

# 3<sup>rd</sup> International Conference on Coastal Biotechnology

— While global change and human activities reaching mesoscale, protection as well as utilization of coastal bioresources towards being integrated

# Programs & Abstracts

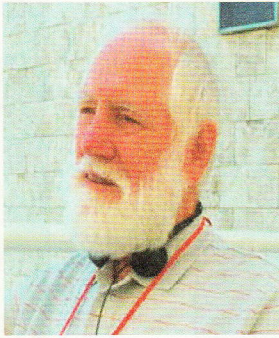
ICCB 2015

August 18-21, 2015 Qingdao, China





## Plenary Speakers



**John van der Meer**

Research Officer and Research Manager,  
National Research Council of Canada, Canada  
Lecture title: A rainbow of algal tides and some silver  
linings



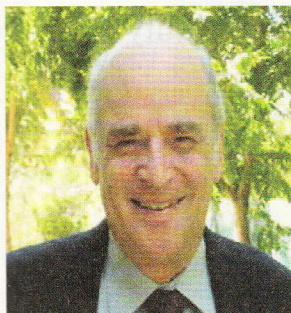
**Hong-nong Chou**

Professor of Fisheries Science Research Institute of  
National Taiwan University,  
Taiwan, China  
Lecture title: A nature revelation and biotechnology of  
coastal zone algae



**Yuanguang Li**

Founder and head of Marine Bioprocess Engineering  
Group, State Key Lab of Bioreactor Engineering, East  
China University of Science and Technology (ECUST), P.  
R. China  
Lecture title: Integrated microalgae culture process to  
produce both high value products and biofuels as well as  
CO<sub>2</sub> fixation



**John R. Benemann**

CEO, MicroBio Engineering, Inc, USA  
Lecture title: Use of algae for coastal environmental  
protection





**Shouyi Zheng**

Academician, Institute of Oceanology,  
Chinese Academy of Sciences, P. R China

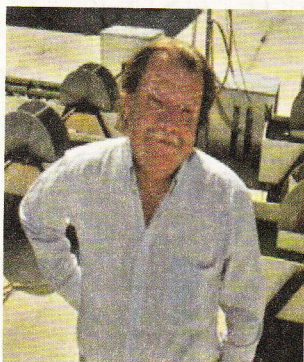
Lecture title: Tiny giants of the great seas



**Yoshihiro Shiraiwa**

Professor of Plant Physiology and Metabolism, Faculty of  
Life & Environmental Sciences, University of Tsukuba,  
Japan

Lecture title: Metabolomic and proteomic study on lipid  
production mechanism-an approach toward biofuel  
production by marine microalgae



**Michael A. Borowitzka**

Past President of the International Society of Applied  
Phycology

Emeritus Professor of Marine Phycology at Murdoch  
University, Perth, Australia

Lecture title: Strategies to improve the sustainability  
and reduce the cost of microalgal culture



Plenary	Chair: Michael A. Borowitzka      Secretary: Chengcheng Li		
	14:00-14:40	Plenary 4      John R. Benemann Use of algae for coastal environmental protection	
Chairs: Brian Boutin, Wenhua Liu			
Session 1 Changes in Coastal Environment, Biodiversity and Bioresources	14:40-15:10	Keynote 1      Brian Boutin Investing in coastal habitat restoration and conservation to achieve multiple objectives and enhance ecosystem service delivery	
	15:10-15:40	Keynote 2      Wenhua Liu Chinese white dolphin ( <i>Sousa chinensis</i> ) in China: status and future	
	15:40-16:00	Tea break	
	16:00-18:00	Orals	1      Zhihong Xie IcpB, a soluble chemoreceptor involved in symbiosis via haem-based oxygen sensing in <i>Azorhizobium caulinodans</i>
			2      Jialin Yang Exploitation and protection of marine organism in Beibu Gulf
			3      Shixiang Bao Studies on identification of <i>Sargassum</i> spp. off the coast of Hainan Island and the molecular systematic study
			4      Tao Liu Complete plastid genome of the brown alga <i>Costaria costata</i>
5      Jing Wang Protective effect and mechanism of fucoidan extracted from <i>Laminaria japonica</i> on Parkinson's disease			
6      Weihua Jin The structure activity relationship between polysaccharides from <i>Sargassum thunbergii</i> and anti-tumor activity			
7      Jianheng Zhang Biological blooming mechanism of the <i>Ulva</i> macroalgal blooms in the Yellow Sea, China			
W1 Sino-Pacific Forum on Coastal Bioindustry Chairs: Guodong Yuan, John V. Tyrrell, et al. Meeting room 215		W2 Jerusalem Artichoke Industry Workshop Chairs: Yuetao Yi, Lili Li Meeting room 213	



