

XXI ISS CONTRIBUTED PAPERS SCHEDULE

CONTRIBUTED PAPERS NO. 1 - APRIL 22, 14:00-15:30 - ROOM ULUWATU 1

SUBJECT: SEAWEED BIOGEOGRAPHY & PRODUCTIVITY

TIME	TITLE	AUTHOR(S)
14:00-14:15	Towards restoration of missing underwater forests	Campbell* AH, Marzinelli EM, Vergès A, Coleman A, Steinberg, PD
14:15-14:30	Survey of intertidal macroalgae in northwest coast of Yellow Sea: Primary exploring assisted by DNA barcoding	Du GY*, Mao YX, Wu FF, Xue HF, Guo SH, Bi GQ
14:30-14:45	Right or wrong conclusion? The importance of equal precisions level in biodiversity studies	Fredriksen S*, Wiencke C
14:45-15:00	A region-wide monitoring of anthropogenic eutrophication using macroalgal stable isotope in Southeast Asia	Hayashizaki K*, Metillo EB, Tsunoda T, Noiraksar T, Prathep A, Rattanachot E, Tuntiprapas P, Nguyen Xuan Vy, Muta Harah Z, Japar Sidik B, Ogawa H
15:00-15:15	Biodiversity of seaweeds in Blue Lagoon, the Straits of Malacca, Malaysia	Ismail A*, Ismail A, Pardi F, Sidek NJ
15:15-15:30	Southern Java seaweed: Diversity and bioethanol production potential	Meinita MDN*, Marhaenia B, Winantoa T, Jeongb GT, Hong YK

CONTRIBUTED PAPERS NO. 2 - APRIL 22, 14:00-15:30 - ROOM ULUWATU 5

SUBJECT: CULTIVATION TECHNIQUES I

TIME	TITLE	AUTHOR(S)
14:00-14:15	Optimizing the production of <i>Porphyra umbilicalis</i> (Kützinger) in tank-based aquaculture	Green LA*, Neefus CD
14:15-14:30	Evaluation of <i>Gracilaria</i> cultivation techniques in Malaysia	Aishah SA @ Orosco CA*, Gan MH, Fong CF
14:30-14:45	Seasonal- and depth-dependent growth of cultivated Kelp (<i>Saccharina latissima</i>) in close proximity to Salmon (<i>Salmo salar</i>) aquaculture: Implications for macroalgae cultivation In Norwegian coastal waters	Forbord S*, Handå A, Wang X, Broch OJ, Dahle SW, Størs TR
14:45-15:00	New trends of <i>Gracilariopsis lemaneiformis</i> aquaculture in China	Lin AP*, Wang GC

15:00-15:15	Continental scale patterns of bacterial communities are a function of host-plant condition	Marzinelli EM*, Campbell AH, Zozaya Valdes E, Vergés A, Wernberg T, Caporaso JG, Thomas T, Steinberg PD
15:15-15:30	Settlement and growth of the European kelps <i>Laminaria digitata</i> and <i>Saccharina latissima</i> (Heterokontophyta) on plastic and textile materials	Kerrison PD*, Stanley MS, Black KD, Hughes AD

CONTRIBUTED PAPERS NO. 3 - APRIL 22, 14:00-15:30 - ROOM ULUWATU 6

SUBJECT: DISEASES AND GRAZERS

TIME	TITLE	AUTHOR(S)
14:00-14:15	Bleaching disease in a chemically-defended red seaweed: microbial mechanisms	Campbell AH, Fernandez ND, Case RJ, Thomas T, Steinberg PD*
14:15-14:30	Ecology and demography of bleaching disease in natural populations of a chemically defended seaweed	Campbell A-H*, Vergés A, Harder T, Steinberg P-D
14:30-14:45	Chemical relationship between red algae genus <i>Laurencia</i> and sea hare (<i>Aplysia dactylomela</i>) in the North Boreno Island (Sulu Sulawesi Seas)	Palaniveloo K*, Kamada T, Vairappan CS
14:45-15:00	How bacteria can improve algal cultures: the <i>Ectocarpus</i> example	Tapia JE*, Potin P, Correa JA
15:00-15:15	Climate-mediated changes in seaweed herbivory and the tropicalisation of temperate marine ecosystems	Vergés A*, Tomas F, Cebrian E, Kizilkaya Z, Sala E, Ballesteros E
15:15-15:30	Molecular evidence confirms the parasite <i>Congracilaria babae</i> (Gracilariaceae, Rhodophyta) from Malaysia	Ng PK*, Lim PE, Phang SM, Kato A

CONTRIBUTED PAPERS NO. 4 - APRIL 22, 14:00-15:30 - ROOM ULUWATU 7

SUBJECT: BIOACTIVE SUBSTANCES FROM SEAWEEDS I

TIME	TITLE	AUTHOR(S)
14:00-14:15	Growth promoting capability of naturally-inhabitant brown macro alga from Nusa Tenggara Barat	Aluh N*, Sunarpil, Kurnianingsih Rina, Sativa F E, Rahayu N
14:15-14:30	Harnessing bioactive components from seaweed fermentation	Chye FY*, Ooi PW, Padam BS, Sulaiman MS
14:30-14:45	Seaweed fertilizer for the management of root rotting fungi and root knot nematode affecting chili and cotton	Ehteshamul-Haque S*, Sultana V` Baloch GN, Ara J

