Algal Research for Policy-Making and Biotech (SAMS, Oban 2018)

ALFF training course
ALFF conference
YAS2018
GlobalSeaweedSTAR
GENIALG

Venue	Monday May 14th Rooms 1 & 2	Tuesday May 15th Rooms 1 & 2	Wednesday May 16th William Speirs Bruce Room	Thursday May 17th William Speirs Bruce Room YAS2018	Thursday May 17th Rooms 1 & 2 GlobalSeaweedSTAR	Friday May 18th William Speirs Bruce Room YAS2018	Friday May 18th Rooms 1 & 2 GENIALG
MORNING ALFF course - BIOMONITORING	**Paul Tett -** From ecosystem approach to monitoring (09:00-09:45)	ALFF course - ALGAE BIOBANKING **Susan Blackburn -** ANACC: Managing a Biodiversity Collection for Research and Development in an Australian context (09:00-09:45)	**Keynote Shady Amin - Phytoplankton-bacteria interactions: the new frontier** (09:00-09:40)	**Cecilia Biancacci** - The seasonal variation in chemical composition of *O. pinnatifida* and the application of the Algem® labscale photobioreactor for cultivation (09:00-09:20)	**Elizabeth Cottier** - Welcome and introduction to GS* (09:00-09:15)	**Veronika Sommer** - Application of biological soil crust algae: Greening of potash spoil heaps (09:00-09:20)	**Scott Lindell** - New tools for selectively improving strains of sugar kelp (*Saccharina latissima*) for food and fuel (09:00-09:40)
	Rowena Stern - What can molecular methods bring to 60 years of CPR data? (09:45-10:30)	**Christine Campbell & David Green -** Presenting The Culture Collection of Algae and Protozoa (09:45-10:30)	**Emilio Cirri** - Sex, diatoms, and biofilms: how bacteria modulate reproduction success of the diatom *Seminavis robusta* (09:40-10:00) **Frederike Stock** - Chemical interaction on a microscale: discovering additional roles of quorum sensing molecules in diatom bacteria interactions (10:00-10:20) **Lachy Dow** - Novel Bacterial Signals Inducing Diatom Biofilm Formation (10:20-10:40) **Eli Bonneure** - Tweaking a diatom pheromone towards a chemical probe (10:40-11:00)	**Amit Kugler** - Role of membrane lipid fatty acid composition in response to environmental factors in the green microalga *Lobosphaera incisa* (09:20-09:40) **Andrea Budiša** - Microalgae Utilizing Wastewater as Promising Candidates for Biofuel Production (09:40-10:00) **Pieter Oostlander** - A close look at the cost of small scale industrial algae production for aquaculture (10:00-10:20)	T.B.C. (09:15-09:35) **Clara N. Payung** - DNA taxonomy of *Kappaphycus* and *Euchema* (Rhodophtya) and associated microbiomes in Indonesia (09:35-09:50) **Joseph Faisan** - Developing integrated techniques for application in disease and pest management in the Philippines seaweed industry (09:50-10:05) **Ivy Matoju -** Establishment of disease surveillance system to aid n the management and early detection of seaweed diseases (10:05-10:20)	**Alberto Niccolai** - Anticancer effect of microalgal and cyanobacterial extracts on colorectal cancer cells (09:20-09:40) **Joe K. Penhaul Smith** - Utilising microalgal mixotrophy to maximise larval nutrition (09:40-10:00) **Mykola Mylenko** - A comparison of selenoamino acid accumulation in Chlorella cultures grown in heterotrophic and phototrophic regimes (10:00-10:20)	**Mette Møller Nielsen** - Strain selection and breeding potentials in Danish kelp production (09:40-10:20)
	coffee break (10:30-10:45)	coffee break (10:30-10:45)	coffee break (11:00-11:30)	coffee break (10:20-11:00)		coffee break (10:20-11:00)	
	Paul Tett - The Plankton Index (10:45-11:30)	ALFF course - SCIENCE COMMUNICATION **Raeanne Miller -** Connecting science, policy and business: how to translate science? (10:45-11:30)	Registration ALFF conference **Keynote Nigel Grimsley - The Tara-Oceans expedition and host-virus interactions** (11:30-12:10)	**Sponsor Talks:** BPS and EABA (11:00-11:20)	**Iona Campbell** - A review of international and regional biosecurity frameworks for the seaweed industry in Indonesia, Philippines and Tanzania (11:00-11:20)	**Sponsor talk:** ISAP (11:00-11:20)	**Hartvig Christie** - Kelp industrial production: Potential impacts on coastal ecosystems (11:00-11:20)
