

Venue: University of Szczecin, Faculty of Humanities, Krakowska 71-79, 71-017 Szczecin, Poland

August 13th SUNDAY

12:00-19:00	Registration (12:00-19:00) IPC 12 International Organization Committee (15:00-18:00)
19:00-22:00	IPC 11 Opening Ceremony welcome from the IPS (Prof. Juliet Brodie President of IPS and Prof. Edward Włodarczyk, Rector of the University of Szczecin) followed by an Ice-Breaker with Shanty music.
University of Szczecin, Faculty of Humanities, Krakowska 71-79, Congress Hall, I floor room 185	

August 14th MONDAY

08:50-10:00	PLENARY SPEAKER Georg Pohnert, University of Jena, Germany Chemical communication in microalgae - how unicellular organisms shape and perceive their environment University of Szczecin, Faculty of Humanities, Krakowska 71-79, Congress Hall, I floor room 185			
10:00-10:30	Coffee Break			
<i>Invited Symposia</i>	SYM09: Systematics and evolution of macroalgae <i>Convenors: Christine Maggs & Juliet Brodie</i> (room 114)	SYM01: Effects of global change on algal physiology and composition <i>Convenors: Cristina Sobrino, John Beardall & Mario Giordano</i> (room 116)	SYM14: Bioprospecting for algae: the profitable side of collecting algae <i>Convenors: Robert Andersen & Eneko Ganuza</i> (room 117)	SYM11: Baltic algae – from the past to the future <i>Convenors: Angela Wulff & Hendrik Shubert</i> (room 153)
10:30-11:00	Phylogeography of basal taxa of kelps Hiroshi Kawai	Environmental perturbations and cell composition Mario Giordano	Access to algae: legislation, science and ethics Michele Barbier	Speciation of macroalgae in the Baltic Sea Ellen Schagerström
11:00-11:30	Determination of <i>Chara</i>: morphology ‘versus’ genetics Susanne C. Schneider	Tipping the balance: Iron and phosphorus co-limitation of cyanobacterial N₂ fixation in the present and future ocean David Hutchins	Microalgae bio-prospecting: an often overlooked key to success in the development of commercial microalgal technologies William Barclay	Patterns of distribution of macroalgal diversity in the Baltic Sea Georg Martin

11:30-12:00	A new phase in the systematics and biogeography of Bangiales Juliet Brodie	The effect of removing carbon limitation on diatom aggregation and physiological responses when exposed to oil Antonietta Quigg	Bridging through biological diversity, regulatory framework and product specifications for accelerated commercial launches in health, nutrition and agriculture Gerardo Toledo	Multi-decadal trends in Baltic Sea phytoplankton communities Sanna Suikkanen
12:00-12:30	Coralline red algae: new insights challenge our understanding of a global benthic group Viviana Peña	Interactions between energetics and composition John Raven	Bioprospecting for the right cyanobacteria in arid soil ecological restoration Ferran Garcia-Pichel	Conservation of phenotypic plasticity along the stable environmental gradients of the Baltic Sea Petra Nowak
12:30-13:30	Lunch			
<i>Contributed Sessions</i>	CS19: Systematics and evolution of macroalgae (room 114)	CS11: Effects of global change on algal physiology and composition (room 116)	CS01: Biotechnology/ CS24: Bioprospecting for algae: the profitable side of collecting algae (1) (room 117)	CS21: Baltic algae – from the past to the future (room 153)
13:30-13:50	DNA barcoding for assessing distribution patterns in cryptic seaweed species: the <i>Codium</i> case study in the Bay of Biscay, Northeast Atlantic Ocean Roberta Skukan et al.	Macroalgal response to a warmer ocean with higher CO₂ concentration: a shift towards tropical ecosystems Celso Agustín Hernández et al.	Nagoya protocol on access and benefit sharing and its implication for algal culture collections and their users Maike Lorenz & A. Tzvetkova	The future for Baltic Cyanobacteria? Angela Wulff et al.
13:50-14:10	DNA barcoding of Lithophylloideae (Corallinales) reveals unknown diversity in Brazil Torrano-Silva et al. (presenting author: Mariana Oliveira)	Changes in macroalgae communities due to natural CO₂ gradients Sara González-Delgado et al.	Increased lipid production and altered lipid composition in the microalga <i>Neochloris oleoabundans</i> by ‘overexpression’ of diacylglycerol acyltransferase 2 Wipa Chungjatupornchai et al.	Resolving distribution patterns of three “cryptic” cold-water dinoflagellates dominating the Baltic Sea spring bloom Tobias Lipsewers et al.

