

Sunday, 23 August 2015

13.00–21.00	Registration	Lobby
19.00–21.00	Welcome Reception	Foyer

Monday, 24 August 2015

8.00–12.00	Registration	Lobby
8.25–8.30	General announcements	
8.30–9.00	Opening Ceremony	Main Hall

Co-Presenters: Jane Lewis, Elliot Shubert,
Olivier De Clerck, Peter Kroth,
Christine Maggs & Christos Katsaros

9.00–10.00	Plenary Lecture	Main Hall
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John Archibald

One plus one equals one: symbiosis and the evolution of complex life

10.00–10.30	Coffee/Tea Break
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10.30–12.30	Symposia 1, 2 and 3
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Symposium 1:		Room 1
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Algal diversity and species delimitation: new tools, new insights
Co-Convenors: Frederik Leliaert and David G Mann

10.30–11.00	Christophe Destombe – How complementary barcoding and population genetics analyses can help solve taxonomic questions at short phylogenetic distances the example of the brown alga <i>Pylaiella littoralis</i> (1KN.1)
11.00–11.30	Pavel Škaloud – Generating the diversity - uncovering the speciation mechanisms in freshwater and terrestrial microalgae (1KN.2)
11.30–12.00	Sebastien Colin – High-Content Fluorescence Microscopy applied to marine protists ecology (1KN.3)

- 30 12.00–12.15 Maria Kahlert – Gaps to fill when analyzing freshwater diatom diversity with DNA barcoding – notes from a boreal region (1OR.1)
 12.15–12.30 Gareth A. Pearson – Gender studies in seaweeds - expression and evolutionary rates of sex-biased genes in fucoid brown algae (1OR.2)

Symposium 2: Room 2

Shedding new light on photosynthesis and its role in global biogeochemistry
 Co-Convenors: Elly Spijkerman and John Raven

- 10.30–11.00 Susanne Wilken – Mixotrophs in aquatic ecosystems: Primary producers or consumers? (2KN.1)
 11.00–11.30 Brigitte Gontero – Biodiversity of GAPDH regulation in microalgae (2KN.2)
 11.30–12.00 Timo Mühlhaus – Systems-Wide Analysis of Acclimation Responses to Long-Term Heat Stress and Recovery in the Photosynthetic Model Organism *Chlamydomonas reinhardtii* (2KN.3)
 12.00–12.15 Kevin Oxborough – Using Fast Repetition Rate fluorometry to estimate PSII electron flux per unit volume: A purely optical method for estimating GPP by phytoplankton? (2OR.1)
 12.15–12.30 Jacco C Kromkamp – High resolution FRRF measurements to measure net and gross primary production (2OR.2)

Symposium 3: Room 3

Algal Lipids not just for burning
 Co-Convenors: Michele Stanley and Philippe Soudant

- 10.30–11.00 **Mary Hamilton** – Metabolic engineering of diatoms for the enhanced production of high value lipids (3KN.1)
 11.00–11.30 Rene Wijffels – Industrial potential of microalgae for applications in food, feed and specialty chemicals (3KN.2)
 11.30–11.45 Matthias Schmid – Plasticity of fatty acid profiles and contents in seaweeds (3OR.1) 11.45–12.00 Philippe Soudant – Lipid composition modifications of the marine diatom *Pseudo-nitzschia delicatissima* under copper starvation (3OR.2)
 12.00–12.15 Maria Huete-Ortega – Linkage between photosynthesis and nitrogen metabolism on the accumulation of lipids in microalgae (3OR.3)
 12.15–12.30 Anastasiia Kryvenda – The European PUFAChain project (FP7) - a value chain from algal biomass to lipid-based products (3OR.4)

12.30–13.30 Lunch Chablis Suite

13.30–14.30 Poster Session (1PO.1-20, 2PO.1-3, 3PO.1-14, 4PO.1-9, 9PO.1-20) Chablis Suite

Symposium 4: Room 1

Algae-microbiome interactions: integrative overview from biology to chemistry
 Co-Convenors: Soizic Prado and Télésphore Sime-Ngando

- 14.30–15.00 Laure Guillou – Are biological controls of harmful algal blooms stable over time? (4KN.1)
 15.00–15.30 Simon Dittami – Microbiomes impact algal acclimation: the example of a freshwater strain of *Ectocarpus* (4KN.2)
 15.30–15.45 Aschwin Engelen – The microbiome of a seaweed invader across its introduced European range. (4OR.1)
 15.45–16.00 Shinya Sato – An implication of bacteria-diatom interaction at the onset of sexual reproduction in diatoms (4OR.2)

Symposium 5: Room 2

Phylogenomics: new approaches to solving old problems in algal evolution
 Co-Convenors: Anna Karnkowska and John Archibald

- 14.30–15.00 John Stiller – Untangling the web of eukaryotic photosynthetic evolution (5KN.1)