14:45-15:00	Using waste material of seaweed <i>Sargassum polycystum</i> from pharmaceutical industry	Lubis A*, Lubis AH, Nasution HW
15:00-15:15	Evaluating <i>Microdictyon umbilicatum</i> bloom biomass as a compost conditioner for two Australian coastal plants, <i>Rhagodia candoleana</i> and <i>Banksia integrifolia</i> and the edible Radish, <i>Raphanus sativus</i>	de Mestre C*, Winberg P, Willis S
15:15-15:30	Hypolipidaemic potential of <i>Melanothamnus afaqhussainii</i>, a red alga from Karachi coast	Sultana V*, Ruqqia, Ara J, Ehteshamul-Haque S

CONTRIBUTED PAPERS NO. 5 - APRIL 22, 15:45-17:30 - ROOM ULUWATU 1

SUBJECT: ALIEN, INVASIVE AND BLOOM SPECIES

TIME	TITLE	AUTHOR(S)
15:45-16:00	Screening of bioactive enzymatic hydrolysates from different invasive French seaweeds	Bourgougnon N*, Hardouin K, Bedoux G, Baron R, Bergé JP
16:00-16:15	Updated understanding of the green tide events in the Yellow Sea in China	Liu F*, Pang SJ, Chopin T, Gao SQ
16:15-16:30	Variability of phlorotannins in the brown macroalga <i>Sargassum muticum</i>, introduced to Brittany (France): Effects of ontogeny, age and the part of the thallus	Zea C, Tanniou A, Noel L, Davoult D, Le Lann K, Critchley AT, Stiger-Pouvreau V*
16:30-16:45	Divergent ecological strategies determine different impacts on community production by two successful non-native seaweeds	Sagerman J*, Enge S, Pavia H, Wikström SA
16:45-17:00	An underestimated invader?: Ecological implications of <i>Undaria pinnatifida</i> for community structure and local food webs of New Zealand.	Suarez RJ*, Hepburn C, Hyndes G, McLeod R, Taylor RB, Hurd CL
17:00-17:15	The use of macroalgae as indicator for assessing the impact of eutrophication in La Reunion coral reefs (Indian Ocean)	Zubia M*, Cuet P, Nicet JB, Loiseau N, Chabanet P, Aymeric Bien, Har

CONTRIBUTED PAPERS NO. 6 - APRIL 22, 15:45-17:30 - ROOM ULUWATU 5**SUBJECT: AQUACULTURE IMPACTS AND BIOREMEDIATION**

TIME	TITLE	AUTHOR(S)
15:45-16:00	Bioavailability and sequestration of Dissolved Organic Matter (DOM) generated by large-scale macroalgae cultivation sites	Campbell I*, Hughes A, Stanley M, Davidson K
16:00-16:15	Hatchery-based shrimp and seaweed cultivation trials for water quality management	Gan MH*, Siti Aishah A @ Orosco CA , Choy MK , Faizah Shaharom' H
16:15-16:30	Techniques of multiple macroalgae cultivated alternately in the seawater pond for the purpose of habitat restoration	Li M*, Xu FSZ
16:30-16:45	Cost-effective IMTA: a comparison of the production efficiencies of mussels and seaweed	Holdt SL*, Edwards MD
16:45-17:00	<i>Saccharina</i> feat. <i>Mytilus</i> - How mussels support algae development	Roessner Y*, Schulz C, Krost P
17:00-17:15	Genetic information for increased potential and decreased ecological impact within seaweed farming development	Halling C*, Wikström SA, Grahn M, Tano, S, Zuccarello GC
17:15-17:30	Assessing the potential of <i>Sargassum siliquastrum</i> community recovery in Lung Lok Shui, Tung Ping Chau Marine Park, Hong Kong	Yeung CW*, Leung YH, Ang PO

CONTRIBUTED PAPERS NO. 7 - APRIL 22, 15:45-17:30 - ROOM ULUWATU 6**SUBJECT: SEAWEED RESOURCES AND HARVESTING IMPACTS**

TIME	TITLE	AUTHOR(S)
15:45-16:00	For 15 years, Olmix is involved in the valorization of algae, and its philosophy is based on the belief that they are the new “Green Gold”	Balusson H
16:00-16:15	Short-term effects of commercial seaweed harvesting on algal biomass and selected rocky	Beal B*, Ugarte R
16:15-16:30	The influence of habitat on the characteristics of the green macroalga <i>Caulerpa lentillifera</i> Agardh (Caulerpaceae, Chlorophyta)	Delan GG*, Legados JS, Cunado VD, Rica RLV, Pepito AR, Ilano AS
16:30-16:45	Spatial distributions of drifting seaweed rafts in East China Sea from late winter to early spring	Mizuno S*, Ajisaka T, Lahbib S, Kokubu Y, Alabsi MN, Komatsu T