14:10-14:30	Phylogeographic patterns indicate cryptic species diversity in the red alga <i>Gloiopeltis furcata</i> (Gigartinales) in the Northern Pacific region Mi Yeon Yang et al.	The tough and tenacious: thriving in natural analogues of warmer and acidic tropical marine waters Michael Roleda et al.	Predator control for large-scale cultivation using pulsed electric field technology Thomas Dempster	Conspecificity of an invasive ecotype of <i>Ulva compressa</i> from the SW Baltic with the model organism <i>Ulva mutabilis</i> Sophie Steinhagen et al.
14:30-14:50	<i>The best is yet to come: molecular systematics of Gibsmithia (Dumontiaceae, Rhodophyta)</i> Daniela Gabriel et al.	Historical morphological changes of three species of Gelidiales Beatriz Alfonso et al.	Engineering acetic acid toxicity to grow mixotrophic microalgae at scale Eneko Ganuza et al.	Use of molecular methods in research on marine benthic diatoms and its benefits for biodiversity and environmental reconstructions of the coastal zone of the Baltic Sea and beyond Chunlian Li et al.
CS07: Physiology and biochemistry				
14:50-15:10	The phototrophic microbiome of coral skeletons Heroen Verbruggen & Marcelino V.R.	Linking physiological and transcriptomic analyses in <i>Desmarestia anceps</i> under future abiotic conditions Sandra Heinrich et al.	Balancing photosynthesis and respiration increases microalgal biomass productivity during photoheterotrophy on glycerol Samir B. Grama et al.	Needles in watery haystacks: finding novel molecules inducing diatom biofilm formation, excreted by bacteria Lachlan Dow et al.
15:10-15:30	Non-monophyly of <i>Bostrychia simpliciuscula</i> (Ceramiales, Rhodophyta): multiple species with very similar morphology; a revised taxonomy of cryptic species Giuseppe Zuccarello et al.	Role of phytoplankton metabolism down-regulation in a high CO₂ world Cristina Sobrino et al.	Engineering a heat-tolerant and ectoin-producing microalga in one strike Kirsten Heimann et al.	Interspecific variation in metabolic response to P limitation helps explain sympatric congeneric species diversity (in the northern Adriatic Sea) Nataša Kužat et al.
15:30-15:50	<i>Evolutionary history and diversity of Mediterranean coralline algae: how much do we know?</i> Fabio Rindi et al.	Living in the boundary layer of kelp blades: refuge from ocean acidification or training for harsh conditions? Fanny Noisette & C.L. Hurd	You can't get me – developing <i>Haematococcus</i> strains resistant to <i>Paraphysoderma</i> infection Noreen Hiegler et al.	Heat stress memory is responsible for acquisition of thermotolerance in the red seaweed <i>Bangia fuscopurpurea</i> Koji Mikami & I. Kishimoto

15:50-16:20

Coffee Break

<i>Contributed Sessions</i>	CS19: Systematics and evolution of macroalgae (room 114)	CS11: Effects of global change on algal physiology and composition (room 116)	CS01: Biotechnology/ CS24: Bioprospecting for algae: the profitable side of collecting algae (1) (room 117)	CS07: Physiology and biochemistry (room 153)
16:20-16:40	Phylogeographic data revealed shallow genetic structure in the wild kelp <i>Saccharina japonica</i> (Laminariales, Phaeophyta) Jie Zhang et al.	Response of maerl (Rhodolith) algae to global and local changes Zujaila Qui Minet et al.	The European PUFACHAIN project (FP7) – a value chain from algal biomass to lipid-based products Anastasiia Kryvenda et al.	Shedding light on the dark – a comprehensive de novo transcriptome of <i>Cosmarium crenatum</i> Florian Mundt et al.
16:40-17:00	A new genus for species of coralline red algae ascribed to the cosmopolitan genus <i>Spongites</i> Gavin Maneveldt et al.	Rhodoliths maintain elevated surface pH and carbonate ion concentrations Laurie Hofmann et al.	Comparative analysis of whole transcriptomes of <i>Pyropia yezoensis</i> Seo-Jeong Park et al.	Halophilism in some indigenous strains of <i>Nostoc</i> from aridisols of Hisar, India Nisha Rani et al.
17:00-17:20	Female-dominant asexual populations of the brown alga <i>Scytosiphon lomentaria</i> in Japan Masakazu Hoshino et al.	Environmental controls on the elemental composition of the coccolithophore <i>Emiliania huxleyi</i> Yuanyuan Feng et al.	Fatty acids methyl ester, phthalic acid esters and screening bioactive phytochemicals of <i>Gracilaria salicornia</i>, <i>Padina boergesenii</i> and <i>Polycladia myrica</i> from the Persian Gulf Zohreh Ramezanzpour et al.	Functional analyses of sex specific receptor-like proteins in <i>Closterium peracerosum-strigosum-littorale</i> complex, using CRISPR/CAS9 system Hiroyuki Sekimoto et al.
17:20-17:40	Contributions to the identification of benthic and floating <i>Sargassum</i> (Phaeophyceae, Fucales) from the Brazilian coast Beatriz Barros-Berreto et al.	Photosynthetic adaptations to terrestrial environments in early- and late-branching streptophytic green algae: <i>Klebsormidium</i> and <i>Zygnema</i> Mattia Pierangelini & Andreas Holzinger	Isolation of flavonoid from <i>Sargassum cristaefolium</i> and the effect on multicellular antiproliferation activity Yenny Risjani et al.	Chemical communication on a microscale - discovering additional roles of N-acyl homoserine lactones in diatom bacteria interactions Frederike Stock et al.
17:40-18:00	Patterns of genetic diversity of the cryptogenic red alga <i>Polysiphonia morrowii</i> (Ceramiales, Rhodophyta) suggest multiple origins of the Atlantic populations Christophe Destombe et al.	Physiological plasticity and local adaptation to ocean acidification in calcareous algae: an ontogenetic and geographic approach Juan Gaitan-Espitia et al.	Can nitrogen stress be used to induce the accumulation of therapeutic compounds in microalgae? Wendy Stirk et al.	Evolution and characterization of mannitol biosynthetic pathways in algae Thierry Tonon et al.

