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Theme Session H

Harmful Algal Blooms in Aquaculture and Fisheries ecosystems: prediction and societal effects

Conveners: Beatriz Reguera (Spain), Juan Blanco (Spain), and Bengt Karlson (Sweden)

CM Code	Oral Presentations	
H: 01 Oral	Title:	Distribution and impacts of harmful algal blooms in the ICES area
	Authors:	Reguera B, Bresnan E, Martin J, Tester P, Karlson B.
	Keywords:	harmful algal blooms, HAB distribution, socio-economic impacts
H: 02 Oral	Title:	Harmful Algal Blooms and their impacts on bivalve molluscs.
	Authors:	Hegaret H, Fabioux C, Lambert C, Haberkorn H, Lassudrie M, Lelong A, Soudant P.
	Keywords:	HABs, bivalve, fisheries, aquaculture
H: 03 Oral	Title:	Assessing the behavioral toxicity of a globally expanding harmful dinoflagellate, <i>Cochlodinium polykrikoides</i> , to estuarine forage fish.
	Authors:	Rountos KJ, Pikitch EK, Gobler CJ.
	Keywords:	Harmful algal blooms, Forage species, Toxicity
H: 04 Oral	Title:	Diarrhetic Shellfish Toxins in blue mussels (<i>Mytilus edulis</i>) in Sweden: Experiences from monitoring of the toxins and <i>Dinophysis</i> spp., the causative organisms.
	Authors:	Karlson B, Johansen M, Persson M.
	Keywords:	HABs, alongshore transport, upwelling, DSP
H: 05 Oral	Title:	Effect of industrial process for canning on okadaic acid toxins detection/quantification by different techniques.
	Authors:	Moroño A, Arévalo F, Correa J, Porro MC, Cabado AG, Vieites JM, Blanco J.
	Keywords:	okadaic acid, dinophysistoxin 2, LC-MS/MS, Mouse Bioassay, phosphatase inhibition, industrial steaming, canning. DSP toxicity
H: 09 Oral	Title:	Azaspic acids and their producing organisms.
	Authors:	Krock B, Tillmann U.
	Keywords:	Azaspic acid shellfish poisoning (AZP), Azadinium, Amphidoma
H: 10 Oral	Title:	Current knowledge and perspectives of study on benthic toxic dinoflagellates of the genus <i>Gambierdiscus</i> in the Canary Islands.
	Authors:	Rodríguez F, Fraga S, Riobó P, Franco JM.
	Keywords:	Gambierdiscus, benthic dinoflagellates, ciguatera, Canary Islands.

CM Code	Oral Presentations	
H: 11 Oral	Title:	Occurrence of harmful phytoplankton species in Moroccan Atlantic Shellfish areas during 2003-2013.
	Authors:	Bennouna A, EL Attar J, Abouabdelah R. ; Moita MT.A, Penna A., Oliveira BP, Palma S.
	Keywords:	Phytoplankton, <i>Ostreopsis</i> , <i>karenia</i> , <i>Dinophysis</i> , <i>Alexandrium</i> , <i>Pseudonitzschia</i> , Upwelling, Atlantic Moroccan coasts.
H: 12 Oral	Title:	Emergent marine toxins in the temperate north Atlantic coast.
	Authors:	Baptista M, Silva M, Sabour B, Hassouani M, Barreiro A, Otero P, Azevedo J, Alfonso A, Botana LM, Vasconcelos V.
	Keywords:	BMAA, new vectors, north Atlantic, SPX, TTX
H: 13 Oral	Title:	Structural diversity of ovatoxins in <i>Ostreopsis</i> cf. <i>ovata</i> AZ strain and their impact on monitoring.
	Authors:	Rossi R, Zingone A, Soprano V, Yasumoto T
	Keywords:	<i>Ostreopsis</i> cf. <i>ovata</i> ; ovatoxins; ESI-LC-TOF
H: 14 Oral	Title:	Overview of activities of the ICES-IOC Working Group on Harmful Algal Bloom Dynamics.
	Authors:	Karlson B.
	Keywords:	Phytoplankton, Harmful Algal Blooms, HAEDAT Harmful Algae Event Database, Aquaculture
H: 20 Oral	Title:	Seeding of <i>Gymnodinium catenatum</i> blooms on the Iberian shelf.
	Authors:	Amorim A, Nolasco R, Oliveira PB, Silva T, Silva A, Domingues B, Brotas V, Dubert J, Moita MT.
	Keywords:	<i>Gymnodinium catenatum</i> ; Seed population; Lagrangian model; Regional Ocean Modelling System; Iberia
H: 21 Oral	Title:	Environmental drivers and bloom characteristics of <i>Alexandrium minutum</i> along the French coasts.
	Authors:	Guallar C, Hernández-Fariñas T, Bacher C, Chapelle A.
	Keywords:	<i>Alexandrium fundyense</i> , <i>Amoebophrya</i> spp., host-parasite interactions, harmful algae blooms, models, coexistence.
H: 22 Oral	Title:	Towards forecasting <i>Dinophysis</i> blooms off NW Iberia: a decade of events.
	Authors:	Moita MT, Pazos Y, Rocha C, Rocha A, Oliveira PB.
	Keywords:	HABs, alongshore transport, upwelling, DSP
H: 23 Oral	Title:	Trends on <i>Dinophysis acuminata</i> and <i>D. acuta</i> populations in the Galician Rias based on twenty years of weekly monitoring of oceanography and phytoplankton.
	Authors:	Pazos Y, Moroño A, Calvo S, Reguera B
	Keywords:	<i>Dinophysis acuminata</i> , <i>Dinophysis acuta</i> , time series, downwelling, monitoring, Galician Rias
H: 24 Oral	Title:	Harmful algal blooms in the Curonian Lagoon of the Baltic Sea and environmental effects.
	Authors:	Aleksandrov S
	Keywords:	algal blooms, eutrophication, water quality, Curonian Lagoon
H: 28 Oral	Title:	ASIMUTH, an operational HAB Forecasting System in Ireland.
	Authors:	Silke J, Cusack C, Nolan G, Lyons K, Dabrowski T
	Keywords:	Shellfish, Harmful Algal Blooms, Toxins, Aquaculture, Forecasting

