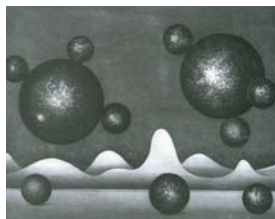


Scientific Programme



Shallow Lakes 2005
5-9 June

Dalfsen

The Netherlands

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Keynote Lectures

			Shalom
Sunday	16:15-17:00	Brian Moss	Shallow lakes, the Water Framework Directive and Life: What should it all mean?
	17:00-17:45	Erik Jeppesen, Martin Søndergaard, Jens P.Jensen, Torben L.Lauridsen, Mark V.Hoyer, Roger W.Bachmann & Daniel E.Canfield	Shallow lakes, global warming and restoration.
Monday	08:30-09:15	J.Huisman, K. D. Jöhnk, J. Sharples, B. Sommeijer, P. M. Visser & J. M. Stroom	Climate change and harmful cyanobacteria.
	14:00-14:45	Marten Scheffer	Shallow Lakes and Deep Insights
Tuesday	08:30 - 09:15	Mathew Leibold	"Biodiversitology" of limnetic ecosystems: from local scales to metacommunities
	14:00-14:45	Dirk Verschuren	Paleolimnology in aquatic ecological research
Thursday	08:30 - 09:15	Luc deMeester	Evolutionary ecology: genetic adaptation and its implications in a shallow lake context
	14:00-14:45	Marcel Klaassen	Are waterbirds key to aquatic systems?

Orals

Sunday		Shalom
		Opening
Location: Shalom		
15:00	Paul Boers	Welcome
15:05	Melanie Schulz van Haegen	Opening by the Minister of Public Transport and Water management
15:25	Louise Vet	Importance of Ecology for Shallow Lake Research.
15:45	Sybe Schaap	Water management in the Netherlands in a philosophical perspective
16:15	Brian Moss	Shallow lakes, the Water Framework Directive and Life: What should it all mean?
17:00	Erik Jeppesen, Martin Søndergaard, Jens P.Jensen, Torben L.Lauridsen, Mark V.Hoyer, Roger W.Bachmann & Daniel E.Canfield	Shallow lakes, global warming and restoration.

19:00-20:30 Dinner

Monday		Shalom
		Plenary Lecture
08:30 - 09:15	J.Huisman, K. D. Jöhnk, J. Sharples, B. Sommeijer, P. M. Visser & J. M. Stroom	Climate change and harmful cyanobacteria.
Chair:	Ellen van Donk	
9:30 - 12:30		Limnology
Location: Shalom		
Chair:	Jan Roelofs	
9:30	D.Davelaar	Back to the source: rethinking shallow lakes in holistic ecological perspective.
9:50	S.M.L.Oliveira, V L.M.Huszar, N. Mazzeo & MartenScheffer	Alternative stable states in a tropical flood-plain lake (Pantanal, Central Brazil).
10:10	A.Poulièková, M. Lysáková, P. Hašler & P. ěhová.	Fishpond sediments – the source of information and algal "seed bank".
10:30		Coffee/tea
11:00	J.M.H.Verspagen, J. Passarge, K. D. Jöhnk, P. M. Visser, L. Peperzak, P. Boers, H. J. Laanbroek & J. Huisman	Water management strategies against harmful cyanobacteria in the Dutch delta.
11:20	S.A.Wood & J.G.Ruck	Cyanobacterial Species Diversity and Bloom Formation in New Zealand – a growing problem.
11:40	W.E.A.Kardinaal, I. Janse, P. M. Visser & G. Zwart	Dynamics of toxic cyanobacteria in Dutch lakes revealed by molecular techniques.
12:00	L.O.Crossetti, C. E. M. Bicudo & D. C. Bicudo.	Shift in dominance patterns of blue green algae in a tropical shallow reservoir (Garças Pond) in temporal and spatial scales: an inter-annual study

Orals

12:20	Y.Chen, F.Kong, Y.Hu, Y. Chen & M. Dokulil	Dynamics of planktonic diatoms related to some environmental factors in Lake Taihu, China.
12:40-14:00	Lunch	
14:00-14:45	Marten Scheffer Chair: Brian Moss	Plenary Lecture Shallow Lakes and Deep Insights
15:00 - 18:00	Limnology	
Chair:	Elisabeth Gross	
15:00	N.Akbulut , A. Akbulut & Y. S. Park.	The plankton distribution in a shallow Uluabat Lake in Turkey.
15:20	A.J.Wijdeveld	Spatial mapping of the Algal Concentrations in Lake IJsselmeer (SPAC): Use of remote sensing chlorophyll data as calibration tool for numeric modelling.
15:40	M.Schütte & I.Blindow.	Growth and life forms of Chara aspera under different light and salinity conditions.
16:00	Coffee/tea	
16:30	S.Blanco, E. Bécares, M. Fernández-Aláez & S. Romo.	Epiphytic biomass in Spanish shallow lakes.
16:50	L.Denys & W.H.DeSmet.	Periphytic rotifers in standing waters (Flanders, Belgium) - relations to environmental characteristics.
17:10		
17:30		
17:50		
18:00-19:00	Poster presentation even numbers	
19:00-20:30	Dinner	
20:30-22:30	Workshop 'Biomanipulation'	

