

16th International Symposium on Aquatic Plants

Sessions

Session 1	Lessons learned by Mediterranean ecosystems: aquatic plants research and conservation in freshwaters affected by climate change
Session 2	The macroecology of aquatic plants in freshwaters
Session 3	Plant-animal interactions in aquatic plant beds (Zoogeochemistry session)
Session 4	Genetic diversity and structure in aquatic plants (continental and coastal habitats)
Session 5	Causes and patterns of macrophyte decline and recovery
Session 6	Friends or foes: Wanted and unwanted effects of herbicides on aquatic plants facing multiple stressors
Session 7	Macrophytes as Nature Based Solutions in urban ecosystems (BINatUr session)
Session 8	Macrophyte monitoring (Biomonitoring based on macrophytes/Environmental monitoring based on macrophytes)
Session 9	Management of macrophytes

Programme

Monday November 13th 2023

Location: University of Antwerp (Stadscampus), Hof van Liere, Prinsstraat 13, 2000 Antwerp  
 Location Reception: University of Antwerp (Stadscampus), Klooster van de Grauwzusters, Building 5, Lange Sint-Annestraat 7, 2000 Antwerp  
 Poster presentations are shown during Coffee & Breaks

08:30 - 09:00	-
09:00 - 10:00	-
10:00 - 11:00	-
11:00 - 12:00	-
12:00 - 13:00	Lunch
13:00 - 13:30	Official opening
13:30 - 14:30	Keynote Lecture: Ludwig Triest <b>Session 1: Lessons learned by Mediterranean ecosystems: aquatic plants research and conservation in freshwaters affected by climate change</b>
14:30	Alice Dalla Vecchia Incorporating intraspecific trait variability into functional diversity indices of freshwater macrophyte communities to open new perspectives on the analysis of their dynamics
14:45	Konstantinos Stefanidis Exploring patterns of aquatic plant functional diversity in riparian corridors of Eastern Mediterranean rivers
15:00	Joanna Rosińska Effects of increased temperature and intra- and interspecific competition on the performance of submerged plants: the case of <i>Myriophyllum spicatum</i> L. and <i>Ceratophyllum demersum</i> L.
15:15	Francisca Aguiar Macrophytes in uncertain freshwater futures: effects of climate change in a Mediterranean regulated river
15:30 - 16:00	Coffee & Tea Break <b>Session 1: Lessons learned by Mediterranean ecosystems: aquatic plants research and conservation in freshwaters affected by climate change</b>
16:00	Blanca Gallego Tévar Ecophysiological seasonal responses of native <i>Spartina maritima</i> , invasive <i>S. densiflora</i> and their reciprocal hybrids from SW Iberian Peninsula
16:15	Daniel Gebler Improving the predictive assessment of biological quality using macrophytes: empirical testing and method selection
16:30	Zhong Wang Decouples of plant nitrogen-sulfur correlation under saline stress in alpine and arid wetlands
16:45	Rossano Bolpagni Towards the measuring of Characeae functional traits: A compelling challenge for aquatic ecology
17:00	Heleen Keirsebelik <b>Session 3: Plant-animal interactions in aquatic plant beds (Zoogeochemistry session)</b> Chinese mitten crabs ( <i>Eriocheir sinensis</i> ) damage macrophytes (demonstration)
17:15 - 18:00	-
18:00 - 19:00	-
19:00 - 20:00	Opening Reception at Klooster van de Grauwzusters
20:00 - 21:00	Opening Reception at Klooster van de Grauwzusters

Tuesday November 14th 2023

Location: University of Antwerp (Stadscampus), Hof van Liere, Prinsstraat 13, 2000 Antwerp  
 Poster presentations are shown during Coffee & Breaks