- 15.00–15.30 Miroslav Oborník – Interrupted respiratory chain in the mitochondrion of *Chromera velia* (5KN.2)
 15.30–15.45 Marek Eliáš – A comparative analysis of mitochondrial genomes in eustigmatophyte algae (5OR.1)
 15.45–16.00 John Archer – Whole genome phylogenomic analysis provides deeper insight into the origins and divergence of the cyanobacteria (5OR.2)

Symposium 6:

Room 3

Symbiodinium as model organism

Co-Convenors: David Suggett and Mark Warner

- 14.30–15.00 Christian Voolstra – Using *Symbiodinium* genomics to inform coral algae symbioses (6KN.1)
 15.00–15.30 Todd C LaJeunesse – Genetics-based systematics and taxonomy thrusts *Symbiodinium* (dinoflagellate) research into the 21st century. (6KN.2)
 15.30–15.45 Cheong Xin Chan – Genome analysis of two *Symbiodinium* isolates (6OR.1)
 15.45–16.00 Benjamin CC Hume – *Symbiodinium thermophilum* sp. nov., a thermotolerant symbiotic alga prevalent in corals of the world's hottest sea, the Persian/Arabian Gulf (6OR.2)
 16.00–16.30 Coffee/Tea Break

Symposium 4 (continued):

Room 1

Algae-microbiome interactions: integrative overview from biology to chemistry

Co-Convenors: Soizic Prado and Télesphore Sime-Ngando

- 16.30–16.45 Sergio Leiva – Phylogenetic diversity of epibiotic gram-positive bacteria isolated from Antarctic macroalgae (4OR.3)
 16.45–17.00 Susan Blackburn – Australian National Algae Culture Collection – Unique biodiversity informing ecosystem knowledge and bioresources (4OR.4)
 17.00–17.15 Tania Aires – Differentiation in bacterial communities associated to the red seaweed genus *Asparagopsis* in the western Atlantic and their potential drivers (4OR.5) 17.15–
 17.30 Warren Scott – Light and dissolved organic carbon drive interactions within river microphytobenthic communities (4OR.6)
 17.30–17.45 Télesphore Sime-Ngando – Effects of fungal parasitism on freshwater cyanobacterial blooms (4OR.7)
 17.45–18.00 Declan Schroeder – Phaeoviruses extend their host range to the kelps (4OR.8)

Symposium 5 (continued):

Room 2

Phylogenomics: new approaches to solving old problems in algal evolution

Co-Convenors: Anna Karnkowska and John Archibald

- 16.30–17.00 Anna Karnkowska – Evolution of plastid-targeted proteins in the secondary plastid-containing mixotrophic euglenid - *Rapaza viridis* (5KN.3)
 17.00–17.15 Glen L. Wheeler – Evolution of alternative pathways for vitamin C synthesis following plastid acquisition (5OR.3)
 17.15–17.30 Nicolas Blouin – *Gracilariopsis andersonii* genome encodes several clues to maintaining a permissive parasite environment (5OR.4)
 17.30–17.45 Stanislas Thiriet-Rupert – Genome-wide prediction and comparative analysis of transcription factors in microalgae (5OR.5)
 17.45–18.00 Kasia Piwosz – Who was the last aplastidic cryptophyte? (5OR.6)

Symposium 6 (continued):

Room 3

Symbiodinium as model organism

Co-Convenors: David Suggett and Mark Warner

- 16.30–16.45 Lisa Fujise – Turning up the heat on *Symbiodinium* cell cycle analysis (6OR.3)
 16.45–17.00 Mark E. Warner – Establishing a functional basis to unravel *Symbiodinium* diversity (6PO.2)
 17.00–17.15 David M. Baker – The biogeochemistry of *Symbiodinium* function and competition (6OR.5)

17.15–17.30	Joerg Wiedenmann – Local adaptation of <i>Symbiodinium thermophilum</i> -associated corals to the extreme environment of the Persian/Arabian Gulf (6OR.6)	
17.30–17.45	Eslam Osman – Physiological response of <i>Symbiodinium</i> populations adapted to different thermal regimes in the Red Sea (6OR.7)	
17.45–18.00	Joerg C. Frommlet – <i>Symbiodinium</i> - The first dinoflagellate known to drive microbial-algal calcification (6KN.3)	
18:30–19:30	BPS Presidential Address – Christine Maggs	Main Hall
19:30–21:00	BPS Annual General Meeting	Main Hall

Tuesday, 25 August 2015

8.55–9.00	General announcements	
9.00–10.00	Plenary Lecture	Main Hall

Ellen Van Donk

Chemical information transfer in plankton communities

10.00–10.30	Coffee/Tea Break
10.30–12.30	Symposia 7, 8 and 9

Symposium 7:	Room 1
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Molecular Cell Biology

Co-Convenors: Maria Mittag and Marek Eliáš

10.30–11.00	Tilman Kottke – Unexpected Diversity of Cryptochrome Photoreceptors from Algae (7KN.1)
11.00–11.30	George Witman – The <i>Chlamydomonas</i> flagellum as a model for human disease (7KN.2)
11.30–12.00	Kateřina Biřova – Green algae dividing by multiple fission – potent tool (not only) for cell cycle studies (7KN.3)
12.00–12.15	Arash Kianianmomeni – Cell-type specific photoreceptors and associated light-signaling pathways in the multicellular alga <i>Volvox carteri</i> (7OR.1)
12.15–12.30	Angela Falciatore – The circadian clock in the diatom <i>Phaeodactylum tricorutum</i> (7OR.2)