Poster session 1 & Happy Hour

18:00-19:00	CS01: Biotechnology CS07: Physiology and biochemistry CS11: Effects of global change on algal physiology and composition CS19: Systematics and evolution of macroalgae CS21: Baltic algae – from the past to the future CS24: Bioprospecting for algae: the profitable side of collecting algae
19:00	Open night

August 15th TUESDAY

08:50-10:00	PLENARY SPEAKER Zoe Finkel, Mount Allison University, Canada An evolutionary imprint on the macromolecular composition of microalgae University of Szczecin, Faculty of Humanities, Krakowska 71-79, Congress Hall, I floor room 185		
10:00-10:30	Coffee Break		
	SYM03: Algal microbiomes in ecology, physiology, development and evolution <i>Convenors: Claire Gachon & Bénédicte Charrier</i> (room 114)	SYM08: Current and past processes shaping microalgal biogeography <i>Convenors: Wim Vyverman & Anna Godhe</i> (room 116)	SYM06: Endosymbiosis and evolution in red alga-derived plastids <i>Convenors: Jan Janouskovec & Marek Eliáš</i> (room 117)
10:30-11:00	Breaking bad: opportunistic bacterial pathogens of seaweeds Suhelen Egan	Freshwater diatom biogeography: from ‘everything is everywhere’ to endemism and beyond John P. Kocielek	Reductive evolution of plastids in diatoms after loss of photosynthesis Ryoma Kamikawa
11:00-11:30	Defence reactions of brown algae against the oomycete pathogens <i>Eurychasma</i> and <i>Anisolpidium</i> Claire Gachon	Fine-scale phytoplankton diversity and seasonal dynamics in the Sargasso Sea revealed by a decade of high resolution sampling Amy Zimmerman & Alexandra Worden	Mosaic origins and complex fates of ochrophyte plastids revealed through an ancient organelle Richard G. Dorrell

11:30-12:00	The sea lettuce <i>Ulva</i> only gets into shape with the right bacteria: how morphogens direct algal development and differentiation Thomas Wichard	UV radiation effects on algal community structure along a latitudinal gradient Dieter Hanelt	Pinpointing the acquisition of complex red algal plastids in Cryptophyta – a phylogenomic investigation of the cryptomonad <i>Goniomonas avonlea</i> Shannon Sibbald	
12:00-12:30	DMS/P signalling mediates the cross-talk within the coccolithophore phycosphere Assaf Vardi	Exploring human-induced evolution using genomics of revived diatoms from natural archives Anna Godhe	Dinoflagellate plastids as models for understanding endosymbiosis Jan Janouskovec	
12:30-13:30	Lunch			
<i>Contributed Sessions</i>	CS13: Algal microbiomes in ecology, physiology, development and evolution (room 114)	CS18: Current and past processes shaping microalgal biogeography (room 116)	CS16: Endosymbiosis and evolution in red alga-derived plastids (room 117)	CS01: Biotechnology/CS24: Bioprospecting for algae: the profitable side of collecting algae (2) (room 153)
13:30-13:50	Defining viral infection states of a bloom-forming marine alga with single-cell dual RNA sequencing Chuan Ku et al.	Euglenoid blooms – causes and effects Konrad Wołowski et al.	Discovery of kleptoplastidic tertiary plastid in a dinoflagellate Norico Yamada et al.	Exploration of the bioactive lipids diversity of the marine benthic diatoms of the Nantes Culture Collection (NCC) Eva Cointet et al.
13:50-14:10	A novel species of parasitic Lobulomycetales infecting <i>Asterionella formosa</i>: cultivation, infectious cycle and cryopreservation Cecilia Rad-Menendez et al.	Tracking changes in the species richness and biodiversity of benthic diatoms in coastal waters (Northumbria, UK) Aleksandra Zgrundo	Plastid inheritance and genome architecture in isogamous and anisogamous brown algae Ji Won Choi et al.	Effect of environmental factors on selected microalgae strains for EPA and DHA production Justine Aussant et al.
14:10-14:30	Pathogen-specific gene regulation in the red alga <i>Pyropia tenera</i> in response to the three most common diseases in sea farms	Relationships between photosynthetic eukaryotes and nitrogen-fixing bacteria off Brazil Catherine Gérikas Ribeiro et al.	Rediscovery of the <i>Ochromonas</i> type species, <i>Ochromonas triangulata</i> (Chrysophyceae), from its type locality (Lake	Potential use of the polyextremophilic microalga <i>Galdieria sulphuraria</i>