Monday	Herberg	
9:30 - 12:30	Foodwebs	
Chair:	Wolf Mooij	
9:30	P.Zingel, H. Agasild, T. Nöges & V. Kisand	Dominance of ciliates grazing of pico- and nanoplankton in a shallow naturally highly eutrophic lake.
9:50	H.P.van Dokkum, D. Slijkerman & E. M. Foekema	Effect of toxic substances on the decomposition process in lakes.
10:10	E.M.Gross, S. Hilt, S. Lutz, C. Feldbaum & A. Jörg	Variability of allelopathic activity in submerged macrophytes (Myriophyllum spp.).
10:30	Coffee/tea	
11:00	S.Hilt & E.M.Gross	In situ allelopathic potential of Myriophyllum verticillatum.
11:20	M.Seifert, G. McGregor & G. Shaw	Allelopathic effects of crude extracts from the cyanobacteria Cyndrospermopsis raciborskii and Microcystis aeruginosa on a green alga and aquatic macrophytes.
11:40	G.Mulderij & E.vanDonk.	Allelochemicals from Stratiotes aloides reduce growth of phytoplankton and FLAB.
12:00	R.Goldyn, K. Kowalczewska-Madura & W. Romanowicz.	Phytoplankton-zooplankton interactions in the hypertrophic Swarzedzkie Lake.

Orals

12:20	R. Noordhuis	Crash of Zebra Mussels and transparency in Lake Markermeer; irreversible effect of oligotrophication?
12:40-14:00	Lunch	
15:00 - 18:00	Foodwebs	
Chair:	Babette Bontes	
15:00	M.Tarvainen, J. Sarvala & K. Vuorio	The role of ruffe (<i>Gymnocephalus cernuus</i>) in northern lakes: stomach content analysis and stable isotopes.
15:20	M. B.Boveri & R. Quirós	Cascading trophic effects in pampean shallow lakes: two coexisting fish with different feeding strategy in a mesocosm experiment.
15:40	T.L.Lauridsen, E. Jeppesen, M. Overgaard, M. Søndergaard, A. R. Pedersen & F. Landkildehus.	Habitat selection of zooplankton in a turbid and a clear water shallow lake during a one-year period.
16:00	Coffee/tea	
16:30	Iglesias C., G.Goyenola, M.Meerhoff & N.Mazzeo.	Effects of macrophytes and predation risk on the diel distribution of cladocerans in a subtropical lake (Lake Blanca, Uruguay).
16:50	Cs.Balogh & I. B. Muskó	Zebra mussels in the stony littoral zone of Lake Balaton (Hungary) in the droughty 2003 year and the recovery period of 2004.
17:10	R.Pot	Alien macrophytes in The Netherlands: invasive in rivers and canals but hardly in lakes?
17:30		
17:50		
18:00-19:00	Poster presentation even numbers	
19:00-20:30	Dinner	
20:30-22:30	Workshop 'Resistant to Change'	

Monday	Vechtzicht	
9:30 - 12:30	Restoration	
Chair:	Harry Hosper	
9:30	J.G.M.Roelofs,E.C.H.E.T.Lucassen & E.Brouwer	Restoration of shallow softwater lakes based upon carbon limitation
9:50	L. P.M. Lamers, J. J.M. Geurts, A. J.P Smolders, E. Brouwer, E.C.H.E.T. Lucassen & J. G.M. Roelofs	Restoration of peat lakes: bottom-up pitfalls for top-down measures
10:10	E.C.H.E.T. Lucassen A.J.P. Smolders, J.J.M. Geurts, L.P.M. Lamers & J.G.M. Roelofs	Biogeochemical constraints for restoration of sulphate-rich peaty lakes
10:30	Coffee/tea	
11:00	B. M.Bontes, R. Pel, B.W. Ibelings, H.T. S. Boschker, J. J. Middelburg & E. van Donk	The effects of biomanipulation on the biogeochemistry, carbon isotopic composition and pelagic food web relations of a shallow peat lake.

Orals

11:20	R.W.Canavan, A. M. Laverman, C. P. Slomp, G. A. vandenBerg, J. J. GZwolsman & P. VanCappellen	Estuarine restoration of a coastal freshwater lake: Potential response of sediment nutrient cycles to salinization.
11:40	Z.Vekerdy, B. Boncz & I. Szabó	Impacts of hydrological variables on the restoration of wetland vegetation.
12:00	L.Lepistö, K.Berg, C.Lyra, K.Lahti, J.Rapala & L.Villa	Water quality, phytoplankton community and bacteria during long-term eutrophication and Recovery of a shallow Eutrophic lake.
12:20	R.J.W.van de Haterd & G.N.J.ter Heerdt	Development of vegetation in the biomanipulation experiment "Terra Nova".
12:40-14:00	Lunch	
15:00 - 18:00	Restoration	
Chair:	Meryem Beklioglu	
15:00	A.Bak, P.Schouten & G.D.Butijn	Relations between Zebra Mussels (<i>Dreissena polymorpha</i>) and water quality in shallow lakes in The Netherlands.
15:20	L.T.H.Nguyen, D. P. L. Rousseau, S. Heylen & N. De Pauw.	Re-colonisation of the pelagial of a shallow lake by benthic macroinvertebrates after removal of polluted sediment.
15:40	M.I.Gladyshev, V. I. Kolmakov, S. M. Chuprova, I. V. Zuev, O. P. Dubovskaya, E. A. Ivanova, V. G. Gubanov & I. G. Prokopkin	"Top-down" biomanipulation in a shallow Siberian reservoir without daphnids.
16:00	Coffee/tea	
16:30	J.Köhler.	Bistability and productivity of shallow waters.
16:50	R. Portielje, E. Lammens, R. Noordhuis, M. Van den Berg, E. Rijdsdijk & K. Oostinga	The response of shallow lakes Eemmeer and Gooimeer to nutrient reduction and changes in food web components.
17:10	C.Skov , S. Berg, L. Jacobsen & J.S. Olsen	Biomanipulation by pike stocking: cross analysis of 8 Danish restoration projects
17:30	Kemper J. H.	Herring (<i>Clupea harengus</i>) and water quality in Lake Veere (the Netherlands).
17:50		
18:00-19:00	Poster presentation even numbers	
19:00-20:30	Dinner	
20:30-22:30	Workshop 'Peipsi-IJsselmeer'	