CM Code	Oral Presentations	
H: 29 Oral	Title:	Numerical simulations with the ASIMUTH forecast system for understanding and forecasting HAB events in Galicia (NW Spain).
	Authors:	Ruiz Villarreal M, García L, Cobas M, Reguera B, Díaz P
	Keywords:	HAB Forecast system, along-shore and across-shore transport, <i>Dinophysis acuminata</i> and <i>acuta</i>
H: 30 Oral	Title:	Forecasting Harmful Algal Blooms in a coastal embayment using Artificial Neural Networks.
	Authors:	Fernández-Tejedor M, Guallar C, Delgado M, Diogène J
	Keywords:	
H: 31 Oral	Title:	<i>Alexandrium fundyense</i> - <i>Amoebophrya</i> spp. dynamics in a semi enclosed embayment: Implications of sexual reproduction and excystment/encystment strategies on host-parasite coexistence.
	Authors:	Velo-Suárez L, Arancio M, McGillicuddy DJ Jr., Sourisseau M
	Keywords:	
H: 32 Oral	Title:	Accumulation, biotransformation, ways of excretion and depuration kinetics of DSP toxins in bivalves.
	Authors:	Blanco J.
	Keywords:	Diarrhetic shellfish toxins, accumulation, depuration, feces, 7-o-acyl derivatives, biotransformation, excretion way
H: 33 Oral	Withdrawn	
H: 34 Oral	Title:	Searching multi-annual and seasonal trends of bivalve toxicity by PSTs in estuarine and littoral areas: the case study of Portugal.
	Authors:	Botelho MJ, Vale C, Gomes-Ferreira
	Keywords:	Paralytic shellfish toxins; <i>Gymnodinium catenatum</i> ; <i>Mytilus</i> spp., <i>Cerastoderme edule</i> ; <i>Donax trunculus</i> ; <i>Spisula solida</i>
H: 35 Oral	Title:	Estability of okadaic acid, 13-desmethyl SPX and Gymnodimine in Galician coast waters.
	Authors:	Martín-Morales E, Mariño C, Martín H, Blanco J
	Keywords:	Okadaic acid, 13 desmethyl SPX C, gymnodimine, seawater, sediments, Galician coast, degradation, persistence, cysts
H: 36 Oral	Title:	Innovative technologies applied to monitoring of benthic HAB <i>Ostreopsis</i> : an overview of molecular and analytical tool development for <i>in situ</i> characterization of harmful benthic blooms.
	Authors:	Penna A, Casabianca S, Perini F, Casabianca A, Dell'Aversano C, Ciminiello P, Dello Iacovo E, Tartaglione L, Vila M, Riobò P, Franco JM, Chiantore C
	Keywords:	benthic HAB, monitoring, <i>Ostreopsis</i> , palytoxins, qPCR
H: 37 Oral	Title:	Real Time PCR methodologies as a routine monitoring tool for the detection of <i>Pseudo-nitzschia</i> and <i>Azadinium</i> species in Irish waters.
	Authors:	Clarke D, Salas RG, Silke J
	Keywords:	Amnesic Shellfish Poisoning, Azaspiracid Shellfish Poisoning, <i>Azadinium</i> , <i>Pseudo-nitzschia</i> , Molecular, real time PCR
H: 38 Oral	Title:	Occurrence of lipophilic shellfish toxins (LST) in Scottish lochs: Detection using Solid Phase Adsorption Toxin Tracking (SPATT).
	Authors:	Hermann G, Boss K, Lacaze JP
	Keywords:	SPATT, passive sampler, biotoxin, LC-MS

