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PROGRAM BOOK

18 - 21 NOVEMBER 2019 SERI PACIFIC HOTEL, KUALA LUMPUR, MALAYSIA

Organizers:

Co-organizers:















ASEAN-FEN INSTITUTIONAL MEMBERS

Core Members





















Associate Members









































+Members









2011-2018 ASEAN-FEN IFS ORGANIZERS



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ASEAN-FEN Chairman's Message



Prof. Dr. Happy Nursyam

Welcome to IFS2019 to first-timers and returners to this annual symposium. I am so humbled to see that we have managed to organize the IFS event for nine years. As it is going to turn its first decade anniversary next year, I believe we have achieved more than the milestones that ASEAN-EEN has set since its inception. The theme for this year's IFS suits the journey that ASEAN-FEN has taken its members on. I can't thank enough ASEAN-FEN board members and Universiti Putra Malaysia for working hard to ensure we would be able to meet again through this avenue this year. My sincere gratitude also goes to co-organizers of the event namely Universiti Malaysia Terengganu, Universiti Sains Malavsia, Universiti Malaysia Sabah and International University Islam Malaysia. May you all have a great week in Kuala Lumpur!

Dean of Faculty of Agriculture UPM's Message



Prof. Dr. Abdul Shukor Juraimi

Dear colleagues and friends of IFS2019. It is an honor for Universiti Putra Malaysia to host the annual IFS event. We would like to specially thank ASEAN-FEN for the trust and Department of Aquaculture (JAQ) of our faculty for their excellent work to ensure the success of IFS2019. The fisheries and aquaculture industries like any other bio-based industries are facing challenges year by year. Biosafety and bio-security are among them. These issues require multidisciplinary approaches and tools to understand and then solve them. Through an avenue such as this, we believe exchange of ideas and knowledge would initiate productive and continued work in light of our effort to overcome the overarching challenges. I wish you a productive symposium and have a pleasant stay in Kuala Lumpur.

IFS2019 Organizing Committee Chairman's Message



Prof. Dr. Aziz Arshad

Welcome to IFS2019 and Malaysia. First and foremost, on behalf of the organizing committee, I would like to thank the ASEAN-FEN members for the trust they have in us in organizing IFS for this year. Thanks are also due to our corporate sponsors that have helped us to make this event a successful one. The past IFS events have set a high standard for this year's organizing committee to follow suit. Hence the IFS2019 theme "A New Horizon in fisheries and aquaculture through education, technology and innovation". For this year's IFS, we have ten parallel sessions including two that are generously sponsored by Global Antimicrobial Resistance Innovation Fund (GAMRIF). United Kingdom and International Development Research Centre (IDRC), Canada on antimicrobial resistance, and by Ocean University of China on seaweed. Interestingly, we have received more than 500 participations who are not only of ASEAN-FEN institution members. With more than 200 oral presentations and 150 poster presentations, I believe we are going to have a tremendous stream of knowledge-sharing sessions ahead of us. We're set to sail. Have a productive symposium and a pleasant stay in Kuala Lumpur!

IFS2019 STEERING ORGANIZING COMMITTEE

ASEAN-FEN BOARD MEMBERS

Assoc. Prof. Dr. Sukree Haisamae (Advisor)

Prof. Dr. Mazlan b. Abd. Ghaffar (Advisor)

Prof. Dr. Happy Nusyam (Chairman)

Assoc. Prof. Dr. Truong Quoc Phu (Co-Chairman)

Prof. Dr. Yeong Yik Sung (Secretary)

Dr. Tan Min Pau (Assistant Secretary)

Prof. Dr. Siti Azizah Mohd. Nor (Treasurer)

Prof.Dr. Najiah Binti Musa (Treasurer)

Zul-Atfi Hashim (Webmaster)

ASEAN-FEN LOCAL INSTITUTIONAL MEMBERS

Prof. Dr. Aziz Arshad (UPM)

Prof. Dr. Mohd Effendy Abd Wahid (UMT)

Prof. Dr. Amirul Al-Ashraf Abdullah (USM)

Assoc. Prof. Dr. Sitti Raehanah Muhamad Shaleh (UMS)

Prof. Dr. Shahbudin Saad (IIUM)