Tuesday	Shalom	
	Plenary Lecture	
08:30 - 09:15	Mathew Leibold	"Biodiversitology" of limnetic ecosystems: from local scales to metacommunities
Chair:	Marten Scheffer	
9:30 - 12:30	Limnology	
Location:	Shalom	
Chair:	Tiina Noges	
9:30	M. Beklioglu.	Water Level versus Nutrient Control Over Submerged Plant Development in Mediterranean Shallow Lakes of Turkey.

Orals

9:50	P.Lombardo, M. Mjelde, T. Källqvist & P. Brettum	Seasonal changes in macrophyte-phytoplankton relationships - evidence from laboratory and field data.
10:10	V.Oláh, Sz. Veres, G. Lakatos & I.Mészáros	Applicability of in vivo chlorophyll fluorescence induction method to detect the effects of trace pollutants on aquatic plants.
10:30	Coffee/tea	
11:00	S.L.Amsinck, E. Jeppesen, T. L. Lauridsen & F. Landkildehus	Cladoceran distribution and community structure and their relationships to environmental variables in 30 Faroese lakes - evidence from contemporary data and sediments.
11:20	Janusz Zbikowski	Factors influencing taxonomic composition and macrozoobenthos abundance
11:40	K.Hirabayashi, K. Yoshizawa, N. Yoshida, K. Ariizumi & F. Kazama.	Long-term dynamics of chironomid larvae from a shallow eutrophic lake in central Japan.
12:00	L. Tuvikene.	Spatial and temporal water quality variation in morphologically different regions of a large, shallow lake.
12:20	L. Zambrano & V. Contreras.	Spatial complexity in Xochimilco: a perturbed urban lake.
12:40-14:00	Lunch	
	Plenary Lecture	
Chair:	Dirk Verschuren Mathew Leibold	Paleolimnology in aquatic ecological research
15:00 - 18:00	Limnology	
Chair:	Bas Ibelings	
15:00	S.Declerck, J. Vandekerkhove, L. Johansson, K. Muylaert, J. M. Conde-Porcuna, K. Van der Gucht, C. Pérez-Martínez, T. Lauridsen, K. Schwenk, G. Zwart, E. Jeppesen, W. Vyverman, L. Brendonck & L. De Meester	Community structure in multiple aquatic organism groups: patterns of concordance along gradients of water plant cover, total phosphorus and lake size.
15:20	T.Möls, A. Milius, R. Laugaste, M. Haldna & K. Kangur.	Delayed multivariate response of chemical and biological water variables on the water level and temperature in large shallow Lake Peipsi, Estonia/Russia.
15:40	A.Mentler, P. Bittner, H. Zornig, R. Wagner & M. Fuerhacker	Investigation and management of the water quality of small shallow lakes – a case study.
16:00	Coffee/tea	
16:30		
16:50		
17:10		
17:30		
17:50		
18:00-19:00	Poster presentation uneven numbers	

Orals

19:00-20:30 Dinner

20:30-22:30 Workshop WFD

Tuesday		Herberg	
9:30 - 12:30		Biodiversity	
Chair:	Lisette de Senerpoint Domis		
9:30	T.DeBie, S. Declerck, D. Ercken, K. Martens, L. DeMeester & L. Brendonck	Patterns of diversity in zooplankton communities inhabiting farmland pools.	
9:50	D.Oguzkurt	Can plankton and macroinvertebrate communities be considered as bio-indicators of water quality in shallow Lake Beysehir, Turkey?	
10:10	A.Popijaè, I. Ternjej, Z. Mihaljeviæ & M. Kerovec.	A comparative study on benthic macrofauna in two shallow Mediterranean lakes.	
10:30		Coffee/tea	
11:00	D.Boix, J. Sala, S. Gascón, M. Martinoy, J. Gifre, S. Brucet & X. D. Quintana	Composition and richness of crustaceans and insects of Mediterranean ponds (NE Iberian peninsula).	
11:20	X.D.Quintana, S. Brucet, A. Badosa, R. López-Flores, S. Gascón, J. Sala & D. Boix.	Ecological factors affecting size diversity and species diversity of aquatic communities in Mediterranean salt marshes.	
11:40	D. Pithart & L. Pechar.	Ecosystem of small aluvial waters in a preserved floodplain – ecology, biodiversity and prospects of conservation.	
12:00	M.Florín, B. García, A. Sanz & L. Medina	Shallow lake restoration in the context of biodiversity networks: coupling biogeographical to hydrogeomorphological criteria to design an ecological engineering project.	
12:20	C.Micheli, P. Paganin & R. Cianchi	Genetic variability and ecological structure of the seagrasses (<i>Cymodocea nodosa</i> and <i>Ruppia cirrhosa</i>) in the lakes of Circeo National Park (Italy).	
12:40-14:00		Lunch	
15:00 - 18:00		Climate change	
Chair:	Steven Declerck		
15:00	W. M.Mooij, S. Hülsmann, L. N. De Senerpont Domis, E. H. R. R. Lammens, P. L. E. Bodelier, L. M. Dionisio Pires, H. J. Gons, B.W. Ibelings, B.A. Nolet & R. Portielje	Assessing the impact of climate change on Dutch shallow lakes: a review.	
15:20	S.Kosten, N. Mazzeo, G. Lazerot, M. Scheffer, E. vanNes, D. daMotta & G. Cpaggi	Climate induced shifts in lake ecosystems: South American Lake Gradient Analysis.	
15:40	T.Nõges, T. Alliksaar, A. Heinsalu, A. Järvet, A. Kisand, R. Laugaste, E. Loigu, H. Luup & P. Nõges.	Consequences of changed nutrient loading and climate changes on the ecological status of large, shallow, temperate lakes Võrtsjärv and Peipsi, Estonia.	
16:00		Coffee/tea	