16:45-17:00	Coalescence and natural chimerism in kelps	González AV*, Borrás-Chavez R, Flores V, Beltrán J, Santelices B
17:00-17:15	A regional synthesis: seaweed production in the Pacific region: current status and future trends	Jimmy R, Gomez RG*, Pickering T, Sign A, Metody A, Wani J, Anand K, Samuela Mario S

CONTRIBUTED PAPERS NO. 8 - APRIL 22, 15:45-17:30 - ROOM ULUWATU 7

SUBJECT: SEAWEED DIVERSITY & BIOGEOGRAPHY

TIME	TITLE	AUTHOR(S)
15:45-16:00	Spatial pattern of mitochondrial DNA variation in the marine red alga <i>Bostrychia intricata</i>	Muangmai N*, Zuccarello GC
16:00-16:15	An insight into the diversity of crustose brown algae (Phaeophyceae) in Malaysia and Lombok Island, Indonesia	Poong SW*, Lim PE, Sunarpi H, Phang SM
16:15-16:30	Analysis of growth and the determination of new strains of seaweed in Southeast Sulawesi	Ma'ruf K
16:30-16:45	RSLA – a macro algae multimetric eutrophication index	Pedersen A
16:45-17:00	Macroalgae cultivation in Europe: a review on kelp productivity	Quéguineur B*, Edwards M, Champenois J, Mooney KM
17:00-17:15	Variation in kelp size and associated biodiversity as a function of latitude, depth, and wave and current exposure	Rinde E*, Bekkby T, Christie H, Norderhaug KM, Gundersen H, Gitmark JK, Fagerli, CW
17:15-17:30	Diversity and distribution of <i>Kappaphycus</i> and <i>Eucheuma</i> in Indonesia	Sunarpi*, Mursal G, Aluh N, Lim E, Phang S-M

CONTRIBUTED PAPERS NO. 9 - APRIL 23, 11:45-13:30 - ROOM ULUWATU 1

SUBJECT: ECOPHYSIOLOGY I

TIME	TITLE	AUTHOR(S)
11:45-12:00	Effect of UVB on DNA content, germination and growth of an invasive <i>Undaria pinnatifida</i>	Piraud F*, Schmidt A, Ryan K
12:00-12:15	Inorganic carbon-use strategies and physiology of <i>Macrocystis pyrifera</i> under ocean acidification (OA)	Fernandez PA*, Roleda MY, Rautenberger R, Hepburn CD, Hurd CL

12:15-12:30	Heavy metal accumulation in four brown seaweeds (<i>Sargassum boveanum</i>, <i>S. lanceolatum</i>, <i>S. tenerrimum</i> and <i>S. wightii</i>) collected from different coastal areas of Karachi, Pakistan	Qari R
12:30-12:45	Ecophysiological plasticity of annual populations of giant kelp (<i>Macrocystis pyrifera</i>) under variable coastal environments	Buschmann AH*, Pereda SV, Varela DA, Rodríguez-Maulén J, López A, González-Carvajal L, Schilling M, Henríquez-Tejo EA, Hernández-González MC
12:45-13:00	Seaweeds: effects of water quality and sediment nutrients on seaweed growth and its chemical composition	Fenny AM*, Suhaimi MY, Noumie S
13:00-13:15	A novel closed system bubble column photobioreactor for detailed characterisation of micro and macroalgal growth	Holdt SL*, Christensen L, Iversen JLL
13:15-13:30	Ecological and physiological conditions of sugar kelp along coastal gradients, an important prerequisite for cultivation and management	Christie H

CONTRIBUTED PAPERS NO. 10 - APRIL 23, 11:45-13:30 - ROOM ULUWATU 5

SUBJECT: POST HARVEST AND PROCESSING

TIME	TITLE	AUTHOR(S)
11:45-12:00	Effect of drying temperature on the carrageenan extracted from <i>Kappaphycus alvarezii</i> (Rhodophyta, Gigartinales) cultivated in Brazil	Hayashi L*, de Faria GSM, Monteiro AR
12:00-12:15	Improvement of handling systems for maintaining quality of raw dried seaweeds	Joaquin AC*, Despi GC
12:15-12:30	Combined solar and wind energy for seaweed drying	Kamaruddin A*, Aep SU, Herman NR, Eri S, Salnida R
12:30-12:45	Osmotic dehydration of <i>Kappaphycus alvarezii</i>	Lee JS*, Tham HJ, Wong CS, Foo CH
12:45-13:00	Effects of improved post harvest handling on the morphology and chemical constituents of red algae, <i>Kappaphycus alvarezii</i> Doty	Vairappan CS, Ramachandram T*
13:00-13:15	Seaweed farming: Other factors affecting inferior product quality	Wismiarsi T*, Hatta H, Widyastuti DA