IFS2019 LOCAL ORGANIZING COMMITTEE

CHAIRPERSON

ASSOC. PROF. DR. YUZINE ESA

VICE CHAIRPERSON

ASSOC. PROF. DR. INA SALWANY MD YASIN

SECRETARIAT

Dr. Mohd zafri hassan

Dr. Zarirah zulperi

NUR SHAFIKA MAULAD ABD JALIL

NORAZNITA SHARIFUDDIN

FINANCE

DR. NUR LEENA WONG WAI SIN

FADZILLAH ABD RAZAK

SCIENTIFIC

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Dr. Annie Christianus

PROF. DR. MOHD SALLEH KAMARUDIN

PROF. DR. MUTA HARAH ZAKARIA@YA

ASSOC. PROF. DR. S.M. NURUL AMIN

EMLIA TAMBER

FARIDAH MUDA

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Dr. Mohammad fadhil syukri ismail

PROF. DR. FATIMAH MD YUSOFF

NORHAFIZAH ROSLAN

NUR BAHIAH MOHAMED HARIS

DR. CLEMENT ROY DE CRUZ

PUBLICITY AND MULTIMEDIA

Dr. Rozihan mohamed

Dr. Chong chou min

ROSZAINAL YUSOP

ASSOC. PROF. DR. MOHAMMAD NOOR AMAL BIN AZMAI

LOGISTIC

Dr. IZHARUDDIN SHAH KAMARUDDIN

MOHAMAD ZAWAWI IDRIS

MUHAMAD RIZUAN MOHD HUSIN

NOOR AZMAN MD ALI

AHMAD AFEEQ ROSLAN

ROSLAN HANIFF MALIM@HALIM

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Shahudin sulaiman

VOLUNTEERS

Najib Syahidan Roslan

Nuruljannah Mohd Puaad

Nurul Atikah Wahid

Nor Syuhaida Isa

Wizilla Janti Anak Joshua

Nur Jasmin Mohd Yaminudin

Nurul Syafiqah Mohd Yaminudin

Puvaneswari Puvanasundram

Nur Amalina Samat

Olivia Lee Wye Sze

Chean Mei Yun Beryl

Muhammad Azfar Ismail

Siti Nur Ain Mohamed Azahar

Khairun Waheeda Ahmad Ismail

Nawwar Zawani Mamat

Muhamad Sofie Mohd Hafiz Ngoo

Lee Jing Yie

Mohamad Azzam Mohd Sayuti

Lukman Basri

Nurliyana Mohamad

Jumria Sutra

Mohd. Adib Ismail

Hani Syahirah Burhanuddin

Muhammad Nasri Bin Ishak

Muhd Aliff Aiman Asrap

Mohd Ihsanuddin Bin Ahmad @ Abdullah

Wan Muhamad Amiruddin Bin W. Jusoh

Wan Siti Nadiah Binti Ibrahim

Azrinsuhaila Binti Amram

Nur Hazigah Salleh Huddin

Muhammad Aizzat Md Hanafi

PROGRAM RUNDOWN ASEAN-FEN 9th INTERNATIONAL FISHERIES SYMPOSIUM 2019 (IFS2019) 18 – 21 NOVEMBER 2019 SERI PACIFIC HOTEL, KUALA LUMPUR