Symposium 8:	Room 2
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Algal biodiversity and ecosystem function: new scenarios in coastal systems

Co-Convenors: Lars Gamfeldt and Fabio Rindi

10.30–11.00	Lars Gamfeldt – The consequences of changes in algal biodiversity (8KN.1)
11.00–11.30	Rosa M Viejo – Structure and dynamics of the southern range limit of a canopy-forming alga and the consequences for the coastal ecosystem functioning (8KN.2)
11.30–11.45	Kristian Spilling – Changes in phytoplankton community composition affect biogeochemical fluxes; an indirect effect of global change (8OR.1)
11.45–12.00	Nurul Redzuan – Influence of sediment biofilm “phase of growth” on high microphytobenthos (MPB) variability on an intertidal flat (8OR.2)
12.00–12.15	Jana Wegbrod – Influence of interspecific competition on photosynthetic rates of algal communities (8OR.3)
12.15–12.30	David J Garbary – What is the real impact of <i>Ascophyllum</i> harvesting on biomass removal? (8PO.5)

Symposium 9:	Room 3
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Algae in stressful environments in coastal systems

Co-Convenors: Angela Wulff and Richard J Geider

10.30–11.00	Thomas Mock – Extensive genetic diversity and differential bi-allelic expression in a Southern Ocean diatom (9KN.1)
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- 11.00–11.30 Eva Leu – From eternal dark to high light stress: Microalgae in the high Arctic and the challenge of different extremes (9KN.2)
- 11.30–11.45 Anique Stecher – Biodiversity assessment and transcriptomic analyzes of eukaryotic sea ice diatoms of the central Arctic Ocean (9OR.1)
- 11.45–12.00 Graham JC Underwood – Adaptation of diatom extracellular polymeric substance (EPS) production in response to temperature and salinity stress in sea ice environments (9OR.2)
- 12.00–12.15 Martina Pichrtová – Vegetative survival and stress tolerance of *Zygnema* spp. (Zygnematophyceae, Streptophyta) in polar regions (9OR.3)
- 12.15–12.30 Thomas Leya – Snow algae all over Svalbard? - An(other) attempt to explain their distribution patterns (9OR.4)

12.30–13.30 Lunch Chablis suite

13.30–16.00 Continued Symposia 1, 2, 7, 8 and Manton Symposium Room 1

Irène Manton Student Prize Competition (BPS)
Chair: Juliet Brodie

- 13.30–13.45 Marine Vallet – Biodiversity, secondary metabolome and ecological role of fungal endophytes associated with the brown algae *Laminaria digitata*, *Ascophyllum nodosum*, *Saccharina latissima* and *Pelvetia canaliculata* (Manton.1)
- 13.45–14.00 Kenny Bogaert – Two-phased cell polarisation in the brown alga Dictyota (Manton.2)
- 14.00–14.15 Leanne A. Melbourne – The importance of revealing cryptic diversity in relation to assessing the structural integrity of the maerl bed habitat (Manton.3)
- 14.15–14.30 David Russo – Multidisciplinary analysis of a freshwater lake microbial community under differing nutrient regimes (Manton.4)
- 14.30–14.45 Laura Vitale – Mating type related genes in *Pseudo-nitzschia multistriata* (Manton.5)
- 14.45–15.00 Sohail K Pinto – Diversity and phylogeny of the dinoflagellate genus *Testudodinium* (Dinophyceae) (Manton.6)
- 15.00–15.15 Raquel Sánchez de Pedro – Nutrient and light responses in two estuarine rhodophytes: implications for their zonation (Manton.7)
- 15.15–15.30 Francesco Paolo Mancuso – Bacterial diversity changes to simulated local and global stressors on the canopy-forming alga *Cystoseira compressa* (Manton.8)
- 15.30–15.45 Julie AZ Zedler – Investigating the feasibility of high value compound production in microalgae (Manton.9)
- 15.45–16.00 Manoj Kamalanathan – Use of heterotrophy and mixotrophy for algal biomass production (Manton.10)

Symposium 7 (continued) Room 2

Molecular Cell Biology
Co-Convenors: Maria Mittag and Marek Eliáš

- 13.30–13.45 Andreas Holzinger – Desiccation tolerance in streptophytic green algae: New insights from transcriptomics and Fatty Acid Methyl Ester (FAME) analysis (7OR.3)
- 13.45–14.00 Charlotte Walker – The structure and function of coccolith associated polysaccharides: implications for their role in calcification (7OR.4)
- 14.00–14.15 Lili Chu – Characterisation of Nucleotide Transporter Proteins in complex plastids (7OR.5)
- 14.15–14.30 Anna Vanclova – Investigating signal domains and translocases involved in protein import into euglenid plastid (7OR.6)
- 14.30–14.45 **Katerina Woodard - Shape dynamics of diatom frustules during the life cycle (7PO.1)**
- 14.45–15.00 Marie JJ Huysman – Molecular regulation of the diatom cell cycle (7OR.8)
- 15.00–15.15 Hiroyuki Sekimoto – A receptor-like kinase, related with cell wall sensor of higher plants, is required for sexual reproduction in the unicellular charophycean alga, *Closterium peracerosum-strigosum-littorale* complex (7OR.9)
- 15.15–15.30 Susana M Coelho – Unusual features of the pseudoautosomal region of a U/V pair of sex chromosomes (7OR.10)