CONTRIBUTED PAPERS NO. 11 - APRIL 23, 11:45-13:30 - ROOM ULUWATU 6

SUBJECT: HYDROCOLLOID SEAWEED EXTRACTS

TIME	TITLE	AUTHOR(S)
11:45-12:00	Agars of some Gracilariods from the Philippines	Luhan MRJ*, Ferrer S, Montañño MN, Villanueva R
12:00-12:15	The photoprotective potentials of carrageenan unveiled	Mohamed SM*, Thevanayagam H, Chu WL
12:15-12:30	Seasonal variation in yield and properties of agar from <i>Hydropuntia edulis</i> (Rhodophyta: Gracilariales)	Sariego RS
12:30-12:45	Preparation and characterization of green polymer electrolyte based kappa carrageenan	Mobarak NN*, Ramli N, Ahmad A, Abdullah MP
12:45-13:00	Characterizing seaweed polysaccharides	Stringer DN
13:00-13:15	The effect of seaweed composite flour on the textural properties of dough and bread	Mamat H*, Matanjun P, Ibrahim S, Amin SFM, Hamid MA, Rameli AS

CONTRIBUTED PAPERS NO. 12 - APRIL 23, 11:45-13:30 - ROOM ULUWATU 7

SUBJECT: CULTIVATION TECHNIQUES II

TIME	TITLE	AUTHOR(S)
11:45-12:00	Seaweed cultivation for human food in Costa Rica: advances, difficulties and some surprises	Radulovich R*, Umanzor S, Cabrera R
12:00-12:15	Monitoring environmental factors influencing growth and health of farmed <i>Kappaphys alvarezii</i> (cottonii) in south-western Madagascar	Rougier A*, Ateweberhan M, Rakotomahazo C
12:15-12:30	Preliminary study on the tissue culture of <i>Kappaphycus alvarezii</i> : Malaysia experience	Sahidin S
12:30-12:45	Cultivation of sugar kelp <i>Saccharina latissima</i> in Norwegian coastal waters and use in biogas production	Skjermo J*, Broch OJ, Forbord S, Lien E, Reitan KI, Steinhovden KB, Handå A
12:45-13:00	Cultivation of <i>Saccharina latissima</i> in southern Europe: mariculture extending the distribution limits of a native species?	Sousa-Pinto I*, Azevedo I, Silva D, Oliveira P
13:00-13:15	Marine phycoculture in China	Wang FJ*, Sun XT , Wang WJ , Liu FL, Lang ZR
13:15-13:30	Shift from native to introduced <i>Eucheuma denticulatum</i> in coastal areas in Zanzibar	Tano S*, Halling C, Wikström SA, Buriyo A

CONTRIBUTED PAPERS NO. 13 - APRIL 23, 16:00-17:45 - ROOM ULUWATU 1

SUBJECT: CLIMATE CHANGE AND NATURAL SEAWEED BIOMASS

TIME	TITLE	AUTHOR(S)
16:00-16:15	Biomass production of <i>Sargassum</i> species in Teluk Kemang, Port Dickson, Malaysia	Belinda YML, Wong CL*
16:15-16:30	Climate change and large scale shifts in the geographical distribution of NE Atlantic Kelp forests	Norderhaug KM*, Fagerli CW, Moy F, Bekkby T, Sogn Andersen G, Hege Gundersen, Rinde E, Fredriksen S, Pedersen MF, Christie H
16:30-16:45	Macroalgal green tides on French Coast	Rossi N*, Ballu S, Perrot T
16:45-17:00	Continued decline of <i>Macrocystis pyrifera</i> stocks in Tasmania Australia as a result of climate change	Sanderson JC
17:00-17:15	Impacts of an extreme heat wave on marine communities in a tropical-temperate transition zone	Wernberg T*, Smale DA
17:15-17:30	Little-known red alga <i>Exophyllum wentii</i> from Bali Island, Indonesia: reproductive morphology and taxonomic reappraisal	Indy JR*, N'Yeurt ADR, Lenin AR, Hajime Y
17:30-17:45	Growth and reproductive pattern of <i>Sargassum</i> (Sargassaceae, Phaeophyceae) population in Nang Rong Beach, Chon Buri Province, Thailand	Noiraksar T*, Komatsu T, Hayashizaki K, Manthachitra V, Buranapratheprat A

CONTRIBUTED PAPERS NO. 14 - APRIL 23, 16:00-17:45 - ROOM ULUWATU 5

SUBJECT: NON-HYDROCOLLOID SEAWEED EXTRACTS

TIME	TITLE	AUTHOR(S)
16:00-16:15	Analysis of flavor components of <i>Porphyra yezoensis</i>	Lu QQ , Hu CM, Ma F, Zhu JY*
16:15-16:30	Alternative fiber source from <i>Gracilaria sp.</i> and <i>Eucheuma</i> for Papermaking	Machmud MN*, Fadi F, Fuadi Z, Hamdani, Kokarkin C
16:30-16:45	Elemental analysis of <i>Kappaphycus alvarezii</i> (Doty) Schmitz from Batangas and Zamboanga, Philippines Using X-ray fluorescence	Montaño MN*, Olano DE, San Jose P, Bornilla EJ, Lloren R, Siringan F
16:45-17:00	Green sugar-based surfactants and monomers from seaweed resources	Sassi J-F, Benvegnu T, Roussel M, Plusquellec D, Hendrickx J, Lerat Y*
17:00-17:15	Crude proteins, total soluble proteins and total phenolic contents of fifteen varieties of seaweed from Semporna, Sabah, Malaysia	Sulaiman MR*, Ahmad F, Saimon W, Chye FY, Matanjun P

