



9TH INTERNATIONAL CONFERENCE ON
MOLLUSCAN SHELLFISH SAFETY
 SYDNEY, AUSTRALIA
 17-22 MARCH 2013

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PROGRAM & SPEAKERS

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Important Dates



March 2012

Call for Abstracts Opens

Thursday 13 September 2012

Call for Abstracts Closes

Thursday 22 November 2012

Early Bird Registration Closes



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Program & Speakers

Conference Program

ICMSS 2013 - Draft Session Plan			
Twenty Years: Defining Future Shellfish Safety Frontiers through Innovation in Science and Policy			
	Session No.	Stream A	Stream B
Monday 18 March			
0900 - 1030	1	Opening	
1100 - 1230	2	Climate Change - Realities and Projections	Innovative Policies
1330 - 1500	3	Public Health Impact	Potential risks from shellfish other than bivalves
1530 - 1700	4	Round Table: Risk Management of Current & Emerging Marine Toxins	
17.15 - 18.15	4A	PhD Student Presentation Session 1 - Microbiology	PhD Student Presentation Session 2 - Marine Biotoxins, Chemical Contamination
Tuesday 19 March			
0900 - 1030	5	Innovative Technologies	
1100 - 1230	6	HAB Monitoring, Management & Mitigation	Emerging Risks from Cyanobacteria (I)
1330 - 1500	7	Advanced faecal source tracking techniques	Emerging Risks from Cyanobacteria (II)
1530 - 1700	8	Round Table: Standard Methods or 'Equivalence'?	

Wednesday 20 March			
0900 - 1030	9	Vibrios in the Environment	Biotoxin Uptake & Elimination Dynamics
1100 - 1230	10	Virus Uptake and Elimination Dynamics	Chemical Contaminants
1230 - 2000		Half Day Field Trip: Hawkesbury River	
Thursday 21 March			
0900 - 1030	11	Risk Assessment	
1100 - 1230	12	The Sanitary Survey Approach	
1330 - 1500	13	Round Table: Virus Risk Management Options	Industry Session: Adding Value to the Industry
1530 - 1700	14	Remediation of Impacted Production Areas	Industry Session: HAB Identification Workshop
1700 - 1730	15	Closing	
Friday 22 March			
All day		Shore Line Survey / Dye Testing Field Exercise	

To view session descriptions please [click here](#)

Invited Speakers



Dr. William Burkhardt

Dr. Burkhardt is the Chief of FDA's Microbial Hazards Science Branch located at Dauphin Island, AL and is a commissioned officer in the U.S. Public Health Service. He is responsible for coordinating and oversight to the majority of FDA's microbiological research investigating the occurrence and distribution of autochthonous (Vibrios) and anthropogenic (fecally derived) contaminants in molluscan shellfish. He has over 27 years of experience investigating microbial

contaminants in estuarine waters and its impact on the sanitary quality of shellfish harvested from them. These investigations have provided scientific support for FDA policies associated with molluscan shellfish harvest to improve food safety. He is the co-inventor of a quantitative real-time assay for NoV that is licensed by a major biotech company. Dr. Burkhardt serves as an agency subject matter expert for enteric viral pathogens in FDA regulated foods. Lastly, he has co-authored two FDA risk profiles (NoV and HAV) and serves as a technical expert to the joint US/Canadian NoV risk assessment for molluscan shellfish.

Ian Falconer

Presentation Title: Cyanobacterial toxin accumulation in shellfish, finfish and crustaceans, guidelines for consumer safety

Ian Falconer came into the field of cyanobacterial toxins as a result of blue-green algal contamination of a drinking water supply that he showed to be associated with liver damage in a town population. With frequent water blooms of toxic cyanobacteria in Australia he



explored the potential risk from eating shellfish, crustaceans and finfish obtained from contaminated waters, and published the first account of hepatotoxic *Nodularia* present in the gut of estuarine mussels.

His work has extended into the mechanisms of cyanobacterial toxicity and the risk assessment for these toxins in drinking water, recreational exposure and in food. His publications include 'Algal Toxins in Seafood and Drinking water' Ed., Academic Press 1993 and

'Cyanobacterial Toxins in Drinking Water Supplies' CRC Press 2005.



Dr Anamarija Frankić

Presentation Title: Water: Nature's Solutions and How Do We Fit In?

Dr. Anamarija Frankić is a director of the Green Boston Harbor (GBH), a faculty at UMass Boston, and an adjunct professor at the Institute of Fisheries and Oceanography, Split, Croatia. She is a Biomimicry Institute Fellow since 2010; and a member of advisory council at AASHE (Association for the Advancement of Sustainability in Higher Education). Her educational background in biology, ecology, limnology and marine science, guided her

interdisciplinary work in coastal and watershed ecosystem management and restoration, nationally and internationally. In 2008, Anamarija and her students established the Green Boston Harbor Project (GBH) to discover how urban harbors can become healthy, wealthy and sustainable, right here and now? She initiated and established 'living labs' as part of the applied science education where students and communities are able to 'learn and teach by doing' biomimicry, applying nature's solutions for sustainable future. Although it is a huge challenge to restore coastal ecosystems, she believes that we do have the knowledge, science and technology to live harmoniously within natural systems, by following her own premise that 'the environment sets the limits for sustainable development'. GBH is part of the Center for Governance and Sustainability www.umb.edu/cgs.