	Gwang Hoon Kim & Soo Hyun Im	CS04: Microalgal ecology	Veysove, Donetsk region, Ukraine) Robert Andersen et al.	(Cyanidiophyceae, Rhodophyta) in bio-recovery of rare metals Claudia Ciniglia et al.
14:30-14:50	Metabolomics of biotic interactions in centric diatoms <i>Coscinodiscus</i> spp. Marine Vallet et al.	Environmental and spatial influences on biogeography and community structure of benthic diatoms Craig Plante et al.	The benefits of DNA-containing specimens: <i>Chroomonas nordstedtii</i> Kerstin Hoef-Emden	<i>Pelagibaca bermudensis</i> promotes biofuel potential of <i>Tetraselmis striata</i> in broad range of stressors in addition to the release of HHQ and PQS Shailesh Kumar Patidar et al.
				CS02: Cell and molecular biology
14:50-15:10	Autophagy is a central cellular process in the interaction between brown algae and parasitic water moulds (Oomycota) Pedro Murúa et al.	A new mechanism of viral immunity in marine phytoplankton Herve Moreau et al.	A four-gene approach to the Bacillariaceae: establishing a framework for classifying a highly diverse and taxonomically difficult diatom group Rosa Trobajo et al.	Differential gene expression of <i>Zygnema circumcarinatum</i> in response to desiccation stress Martin Rippin et al.
15:10-15:30	<i>Microcoleus vaginatus</i> carries a nitrogen-fixing microbiome that can help it colonize nutrient-deficient arid substrates Ana Giraldo Silva et al.	Exploring the structure of a planktonic ecosystem Daniela Maric Pfannkuchen et al.	Opening Pandora's box: a diatom species complex as a case study for the diversity and biogeography of terrestrial micro-eukaryotes Eveline Pinseel et al.	Everything's different: reconstructing metabolic pathways of the non-photosynthetic plastid of <i>Euglena longa</i> Kristína Záhonová et al.
15:30-15:50	Exploring bacterial diversity in invasive green algae Kathryn Morrissey et al.	Recovery from acidification and restoring of fish populations in the catchment of the river Wye, United Kingdom Ingrid Jüttner et al.	New freshwater diatom genus <i>Okhapkinia</i> gen. nov. from Laos (Southeast Asia), with notes on the molecular phylogeny of the family Sellaphoraceae Maxim Kulikovskiy et al.	Transcriptomic and microRNAomic profiling reveals multi-faceted mechanisms to cope with phosphate stress in a dinoflagellate Senjie Lin et al.

15:50-16:20

Coffee Break

<i>Contributed Sessions</i>	CS13: Algal microbiomes in ecology, physiology, development and evolution (room 114)	CS04: Microalgal ecology (room 116)	CS03: Microalgal phylogenetics and taxonomy (room 117)	CS02: Cell and molecular biology (room 153)
16:20-16:40	Boom and bust path of <i>Gracilaria</i>: can loss of bacterial “friends” limit the invasion success of a seaweed host? Mahasweta Saha & Weinberger F.	Linking phenotype with genotype in the benthic diatom <i>Seminavis robusta</i> Josefin Sefbom et al.	Assessing phylogenetic signals and homoplasy in morphometric data of <i>Pseudopediastrum boryanum</i> and morphologically similar taxa Joanna Lenarczyk & Piątek J.	Identifying proteins important for coccolith formation in <i>Emiliania huxleyi</i> Alastair Skeffington et al.
16:40-17:00	Function and diversity of the epibacterial community on the Arctic maerl, <i>Lithothamnion glaciale</i> Kathryn Schoenrock & Matterson K.O.	Arctic and alpine <i>Zygnema</i> sp. (Zygnematophyceae) adapt to desiccation, UV radiation and freezing: investigation of ultrastructural and metabolomics changes Andreas Holzinger et al.	Morphological and phylogenetic analysis of <i>Cylindrocystis</i> reveals new species and extraordinary spores with implications for our understanding of fossil Zygnematophyceae John Hall et al.	Salicylic-acid-mediated disease resistance in <i>Pyropia yezoensis</i> against oomycete pathogens Sokyong Jung & Gwang Hoon Kim
17:00-17:20	The cross-kingdom interaction in the marine macroalgae <i>Ulva</i>: revisiting the lottery theory through cross-testing of bacteria Fatemeh Ghaderiardakani et al.	Resistance to frost of the conjugating green alga <i>Zygnema</i> (Zygnematophyceae) tested by an experimental approach Katerina Trumhova et al.	Diversity and taxonomy of freshwater and subaerial members of Ulvales/Ulotrichales (Ulvophyceae, Chlorophyta) Michala Klimešová et al.	Use of mutant strain, ecophysiological studies, and deep proteomic analysis reveal mechanisms of nitrogen acclimation and carbon partitioning in the haptophyte <i>Tisochrysis lutea</i> Matthieu Garnier et al.
17:20-17:40	Reciprocal interactions shape the structure and functioning of diatom-bacteria consortia in marine biofilms Koen Sabbe et al.	Nitrogen supply mechanisms in the toxic dinoflagellate <i>Alexandrium ostenfeldii</i> - the key to bloom expansion in coastal Baltic waters? Elin Lindehoff et. al.	Systematic reassessment of Rivulariaceae (Nostocales, Cyanophyceae) Esther Berrendero Gómez et al.	Nitrogen-related transporters at work on potassium deficiency and salt tolerance in <i>Pyropia yezoensis</i> Eri Adams et al.
17:40-18:00	From seaweed to biogas: exposing the microbiome underpinning stable anaerobic digestion	Differential impact of silver stress on Chrysophyceae (Stramenopiles)	<i>Nunduva</i>, a new marine genus of Rivulariaceae (Nostocales,	Life cycles in photosynthetic relatives of apicomplexans Zoltán Füssy et al.