17:15-17:30	Does seaweed produce the same pigment content when it grows in different location? A study from the three regions of seaweed producer in Indonesia (Ambon Island, Jepara Beach, and Madura Island)	Limantara L, Mucko P, Indriatmoko, Adhiwibawa MA, Heriyanto, Indrawati R, Prihastyanti MNU, Brotosudarmo THP*
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CONTRIBUTED PAPERS NO. 15 - APRIL 23, 16:00-17:45 - ROOM ULUWATU 6

SUBJECT: SOCIO-ECONOMIC IMPACTS OF SEAWEED FARMING I

TIME	TITLE	AUTHOR(S)
16:00-16:15	Issues and challenges in the seaweed industry in Sabah at micro and macro levels	Bahron A
16:15-16:30	Seaweed biotechnology and impact on local communities in Sabah east coast	Suadik M*, Lunkapis GJ, Porodong P, Rosli N
16:30-16:45	Trusting each other? Seaweed farmers and middlemen in Semporna Islands, Sabah	Alin JM*, Mahmud R
16:45-17:00	Seaweed farming in a social-ecological context: learning from the Zanzibar experience	Fröcklin S*, de la Torre-Castro M, Lindström L, Jiddawi NS, Msuya FE
17:00-17:15	Managing seaweed supply chain risks from Indonesian source to global market	Mulyati H*, Geldermann J
17:15-17:30	Seaweeds' topic in teaching and learning activity of education for its sustainable prosperity	Fitriah S
17:30-17:45	Hugging the coast: an exploration of liminal living in the Sangihe archipelago, Sulawesi, Indonesia	Burges-Watson D

CONTRIBUTED PAPERS NO. 16 - APRIL 23, 16:00-17:45 - ROOM ULUWATU 7

SUBJECT: BIOACTIVE SUBSTANCES FROM SEAWEEDS II

TIME	TITLE	AUTHOR(S)
16:00-16:15	Biological activities of <i>Ulva</i> sp. enzymatic hydrolysates: relation between observed activities and composition of extracts	Hardouin K*, Bedoux G, Nyvall-Collen P, Bourgoignon N
16:15-16:30	Antibacterial and <i>in vivo</i> immunomodulating properties of peptides derived from selected Seaweeds in Sabah, Malaysia	Cheong BE*, Pan SY, Lee PJ
16:30-16:45	Sulfated and pyruvylated galactans from Caribbean green seaweeds with anticoagulant activity	Ciancia M*, Arata PX, Quintana I, Canelón D, Suarez A, Compagnone R

16:45-17:00	Creation of an improved natural absorptive material from the union of algal polysaccharides and clays	Laza AL, Nyvall-Collen P*, Demais H, Brendlé J
17:00-17:15	Maximizing polyunsaturated fatty acid productivity through optimized culture and post-harvest processing of the marine seaweed <i>Derbesia tenuissima</i>	Magnusson M*, Mata L, Paul N, de Nys R

CONTRIBUTED PAPERS NO. 17 - APRIL 25, 11:45-13:30 - ROOM ULUWATU 1

SUBJECT: MOLECULAR BIOLOGY AND SYSTEMATICS I

TIME	TITLE	AUTHOR(S)
11:45-12:00	Development of RAPD SCAR marker to assist seed selection for <i>Kappaphycus alvarezii</i>	Anggraeni SR*, Riyantini I
12:00-12:15	Systematics of <i>Bangia</i> from China based on small subunit ribosomal RNA gene sequences	Deng YY, Yang LE, Shen ZG, Zhu JY*
12:15-12:30	The <i>Gibsmithia hawaiiensis</i> complex (Dumontiaceae, Rhodophyta): Molecular phylogeny, taxonomic characterization, and the proposal of new species	Gabriel D*, Draisma SGA, Sauvage T, Schmidt W, Fredericq S
12:30-12:45	Intraspecific genetic diversity of <i>Sargassum polycystum</i> (Sargasaceae, Heterokontophyta) C. Agardh in the Asia-Pacific region based on mtDNA COI and cox3	Kantachumpoo A, Noiraksar T, Uwai S, Komatsu T
12:45-13:00	Transcriptome analysis of male and female gametes of the brown alga, <i>Syctosiphon lomentaria</i>	Han JW*, Klochkova TA, Shim JB, Motomura T, Nagasato C, Kim GH
13:00-13:15	<i>Kappaphycus</i> sp. nov., a new species of <i>Kappaphycus</i> (Gigartinales, Rhodophyta) from Malaysia	Tan J*, Lim PE, Rahiman A, Phang SM