Orals

16:30	H.Luup, T. Alliksaar, A. Heinsalu, P. Nõges & T. Nõges	Linking sediment diatoms, water-level changes and climate: a comparison of historic and sediment core records within Lake Võrtsjärv, Estonia.
16:50	L.N.deSenerpontDomis & W.M.Mooij .	Responses to climate change in Dutch shallow lakes: match/mismatch of species interactions.
17:10	L. Liboriussen, E. Jeppesen, A. Roer Pedersen, F. Landkildehus & M. Søndergaard	Seasonal dynamics in sediment respiration and epipelon production from heated and unheated mesocosms
17:30	W.J.Rip, M.Ouboter, H.J. Los	Impact of climatic fluctuations on Characeae biomass in a shallow, restored lake in The Netherlands.
17:50		

18:00-19:00 Poster presentation uneven numbers

19:00-20:30 Dinner

20:30-22:30 Workshop "Mediterranean shallow lakes: Variation at Theme"

Tuesday		Vechtzicht
9:30 - 12:30		Restoration
Chair:	Leon Lamers	
9:30	G. ter Heerdt & M. Hootsmans	Effects of almost complete whitefish removal on recovery of an 85 ha shallow, eutrophicated peaty lake in The Netherlands
9:50	J.Keto, S. Laine & K. Vakkilainen	A gradual recovery: the management and operation of Lake Vesijärvi project.
10:10	J.VanWichelen, V.Geenens, K.Muylaert, J.Vandekerkhove, E.Michels, S.Declerck, I.Hoste, K.Himpe, N.DePauw, L.DeMeester, M.Hoffmann & W.Vyverman.	Restoration of the shallow, eutrophic Lake Kraenepoel (Belgium).
10:30		Coffee/tea
11:00	K.A.Berg, J. Rapala, C.Lyra, K. Lahti, C. L. L. Villa & L. Lepistö	Comparison of Biological Factors in Two Finnish Lakes, Tuusulanjärvi and Joutikas During the Years 1999-2004.
11:20	K.Fugl & P.Myssen	Low cost effective biomanipulation in lake Maribo Søndersoe.
11:40	M. Kraal	Biomanipulation and recreational fisheries.
Water Framework Directive		
12:00	A.C.Cardoso, A. Solimini, G. Premazzi, L. Carvalho, A. Lyche & S. Rekolainen	Application of the morphoedaphic index to setting phosphorous reference concentrations in shallow lakes.
12:20	M.Kangur, K. Kangur, J. M. Punning & T. Möls	The palaeolimnological record from L. Pihkva and its comparison with monitoring data.
12:40-14:00		Lunch
15:00 - 18:00		Water Framework Directive

Orals

Chair:	Marcel Klinge	
15:00	M.S.van den Berg & H.Coops.	Metrics for chlorophyll and macrophytes to assess the ecological quality of lakes for the Water Framework Directive.
15:20	R.Ptacnik, T. Andersen, A. Lyche, L. Lepisto, S. Rekolainen, L. Carvalho & L. Torok	Phytoplankton composition responses to eutrophication: shallow vs deep lakes.
15:40	L.Carvalho, G. Phillips, S. C. Maberly, A. Solimini, A-C. Cardoso, A. Lyche, T. Andersen, R. Ptacnik, S. Rekolainen, L. Lepisto & G. Tartari	Defining chlorophyll reference conditions for European lake types and a comparison of their sensitivity to nutrient pressures.
16:00	Coffee/tea	
16:30	E.S.Papastergiadou & A.Retalis	Land use changes and associated environmental impacts of a shallow lake Stymfalia, Greece.
16:50	G.H.P.Arts, J. D. M. Belgers, R. Pot, H. C. Coops & H. vanDam	Application of macrophyte and phytobentos ecological status criteria to moorland pools and soft-water lakes.
17:10	G.Lakatos.	Ecological state of shallow lakes based on Non-taxonomic Periphytic Index (NTPI) in EU WFD.
17:30		
17:50		
18:00-19:00	Poster presentation uneven numbers	
19:00-20:30	Dinner	
20:30-22:30		