	Paul Whitworth et al.	Christina Bock et al.	Cyanobacteria) from marine rocky shores Jeffrey Johansen et al.	CS10: Other
18:00-18:20	Unraveling the core and variable bacterial communities of evolutionarily distant marine macroalgae Alok Arun et al.	Cryophilic algae survive in space Thomas Leya et al.	Silicified bolidophytes (Parmales, Bolidophyceae) are not monophyletic as evidenced by the phylogenetic characterization of <i>Triparma retinervis</i> Kazumasa Yamada et al.	Shaping an embryo: the role of cell walls in brown algal development Marina Linardic et al.
Poster session 2 & Happy Hour				
18:20-19:20	CS02: Cell and molecular biology CS03: Microalgal phylogenetics and taxonomy CS04: Microalgal ecology CS06: Mineralization CS10: Other CS13: Algal microbiomes in ecology, physiology, development and evolution CS18: Current and past processes shaping microalgal biogeography			
19:20-20:20	<i>Phycologia</i> editors meeting			
19:20	Open night			

August 16th WEDNESDAY

08:00-22:00	Mid-Congress excursions In the evening: Bonfire and grill party - “U Śnieżków”, Smolecin 18, 72-001 Kołbaskowo	
<i>Workshops</i>	Freshwater red algal identification organized by Morgan L. Vis & Orlando Necchi	ALFF organized by Claire Gachon & Bénédicte Charrier
09:00-09:30	Vitamins as drivers of evolution of algal-bacterial mutualisms Alison Smith	

09:30-10:00		Dinoflagellates' (microbial) friends and their functions David Green
10:00-10:30		Interactions between engineered microbiomes and natural bacterial communities Marie-Mathilde Perrineau
10:30-11:00	Coffee Break	
11:00-11:15		Bacteria-microalgae interactions through nitrogen and cobalamin (B12): from competition to mutualism Matthieu Garnier
11:15-11:30		Interactions between heterotrophic bacteria and the oleaginous, marine microalgae <i>Nannochloropsis</i> - establishment of a tripartite model system Frederik de Boever
11:30-11:45		Uninvited guests? Effect of bacteria on growth and mating of the benthic diatom <i>Seminavis robusta</i> Emilio Cirri
11:45-12:00		Deciphering the role of the (un)cultivable microbiome during freshwater acclimation in the brown macroalga <i>Ectocarpus subulatus</i> Hetty KleinJan
12:00-12:15		Eustigmatophyte host and exchange genes with bacteria representing a new genus of Rickettsiaceae

		Tanya Yurchenko et al. (presenting author: Marek Eliáš)
12:15-12:30		qPCR-based detection of filamentous brown algal endophytes in <i>Saccharina latissima</i> Miriam Bernard
12:30-12:45		Phylogenetic characterisation of oomycetes infecting toxic species of the marine diatom <i>Pseudo-nitzschia</i> Andrea Garvetto
12:45-13:00		A novel treatment protects <i>Chlorella</i> at commercial scale from the predatory bacterium <i>Vampirovibrio chlorellavorus</i> Eneko Ganuza
13:00-13:15		Transcriptome analysis of compatible and incompatible interactions of <i>Ectocarpus</i> with <i>Eurychasma dicksonii</i> using RNA-sequencing Srilakshmy Lakshminarayanapuram Harikrishnan et al.