CONTRIBUTED PAPERS NO. 18 - APRIL 25, 11:45-13:30 - ROOM ULUWATU 5

SUBJECT: BIOFUELS FROM SEAWEEDS

TIME	TITLE	AUTHOR(S)
11:45-12:00	Chemical composition and potential for ethanol production from Thai species of seaweed	Chirapart A*, Praiboon J, Puangsombat P, Pattanapon C, Nunraksa N
12:00-12:15	Total lipid and fatty acid composition of seaweeds for the selection of species for oil-based biofuel and bioproducts	Gosch BJ*, Magnusson M, Paul NA, de Nys R

12:15-12:30	Acid hydrolysis process of seaweed polysaccharide compound <i>Caulerpa racemosa</i> , <i>Sargassum crassifolium</i> and <i>Gracilaria salicornia</i>	Kawaroe M*, Prartono T, Kusuma AH
12:30-12:45	WinSeaFuel project : Biomethane and other bio product developments from offshore seaweed culture.	Marfaing H
12:45-13:00	AlgoChemicals to replace PetroChemicals ?	Sassi JF, Lerat Y*
13:00-13:15	Bioconversion of <i>Kappaphycus alvarezii</i> via sasad in the production of bioethanol	Mansa RF*, Helvie M, Fong KF, Sipaut CS, Dayou J, Yasir SM

CONTRIBUTED PAPERS NO. 19 - APRIL 25, 11:45-13:30 - ROOM ULUWATU 6

SUBJECT: BIOACTIVE SUBSTANCES FROM SEAWEEDS III

TIME	TITLE	AUTHOR(S)
11:45-12:00	Antioxidant activities of the selected seaweeds from Tuticorin Coast, Tamilnadu, India	Anantharaman P*, Parthiban C, Somasundaram ST, Balasubramanian T
12:00-12:15	Photoprotective substances from red macroalgae: eco-designed extracts used in cosmetics	Bedoux G*, Hardouin K, Marty C, Vandanjon L, Bourgoignon N
12:15-12:30	Experimental plan to assess influence of key parameters in the extraction of several active fucoidan fractions	Brebion J*, Hennequart F, Tuohy MG
12:30-12:45	Seaweed extracts as prebiotic additives: an investigation of the correlation between extraction methods, extract composition and bioactivity	Brebion J*, Hennequart F, Tuohy MG
12:45-13:00	Bioflavor formation in an edible algae, <i>Saccharina japonica</i>	Boonprab K*, Yotsukura N, Katsuyama Y, Takata Y, Kajiwara T
13:00-13:15	Chemical composition, antioxidant activities, and hypolipidaemic properties of red seaweed, <i>Gracilaria changii</i>	Chan PT*, Matanjun P, Yasir MS, Tan TS

CONTRIBUTED PAPERS NO. 20 - APRIL 25, 11:45-13:30 - ROOM ULUWATU 7

SUBJECT: INTEGRATED AQUACULTURE & INTRODUCTIONS

TIME	TITLE	AUTHOR(S)
11:45-12:00	Growth and nitrogen storage of South Australian macroalgae with potential for IMTA	Wiltshire KH*, Gurgel CFD, Deveney MR, Tanner JE

12:00-12:15	Risk assessments of non-indigenous marine algal introductions in the western Pacific: morphospecies vs. genetically identified species	Schils T*, Simeon AE, Saunders GW, Leliaert F, De Clerck O
12:15-12:30	Cultivation development and bioremediation roles of seaweed <i>Gracilaria</i> in the mariculture waters in China	Yang Y
12:30-12:45	Eutrophication changes macroalgal composition resulting in increased production of polybrominated compound in the Baltic Sea food web	Kautsky L*, Asplund L, Löfstrand K, Haglund P
12:45-13:00	<i>Eisenia arborea</i> as abalone diet on an IMTA farm in Baja California, México	Zertuche-González JA*, Sánchez-Barredo M, Guzmán-Calderón JM, Altamirano-Gómez Z

CONTRIBUTED PAPERS NO. 21 - APRIL 25, 16:00-17:45 - ROOM ULUWATU 1

SUBJECT: REPRODUCTIVE BIOLOGY

TIME	TITLE	AUTHOR(S)
16:00-16:15	Study on life history of <i>Scytosiphon lomentaria</i> and its cultivation in China	Gong XZ*, Xing YZ, Gao W
16:15-16:30	Characterization of a female gamete recognition protein, Rhodobindin, of <i>Aglaothamnion callophyllidicola</i> (Rhodophyta)	Kim GH*, Jung MG, Shim JB, Shim EY, Han JW
16:30-16:45	A new <i>Saccharina</i> variety “Huangguan No. 1”: breeding process, economic traits evaluation and commercial cultivation	Liu FL*, Wang FJ, Sun XT, Wang WJ, Liang Z R
16:45-17:00	Studies on morphogenesis in the early stages of <i>Sargassum aquifolium</i> and <i>Sargassum oligocystum</i> (Sargassaceae, Phaeophyceae)	Noiraksar T*, Lewmanomont K, Ogawa H, Komatsu T, Hayashizaki K
17:00-17:15	Latest advances in variety breeding and seedling production of the brown seaweed <i>Undaria pinnatifida</i> (Phaeophyceae) at the principal farming grounds of China	Shan TF*, Pang SJ, Li J, Gao SQ
17:15-17:30	Meiosis and early morphogenesis pattern of <i>Bangia</i>	Shen ZG, Lu QQ, Zhou W, Deng YY, Zhang T, Zhu JY*