**ICCB 2015—While global change and human activities reaching mesoscale, protection as well as utilization of coastal bioresources towards being integrated**

Conference hall of 1st Floor, Fu Xin Hotel

20-8-2015

Time	Type	Speaker	Title
Chair: John van der Meer			
8:00-8:40	Plenary 5	Shouyi Zheng	Secretary: Yunlong Pang Tiny giants of the great seas
Chairs: Amha Belay, Xiaojun Yan Secretary: Yunlong Pang			
8:40-9:10	Keynote 3	Pengcheng Li	Extract, structure modification and insecticidal and anti-microbial activities of active substances from marine creatures
9:10-9:40	Keynote 4	Zhenming Chi	Bio-alkane, the Renewable Fuel Production by Marine Yeasts
9:40-10:00	Tea break		
10:00-10:30	Keynote 5	Xiaojun Yan	Quantitative profiling of phytohormones and betaines in acroalgae and commercial seaweed fertilizer
9:05-9:25	Orals	1	Xingguo Liang Cut-grow DNA amplification and its application
		2	Tanzeel Huma Peripheral administration altered plasma testosterone levels in adult male common carp ( <i>Cyprinus carpio</i> ). A clue for increasing fresh and marine water fish breed
		3	Fiaz Ahmad Developing epigenetic role of DNA methylation for plant stress regulation
		4	Bingnan Han Secondary metabolites from the Xisha marine sponges and associated microbial: structural and bioactive diversities
		5	Fuhua Li Diversity and characteristics of anti-lipopolysaccharide factors (ALFs) in shrimp and its potential application in aquaculture
		6	Shi Wang The evolutionary trajectories of bilaterian animals: insights from the scallop genome
		7	Dianfu Chen A La-related protein controls cell cycle arrest by nuclear retrograde of tRNA during diapause formation of artemia
12:30-13:30	Lunch		





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Conference hall of 3rd Floor, Fu Xin Hotel

		Chair: John R. Benemann		Secretary: Qi Liu		
Plenary	14:00-14:40	Plenary 6	Yoshihiro Shiraiwa	Metabolomic and proteomic study on lipid production mechanism-an approach toward biofuel production by marine microalgae		
	14:40-15:20	Plenary 7	Michael A. Borowitzka	Strategies to improve the sustainability and reduce the cost of microalgal culture		
15:20-15:40 Tea break						
		Chairs: Namik K. Aras, Song Xue		Secretary: Qi Liu		
Session 3 Opportunities and Challenges in Coastal Bioindustry	15:40-16:10	Keynote 6	Zhaopu Liu	The theory and practice of coastal saline soil agriculture industry chain		
	16:10-16:40	Keynote 7	John Tyrrell	New Zealand Blue: New algal opportunities		
	17:10-18:40	Orals	Keynote 8	Amha Belay	30 Years of <i>Spirulina</i> production at earthrise	
			1	Song Xue	Controllable microalgae cultivation	
			2	Changhong Yao	Application of hydrothermal carbonization hydrolysates for <i>Arthrospira</i> cultivation	
			3	Guangming Wang	The development and prospection of castor breeding in China	
4	Heng Yin	Alginate oligosaccharides preparation and application				
5	Huifeng Peng	Quantitative transcriptome analysis reveals global regulation in response to CO <sub>2</sub> supplementation in oleaginous microalga <i>Coccomyxa subellipsoidea</i> C-169				
6	Chao Ma	A novel process development for fractional extraction of entire nutrients from fresh mud of <i>Spirulina platensis</i>				
Conference Summary	18:40-19:00	Conference Summary	Zhengyi Liu			
19:00-21:00 Banquet (Hemingway Restaurant)						