13:15-14:15

Lunch**August 17th THURSDAY**

	PLENARY SPEAKER	
08:50-10:00	Nils Kröger, Technische Universität Dresden, Germany How to build a glass house: from silica morphogenesis in diatoms to a synthetic biology for biominerals University of Szczecin, Faculty of Humanities, Krakowska 71-79, Congress Hall, I floor room 185	
10:00-10:30	Coffee Break	

<i>Invited Symposia</i>	SYM04: Applications of high-throughput sequencing in algal systematics <i>Convenors: Heroen Verbruggen & Olivier De Clerck</i> (room 114)	SYM12: Biologists vs Palaeontologists: reconciling the two approaches <i>Convenors: Ric Jordan & Peter Siver</i> (room 116)	SYM02: Insights from the <i>Porphyra</i> genome into evolutionary trends and environmental adaptations in the red algae <i>Convenors: Susan Brawley & Arthur Grossman</i> (room 117)	SYM10: How to name algae: names, taxa & databases <i>Convenors: Regine Jahn & Wolf-Henning Kusber</i> (room 153)
10:30-11:00	Phylogenomics resolves the early rapid radiation of the Rhodomelaceae (Rhodophyta) and informs tribal-level reclassification Pilar Diaz	Current status and prospects of paleontological research on coralline algae Juan C. Braga	Genomic insights into the biosynthesis of photoprotective pigments in <i>Porphyra umbilicalis</i>: carotenoids and mycosporine-like amino acids Martin Lohr	Changes to the International Code of Nomenclature for Algae, Fungi and Plants made at IBC2017 in Shenzhen: What does this mean for you? Nick Turland
11:00-11:30	Molecular evolution and morphological diversification of ulvophytes Andrea del Cortona	“Known unknowns” in the molecular phylogeny: where fossil taxa might help us resolve the evolutionary history of diatoms Matt Ashworth et al.	Calcium-dependent signalling mechanism in the <i>Porphyra</i> genome Glen L. Wheeler	Registration of names and types of algae by PhycoBank Wolf-Henning Kusber et al.
11:30-12:00	Model species in brown algae: a reappraisal of <i>Ectocarpus</i> species diversity using both classical methods and massive sequencing Marie-Laure Guillemin et al.	What paleontology can say about modern silicoflagellates that phycology has missed Kevin McCartney	Characterization of the cytoskeleton of <i>Porphyra umbilicalis</i> and comparison to other red algae based on analysis of the completed <i>Porphyra</i> genome Holly V. Goodson & Susan H. Brawley	Beyond names: developing a names database and other applications for diatoms John P. Kociolek et al.
12:00-12:30	Multigene, organellar and nuclear genome data provide the big picture of red algal evolution Su Yoon Hwan & Jun Mo Lee	Wanted: dead and alive! Integrating extant with extinct to transform our understanding of coccolithophore physiology, ecology and evolution Rosie Sheward et al.	Insights into vitamin metabolism from <i>Porphyra</i> and consequences for biotic interactions Katherine E. Helliwell et al. (presenting author: Alison G. Smith)	The International Code of Nomenclature of Prokaryotes: 50 years on and still learning Brian J. Tindall
12:30-13:30	Lunch			

<i>Contributed Symposia</i>	CS14: Applications of high-throughput sequencing in algal systematics (room 114)	CS22: Biologists vs Palaeontologists: reconciling the two approaches (room 116)	CS05: Macroalgal ecology (room 117)
13:30-13:50	Applying high throughput sequencing (HTS) on snow algae: current state, knowledge gaps and future perspectives Daniel Remias et al.	Giant scales, tiny scales & similar scales: a review of the Synurophyceae in the fossil record Peter Siver et al.	Air-sea CO₂ fluxes in macroalgal dominated communities José Carlos Hernández et al.
13:50-14:10	Evolutionary relationships of the red algal parasite <i>Pterocladophila hemisphaerica</i> using complete mitochondrial and 'ghost' plastid genomes Maren Preuss et. al.	The identity of enigmatic siliceous microfossils in marine sediments Richard Jordan et al.	Variability in stable isotope signatures of South African Laminariales: implications for kelp forest food web studies Dyer D.C. et al. (presenting author: Albertus J. Smit)
	CS11: Effects of global change on algal physiology and composition (2)		
14:10-14:30	Biological soil crust algae of the polar regions Nadine Borchhardt et al.	Fossil record clues to diatom rise to ecological prominence - are we looking in the right place? Jakub Witkowski	MarClim: climate-driven range shifts and changes in abundance of macroalgae across the Boreal/Lusitanian transition zone Nova Mieszkowska
	CS03 :Microalgal phylogenetics and taxonomy (2)	CS25: Getting on top of HABs	
14:30-14:50	Diversity of algivorous protoplast feeders and first insights into the molecular mechanisms underlying the perforation of algal cell walls Sebastian Hess et al.	Nostocales were not favored by intensified nitrogen limitation Jan Köhler & Shatwell T.	Tuning sea urchin density for recovery and maintenance of kelp beds in the barren subtidal habitat Jeong Ha Kim et al.