08:30 - 09:00	Coffee & Tea <b>Session 2: The macroecology of aquatic plants in freshwaters</b>
9:00	Daniel Larkin Thin lines between native and invasive aquatic plants and their implications for management
9:15	Nompumelelo Catherine Baso Investigating the Enemy Release Hypothesis on the invasiveness of <i>Lagarosiphon major</i> in New Zealand: Implications for management
9:30	Janne Alahuhta Climate, geodiversity and land use associated with beta diversity of river plant communities in Europe
9:45	Lars Baastrup Spohr Global drivers of aquatic plant height
10:00	Lindsay Trottier The Macroecology of Aquatic Plant Functions (MAP) Project: How it started, progress to date, and next steps
10:15	Richard Lansdown Aquatic Plant Conservation: Priorities and plans
10:30	Zarah Pattison The freshwater biodiversity crisis: what role do plant invasions play?
10:45 - 11:15	Coffee & Tea Break <b>Session 3: Plant-animal interactions in aquatic plant beds (Zoogeochemistry session)</b>
11:15	Kirstine Thiemer True love? Aquatic plants in relationship with fish
11:30	Kerstin Bouma The impact of grazing by red deer ( <i>Cervus elaphus</i> ) on vegetation development during a wetland restoration project
11:45	Balázs A. Lukács Traits for transport: do alien wetland plants have advantage?
12:00	Emily Strange Mosquitoes & Macrophytes: a dangerous mix?
12:15	Michał Brzozowski Biotic and abiotic factors potentially responsible for charophyte decline in temperate hardwater lakes
12:30 - 13:30	Lunch <b>Session 4: Genetic diversity and structure in aquatic plants (continental and coastal habitats)</b>
13:30	Petr Kouřecký Molecular and genome size data allow delimitation of <i>Ranunculus</i> sect. <i>Batrachium</i> taxa and reveal unexpected hybridization and cryptic diversity
13:45	Nigel Willby Birds, boats and buoyancy: effects of connectivity on lake macrophyte communities
14:00	Junyao Sun Response of macrophyte species community to the pond connectivity in an agricultural multi-pond system
14:15	Jasper Dierick The importance of clonal and sexual reproduction for the maintenance, persistence and resilience of seagrass meadows under disturbance
14:30	Laura Bossaer Salinization as a driver of genetic differentiation in lowland populations of <i>Stuckenia pectinata</i>
14:45	Estelle-Marie Blanquart Genetic and taxonomic diversity of isoetid communities in Aquitaine shallow lakes
15:00 - 15:30	Coffee & Tea Break
15:30 - 17:45	<b>Session 5: Causes and patterns of macrophyte decline and recovery</b>
15:30	Sandor Szabo Sustaining stable states between submerged and free-floating vegetation
15:45	Fan Lui Enzymes related to carbon metabolism in the leaves of submerged macrophytes play a crucial role in ammonium detoxification
16:00	Ling Xian Exploring ammonium utilization strategy of submerged macrophytes using whole plants
16:15	Sabine Hilt Feedback between changes in submerged macrophytes and phosphorus concentrations propel rapid eutrophication of a mesotrophic lake
16:30	Antonella Petruzzella Achieving the goal "more natives, less invasives": Priority effects as a potential tool for restoration
16:45	Lucas Van der Cruyse Investigating the (Re)introduction of Submerged Macrophytes in River Systems in Flanders (Belgium)
17:00	Anne Lewerentz Macrophyte diversity in a changing world: lessons from deep lakes in Bavaria
17:15	Yexin Yu Integrating depth and nutrient to illustrate regime shifts of deep lakes
17:30	Lei Li Within-lake resource gradients modify periphyton shading effects on macrophytes

Wednesday November 15th 2023

Location: University of Antwerp (Stadscampus), Hof van Liere, Prinsstraat 13, 2000 Antwerp  
 Location Conference dinner: Horta Grand Café, Hopland 2, 2000 Antwerp  
 Poster presentations are shown during Coffee & Breaks