	Mikhail Zubkov - Extreme spatial variability in marine picoplankton: consequences for interpretation of Eulerian time series (11:30-12:15)	**Rebecca Giesler -** Research in Westminster – how science feeds into policy in the UK parliament (11:30-12:15)	**Andrea Garvetto** - Single cell approaches to investigate microeukaryotic ecology and diversity: a case study involving parasitic oomycetes and chytrids (12:10-12:30) **Catherine Leblanc** - Diversity patterns of the microbiota associated to *Laminaria digitata* , a kelp with an iodine defense metabolism (12:30-12:50) **Noreen Hiegle** - You can't get me: developing *Haematococcus* strains resistant to *Paraphysoderma* infection (12:50-13:10)	**Joakim Olsson** - Composition of *Ulva intestinalis* from 8 different sites along the Swedish coast (11:20-11:40) **Mikael Jämsä** - Biofuel production from phototrophic cells immobilized into nanocellulose (11:40-12:00)	**Cicilia Kambey** - A Preliminary analysis on Risk Assessment and Biosecurity Framework for Seaweed Aquaculture in Indonesia (11:20-11:35) **Sadock B. Rusekwa** - A Risk Assessment and Biosecurity Policy/legislation review of Seaweed Aquaculture in Tanzania (11:35-11:50) **Jonalyn P. Mateo** - A Preliminary Assessment on Biosecurity Policies and Legislations for Seaweed Aquaculture in the Philippines (11:50-12:00)	**Alex Olivares-Molina** - Building a cascading biorefinery process for *A. nodosum* : a green chemistry approach (11:20-11:40) **Charlotte Nef** - Characterisation of *Tisochrysis lutea* metabolic response under B12 limitation (11:40-12:00) **Marta Sá** - *Dunaliella salina* biorefinery monitoring: from green to orange (12:00-12:20)	**Philippe Potin** - GENetic diversity exploitation for Innovative macro-ALGal biorefinery = GENIALG (11:20-11:40) **Zofia Nehr** - Towards the development of improved cultivars of *Saccharina latissima* for large-scale cultivation (11:40-12:00) **Isabel Azavedo** - *Saccharina latissima* and *Ulva* sp strain collection for genetic characterisation and biobanking (12:00-12:20)
	Jan Krokowski - Use of algal biodiversity for the assessment of ecological status: a freshwater perspective (12:15-13:00)	**David Guthrie -** The Business of Science – how scientific research is ever more relevant to industry (12:15-13:00)	Registration YAS/GS*/GENIALG **Kathryn Morrissey** - Disentangling drivers of bacterial diversity within the algal holobiont (13:10-13:30)	**Yi Mei Ng** - Characterization of Red Sea Cyanobacterium for Cell Factory Application in Saudi Arabia (12:00-12:20)	**Janina Brakel** - A new red algal patho-system as model to investigate heredity of resistance traits (12:00-12:20)	**Jornt Spit** - Sustainable growth of *Nannochloropsis gaditana* through medium recycling and CO2 capture (12:20-12:40)	**Antoine Fort** - Unraveling The Genetic Factors Controlling Growth In The Sea Lettuce *Ulva* Spp (12:20-11:40)
	lunch (13:00-14:00)	lunch (13:00-14:00)	lunch (13:30-14:30)	lunch (12:20-13:30)		lunch (12:40-14:00)	
AFTERNOON ALFF course - SCIENCE INFORMED POLICIES	**Katie Beckett -** Nagoya protocol: bio-resource access and benefit sharing (14:00-14:45)	Venue: William Speirs Bruce Room **Keynote Richard Dorrell - Mosaicism and convergence in algal plastid evolution: tales from dinoflagellates, cryptomonads, stramenopiles and haptophytes** (14:00-14:40)	**Welcome to YAS!** (14:30-14:40)	**Algal Gaps** (13:30-15:30)	**Rema C. Sibonga** - An overview on cultivation, taxonomy and diversity of *Kappaphycus* and *Eucheuma* in the Philippines (13:30-13:45) **Gloria Yona** - Taxonomy, genetic diversity and stock recruitment of *Kappaphycus* and *Eucheuma* in Western Indian Ocean (WIO) region (13:45-14:00) **Josephine Tsui -** Enhancing Resilience of Seaweed Farmers (14:00-14:20) **Jee Grace Suyo** - From Farm to Table: A review of the Philippine seaweed value chain and governance (14:20-14:35) **Ely John Karimela** - Value Chain Analysis and supported Policy and regulation for Seaweed farmer in Indonesia (14:35-14:50) **Closed session: Internal GS* discussion** Field sampling (15:00-15:30)	**Conclusions Algal Gaps** (14:00-15:30)	**Alexander Thomson** - Population diversity, structure, and ecological adaptation in the sugar kelp *Saccharina latissima* (14:00-14:20) **Philip Kerrison** - Macroalgal hatchery developments : kelps, Dulse and Nori (14:20-14:40) **Adrian McLeod** - Developing the seaweed farms of our future: automation, design and environmental considerations (14:40-15:00) **José Maria Fariñas Franco** - Determining and quantifying the ecological footprint and environmental benefits from seaweed cultivation: a methodological approach to help best practice (15:00-15:20) **Marie-Mathilde Perrineau** - Gene flow assessment and disease monitoring between farms and wild populations of *Saccharina latissima* (15:20-15:40)