CM Code	Oral Presentations
H: 45 Oral	<p>Title: Key point of Galicia LBM monitoring program: efficient information dissemination to end users.</p> <p>Authors: Salgado C.</p> <p>Keywords: LBM, monitoring program, information dissemination, end users</p>
H: 46 Oral	<p>Title: Baltic Algae Watch System: twelve years of service.</p> <p>Authors: Öberg J, Karlson B.</p> <p>Keywords: Phytoplankton, Harmful Algal Blooms, Satellite remote sensing, Cyanobacteria</p>
H: 47 Oral	<p>Title: "PHYCOTOX": from microalgae to the risks for human and ecosystem: a French working network on Harmful Algal Blooms.</p> <p>Authors: Hégaret H, Hess P, Amzil Z, Araoz R, Fessard V, Guillou L, Michel-Guillou E, Molgó J, Nicolas M.</p> <p>Keywords: French working network, toxins, ecosystem, socio-economic impacts</p>
CM Code	Posters
H: 06 Poster	<p>Title: Potentially toxic cyanobacteria in winter plankton of the Curonian Lagoon, Baltic Sea.</p> <p>Authors: Lange E.</p> <p>Keywords: Curonian Lagoon, winter phytoplankton, toxic cyanobacteria</p>
H: 07 Poster	<p>Title: Toxicity of coastal water in the Curonian Lagoon, Baltic Sea during autumn HAB, 2013.</p> <p>Authors: Ezhova E, Molchanova N, Polununa J.</p> <p>Keywords: Curonian Lagoon, Daphnia magna, microcystins, neurotoxins, paralysis</p>
H: 08 Poster	<p>Title: Bioaccessibility and changes on cylindrospermopsin concentration in edible mussels over storage and processing time.</p> <p>Authors: Freitas M, Azevedo J, Mendes V, Manadas B, Campos A, Paulo Carvalho A, Vasconcelos V</p> <p>Keywords: Bioaccessibility, cylindrospermopsin, food storage, food processing, in vitro human digestion.</p>
H: 15 Poster	<p>Title: A preliminary study of lipophilic toxins in Galician sediments.</p> <p>Authors: Martín-Morales E, Mariño C, Martín H, Blanco J.</p> <p>Keywords: lipophilic toxins, okadaic acid, 13 desmethyl SPX C, PTX-2, sediments, persistence, Galician coast.</p>
H: 16 Poster	<p>Title: Variability of toxin profile and content of <i>Ostreopsis cf. ovata</i> from the Mediterranean Sea.</p> <p>Authors: Tartaglione L, Dell'Aversano C, Dello Iacovo E, Ciminiello P, Casabianca S, Penna A.</p> <p>Keywords: <i>Ostreopsis</i>, ovatoxins, palytoxin, LC-HRMS</p>