Thursday		Shalom
		Plenary Lecture
08:30 - 09:15	Luc deMeester	Evolutionary ecology: genetic adaptation and its implications in a shallow lake context
Chair:	Marcel Klaassen	
9:30 - 12:30		Nutrients
Location:		
Chair:	Geoff Phillips	
9:30	B.M.Spears, L. Carvalho & D. M. Paterson	Spatial and temporal variation in phosphorus composition and mobility in Loch Leven sediments.
9:50	B. Qin, G. Zhu, L. Zhang, L. Luo, G. Gao, W. Sumin & B. Gu.	Estimation Methods of Nutrient Release from Sediments of Large Shallow Lakes: A Case Study in Lake Taihu China.
10:10	J.R.White and M.A.Belmont.	The Equilibrium Phosphorus Concentration (EPC); A Tool for Determination of the Mobility of the Internal Phosphorus Load in Lake Sediments.
10:30	Coffee/tea	
11:00	D.F.Burger, D. P. Hamilton, C. A. Pilditch & M. M. Gibbs	Cyanobacterial blooms controlled by internal nutrient loads in a shallow polymictic lake..

Orals

11:20	K.Kangur, T. Möls & R. Laugaste	Changes in the spatial distribution of nutrients and phytoplankton groups in the last decades in L. Peipsi, Estonia/Russia.
11:40	C.Ferragut & D.C.Bicudo.	Structural periphyton and phytoplankton responses to nutrient artificial enrichment in a shallow tropical reservoir, São Paulo, Brazil.
12:00	J.H.Janse, M.Klinge & M.R.L Ouboter	Critical nutrient loading of shallow lakes. 1: Model simulations
12:20	M.R.L.Ouboter, M.Klinge & J.H.Janse	Critical nutrient loading of shallow lakes. 2. Application in design
12:40-14:00		Lunch
		Plenary Lecture
14:00-14:45	Marcel Klaassen Chair: Luc deMeester	Are waterbirds key to aquatic systems?
15:00 - 18:00		Nutrients/Evolution
Chair:	Torben Lauridsen	
15:00	S. Sollie, J. T.A. Verhoeven, H. Coops and R. Portielje	Nutrient status and vegetation in the littoral zone of shallow eutrophicated lakes in relation to water regime – a correlative field study in the IJsselmeer area, the Netherlands
15:20	B.W.Ibelings.	Niche construction and biodiversity in shallow lakes.
15:40		
16:00	Coffee	

Thursday		Herberg
9:30 - 12:30		Fishes
Chair:	Eddy Lammens	
9:30	I.Tátrai, A. Specziár, P. Bíró & G. Guti	Fish community structure in shallow water ecosystems of various size in relation to trophic conditions and type of exploitation.
9:50	M.Olin, T. Malinen, J. Ruuhijärvi, A. Tuomaala & J. Horppila	The diurnal distribution of fishes in a shallow eutrophic lake - implications for effective mass removal.
10:10	P.Frankiewicz, A. Swierzowski & M. Godlewska	Spatial and temporal pattern of fish distribution and migration in a eutrophic lowland reservoir of central Poland - implications for the ecosystem management.
10:30		Coffee/tea
11:00	P.Kangur & A.Kangur.	Effect of weather-driven changes and consequences of overfishing of piscivorous fishes in large Estonian lakes (oral).
11:20	A.Specziár	Long term patterns of first year cohort dynamics of fish in Lake Balaton
11:40	C.Alcaraz, Q. Pou-Rovira & E. García-Berthou.	Ecology of an endangered cyprinodontid fish (<i>Aphanius iberus</i>) in a shallow coastal lagoon.
		Birds

Orals

12:00	B.Hidding, B. A. Nolet & M. Klaassen .	Deep tuber burial of Fennel pondweed (<i>Stuckenia pectinata</i>) related to foraging activities of Bewick swans (<i>Cygnus bewickii</i>).
12:20		
12:40-14:00	Lunch	
15:00 - 18:00	Birds	
Chair:	Marcel Klaassen	
15:00	E.H.R.R. Lammens & R. Noordhuis.	Interactions between piscivorous birds and piscivorous fish in Gooimeer and Eemmeer.
15:20	I.J.Winfield, M. L. Yallop, C. Onoufriou, M. J. O'Connell & M. Godlewski	Assessment of a hydroacoustic system for surveying aquatic macrophytes in a shallow lake and its initial application in a study of overwintering waterfowl.
15:40	X.Armengol, F. Atienzar, J. Larrosa, J. L. Echevarrias, D. Liñana & E. Barba	Biological characterization of the sediment, as a food source for the white-headed duck <i>Oxyura leucocephala</i> , in different water bodies from "El Hondo" Natural Park (Alicante , Spain) during an annual cycle
16:00	Coffee/tea	

Thursday	Vechtzicht	
9:30 - 12:30	Water Framework directive	
Chair:	Diederik vd Molen	
9:30	W.E.Penning, S.Hellsten, M.Mjelde & J.Hangan	Eutrophication: pressure for macrophytes in the whole of Europe?
9:50	H.Coops, F.C.M.Kerkum, M.S.van den Berg & I.van Splunder	Assessment of macrophytes: status, trends and prospects in shallow, alkaline lakes in the Netherlands based on 12 years monitoring.
10:10	L.Denys, B. Veraart, J. Packet, D. VanPelt, H. vanderHammen & V. Moons	Macrofauna distribution in standing freshwaters of lower Belgium.
10:30	Coffee/tea	
11:00	N. Jaarsma	Freshwater fishes show different scales of human impacts on aquatic habitats
11:20	R. Veeningen.	The shallow Frisian lakes and the European Water Framework Directive
11:40	F.vanLuijn & E.H.R.R.Lammens	European Water Framework Directive implementation in IJsselmeer area/Markermeer.
12:00	Y. Wessels, H. van Dam, F. van Luijn and E.H.R.R. Lammens	Markermeer, IJsselmeer and ecological status classification systems of the Water Framework Directive
12:20	G. Phillips.	Application of the WFD to a series of shallow lakes in Eastern England, the Broads.
12:40-14:00	Lunch	
15:00 - 18:00	Water Framework directive	
Chair:	Hugo Coops	
15:00	M.Søndergaard, E. Jeppesen, J. P. Jensen & S. L. Amsinck	Water Framework Directive in shallow Danish lakes: indicators, classification and ecological quality ratio.