	Eileen Bresnan - Plankton monitoring and the development of the EU Marine Strategy Framework Directive & Water Framework Directive (14:45-15:30)	**Tatiana Yurchenko** - A gene transfer event suggests a long-term partnership between eustigmatophyte algae and a novel lineage of endosymbiotic bacteria (14:40-15:00) **Shu Min Kao** - The sea lettuce *Ulva* genome provides insights into evolution of the green lineage (15:00-15:20) **Frederik De Boever** - Is *Marinobacter* a hydrocarbonoclastic genus with roots in the phycosphere? A comparative genomic approach (15:20-15:40) **Peter Kroth** - Seeing the light with different eyes: photoreceptors in diatoms (15:40-16:00)	**Javier Giraldo** - Towards biological control during industrial microalgae cultivation in closed photobioreactors (14:40-15:00) **Kathryn Morrissey** - Diving deeper into the algal holobiont: exploring the effects of environmental changes on bacterial diversity (15:00-15:20) **Frederik De Boever** - The road to sustainable algal mass-cultivation through microbiome engineering: exploring *Nannochloropsis* -bacteria interactions in bioreactor systems (15:20-15:40)				
	coffee break (15:30 - 16:00)	coffee break (16:00-16:30)	coffee break (15:40-16:00)	coffee break (15:30-16:00)		coffee break (15:30-16:00)	
ALFF - Supervisory Board Meeting	**Boats to seaweed farm & Supervisory Board Meeting** (16:00 - 19:00)	Venue: William Speirs Bruce Room **Keynote Sigrid Neuhauser - Biotrophic interactions untangled: In-situ localization of mRNAs is a powerful tool to study pathogen – host interactions at the single cell level** (16:30-17:10) **Gwan Hoon Kim** - Infection of *Olpidiopsis heterosiphonieae* induces salinity tolerance in a red alga *Heterosiphonia japonica* (17:10-17:30) **Srilakshmy L. P. Harikrishnan** - Conserved and specific mechanisms underlying defense and resistance of brown algae to oomycete infection (17:30-17:50) **Gianmaria Califano** - Morphogen-induced changes in the transcriptome and metabolome of the green macroalga *Ulva mutabilis* (17:50-18:10) **Pedro Murúa Andrade** - Untangling the defence machinery in brown algae: potential roles of autophagy with oomycete pathogenic interactions (18:10-18:30)	**Lukas Trebuch** - Assembly of a self-sedimenting algal-bacterial community for municipal wastewater treatment (16:00 - 16:20) **Noreen Hiegle** - You can't get me: developing *Haematococcus* strains resistant to *Paraphysoderma* infection (16:20-16:40) **Poster session** (Purple room, 16:40-17:45) **Algal Speed Dating** (17:45-19:00)	**FLASH TALKS** **Miriam Bernard** - Deciphering kelp-endophyte interactions (16:00-16:10); **Nicoline Korsvold** - Variation of Iodine Content in Processed Cultivated *Saccharina latissima* (16:10-16:20); **Hetty Kleinlan** - Elucidating the role of the *Ectocarpus* microbiome during environmental stress – a multi-omics approach (16:20-16:30); **Michael E. Ross** - Putting the 'bio' into biosorption: heavy metal removal from aqueous solutions by dried *Cladophora parriaudii* (16:30-16:40); **José Antonio Magdalena** - Volatile fatty acids production from microalgae biomass via semi-continuous anaerobic digestion (16:40-16:50); **Shneel Malik** - 3D Printing aglae - laden membranes for phycoremediation of heavy metals (16:50-17:00); **Caia Margaux** - Assembling microalgae and N2-fixing cyanobacteria to reduce inorganic nitrogen supply (17:00-17:10); **Manon Gachelin** - Evolution of the polar lipid profile along nitrogen starvation in a marine Haptophyte (17:10-17:20); **Bruno Rizzi** - Combining microalgae and electroactive microbial communities for nutrients recovery from wastewater: an approach for scale-up (17:20-17:30); **Noah Bruderer** - Histological, molecular and physiological investigation of a novel gall-forming green algal pathogen (17:30-17:40); **Antoinette Kazbar** - Optimisation of microalgal growth in photobioreactors: impact of dissolved oxygen concentration and design dark fraction (17:40-17:50); **Victor Sanchez Tarre** - On the effects of monochromatic illumination on the metabolic state of *C. reinhardtii* (17:50-18:00)	**Closed session: Internal GS* discussion** Data management, Sample management and Disease atlas (16:00-17:30)	**Awards and closing remarks** (16:00-17:30)	**Closed session: Internal GENIALG discussion** (16:00-17:30)
	Beach BBQ (19:00-23:00) bus to Oban (23:00)	bus to Oban (18:45)	bus to Oban (19:15)	bus to Oban (18:15) Social dinner & Ceilidh (from 19:00)		bus to Oban (18:00)	