- 15.30–15.45 Adva Shemi – Conservation of the autophagy pathway in phytoplankton and its role during phosphorous stress (7OR.11)
- 15.45–16.00 Yong Zou – The role of an animal-like cryptochrome in the life cycle of the unicellular green alga *Chlamydomonas reinhardtii* (7OR.12)
- Symposium 2 (continued) Room 3
- Shedding new light on photosynthesis and its role in global biogeochemistry
Co-Convenors: Elly Spijkerman and John Raven
- 13.30–13.45 David J Hughes – Nitrogen availability drives variability of the electron requirement for carbon fixation in coastal phytoplankton communities (2OR.3)
- 13.45–14.00 M Rosario Lorenzo – Effects of increased CO₂ and iron availability on the mechanisms of carbon assimilation and calcification during a bloom of the coccolithophore *Emiliana huxleyi* (2OR.4)
- 14.00–14.15 Samuel R Scoma – The Role of Carbon Concentrating Mechanisms in Macroalgal Responses to Ocean Acidification (2OR.5)
- 14.15–14.30 Janet E Kübler – Limits to the Positive Effect of Ocean Acidification on Macroalgal Production (2OR.6)
- Symposium 8 (continued) Room 3
- Algal biodiversity and ecosystem function: new scenarios in coastal systems
Co-Convenors: Lars Gamfeldt and Fabio Rindi
- 14.30–14.45 Stacy A Krueger-Hadfield – Unconscious uncoupling: life cycle plasticity facilitates macroalgal invasions (8OR.5)
- 14.45–15.00 James Murphy – Modelling the population dynamics of invasive *Undaria pinnatifida* using an individual-based approach. (8OR.6)
- 15.00–15.15 Udo Nitschke – The integral role of Phaeophyceae to drive coastal iodine fluxes: case studies from Ireland (8OR.7)
- 15.15–15.30 Dagmar B Stengel – Bridging the gap between algal ecology and biotechnology – more than just learning a new language (8OR.8)
- Symposium 1 (continued) Room 3
- Algal diversity and species delimitation: new tools, new insights
Co-Convenors: Frederik Leliaert and David G Mann
- 15.30–15.45 João Neiva – Phylogenetic and biogeographical patterns of allopolyploid speciation in an intertidal furoid seaweed assemblage (1OR.3)
- 15.45–16.00 Sabrina Le Cam – Elucidating unresolved invasion history with genome-wide sequencing approach: the case of the global invader *Sargassum muticum* (1OR.4)
- 16.00–16.30 Coffee/Tea Break
- 16.30–18.15 Continued Symposia 1, 3, 4, 6 Rooms 1-3
- Symposium 3 (continued) Room 1
- Algal Lipids not just for burning
Co-Convenors: Michele Stanley and Philippe Soudant
- 16.30–16.45 Judith Rumin – Lipid accumulation in *Phaeodactylum tricornerutum* obtained by a mutation-selection procedure (3OR.5)
- 16.45–17.00 Michael J Cohrs – Characterization of Lipids in Algae Utilizing an imaging flow cytometer (FlowCAM) (3OR.6)
- 17.00–17.15 Michele Stanley – Unlocking nature's treasure-chest: screening for oleaginous algae (3OR.7)