Orals

15:20	P.Nöges, A. C. Cardoso, W. vandeBund & A. S. Heiskanen	Impact of climatic variability on ecological water quality parameters in lakes - implications on the Water Framework Directive.
15:40	R.W.Doef & R.Noordhuis	Management plan Veluwe Borderlakes, tailored to the EU Bird- and Habitat Directives (BHD) and the Water Framework Directive (WFD)
16:00	Coffee/tea	

Posters

Even posters presented on Monday, uneven on Tuesday, underneath Shalom 18.00-19.00h

Limnology

- | | | |
|----|---|---|
| 1 | Peretyatko A., S.Teissier, J.-J. Symoens & L. Triest. | Phytoplankton abundance and environmental factors in a gradient over sixteen clear to turbid shallow ponds from the Woluwe river catchment (Belgium). |
| 2 | Yustres A., V. Navarro & M. Florín. | Scaling ground water fluctuation and disturbance: Where does a shallow lake start and end-up in the Z direction? |
| 3 | Obrador B., J. L. Pretus & M. Menéndez. | Variability of spatial distribution and biomass of aquatic rooted macrophytes in a shallow mediterranean coastal lagoon: aspects of production and decomposition of <i>Ruppia cirrhosa</i> . |
| 4 | Messyasz B. | The influence of environmental factors for quantitative changes of phytoplankton in Lake Legowskie |
| 5 | Trigal C. & C. Fernández-Aláezand. | Influence of environmental factors on the macroinvertebrate community structure in Mediterranean ponds. |
| 6 | Anastasiadou Ch., I. Kagalou, E. Papastergiadou & I. Leonardos. | The functional plasticity of the habitat in the presence and the abundance of the freshwater shrimps (<i>Atyaephyra desmaresti</i> and <i>Palaemonetes antennarius</i>) in Lake Pamvotis (NW Greece). |
| 7 | Bicudo D.C., C. E. M. Bicudo, B. M. Fonseca, A. Araújo & I. S. Vercellino. | Trophic state classification schemes comparison for three shallow tropical small reservoirs (Brazil): an inter-annual study. |
| 8 | Shafik H. M., A. M. El-otify, P. Mátyás | Physiological and morphological characteristics of <i>Desmodesmus spinosus</i> and <i>Scenedesmus obliquus</i> (Chlorophyta) under well-defined conditions |
| 9 | Druvietis I., D. Gruberts , E. Parele , J. Paidere, A. Poppels & A. Škute | Limnology of Latvia's floodplain lakes. |
| 10 | Ternjej I., A. Popijaè, Z. Mihaljeviæ, A. Previšiæ, K. Žganec & M. Kerovec. | Macrozooplankton and macrozoobenthos communities of four shallow urban lakes. |
| 11 | Ternjej I., A. Plenkovia-Moraj, M. Kerovec, M. Gligora, K. Kralj & P. Mustafia. | Seasonal changes of plankton in Butoniga reservoir. |
| 12 | Haberman J. | A comparative study of cladoceran communities in two large and shallow lakes of Estonia (L. Peipsi, L. Võrtsjärv). |
| 13 | Çelik K. | Seasonal Variations in the Phytoplankton Communities of an Inlet and the Outlet of a Shallow Hypertrophic Turkish Lake (Lake Manyas). |
| 14 | Melnik M. & K. Kangur | Current status of macrozoobenthos in Lake Peipsi |