	CS:04 Microalgal ecology (2)		
14:50-15:10	Algae and cyanobacteria in complex microbial communities associated with rock weathering across a climatic gradient in Chile Thomas Friedl et al.	Cyanobacterial neurotoxins and their producers in temperate lakes in Lithuania Ksenija Savadova et al.	Productivity of <i>Macrocystis pyrifera</i> juvenile under controlled conditions: why morphology matters? Sandra Pereda et al.
		CS09: Ultrastructure	
15:10-15:30	A non-thermophilic, non-acidophilic <i>Cyanidium</i>: the last enigma from Sibilla cave Paola Cennamo et al.	Green monads from Leningrad and Novgorod regions: ultrastructure contribution to species identification Olga Boldina	Outdoor experimental approach for determining kelp productivity: testing the importance of <i>Macrocystis pyrifera</i> morphology in adult sporophytes Alejandro Buschmann et al.
15:30-15:50	Burning coal spoil heaps as a new habitat for the extremophilic red alga <i>Galdieria sulphuraria</i> Dovile Barcyte & Nedbalova L.	Cell structure and ultrastructure adaptation of <i>Nostoc commune</i> Vaucher ex Bornet & Flahault as a response to difference light intensity Ludmilla Untari et al.	Selection of increased resistance against epiphytism during the invasion history of <i>Gracilaria vermiculophylla</i> Florian Weinberger et al.
15:50-16:20	Coffee Break		
<i>Contributed Symposia</i>	CS:04 Microalgal ecology (2) (room 114)	CS17: Evolutionary genetics of algae (room 116)	CS05: Macroalgal ecology (room 117)

16:20-16:40	<p>Contribution towards morphological and molecular taxonomic reference library of benthic marine diatoms from two arctic fjords on Svalbard (Norway)</p> <p>Katarzyna Stachura-Suchoples et al.</p>	<p>Phylogeographic patterns of <i>Gracilaria caudata</i> (Gracilariales, Rhodophyta) along the Brazilian coast</p> <p>Lígia Ayres-Ostrock et al.</p>	<p>Photosynthetic performance of the red alga <i>Solieria pacifica</i> (Solieriaceae) from two different depths in the sublittoral waters of Kagoshima, Japan</p> <p>Iris Ann Borlongan et al.</p>
16:40-17:00	<p>A historical review on the studies of microphytobenthos in and around the Korean tidal flats</p> <p>Jinsoon Park</p>	<p>A late Pleistocene marine glacial refugium in the southwest of Hainan Island, China: phylogeographic insights from the brown alga <i>Sargassum polycystum</i></p> <p>Zi-Min Hu et al.</p>	<p>Feed stimulants from the green alga <i>Ulva</i> for the sea urchin <i>Tripneustes gratilla</i></p> <p>Lekraj Etwarysing et al.</p>
		CS08: Reproductive biology	
17:00-17:20	<p>A workflow for large-scale permanent slide imaging and image analysis for diatom morphometrics</p> <p>Michael Kloster et al.</p>	<p>How to induce sexual reproduction in centric diatoms</p> <p>Kimberly Halsey et al.</p>	<p>Using species distribution models to examine the future of Characeae in North America</p> <p>Robin Sleith et al.</p>
Poster session 3 & Happy Hour			

17:20-18:20	CS05: Macroalgal ecology CS08: Reproductive biology CS12: Insights from the <i>Porphyra</i> genome into evolutionary trends and environmental adaptations in the red algae CS14: Applications of high-throughput sequencing in algal systematics CS15: Ecological metabarcoding and metagenomics of phytoplankton CS16: Endosymbiosis and evolution in red alga-derived plastids CS17: Evolutionary genetics of algae CS22: Biologists vs Palaeontologists: reconciling the two approaches CS23: Fundamentals to move from seaweed cultivation to marine agronomy CS25: Getting on top of HABs
18:20-19:20	IPS business meeting for all members
19:20	Open night

August 18th FRIDAY

08:50-10:00	PLENARY SPEAKER Christine A. Maggs, Bournemouth University, UK Linnaean systematics in the age of Big Data University of Szczecin, Faculty of Humanities, Krakowska 71-79, Congress Hall, I floor room 185		
10:00-10:30	Coffee Break		
<i>Invited Symposia</i>	SYM07: Evolutionary genetics of algae <i>Convenors: Myriam Valero & Christophe Destombe</i> (room 114)	SYM05: Ecological metabarcoding and metagenomics of phytoplankton <i>Convenors: Bente Edvardsen & Daniel Vaultot</i> (room 116)	SYM13: Fundamentals to move from seaweed cultivation to marine agronomy <i>Convenors: Helena Abreu & Alan Critchley</i> (room 117)
10:30-11:00	Origin and evolution of the sexes in the brown algae Aga Lipinska et al. (presenting author: Susana Coelho)	Combining culture and metabarcoding for little known phytoplankton groups Adriana Lopes dos Santos et al.	Sustainability and lessons learned from eucheumatoid farming Anicia Hurtado et al.