CM Code	Posters
H: 17 Poster	<p>Title: AQUA-USERS: AQUAculture USEr driven operational Remote Sensing information services.</p> <p>Authors: Laanen M, Peters S, Poser K, de Reus N, Ghebrehiwot S, Hommersom A, Eleveld M, Miller P, Kurekin A, Groom S and 17 more.</p> <p>Keywords: Aquaculture; Water quality; Earth observation; in-situ data; User-driven</p>
H: 18 Poster	<p>Title: Improving the knowledge of sub-surface temperature, salinity and fluorescence variability patterns on the Southern Coast of Galicia.</p> <p>Authors: Tel E, Cabanas JM, Gonzalez-Nuevo G, Cabrero A.</p> <p>Keywords: thermosalinometer, variability, inlets, interpolating</p>
H: 19 Poster	<p>Title: Real Time Monitoring and Alert System to forecast Harmful Algal Blooms (HAB) based on Cyberinfrastructure Technologies.</p> <p>Authors: Monteoliva A, Criado A, López L, López A, Torres J, Fernández M, Guallar C.</p> <p>Keywords: Cyberinfrastructure, real time monitoring, early warning, HAB forecast</p>
H: 25 Poster	<p>Title: Conditions associated with unusual summer blooms of <i>Dinophysis acuta</i> in an upwelling area.</p> <p>Authors: Diaz P, Reguera B, Bravo I, Ruiz-Villarreal M, Fraga S</p> <p>Keywords: <i>Dinophysis acuta</i>, physical-biological interactions, upwelling, diarrhetic shellfish poisoning (DSP)</p>
H: 26 Poster	<p>Title: Dynamics of toxic HABs in the Curonian Lagoon, Baltic Sea during 2010-2013.</p> <p>Authors: Ezhova E, Lange E, Russkikh Y, Chernova E, Zhekovskaya Z</p> <p>Keywords: Curonian Lagoon, toxic HAB, cyanotoxins, <i>Microcystis viridis</i>, <i>Aphanisomemon flos-aqua</i></p>
H: 27 Poster	<p>Title: Effect of natural and anthropogenic factors on eutrophication and de-eutrophication and algal blooms in the estuaries of different types (by the example of Curonian and Vistula Lagoons and the Volga Delta).</p> <p>Authors: Julia Gorbunova, Sergey Aleksandrov</p> <p>Keywords: eutrophication, algal blooms, estuary, Volga delta, Curonian and Vistula Lagoons</p>
H: 39 Poster	<p>Title: Phenotypic and genetic correlations for several potentially interacting traits related to DSP toxin accumulation in the Mediterranean mussel (<i>Mytilus galloprovincialis</i>).</p> <p>Authors: Pino-Querido A., Alvarez-Castro J., Vera M., Pardo B. G., Toro M.A., Regueiro, J., Fuentes, J., Blanco, J. and Martinez P.</p> <p>Keywords: Diarrhetic shellfish poisoning toxins, okadaic acid, accumulation, depuration, heritability, growth, colour</p>
H: 40 Poster	<p>Title: The role of <i>Ruditapes philippinarum</i> glutathione transferases in the metabolism of microcystin-LR.</p> <p>Authors: Carneiro M, Reis B, Azevedo J, Vasconcelos V, Martins JC.</p> <p>Keywords: Microcystins; Glutathione transferases; Detoxification; Metabolism; <i>R. philippinarum</i></p>

CM Code	Posters
H: 41 Poster	<p>Title: Assessment of okadaic acid genotoxicity on cells of the mussel <i>Mytilus galloprovincialis</i>.</p> <p>Authors: Prego-Faraldo MV, Valdiglesias V, Hidalgo C, Laffon B, Eirín-López JM, Mendez J</p> <p>Keywords: okadaic acid; comet assay; genetic integrity; bivalve molluscs; mussels</p>
H: 42 Poster	<p>Title: Preliminary findings on gene expression study of STXa1 in <i>Alexandrium minutum</i>.</p> <p>Authors: Perini F., Galluzzi L., Dell'Aversano C, Dello Iacovo E, Tartaglione L, Ciminiello P, Penna A.</p> <p>Keywords: HAB, monitoring, <i>Alexandrium</i>, saxitoxin, sxtA, PSP, gene expression</p>
H: 43 Poster	<p>Title: Glutathione transferases proteomic responses in <i>Mytilus galloprovincialis</i> following exposure to toxic <i>Microcystis aeruginosa</i> cells, extracts and pure toxins.</p> <p>Authors: Caetano C, Carneiro M, Azevedo J, Campos A, Vasconcelos V, Martins JC.</p> <p>Keywords: Microcystins; Glutathione Transferases; Proteomics; <i>M. galloprovincialis</i></p>
H: 44 Poster	<p>Title: Transcriptional responses of glutathione transferase genes in <i>Ruditapes philippinarum</i> and <i>Mytilus galloprovincialis</i> exposed to microcystin-LR.</p> <p>Authors: Reis B, Carneiro M, Azevedo J, Vasconcelos V, Martins JC.</p> <p>Keywords: Microcystins; Glutathione Transferases; Gene expression; <i>R. philippinarum</i>; <i>M. galloprovincialis</i></p>