- 17.15–17.30 Xiaolin Chen – Ionic liquid assisted subcritical water promotes the extraction of lipids from wet microalgae *Scenedesmus* sp. (3OR.8)
- 17.30–17.45 Amir Neori – Algae are the centerpiece of world aquaculture, feeding fish and cleaning water (3OR.9)
- 17.45–18.00 Dominik J Patzelt – Microalgae as a renewable raw material cultivated in an urban area (3OR.10)
- Symposium 4 (continued) Room 2
- Algae-microbiome interactions: integrative overview from biology to chemistry
Co-Convenors: Soizic Prado and Télésphore Sime-Ngando
- 16.30–16.45 Daniella Schatz – Life cycle strategies of a large virus that infects the bloom forming *Emiliania huxleyi* (4OR.9)
- 16.45–17.00 Martina Strittmatter – Disease resistance in brown algae: mechanisms and heritability (4OR.10)
- Symposium 6 (continued) Room 2
- Symbiodinium* as model organism
Co-Convenors: David Suggett and Mark Warner
- 17.00–17.15 Brian M Hopkinson – Inorganic carbon scarcity and limitation of *Symbiodinium* in hospite: environmental limitation or host control (6KN.4)
- 17.15–17.30 Thomas Krüger – NanoSIMS isotopic imaging - Deciphering the nature of coral-symbiont metabolic interactions (6OR.8)
- 17.30–17.45 Pierre Cardol – Critical role of oxygen photoreduction downstream of PSI in *Symbiodinium*: photoprotection, energetic adjustment and ROS production (6OR.9)
- 17.45–18.00 Tom D Hawkins – Metabolic responses to chronic nutrient stress differ between *Symbiodinium* phylotypes (6OR.10)
- Symposium 1 (continued) Room 3
- Algal diversity and species delimitation: new tools, new insights
Co-Convenors: Frederik Leliaert and David G Mann
- 16.30–16.45 Viviana Peña – Evolutionary origin of coralline red algae (Corallinophycidae, Rhodophyta) inferred from multilocus time-calibrated phylogeny (1OR.5)
- 16.45–17.00 Claire Gachon – The pathogens of brown algae *Anisolpidium ectocarpii* and *Anisolpidium rosenvingei* define a new class of marine anteriorly uniciliate oomycetes (1OR.6)
- 17.00–17.15 Rosa Trobajo – A molecular approach to *Nitzschia*: establishing a framework for classifying a highly diverse and taxonomically difficult diatom group (1OR.7)
- 17.15–17.30 Marc Krasovec – The origin of diversity in green algae (1OR.8)
- 17.30–17.45 John Bolton – Chemistry meets biosystematics: parallel studies on the diversity of the *Laurencia* complex (Rhodomelaceae, Rhodophyta) in South Africa (1OR.9)
- 17.45–18.00 Showe-Mei Lin – Species diversity and molecular phylogeny of the crustose coralline algae (Corallinales, Rhodophyta) from the warm water western Pacific Ocean with an emphasis on species from Taiwan (1OR.10)
- 18.00–18.15 Jazmin J Hernandez-Kantun – *Lithophyllum congestum* (Corallinales, Rhodophyta) what are you and what aren't you? Receiving some inner signals from DNA and morpho-anatomy to clarify our understanding on the species (1O.11)
- 18.00–19.00 Poster Session (1PO.21-35, 5PO.1-5, 6PO. 1-3, 7PO.1-8, 8PO.1-12, 9PO.21-40)
- 19:45–21:00 Public Lecture Main Hall

Jason Hall-Spencer

How will marine life cope with ocean acidification?

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Wednesday, 26 August 2015

09.00 Workshops/Individual programs/Midcongress excursions

Thursday, 27 August 2015

8.55–9.00 General announcements

9.00–10.00 Plenary Lecture

Main Hall

Maria Mittag

Light sensing and the circadian clock in a flagellate green alga

10.00–10.30 Coffee/Tea Break

10.30–12.30 Symposia 10, 11 and 12

Symposium 10:

Room 1

Global change and algal assemblages: the fate of our seas

Co-Convenors: Gwenael Piganeau, Nessa O'Connor and Laura Airoldi

10.30–11.00 Laura Airoldi – Vanishing forests of canopy algae: a global problem with local solutions? (10KN.1)

11.00–11.30 Lutz Beck – Eco-evolutionary dynamics in plankton communities (10KN.2)

11.30–11.45 Line Le Gall – Investigating temporal changes in seaweed communities of Brittany (10OR.1)

11.45–12.00 Chris J. Williamson – NE Atlantic *Corallina* (Rhodophyta) in a high CO₂ world (10OR.2)

12.00–12.15 Michael J Roleda – The weakest link: are the microscopic stages of seaweeds most susceptible to climate change? (10OR.3)

12.15–12.30 Sheree Yau – Insights from *Ostreococcus* into coping in a sea of viruses and competitors (10OR.4)

Symposium 11:

Room 2

Genetic engineering in algae: novel molecular tools and novel model species

Co-Convenors: Angela Falciatore, Marie Huysman and Jean-Paul Cadoret

10.30–11.00 Peter G Kroth – Diatoms as model system for algae with secondary plastids (11KN.1) 11.00–
11.30 J Mark Cock – Development of forward genetic and genomic approaches to identify key regulatory genes in the brown algae (11KN.2)

11.30–12.00 Saul Purton – Algal chloroplast engineering: new tools, technologies and applications. (11KN.3)

12.00–12.15 Alastair W Skeffington – The Development of Genetic Tools for coccolithophores (11OR.1)

12.15–12.30 Tomas Morosinotto – Biotechnological optimization of light use efficiency in *Nannochloropsis* cultures (11OR.2)

Symposium 12

Room 3

Ecology, physiology and taxonomy of freshwater phytoplankton

Co-Convenors: Judita Koreiviene and Ellen van Donk

10.30–11.00 Karin Rengefors – Physical and biological dispersal barriers in bloom-forming microalgae (12KN.1)

11.00–11.30 Dedmer B Van de Waal – Blue-greens off balance? (12KN.2)

11.30–11.45 Thomas Lines – Inorganic carbon acquisition characteristics of Australian freshwater microalgae from a subtropical reservoir (12OR.1)