Posters

- 15 Gligora M., A. Plenkovia-Moraj, K. Kralj & D. Peroš-Pucar. Phytoplankton in a shallow lake: Vransko Jezero, Croatia.
- 16 Kuczynska-Kippen N. The diurnal distribution of rotifers (Rotifera) within a single Chara bed.
- 17 Sadyrin V.M. The Arctic zooplankton of shallow lakes of the Pechora delta.
- 18 Bijkerk R., G. J. Berg & H. Wanningen. Fighting turbidity in shallow lakes in the Northern Netherlands.
- 19 Hassan S. & K Schmieder. Assessment of the ecological status of lake Qattieneh / Syria.
- 20 Oduor S.O. & M. Schagerl Temporal Trends of Salinity and Conductivity in the Eastern Rift Valley Saline-Alkaline Lakes and their influence on the lakes Biota
- 21 Feldmann T. Seasonal changes in morphological indicators of Potamogeton lucens L. in two lakes of different type.
- 22 Nagengast B, T. Joniak & N. Kuczyńska-Kippen The differentiation of physical-chemical features of water and macrophyte habitats of small water bodies.
- 23 Ongun T. & K.Çelik. Phytoplankton assemblages from two inlets of a shallow hypertrophic lake contrasting in trophic state.
- 24 Ponomarev V. & O.Loskutova. The Moreyu river shallow lakes aquatic communities (the Barents Sea basin).
- 25 Palijan G. & D.Fuks Alternation of factors affecting bacterioplankton abundance in Danube river floodplain (Kopački rit, Croatia)
- 26 Płaska W. Zooplankton structure in the shallow littoral of three lakes and two artificial reservoirs in Łęczna-Włodawa Lake District (Eastern Poland)
- 27 Krausz E. Role of epilimnion in shallow Hungarian lakes.
- 28 Kazama F. Annual change of DOM contents of a shallow lake in Japan, Lake Kawaguchi.
- 29 Brodersen J., C. Brönmark, L.-A. Hansson, A. Hargeby, P. Hertonsso, A. Nilsson & C. Skov Alternative stable states in shallow eutrophic lakes- controlled by fish migrations?
- Foodwebs**
- 30 Conty A. & E. Bécares Bacteria and ciliates changes with eutrophication in Mediterranean shallow lakes.
- 31 Vuorio K., A.-M.Ventelä, M.Tarvainen & J.Sarvala Does size matter? Effect of lake size on food web structure as deduced from stable carbon and nitrogen isotopes
- 32 Wojtal A., D. Bogusz, V. Menshutkin, K. Izydorczyk, P. Frankiewicz, I. Wagner otkowska & M. Zalewski. Verification of the Daphnia sp. - Leptodora kindtii interactions model in different hydrological conditions in pelagic zone of lowland Sulejow Reservoir.
- 33 Rezsü E., A. Specziár & A. S. Nagy. Ontogenetic diet profiles of perch *Perca fluviatilis*, ruffe *Gymnocephalus cernuus* and pumpkinseed sunfish *Lepomis gibbosus* in Lake Balaton.

Posters

- 34 Agasild H., I. Tõnno & T. Nõges. Contribution of different zooplankton groups in grazing on phytoplankton in shallow eutrophic Lake Võrtsjärv (Estonia).
- 35 Sammalkorpi I. Predictability of the fish biomass in eutrophic lakes by empirical reductionistic predictions?
- 36 Loonen M.J.J.E., J. H. Wanink, P. P. Schollema & H. Wanningen. Does the Chinese mitten crab change its environment? An experimental approach.
- 37 Kumari M. & K.Kangur. Variations in the macrozoobenthos communities in connection with expansion of reed *Phragmites australis* in two largest Estonian lakes.
- 38 Kuczyńska-Kippen N., P. Nowosad, A. C. Majewska, A. S³odkowicz-Kowalska & T. K. Graczyk. Rotifers as bioindicators of surface water pollution by protozoan parasites.
- 39 Erben R. & J. Lajtner. Seasonal changes of zooplankton in the dam reservoir Modrac (Bosnia and Herzegovina) .
- 40 Goyenola G., C.Iglesias, M.Meerhoff & N.Mazzeo. Spatial use of the nekton community in a subtropical shallow lake without piscivorous fish (Lake Blanca Uruguay)
- 41 Hörcsik Z.T., I. Mészáros, Judit Halász, Á. Balogh & G. Lakatos. Effect of cadmium and chromium (VI) on growth, photosynthetic pigment composition and oxidoreductases activity of *Chlorella pyrenoidosa*
- Nutrients**
- 42 Karapinar B. & M. Beklioglu. Role of Hydrology and Biomanipulation in Effecting Mass Balance of Nutrients in a Shallow Eutrophic Lake Eymir, Turkey.
- 43 Lelková E., M. Rulík, A. Poulíèková, P. Hašler, P. Hekera, P. Dobiáš & P. Dolejš. The influence of coagulant PAX-18 on phytoplankton and fishpond trophic status.
- 44 Haghseresht F. Phoslock - A new solution for the eutrophication of shallow lakes.
- 45 Fukuhara H., Y. Takeuchi, F. Nemoto & N. Toda. Nitrate dynamics in a reed belt of a shallow sand dune lake in Japan - Analysis of nitrate retention using stable nitrogen isotope ratios.
- 46 Kowalczevska-Madura K. & R.Goldyn. Phosphorus excretion rate by zooplankton within the Swarzedzkie Lake.
- 47 Joniak T. & M.Kraska. Transformation of phosphorus in small humic lakes in Drawieński National Park (Poland).
- Birds**
- 48 Niinioja R., H.Kontkanen, S.Hakalisto, A.-L.Holopainen & A.Rämö. Monitoring of valuable bird sanctuaries in North Karelia, Eastern Finland
- Climate change**
- 49 Meerhoff M., E.Jeppesen, L.Liboriussen, M.E.Bramm, F.Landkildehus, T.Lauridsen & M.Søndergaard. Response of shallow lake communities to experimental climate warming
- 50 Bjerring R. , E. Jeppesen, S. Amsinck, B. Odgaard , B. Moss, E. Becares, E. Gross, L-A Hansson, T. Kairesalo, R. Kornijów & T. Nõges. Change in cladoceran community structure along a temperature gradient from northern Sweden to Spain, based on subfossils

Diversity

- 51 Fernández-Aláez C., C. de la Vega, M. Fernández-Aláez & E. Bécares. The factors controlling zooplankton diversity in some Mediterranean ponds.
- 52 Fefilova E.B. Fauna of lower crustaceans from the western and eastern lakes of Bol'shezemel'skaya tundra.
- 53 Kiss M. K. Biodiversity of periphyton collected in shallow Hungarian lakes.
- 54 Mihaljeviæ Z., M.Kerovec, A.Popijaè & P.Mustafiæ Benthic macrofauna of Vrana Lake (Croatia)
- 55 Romo,S.& M.J.Villena. Diversity and species richness of epiphytic algae in relationship with nutrients, planktivorous fish and phytoplankton
- 56 Fonseca B.M. & C. E. M. Bicudo A comparative study on seasonal variation of phytoplankton diversity in two shallow tropical reservoirs with different trophic status.