CONTRIBUTED PAPERS NO. 22 - APRIL 25, 16:00-17:45 - ROOM ULUWATU 5**SUBJECT: ECOLOGY (POPULATION & COMMUNITY)**

TIME	TITLE	AUTHOR(S)
16:00-16:15	The environmental adaptability and reproduction properties of invasive green alga <i>Codium fragile</i> from Nan'ao Island, South China Sea	Ding LP, Wang XL, Huang BX*, Chen WZ, Chen SW
16:15-16:30	Inventory of <i>Gracilaria spp.</i> in selected coastal areas in Luzon	Ferrer MSR*, Moises MT, Gamboa EE, Mondragon JS, Rosario CR
16:30-16:45	Comparison of photosynthetic production of the brown seaweed <i>Fucus vesiculosus</i> and <i>Fucus radicans</i> in the Baltic Sea	Kotta J*, Pärnoja M, Orav-Kotta H, Kotta I
16:45-17:00	Understanding the spatial impact of pressure sources on littoral macroalgae communities	Mannoni PA
17:00-17:15	Effects of macroalgae on nearshore fish assemblages in Gouqi Island, China	Wang L, Zhang SY, Wang ZH, Wang K, Lin J, Gong FX
17:15-17:30	Spatio-temporal variations of diterpene production in the brown macroalga <i>Bifurcaria bifurcata</i> from the western coasts of Brittany (France)	Le Lann K*, Rumin J, Cerantola S, Culioli G, Stiger-Pouvreau V

CONTRIBUTED PAPERS NO. 23 - APRIL 25, 16:00-17:45 - ROOM ULUWATU 6**SUBJECT: SEAWEEDS AS FOOD AND FEED I**

TIME	TITLE	AUTHOR(S)
16:00-16:15	Amino acid production in seaweeds for animal feeds and bio-based chemicals	Angell AR*, Paul NA, Mata L, de Nys R
16:15-16:30	Evaluation of chemical and physical properties of edible <i>Gracilaria</i> species available in Sri Lanka	Jayasinghe PS*, Pahalewataarchi V, Ranaweers KKDS
16:30-16:45	Myth and reality of future seaweed markets around the world	Lerat Y
16:45-17:00	Seaweed ingredients from Indonesia and market entry in Europe with SIPPO	Duerbeck K

CONTRIBUTED PAPERS NO. 24 - APRIL 25, 16:00-17:45 - ROOM ULUWATU 7

SUBJECT: ECOPHYSIOLOGY II

TIME	TITLE	AUTHOR(S)
16:00-16:15	Studies on the photosynthetic physiology of <i>Sargassum thunbergii</i> seedling	Liang ZR, Wang FJ*, Sun XT, Wang WJ, Liu FL, Liu K, Ma XY
16:15-16:30	Seasonal variations in growth and carrageenan yield and properties of <i>Kappaphycus alvarezii</i> (Doty) Doty in Ramanathapuram, Tamilnadu, India	Periyasamy C*, Anantharaman P, Balasubramanian T
16:30-16:45	Efficacy of plant growth regulators on callus induction rate of <i>Sargassum polycystum</i> C. Agardh	Rao AS
16:45-17:00	Coalescence events in holdfast of <i>Lessonia berteroana</i> Montagne	Rodríguez D, Oróstica M, Vásquez JA*
17:00-17:15	Physiological plasticity of <i>Dictyota kunthii</i> (Phaeophyceae) to copper excess	Sordet C*, Contreras-Porcía L, Lovazzano C, Goulitquer S, Andrade S, Potin P, Correa JA
17:15-17:30	Study on photosynthetic characteristics in <i>Porphyra yezoensis</i> thallus growth process	Zhang T, Li JF, Ma F, Lu QQ, Shen ZG, Zhu JY*
17:30-17:45	Light dependence growth inhibitory activity of extracellular pink pigment isolated from tropical freshwater cyanobacteria <i>Oscillatoria</i> sp.	Karseno*, Harada K, Bamba T, Hirata K

CONTRIBUTED PAPERS NO. 25 - APRIL 26, 10:00-11:30 - ROOM ULUWATU 1

SUBJECT: SOCIO-ECONOMIC IMPACTS OF SEAWEED FARMING II

TIME	TITLE	AUTHOR(S)
10:00-10:15	Social impact on coastal fisher women by seaweed farming (<i>Kappaphycus alvarezii</i> (Doty) Doty) in Tamilnadu, India	Anantharaman P*, Periyasamy C, Balasubramanian T
10:15-10:30	Competing for spaces - The case of seaweed farming and Semporna Island Parks within the Coral Triangle Initiatives	Gaim JL
10:30-10:45	Economic assessment of seaweed production	Mail R
10:45-11:00	Economic returns from seaweed (<i>Kappaphycus alvarezii</i>) family farming in Tun Sakaran Marine Park, Semporna, Sabah	Razali DDE*, Alin JM, Bahron A, Mahmud R