- 11.45–12.00 Sabrina C Lachmann – Ecology matters: linking inorganic carbon acquisition to ecological preference in four species of microalgae (Chlorophyceae) (12OR.2)
- 12.00–12.15 Elly Spijkerman – Independent co-limitation for CO₂ and inorganic phosphorus (12OR.3)
- 12.15–12.30 Ashrafal Islam – Growth and physiology of toxic and non-toxic cyanobacteria in relation to light intensity (12OR.4)
- 12.30–13.30 Lunch Chablis Suite
- 13.30–14.30 Poster Session (9PO.41-59, 10PO.1-16, 11PO.1-9, 12PO.1-8, 13PO.1-7, 14PO.1-9, 15PO.1-2, 16PO.1-4)
- 14.30–16.30 Continued Symposia 1, 5, 9, 12 and Student Symposium
- Symposium 9 (continued) Room 1
- Algae in stressful environments in coastal systems
Co-Convenors: Angela Wulff and Richard J Geider
- 14.30–14.45 Anne D Jungblut – Cyanobacteria and microbial mats in Antarctic terrestrial aquatic ecosystems: diversity, distribution and response to environmental variables (9OR.5)
- 14.45–15.00 Marco Cantonati – Benthic algae and cyanobacteria from Egyptian desert springs and wells: isolated, stressful, and impacted freshwater habitats (9OR.6)
- 15.00–15.15 Nicoletta La Rocca – Light and nutrient effects on ketocarotenoid synthesis in *Chodatodesmus australis* (9OR.7)
- 15.15–15.30 Alena Lukešová – Succession of algal and cyanobacterial communities after glacier retreats in alpine - high arctic climatic zones in Northern Europe (9OR.8)
- 15.30–15.45 Eugen Rott – Endolithic cyanobacteria communities within episodically dry waterfall tufa in a southern-central alpine dry valley (Vinschgau, European Alps) (9OR.9)
- 15.45–16.00 Siba P Adhikary – Biodiversity of stress tolerant cyanobacteria on exposed surfaces of monuments of cultural heritage, their biodeteriogenic activity and possible control for conservation (9OR.10)
- 16.00–16.15 Johann Lavaud – Response of benthic diatoms inhabiting intertidal flats to environmental stresses (9OR.11)
- 16.15–16.30 João Serôdio – Minimizing excess light absorption by benthic diatoms: comparative kinetics of vertical migration and non-photochemical quenching (9OR.12)
- Room 2
- Student Symposium
Co-Convenors: Anique Stecher and Chris Williamson
- 14.30–15.00 Angela Falciatore – Careers in phycology
- 15.00–15.30 Claire Gachon – EU funding
- 15.30–16.00 Michele Stanley – Linking academia with applied phycology
- 16.00–16.30 Ross Mounce – Open source software and reproducible research
- Symposium 5 (continued) Room 3
- Phylogenomics: new approaches to solving old problems in algal evolution
Co-Convenors: Anna Karnkowska and John Archibald
- 14.30–14.45 Marie Pažoutová – Whole Genome Sequencing of the Antarctic Green Alga *Prasiola crispa* (5OR.7)
- 14.45–15.00 Pilar Díaz-Tapia – Tackling rapid radiations with chloroplast phylogenomics in the Rhodmelaceae (5OR.8)
- 15.00–15.15 Joana F Costa – Phylogenomics of the red algal order Nemaliales (5OR.9)
- 15.15–15.30 Linda K Medlin – Secondary structure alignment and multiple outgroups confirm the monophyly of the diatom classes using SSU RNA genes (5OR.10)
- Symposium 1 (continued) Room 3

Algal diversity and species delimitation: new tools, new insights

Co-Convenors: Frederik Leliaert and David G Mann

- 15.30–15.45 Juliet Brodie – Ripples of the past: how much endemism is there in seaweeds? (1OR.12) 15.45–16.00 Ricardo T Pereyra – Depauperate environments: cradle of speciation or evolutionary dead ends? (1OR.13)
- 16.00–16.15 Olivier De Clerck – Matching names and clades in the brown algal genus *Lobophora* (Dictyotales, Phaeophyceae): an effort to integrate type specimens in modern taxonomy (1OR.14)
- 16.15–16.30 Wiebe HCF Kooistra – Biodiversity in the planktonic diatom family Chaetocerotaceae (1OR.15)
- 16.30–17.00 Coffee/Tea Break

Symposium 9 (continued)

Room 1

Algae in stressful environments in coastal systems

Co-Convenors: Angela Wulff and Richard J Geider

- 17.00–17.15 Andrew Want – Fifty years after Powell: the distribution of *Fucus distichus anceps* on the extreme exposed rocky shores of Orkney and its role as an indicator species. (9OR.13)
- 17.15–17.30 Thierry Tonon – Comparative analysis of marine and freshwater brown algae: insights into the biology and evolution of an extremophile *Ectocarpus* (9OR.14)
- 17.30–17.45 Frauke Pescheck – How can *Ulva intestinalis* resist the sunlight while floating on the sea surface? (9OR.15)
- 17.45–18.00 Pamela A Fernandez – The physiological responses of giant kelp *Macrocystis pyrifera* to ocean acidification are modulated by internal nitrogen status. (9OR.16)