08:30 - 09:00	Coffee & Tea
09:00 - 10:00	Keynote lecture by Julie Coetzee <b>Session 5: Causes and patterns of macrophyte decline and recovery</b>
10:00	Sabiha Akter Interactive effects of nitrate and heatwaves on submerged and floating plants of a freshwater ecosystem
10:15	Deborah Hofstra Accelerating the re-establishment of macrophytes
10:30	Riccardo Pieraccini Seagrass restoration, every seed counts: increasing restoration success by improved germination
10:45	Michał Rybak Multi-element stoichiometry transformation and homeostasis disturbances among <i>Myriophyllum spicatum</i> organs in response to accelerated eutrophication
11:00 - 11:30	Coffee & Tea Break <b>Session 6: Friends or foes: Wanted and unwanted effects of herbicides on aquatic plants facing multiple stressors</b>
11:30	Gertie Arts Effects of the fungicide tebuconazole on macrophytes in a mesocosm study
11:45	Elisabeth Maria Gross The chemical fingerprint of <i>Myriophyllum spicatum</i> : A harbinger of regime change in shallow lakes exposed to nitrate, pesticide and warming?
12:00	Arie Vonk Herbicide exposure and toxicity to aquatic primary producers
12:15	Gray Turnage Ecology and Management of Cuban bulrush in the United States
12:30 - 13:30	Lunch <b>Session 7: Macrophytes as Nature Based Solutions in urban ecosystems (BINatUr session)</b>
13:30	Silvia Martín Muñoz Aquatic-Nature-based Solutions: designing cities for biodiversity.
13:45	Seppo Hellsten Invasion of <i>Elodea canadensis</i> in northeastern Finland – nuisance or useful biomass?
14:00	Jan Köhler The impounding effect of aquatic vegetation in the lowland river Spree and its management by mowing
14:15	Louis Skovsholt Riverine plant community changes on a gradient of land use in lowland New Zealand streams
14:30	Susanne Schneider Mass development of aquatic macrophytes - causes and consequences of macrophyte removal for ecosystem structure, function, and services
14:45	Liesbeth Bakker Top-down and bottom-up effects on the establishment of aquatic plants in ecosystem restoration project Marker Wadden, The Netherlands
15:00 - 15:30	Coffee & Tea Break <b>Session 8: Macrophyte monitoring (Biomonitoring based on macrophytes/Environmental monitoring based on macrophytes)</b>
15:30	Amritha Nair Mapping stress in submerged aquatic vegetation using multispectral imagery and Structure from Motion (SfM) photogrammetry
15:45	Takashi Asaeda The application of hydrogen peroxide concentration to elucidate the submerged macrophyte distribution in a lake
16:00	Paolo Villa Assessing Spectral Metrics to Estimate Aquatic Plant Diversity from Hyperspectral Imaging: Preliminary Results
16:15	Teresa Ferreira Assemblage-based monitoring of freshwater ecosystem using similar macrophyte indices: how difficult can it get
16:30	Morgan Botrel Changing submerged aquatic vegetation in inland waters: new tools for high frequency monitoring at broad spatial scales
16:45	Maarten De Jonge Macrophyte monitoring by the Flanders Environment Agency (VMM): Status, trends and relations with environmental variables
17:00	Krzysztof Szoszkiewicz How to estimate efficient sampling effort and the accuracy of river macrophyte monitoring
17:15	Daria Sikorska Ecological Assessment of Aquatic Vegetation in Biebrza's Oxbow Lakes Using TerraSAR-X Radar Data
17:30 - 19:00	-
19:00 - 20:00	Conference dinner at Horta Grand Café: Welcome reception
20:00 - 23:00	Conference dinner at Horta Grand Café: Seated dinner

Thursday November 16th 2023

Location: University of Antwerp (Stadscampus), Hof van Liere, Prinsstraat 13, 2000 Antwerp  
 No sessions held!

08:00 - 17:30	Excursion to Kruibek CRT, Mesodrome and Meise Botanic Garden
17:30 - 19:30	-
19:30 - 21:30	Excursion to KMSKA Museum

Friday November 17th 2023

Location: University of Antwerp (Stadscampus), Hof van Liere, Prinsstraat 13, 2000 Antwerp  
 Poster presentations are shown during Coffee & Breaks

08:30 - 09:00	Coffee & Tea <b>Session 9: Management of macrophytes</b>
9:00	Jeffrey Hutchinson Evaluating the suppression of <i>Hydrilla verticillata</i> by manual removal and planting native aquatic plants
9:15	Colin Burke Unravelling the consequences of extreme floods and dam-induced river fragmentation on macrophyte populations: A case study of the Mid-Brisbane River, Australia
9:30	Roelf Pot Removing nuisance aquatic macrophytes with a rakeboat
9:45	Hélène Groffier Alkalinity and nitrogen: drivers of <i>Myriophyllum heterophyllum</i> invasion success?
10:00	Iris Stiers Bugs 2 the Rescue: a citizen science project
10:15	Olga Delange Towards assessing post-management recovery of native flora by comparing seed banks composition in <i>Ludwigia</i> spp. – invaded; – managed and non – invaded ponds in Belgium
10:30	Nguyen Nguyen Regeneration of macrophytes from a lake propagule bank after removal of the invasive <i>Cabomba caroliniana</i> using herbicide and manual control
10:45 - 11:15	Coffee & Tea Break <b>Session 9: Management of macrophytes</b>
11:15	Eva Rekkers Early phytoplankton responses to invasive floating plant control in subtropical freshwater systems
11:30	Tressia Chikodza The effect of biological control on the population dynamics of <i>Pontederia crassipes</i> (C. Mart) Solms (Pontederiaceae) and <i>Salvinia minima</i> Baker (Salviniaceae)
11:45	Darren Reidy Does <i>Myriophyllum aquaticum</i> , a freshwater invasive species, have capacity to invade brackish waters in Ireland?
12:00	Gabrielle Thiébaud Is removal a solution for management of the alien aquatic plant species <i>Egeria densa</i> ? A mesocosm approach
12:15	Brittany Chesser Information and Education: Texas A&M AgriLife Extension Service Models Used to Combat Aquatic Vegetation Issues
12:30 - 13:00	Final words by the organisers, awards for best presentation and poster
13:00 - 14:00	Lunch