11:00-11:15	Critical review of the European macroalgae industry	Rebours C*, Meland M, Frangoudes K, Jacob C, Mesnildrey L, Lesueur M, Pien S, Marques A, Jesus D, Santos R, Atack T, Dunningham J, Gallastegi I, Walsh M, Abreu MH, Maguire J
11:15-11:30	Seaweed industry of Semporna: Economic function base on clustered community and culture	Abdul Rahman AT, Yasir S, Salleh N, Tamring BAM, Aisah

CONTRIBUTED PAPERS NO. 26 - APRIL 26, 10:00-11:30 - ROOM ULUWATU 5

SUBJECT: MOLECULAR BIOLOGY AND SYSTEMATICS II

TIME	TITLE	AUTHOR(S)
10:00-10:15	Identification of <i>Ulva</i> using DNA barcoding – an alternative approach to morphological techniques for cryptic and phenotypically variable taxa	Lawton RJ*, Mata L, Paul N, de Nys R
10:15-10:30	Molecular characterization of <i>Eucheuma denticulatum</i>, <i>Kappaphycus alvarezii</i> and <i>Kappaphycus striatum</i> using single locus DNA markers	Rasli SMM, Lie GJCW, Lym WYT, Rodrigues KF*
10:30-10:45	DNA barcoding (COI) of <i>Gracilaria</i> and related species in the Philippines	Villamor LP*, Lluisma AO
10:45-11:00	Characterization and subcellular localization of a nucleus-encoded <i>cbbX</i> gene in the gametophytes of <i>Laminaria japonica</i> Aresch.	Xie WY, Ye RX, Shi WW, Bi YH, Zhou ZG*
11:00-11:15	Characterization of α-carbonic anhydrase (CA) gene and subcellular localization of this α-CA in the gametophytes of <i>Laminaria japonica</i>	Ye RX, Shi WW, Bi YH, Zhou ZG*
11:15-11:30	Characterization of the AOX gene in <i>Porphyra haitanensis</i> (Rhodophyta) and cyanide-resistant respiration analysis	Zhang B, Zhaojun H, Wang Guangce*

CONTRIBUTED PAPERS NO. 27 - APRIL 26, 10:00-11:30 - ROOM ULUWATU 6

SUBJECT: BIOACTIVE SUBSTANCES FROM SEAWEEDS IV

TIME	TITLE	AUTHOR(S)
10:00-10:15	Seaweed extracts as a natural control against fish ectoparasites	Mata L*, Hutson K, Paul N, de Nys R

10:15-10:30	Malaysian marine seaweed as sources of bioactive compounds for development of functional foods	Matanjun P*, Mohamed S, Mustapha NM, Muhammad K, Teng CP, Ling NS
10:30-10:45	Evaluation of antioxidant potential of some seaweeds from Karachi coast using different assays	Tariq A, Ara J*, Sultana V, Ehteshamul-Haque S
10:45-11:00	Structural diversity and geographical distribution of halogenated secondary metabolites in red algae, <i>Laurencia nangii</i> Masuda in the coastal waters of North Borneo Island (Rhodomelaceae, Ceramiales)	Vairappan CS, Zani I*, Kamada T
11:00-11:15	Potentiality of using spreading <i>Sargassum</i> species from Jepara, Indonesia as an interesting source of antibacterial and antioxidant compounds: a preliminary study	Widowati I*, Susanto A.B, Puspita M, Stiger-Pouvreau V, Bourgougnon N
11:15-11:30	Assessment of the spatial variability of phenolic contents and associated bioactivities of <i>Sargassum muticum</i> along a latitudinal gradient	Tanniou A*, Vandanjon L, Incera M, Serrano Leon E, Husa V, Engelen A, Le Grand J, Nicolas JL, Walsh R, Poupart N, Bourgougnon N, Stiger-Pouvreau V

CONTRIBUTED PAPERS NO. 28 - APRIL 26, 10:00-11:30 - ROOM ULUWATU 7

SUBJECT: SEaweEDS AS FOOD AND FEED II

TIME	TITLE	AUTHOR(S)
10:00-10:15	Development of sustainable edible seaweed in France: an opportunity to integrate a healthy vegetable in the western diet	Marfaing H
10:15-10:30	Green caviar or sea grapes (<i>Caulerpa racemosa</i>), an important seaweed crop in Fiji, Samoa and Tonga: its potential now and for the future	Morris C*, Bala S, South GR, Lako J, Simos T, Paul N
10:30-10:45	On the human consumption of the red seaweed dulse (<i>Palmaria palmata</i> (L.) Kuntze)	Mouritsen OG*, Dawczynski C, Duelund L, Jahreis G, Vetter W, Schröde M
10:45-11:00	The evaluation of Irish macroalgae as supplements in Atlantic salmon (<i>Salmo salar</i>) diets	Wan AHL*, Soler-Vila A, Fitzgerald R, Johnson M J
11:00-11:15	Utilisation of <i>Undaria pinnatifida</i> from Southern New Zealand	White WL*, Hamid N, Lu J, Robertson J