Date	Time (hrs.)	Activity	Venue
910	0900 - 1700	EU H2020 EURASTiP Education Workshop	Bunga Rooms
ber 20 day)	1400 - 1700	ASEAN-FEN Education Workshop	Bunga Raya Room
18 November 2019 (Monday)	1500 - 2000	IFS2019 registration at Seri Pacific Hotel (optional early registration)	Hotel Lobby
	0800 - 1200	IFS2019 registration at Seri Pacific Hotel Excursion registration	Foyer
	0800 - 0900	Refreshment	Foyer
19 November 2019 (Tuesday)	0900 - 1030	IFS2019 Officiating Ceremony in Grand Ballroom, Seri Pacific Hotel Welcoming Remarks by IFS2019 Chairman, Prof. Dr. Aziz Arshad Welcoming Speech by Deputy Dean for Academic, Students and Alumni, Faculty of Agriculture UPM, Assoc. Prof. Dr. Nur Azura Adam Opening Address by ASEAN-FEN Chairman, YBhg. Prof. Dr. Happy Nusyam IFS2019 Montage Video Presentation ASEAN-FEN Outstanding Young Scientist Award 2019 Presentation Sponsorship Appreciation Group Photography	Grand Ballroom
19 November 2	1000 - 1030	Keynote 1 YBhg. Dato' Dr. Bah Piyan Tan Deputy Director General (Administration) Department of Fisheries Malaysia	Grand Ballroom
	1030 - 1100	Keynote 2 Dr. Sigi Gruber Head of Unit (Oceans and Seas) European Commission	Grand Ballroom
	1130 - 1300	Parallel Oral & Poster Presentation Sessions	Refer to Page 11-13
	1300 - 1400	Lunch	Coffee House TBA
	1400 - 1530	Parallel Oral & Poster Presentation Sessions	Refer to Page 11-13
	1530 - 1600	Refreshment	Foyer
	1400 - 1730	Parallel Oral & Poster Presentation Sessions	Refer to Page 11-13
	1930 - 2200	ASEAN-FEN Institutional Members Meeting (by invitation)	Bunga Raya Room

PROGRAM RUNDOWN ASEAN-FEN 9th INTERNATIONAL FISHERIES SYMPOSIUM 2019 (IFS2019) 18 – 21 NOVEMBER 2019 SERI PACIFIC HOTEL, KUALA LUMPUR

Date	Time (hrs.)	Activity	Location
	0900 - 0930	Keynote 3 YBhg. Dato' Dr. Mohamed Shariff Mohamed Din Professor in Fish Health, Universiti Putra Malaysia	Grand Ballroom
	0930 - 1000	Keynote 4 Mr. Ng Yih Chen Malaysia Aquaculture Development Association	Grand Ballroom
	1000 - 1030	Refreshment	Foyer
esday)	1030 - 1230	Parallel Oral & Poster Presentation Sessions	Refer to Page 11-13
Vedne	1300 - 1400	Lunch	Coffee House
20 November 2019 (Wednesday)	1400 - 1630	Parallel Oral & Poster Presentation Sessions	Refer to Page 11-13
ember	1630 - 1700	Refreshment	
Nove	1700 - 1800	Parallel Oral & Poster Presentation Sessions	Refer to Page 11-13
20	1900 - 2100	IFS2019 Closing Dinner Welcoming Speech by Assoc. Prof. Dr. Yuzine Esa (IFS2019 Chairman – Local) ASEAN-FEN New Membership Recognition Ceremony Cultural Show Young Scientist Award Winner's Address Best Oral and Poster Awards Presentation Next-IFS Host Handover Ceremony	Grand Ballroom
21 November 2019 (Thursday)	0830 - 1500	Excursion	

Keynote Speakers19 November 2019 | 1000 – 1100 hrs. Grand Ballroom



YBhg. Dato' Dr. Bah Piyan Tan is Deputy Director General of Department of Fisheries Malaysia (DoF). He has 34 long years of experience and strong leadership in various areas throughout the service; from fisheries resource management to aquaculture to extension services to post-harvest and biosecurity, especially in fish disease monitoring and control. He contributed to the implementation of Malaysia Good Aquaculture Practices (MyGAP) Certification Scheme. He received his bachelor's degree in fisheries and marine science from UPM, before obtaining a Ph.D in Food Science and Technology from Universiti Kebangsaan Malaysia.



Dr. Sigi Gruber is Head of Marine Resources Unit, in Directorate General for Research and Innovation of the European Commission. The Unit defines, implements and monitors research and innovation objectives and priorities to support European Union's marine and maritime related policies, thereby contributing to the sustainable and responsible management of marine resources, both in Europe and globally.

Keynote Speakers20 November 2019 | 900 – 1000 hrs. Grand Ballroom



YBhg. Dato' Dr. Mohamed Shariff
Mohamed Din is a world renowned fish
pathologist. He is the first Malaysian to
have been elected into the World
Organization for Animal Health's (OIE)
Aquatic Animal Health Standards
Commission. He is also one of the key
founding figures of the Malaysia Fisheries
Society, an organization that plays a vital
role in promoting and adding values to
fisheries and aquaculture activities in
Malaysia.