Symposium 12 (continued)

Room 2

Ecology, physiology and taxonomy of freshwater phytoplankton

Co-Convenors: Judita Koreiviene and Ellen van Donk

- 17.00–17.15 Elliot Shubert – Using correspondence analysis to determine relationships between abiotic factors and the density of *Desmodesmus* species in Polish lakes (12OR.5)
- 17.15–17.30 Tamar Zohary – Seasonality of intra-specific cell size in the phytoplankton of Lake Kinneret (12OR.6)
- 17.30–17.45 Franz Goecke – On the effect of rare earth elements on microalgae: pollutants and growth stimulants (12OR.7)
- 17.45–18.00 Yvonne Němcová – Silica-scaled chrysophytes on the salinity gradient (12OR.8)

Symposium 1 (continued)

Room 3

Algal diversity and species delimitation: new tools, new insights

Co-Convenors: Frederik Leliaert and David G Mann

- 17.00–17.15 Nataliya Rybalka – Microalgae communities in Antarctic soils: changes along soil developmental stages and testing for geographical distribution (1OR.16)
- 17.15–17.30 Sophie Steinhagen – Ulvales on German Baltic and North Sea coasts: About cryptic, alien and lost species (1OR.17)
- 17.30–17.45 Fabio Rindi – Old and new problems in the circumscription of Mediterranean species of *Lithophyllum* (Corallinales, Rhodophyta) (1OR.18)
- 17.45–18.00 Hiroshi Kawai – Taxonomic revision of *Papenfussiella* species in the Northern Hemisphere (1OR.19)
- 18.00–18.15 Orlando Necchi Jr – Revision of the section *Macrospora* Kumano of the genus *Batrachospermum* (Rhodophyta, Batrachospermales) (1OR.20)

- 20:00– Conference Banquet

MainHall

Friday, 28 August 2015

8.55–9.00 General announcements

9.00–10.00 Plenary Lecture

Main Hall

Ester A Serrão

Extant or extinct tipping points – climate changes drive genetic diversity and dynamics of marine forests

10:00-10:30 Coffee/Tea Break

10.30–12.30 Symposia 13, 14 and 15

Symposium 13:

Room 1

Omics and genetic resources towards algal domestication

Co-Convenors: Claire Gachon and J. Mark Cock

10.30–11.00 Nicolas Blouin – The *Porphyra umbilicalis* genome: Studies on the path from genome to grocery store (13KN.1)11.00–11.30 Gwang Hoon Kim – Omics in deciphering the evolutionary warfare between *Pyropia* and its pathogens (13KN.2)11.30–12.00 Duan Delin – Genome structure characterization of genome structure characterization of *Saccharina japonica* (13KN.3)12.00–12.30 Marie-Laure Guillemain – The domestication process in the red alga *Gracilaria chilensis*: rapid changes observed after only 30 years of intensive farming (13KN.4)

Symposium 14:

Room 2

The fate of our marine forests in a changing ocean

Co-Convenors: Myriam Valero and Francisco Arenas

10.30–11.00 Dan A. Smale – The structure and functioning of kelp forest ecosystems under rapid environmental change (14KN.1)

11.00–11.30 Marine Robuchon – Studying biodiversity by an integrative approach of population genetics and community ecology: a way to better predict the fate of our marine forests in a changing ocean? (14KN.2)

11.30–12.00 Brezo Martínez – Combining knowledge on thermal niches to species distribution models in geographical projections in a changing ocean (14KN.3)

12.00–12.15 Inka Bartsch – Changes in kelp forest biomass and depth distribution at Kongsfjorden (Spitsbergen) between 1996/98 and 2012-2014 reflect Arctic warming (14OR.1)

12.15–12.30 Thierry Thibaut – Loss of the habitat-forming *Cystoseira mediterranea* at its northern-limit of distribution in the Mediterranean Sea (14OR.2)

Symposium 15:

Room 3

Algae and Signalling - regulation of processes from cell to globe

Co-Convenors: Michael Steinke and Georg Pohnert

10.30–11.00 Eric Selander – Lipid signaling in plankton communities (15KN.1)

11.00–11.15 Philippe Potin – Expression of a PKSIII gene and soluble phlorotannin synthesis in response to abiotic and biotic stresses in the brown alga *Fucus vesiculosus*: constitutive versus inductive protection. (15OR.1)11.15–11.30 Florian Weinberger – Innate immunity regulates the excretion of anti-settlement compounds by *Fucus vesiculosus* and other brown seaweeds (15OR.2)

11.30–12.00 Assaf Vardi – A chemical arms race mediates host-virus interactions during algal blooms in the ocean (15KN.2)

12.00–12.15 Anne Weiss – Signalling in bacterial-macroalgal symbiosis: Chemotaxis is involved in biofilm formation by *Roseobacter* sp. and *Ulva mutabilis* (Chlorophyta) (15OR.3)