Dr Soizick Le Guyader

Presentation Title: Shellfish and Norovirus: What Do We Know?

In collaboration with her colleagues from the Microbiology laboratory at Ifremer, S. Le Guyader is working on human enteric virus detection in the coastal environment. Beside method development for viral detection and quantitation, the main research objectives are to understand how shellfish get contaminated, including

sewage depuration efficiency, field study analysis, and outbreak investigations. Dr Le Guyader's research projects mainly focus on norovirus, which is the main pathogen implicated in shellfish related outbreaks worldwide. Importantly, in recent years Dr Le Guyader's team has demonstrated that oysters are able to actively select some norovirus strains, via specific ligands detected in digestive tissues.

These findings explain the persistence of these viruses, depuration failure, and provide some intriguing insights into outbreak data.



Prof Anna Gago Martinez

Presentation Title: TBC

Prof Gago Martinez is responsible for the Research Group of Chromatographic and related techniques applied to the analysis of natural and antropogenic contaminants in food and environment at Anakytical Chemistry and Food Department of the University of Vigo, Spain. Prof Gago Martinez is also supervisor of 14 Ph.D projects and 15 Masters in research related with the method development for the control of natural and antropoghenic contaminants in the environment and food as well as in recent projects in the Proteomics field.



Paul McNabb

Presentation Title: LCMS! What is it good for...

Paul has 20 years of experience in most areas of analytical testing and a wide knowledge of many technical aspects of food production. He has a special interest in Natural Toxins, publishing over 50 scientific papers, books and reports. Paul is one of New Zealand's most experienced LC-MS users and has been instrumental in establishing Cawthron, New Zealand, as a world leading provider of testing services.



Dr Angelo DePaola

Presentation Title: Networking Vibrio Data for Assessing and Managing Risk

Dr. Angelo DePaola began his professional career with FDA in 1978 and has worked at the Gulf Coast Seafood Laboratory at Dauphin Island, Alabama, since 1979. He established a research program at Dauphin Island to investigate the ecology, growth, survival and methodology for *Vibrio* spp. associate with foodborne illnesses that has resulted in 95 peer reviewed articles, 130 abstracts and 6 book chapters. He has received numerous awards from FDA and AOAC for his scientific contributions including the 2001 CFSAN award for Excellence in Analytical Science. The methods he has developed have been adopted by the FDA (Bacteriological Analytical Manual), AOAC and APHA. He has led the Agency in development of nonisotopic DNA probes and real-time PCR assays for detection of foodborne pathogens. He is the co-inventor of a novel internal amplification control for PCR that has been licensed by a major biotech company. He is currently spearheading an effort to produce a panel of globally diverse vibrio strains that will be freely available to any qualified laboratory in the world that conducts research on vibrios.



Assoc Prof Anthony Richardson

Presentation Title: Marine Plankton and Climate Change

Associate Professor Anthony J. Richardson is recognised internationally for significant contributions in the fields of climate impacts on marine species, plankton dynamics and fish ecology. Anthony completed an Honours degree in Zoology from the University of

Queensland, and a PhD at the University of Cape Town in 1998. In 2002 he moved to the Sir Alister Hardy Foundation of Ocean Science in Plymouth (UK) working with continuous plankton recorders, and since 2005 he holds a joint appointment in Mathematics at the University of Queensland and as research scientist at CSIRO Marine and Atmospheric Research. The Richardson lab focuses on understanding the effects of environmental variability on marine systems as a window to predicting impacts of climate change. Recent work has shown that climate change is already impacting Australian coral reefs, plankton communities, kelp forests and fish assemblages. Anticipating future problems associated with marine climate change necessitates a range of approaches.



Joe Silke

Presentation Title: Bivalve Biotoxins Monitoring, an integrated approach

Joe Silke oversees the shellfish safety programmes within the Marine Environment and Food Safety Services of the Irish Marine Institute. This unit of the MI is responsible for monitoring phytoplankton, biotoxins and shellfish microbiology. His background is in the aquaculture industry where he worked in

oyster hatcheries and on-growing facilities, mussel farming and lobster production in Ireland through the 1980s.

Following this he moved into research activities including phytoplankton and oceanography, and has worked in the field of shellfish safety and harmful algal bloom research for the past 22 years.



Helen Smale

Presentation Title: Quality Programmes As A Commercial Opportunity

Helen joined the aquaculture industry in 1996 from a background in health science and dairy industry quality assurance. She heads the Marlborough Shellfish Quality Programme, the organisation that manages the water quality programmes on behalf of industry in collaboration with the regulatory authorities in the top of the South Island

of New Zealand. She also fulfils a number of national roles.

In addition to her water quality work Helen is a director and part time consultant at Forté Management business development consultancy. Forté specialises in innovation management with a particular emphasis on the conversion of innovations into successful

commercial outcomes.

A full program will be available in the near future.

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