Damien	Bouffard	Eawag & UNIL
Helmut	Bürgmann	Eawag
camilla	capelli	SUPSI
Leonardo	Capitani	Eawag
Aron	Castelli	SUPSI
Lorenzo	Cellino	Eawag
Jérôme	CHAPPELLAZ	EPFL
Nathalie	Chèvre	UNIL
Julie	Conrads	Eawag
Silwan	Daouk	VSA-Platform Waterquality
Cindy	De Jonge	ETHZ
Lukas	De Ventura	Kanton Aargau,
Nischal	Devkota	UNIL
Tomy	Doda	UNIL
Nathalie	Dubois	Eawag & ETHZ
Mathilde	Dugenne	UNIGE
Teresa	Einzmann	UNIBAS
Philine	Feulner	Eawag
Lea	Fluri	see-land.plan
Catherine	Folly	Amt für Umwelt Freiburg
Claudia	Frey	UNIBAS
Bo	Gai	Eawag
Nicole	Gallina	CIPEL
Laurence	GLASS-HALLER	EPFL
Omblin	Heili	EPFL & UNIGE
Oliver	Heiri	UNIBAS
Thilo	Herold	FOEN
Isabel	Herr	UNIL
Evelina	Hiltunen	Kanton Bern
Bas	Ibelings	UNIGE

Abolfazl	Irani Rahaghi	Eawag & UZH
Christoph	Iseli	see-land.plan
David	Janssen	Eawag
Marion	Jaussi	SEN (canton Valais)
Dauny	Jean-Christophe	canton Vaud
Enzo	Jimenez	DGE PRE - Canton of Vaud
Silvana	Kaeser	Eawag
Santona	Khatun	EPFL
Antonia	Klatt	UNIBAS
Gabrielle	Koerich	Eawag
Katrina	Kremer	UNIBE
Nemiah	Ladd	UNIBAS
Timon	Langene	Kissling+Zbinden AG
Timon	Langenegger	Kissling + Zbinden AG
Moritz	Lehmann	UNIBAS
Fabio	Lepori	DGE Canton de Vaud
Rachele	Longhitano	Repubblica e Cantone Ticino
Robert	Lovas	Umwelt und Energie LU
Bänz	Lundsgaard-Hansen	Bundesamt für Umwelt
Paul	Magyar	Empa
Lisa	Marchand	Eawag
Pierre	Marle	DGE - Protection des Eaux
Blake	Matthews	Eawag
Daniel	McGinnis	UNIGE
Nathalie	Menetrey	DGE-Protection des Eaux-VD
François	Mettra	HES-SO Valais Wallis
Remy	Millet	UNIGE
Andrea	Mini	SUPSI
Bhagyashree	Mishra	UNIGE
Paolo	Mocchetti	SUPSI
Lisa	morales	UNIGE
Paul	Moser Röggl	Eawag
Irene Fiammetta	Muscas	UNIGE
Ricardo	N. Santos	UNIBAS
Anita	Narwani	Eawag
Louise	Noël du Payrat	ETHZ
Pinelopi	Ntetsika	Eawag
César	Ordóñez	UNIGE
Natacha	Pasche	EPFL
Virgil	Pasquier	UNIL
Marie Elodie	Perga	UNIL
Francesco	Pomati	Eawag

Nina	Rebecchi	UNIGE
Marta	Reyes	Eawag
Nora	Richter	Eawag
Pierre	Rossi	EPFL
Federica	Rotta	SUPSI
Nicole	Russo	Eawag & ETHZ
Wyndel	Sañoza	UNIL
Gaétan	Sauter	UNIBE
Martin	Schmid	Eawag
Piet	Spaak	Eawag
Nicola	Storelli	SUPSI
Christoph	Walcher	Eawag
Kannika	Wangritthikraikul	Eawag
Alexandra A.-T.	Weber	Eawag
Philip	Werner	UNIL
Theresa	Wietelmann	UNIBAS
Yiruo	Xia	UNIGE
Petra	Zahajská	UNIBE
Nina	Zeyen	UNIGE
Jakob	Zopfi	UNIBAS