11:00-11:30	<i>La vie des algues rouges: the genetics and evolutionary ecology of the colonization of novel habitats in haploid-diploid seaweeds</i> Stacy A. Krueger-Hadfield	Metabarcoding of haptophytes Elianne Dunthorn Egge	Global initiative for safeguarding the future of the seaweed industry in developing countries Elizabeth J. Cottier-Cook et al.
11:30-12:00	Reticulate evolution in fucoid seaweed radiations Joao Neiva	EukRef. A community effort towards phylogenetic-based curation of ribosomal databases Javier del Campo	European perspectives of regulation for seaweed breeding and seedling production in a genomics era Philippe Potin et al.
12:00-12:30	Using high-throughput sequencing to investigate divergence in non-model organisms: an example in the dinoflagellate <i>Alexandrium minutum</i> Mickael Le Gac	Metagenomics and metatranscriptomes of oceanic communities Daniel Richter	Terrestrial vs marine agronomy: timelines and lessons to be learned Balakrishnan Prithiviraj & Alan Critchley
12:30-13:00	Genetic diversity and evolutionary adaptation in populations of bloom-forming Baltic microalgae Anke Kremp et al.		
13:00-14:00	Lunch		
<i>Contributed Symposia</i>	CS17: Evolutionary genetics of algae (2) (room 114)	CS15: Ecological metabarcoding and metagenomics of phytoplankton (room 116)	CS23: Fundamentals to move from seaweed cultivation to marine agronomy (room 117)
14:00-14:20	The <i>Ulva</i> genome: insights in the biology of bloom-forming green seaweed Olivier De Clerck et al.	Environmental DNA-metabarcoding and local reference barcoding reveal remarkably high species diversity in the planktonic diatom family Chaetocerotaceae Wiebe H.C.F. Kooistra et al.	Progress of the seaweed mariculture industry in Alaska Michael Stekoll et al.

14:20-14:40	Selection and domestication influences on wild and cultivated <i>Saccharina japonica</i> (Laminariales, Phaeophyceae) genomes Delin Duan et al.	Development and adoption of a next-generation-sequencing approach to diatom-based ecological assessment in the UK David G. Mann et al.	Seaweeds protein quality could be better and the shadow price of production lower than in terrestrial plants Niva Tadmor-Shalev & Amir Neori
14:40-15:00	Population genomic of <i>Undaria pinnatifida</i>: insights into mechanisms of genome adaptation during invasion Louis Graf et al.	Microalgae communities in soils: changes along soil developmental stages and testing for geographical distribution Nataliya Rybalka et al.	<i>Ulva ohnoi</i> (Ulvales, Chlorophyta) as a biofilter in IMTA-RAS systems: influence of nitrogen and phosphorus levels in its development Javier Cremades et al.
		CS:04 Microalgal ecology (3)	
15:00-15:20	Morphological plasticity of a bloom-forming marine microalgae in response to viral infection Miguel Frada et al.	Temperature, growth metrics and the unimodal size scaling of phytoplankton growth Cristina Fernández et al.	The giant kelp <i>Macrocystis pyrifera</i>: evidence to expected high potential for genetic improvement Carolina Camus & Alejandro Buschmann
		CS05: Macroalgal ecology (2)	
15:20-15:40	Identifying drivers of sympatric speciation in the marine benthic diatom <i>Seminavis robusta</i> using metabolic analysis and whole-genome resequencing Sam De Decker et al.	Macroalgae at Pulley Ridge: the deepest mesophotic coral reef on the U.S. continental shelf Dennis Hanisak et al.	The effect of seaweed aquaculture cooperatives on sustainable livelihoods in Malaysia Adibi M. Nor. et al.
15:40-16:00	Hybridization in natural populations of two seaweeds of the genus <i>Ectocarpus</i>: analyzing pre- and post-zygotic barriers in haplo-diploids Myriam Valero et al.	Reproductive effort and frond architecture – understanding the impact of harvesting <i>Ascophyllum nodosum</i> in eastern Canada David Garbary et al.	Production and growth of <i>Kappaphycus alvarezii</i> under different cultivation areas in eastern Indonesia Ma'ruf Kasim et al.

16:00-16:20		Coffee Break	
<i>Contributed Symposia</i>	CS17: Evolutionary genetics of algae (2) (room 114)	CS05: Macroalgal ecology (2) (room 116)	CS23: Fundamentals to move from seaweed cultivation to marine agronomy (room 117)
16:20-16:40	Marginal distribution and high heterozygosity of asexual <i>Caloglossa vieillardii</i> (Delesseriaceae, Rhodophyta) along the Australian coasts Mitsunobu Kamiya et al.	Morphological plasticity and acclimation limits of <i>Fucus evanescens</i> along the salinity gradient of the Baltic Sea Katharina Romoth et al.	New edible red macroalga, <i>Caloglossa beccarii</i> DeToni from Thailand Wanninee Chankaew et al.
		CS19: Systematics and evolution of macroalgae (2)	
16:40-17:00	Pirate: a pipeline to retrieve and annotate transposable elements in <i>Tisochrysis lutea</i> genome Jeremy Berthelier et al.	Species dilemma: a case study on <i>Hypnea musciformis</i> (Gigartinales, Rhodophyta) Fabio Nauer et al.	Distribution of Solieriaceae (Rhodophyta) in Mexico Núñez-Resendiz M.L. et al. (presenting author: Hilda León Tejera)
17:00-18:00	IPC 11 Closing Ceremony and announcement of the IPC 12		
20:00	Congress Gala Dinner in the Radisson Blu Hotel (additional cost of 50 USD) pl. Rodła 10, 70-001 Szczecin		