Restoration

- 57 Özen A., B. Karapýnar, Ç. B. Muluk, Ö. Karabulut & M. Beklioglu. Shift to turbid water state with loss of submerged plants five years after biomanipulation in Lake Eymir, Turkey
- 58 Zhu G.W., B. Q. Qin, Z. M. Yu, Z. Y. Wu & W. M. Chen Environmental Problems of West Lake, Hangzhou, China and its countermeasures.
- 59 Kagalou I., E. Papastergiadou, K. Stefanidis & I. Leonardos Long term changes of chlorophyll-a and nutrients in a shallow lake ecosystem of W. Greece.
- 60 Samuels J. Restoration of Rozeven, a shallow eutrophic water in West Brabant.
- 61 Azevedo J.M.N., A.Valente, V.Gonçaves & N.Vieira Biomanipulation of the Furnas lake (Azores, Portugal)
- 62 Johansson L., T. Kauppila, S. Amsinck, E. Jeppesen & A-M Ventelä Changes in eutrophicated Lake Pyhäjärvi, Finland, after restoration, elucidated by palaeolimnological studies, covering a 30-year period.
- 63 Hokken M.P., R. Torenbeek & A. Swenne New mowing method in Lake Bovenwater (the Netherlands): a combination of ecological restoration and navigability of the lake "Bovenwater"
- 64 Suijkerbuijk R.E.M. Cultural-historical restoration of breakthrough ponds.
- 65 Nispen R. van Restoration of Hoevensche Beemden, shallow eutrophic water in West Brabant.
- 66 Pedusaar T., I. Sammalkorpi, A. Järvalt, A. Hautala & A. Järvet Shoreline wetland and biomanipulation as lake management techniques to enhance water quality in Lake Ülemiste (Estonia) for subsequent water treatment.
- 67 Ke X. & W. Li The restoration and recovery of Vallisneria natans in China
- 68 Wang G. X. , Q. Li, H. Chua, X. D. Li & P. M. Pu A Mosaic Community of Macrophytes for the Ecological Remediation of Eutrophic Shallow Lakes
- 69 Chen K., W. Zhou, C. Lan & X. Chen. Ecological Restoration in Eutrophic Lake Wuli (in China)

Water Framework Directive

Posters

- 70 Heinsalu A., A. Leeben, J. Salujõe & S. Veski. Reconstruction of past water quality for shallow hypereutrophic Lake Harku, Tallinn, Estonia using paleolimnological analysis.
- 71 Heinsalu A., T. Alliksaar, A. Leeben & T. Nõges. Sediment diatom assemblages and composition of pore-water dissolved organic matter as indicators of eutrophication history of large shallow Lake Peipsi.
- 72 Järvalt A. & A. Kangur. Fish production as criteria for assessment of ecological status of two large shallow lakes, Lake Peipsi and Lake Võrtsjärv, (Estonia).
- 73 Mälton E., K. Kangur & H. Timm. Assessment of biological quality of Lake Peipsi using shallow-water macroinvertebrates.
- 74 Bijkerk R. & A.M.T.Joosten. Desmids as indicator organisms in the Water Framework Directive.
- 75 Pot R. Exploring strength and weakness of new ecological quality assessment methods during the process of software development.
- 76 Poikane S. & M. Plenkovic Intercalibration of lakes across the European Union - progress report.
- 77 Alliksaar T. & A.Heinsalu. A switch from a clear macrophyte dominated state to a turbid phytoplankton-prevailing aquatic ecosystem as shown by sedimentary evidence from a shallow hard-water lake.
- 78 Szabó, M., E.Krausz & Gy.Lakatos ETS-activity as a tool for ecological qualification in the EU WFD (Water Framework Directive)
- 79 Lauwaars S., R. Doef, M. van Eerden, E. Lammens, U. Menke Comparison of two large shallow lake systems: Lake IJsselmeer and Lake Peipsi
- Fish**
- 80 Mracovic M., P.Mustafic, M.Caleta & Z.Dolenec Structure and composition of ichthyofauna of Lake Vrana.

Workshops

Monday	20:30-22:00 Shalom	Marcel Klinge, Harry Hosper, Ilkka Sammalkorpi, Gerard ter Heerdt, Lowie and Bram van Liere	Biomanipulation in shallow eutrophic lakes to reach and maintain Good Ecological Status for the European Water Framework Directive: cost-effective water management or undesired ecological gardening?
	20:30-22:00 Herberg	D. Davelaar	Resistant to change, turbid lakes and the reductionistic sciences alike.
	20:30-22:00 Vechtzicht	Sophie Lauwaars, Mennobart van Eerden, Roel Doef	Peipsi-IJsselmeer.
Tuesday	20:30-22:00 Shalom	Diederik van der Molen	European Water Framework Directive
	20:30-22:00 Herberg	Meryem Beklioglu, Susana Romo, Ifigenia Kagalou, Xavier Quintana, Eloy Bécares, Maria-José Boavida	Mediterranean Shallow Lakes: Variation in the Theme