- 12.15–12.30 Michael Steinke – Environmental Volabolumics: Deciphering the chemical language that shapes aquatic health (15OR.4)
- 12.30–13.30 Lunch Chablis Suite
- Continued Symposia 9, 10, 14, 16
- Symposium 9 (continued) Room 1
- Algae in stressful environments in coastal systems
Co-Convenors: Angela Wulff and Richard J. Geider
- 13.30–13.45 **Justine Pittera – Phycobilisome thermostability among marine *Synechococcus* 6305
themotypes (9PO.50)**
- 13.45–14.00 Angela Wulff – Autotrophs in Antarctic meltwater microbial mats - the tough survivors (9OR.18)
- 14.00–14.15 Emmanuelle Tastard – Expression of genetic transposable elements under thermal stress in the diatom *Phaeodactylum tricornutum* (9OR.19)
- 14.15–14.30 Lenka Caisová – A new green algal lineage isolated from a volcanic canyon in the Canary Islands (9OR.20)
- Symposium 14 (continued) Room 1
- The fate of our marine forests in a changing ocean
Co-Convenors: Myriam Valero and Francisco Arenas
- 14.30–14.45 Chris Yesson – Can we monitor changes in coastal habitats from our desktops? (14OR.3)
- 14.45–15.00 Balsam Al-Janabi – Tolerance to climate change of early life-stage *Fucus vesiculosus* varies among sibling groups (14OR.4)
- 15.00–15.15 Sandra Heinrich – Transcriptomic acclimation in *Desmarestia anceps* (14OR.5)
- 15.15–15.30 Luisa Mangialajo – Recovery of large brown algae forests after destructive fishery: ecological restoration insights (14OR.6)
- 15.30–15.45 Emma Cebrian Pujol – New method for restoring degraded *Cystoseira* forests (14OR.7)
- 15.45–16.00 **Catriona L Hurd – Slow flow habitats as refugia for coralline algae from ocean acidification (14OR.8)**
- Symposium 10 (continued) Room 2
- Global change and algal assemblages: the fate of our seas
Co-Convenors: Gwenael Piganeau, Nessa O'Connor and Laura Airoidi
- 13.30–13.45 Francisco Arenas – Warm & Acid: Changes on species interactions in the new ocean (10OR.5)
- 13.45–14.00 Ljiljana Iveša – Recovery of *Cystoseira* forests along the west Istrian Coast (northern Adriatic Sea, Croatia) (10OR.6)
- 14.00–14.15 **Anna Fricke – Dynamics of benthic bloom-forming dinoflagellates: Environmental factors and interspecific relations (10PO.4)**
- 14.15–14.30 Angelika Graiff – Effects of warming and acidification on a benthic community in the Baltic Sea – Kiel Benthocosms (10OR.8)
- 14.30–14.45 Guillermo Diaz-Pulido – Recent progress in the physiology, mineralogy and ecology of coralline algae in the Great Barrier Reef and impacts of future ocean change (10OR.9)
- 14.45–15.00 David G Mann – Are there any alien marine diatoms? (10OR.10)
- 15.00–15.15 Frithjof C Küpper – Exploration of Arctic and Antarctic seaweed biodiversity in the context of polar climate change (10OR.11)
- 15.15–15.30 Marina Montesor – Temporal and spatial population structure and genetic diversity during a bloom of the marine diatom *Pseudo-nitzschia multistriata* (10OR.12)
- 15.30–15.45 Sonia Blanco – Iron limitation in the cyanobacteria *Synechococcus* sp.: from gene expression to physiological responses (10OR.13)
- 15.45–16.00 Klervi Le Lann – Biochemical adaptation of the invasive *Gracilaria vermiculophylla* along a gradient of temperature, from Portugal to Norway (10OR.14)

Symposium 16:

Room 3

Special Symposium “Phycomorph”: Morphogenesis and Development of Macroalgae
Convenor: Bénédicte Charrier

- 13.30–14.00 Thomas Wichard – Exploring bacteria-induced morphogenesis in the green macroalga *Ulva* (Chlorophyta): A combined chemical and genetic approach (16KN.1)
14.00–14.30 Rafael R Robaina– Plant hormones and reproduction in red seaweeds: from the chemicals to transcriptomics (16KN.2)
14.30–15.00 Dan Chitwood – Comparative analysis of *Caulerpa* and land plant transcriptomes: implications for Kaplan’s organismal theory (16KN.3)
15.00–15.30 Silje Forbord – Successful seaweed aquaculture based on fundamental biological knowledge - what are the main challenges? (16KN.4)
15.30–16.00 Bénédicte Charrier – Macroalgal development and morphogenesis: deploying a new international initiative to advance knowledge and transfer (16KN.5)
16.00–16.30 Coffee/Tea Break

Closing Ceremony

Main Hall

Co-Presenters: Jane Lewis, Elliot Shubert,
Olivier De Clerck, Peter Kroth,
Gil Martin & Christos Katsaros

- 16.30–16.45 Matthew Dring – A scientific wrap-up
16.45– Concluding remarks and announcements