Mr. Ng Yih Chen is the current President of Malaysia Aquaculture Development Association (MADA). He has been in the industry for nearly 10 years, managing his company that is now growing to be an expert in the nursery, hatchery and growout giant and tiger groupers, the hybrid between the two and also barramundi. He is an lowa State University USA alumnus, graduated in Bachelor of Business Administration (majoring in Marketing). He then went to obtain MBA Finance from the University of Hull, UK.

Oral Presentation Schedule* 19 November 2019, Tuesday

*Please refer to IFS2019 Abstract Book for full schedule

Time (hrs.)	Session	Room**
1130 - 1230	EURASTIP (Special Session)	Anggerik A
1130 - 1250	Anti-microbial Resistance (Special Session)	Ballroom A
1130 - 1500	China-ASEAN Seaweed (Special Session)	Anggerik B
1130 - 1800	Fisheries Biology and Resource Management 2	Kenanga
1130 - 1630	Nutrition and Feed	Ballroom C
1130 - 1800	Aquatic Animal Health	Ballroom A
1130 - 1630	Broodstock Culture, Larviculture and Hatchery Management	Melur
1130 - 1630	Genetic and Biotechnology	Tanjung
1130 - 1630	Aquaculture System and Management	Lili
1400 - 1630	Fisheries Biology and Resource Management 1	Bunga Raya
1400 - 1800	Fisheries Socioeconomies, Gender, Education and Extension	Anggerik A
1500 - 1630	Algae and Aquatic Plants	Anggerik B

^{**}Please refer to page 16 for floor plan

Oral Presentation Schedule* 20 November 2019, Wednesday

*Please refer to IFS2019 Abstract Book for full schedule

Time (hrs.)	Session	Room**
1030 - 1630	Fisheries Biology and Resource Management 1	Bunga Raya
1030 - 1630	Fisheries Biology and Resource Management 2	Kenanga
1030 - 1545	Nutrition and Feed	Ballroom C
1030 - 1800	Aquatic Animal Health	Ballroom A
1030 - 1630	Postharvest, Fish Product and Food Safety	Anggerik A
1030 - 1600	Algae and Aquatic Plants	Anggerik B
1030 - 1530	Broodstock Culture, Larviculture and Hatchery Management	Melur
1030 - 1530	Genetic and Biotechnology	Tanjung
1030 - 1230	Aquaculture System and Management	Lili
1700 - 1800	Information Technology and Engineering	Anggerik A

^{**}Please refer to page 16 for floor plan

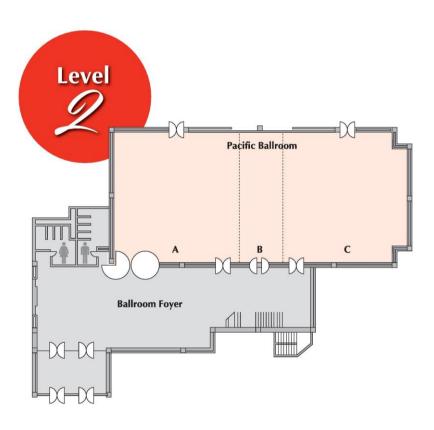
Poster Presentation Schedule

*Please refer to IFS2019 Abstract Book for full schedule

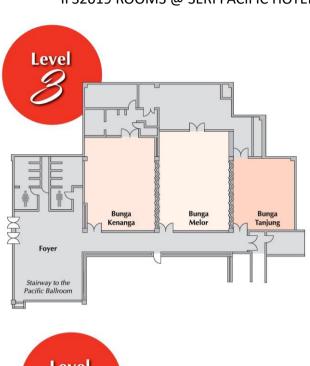
Date	Session
19 November 2019	Fisheries Biology and Resource Management
	Fisheries Socioeconomies, Gender, Education and Extension
	Genetic and Biotechnology
	Algae and Aquatic Plants
20 November	Aquatic Animal Health
2019	Nutrition and Feed
	Aquaculture System and Management
	Post-harvest, Fish product and Food Safety
	Broodstock Culture, Larviculture and Hatchery Management

^{**}Please refer to page 16 for floor plan

FLOOR PLAN IFS2019 ROOMS @ SERI PACIFIC HOTEL



FLOOR PLAN IFS2019 ROOMS @ SERI PACIFIC HOTEL





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