

## THE EXECUTIVE COMMITTEE 2008-2010



The FHS/AFS Executive Committee for the period 2008-2011 was elected during the Eighth Triennial General Meeting (TGM-8) held in Taipei, Taiwan on 24<sup>th</sup> June 2008 in conjunction with the Seventh Symposium on Diseases in Asian Aquaculture (DAA VII), a triennial symposia organized by the FHS. At the General Meeting it was decided to call for younger members of the society to join the Executive Committee as observers. Accordingly, three were elected at the meeting.

The elected officials are:



### CHAIRPERSON

Dr Chu-Fang Lo  
(Taiwan)  
Professor, Department  
of Zoology  
National Taiwan  
University

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Since 1994, Grace's collaborative work with Prof. Guang-Hsiung Kou has focused on the study of white spot syndrome virus (WSSV), which is the causative agent of one of the world's most serious shrimp diseases. The scope of her research includes not only the virus itself, but extends to viral transmission and control. Under her guidance, her laboratory developed WSSV screening technology and a PCR diagnostic kit that is now

widely used by researchers as well as by the aquaculture industry. Grace has published the complete genome sequence for the WSSV Taiwan isolate, which is one of only three WSSV isolates whose full sequence is known. Grace chairs the ICTV Nimaviridae study group, and was formerly a member of the WSSV study group led by Dr. Just Vlak when it successfully proposed that WSSV be the type species of a new genus (Whispovirus) and family (Nimaviridae). Grace continues to work on the molecular pathogenesis of WSSV and on host-virus interactions. She currently heads two OIE reference laboratories in Asia. One is for white spot disease and the other is for spherical baculovirosis (which is caused by MBV, or *Penaeus monodon*-type baculovirus).

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### VICE CHAIRPERSON

Prof CV Mohan (India)

[mohan@enaca.org](mailto:mohan@enaca.org)

### SECRETARY-TREASURER:

Dr. Suppalak Lewis (Thailand)

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### MEMBERS:

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### DAAVII EDITORS

Dr. Melba G. Bondad-Reantaso

Dr. Brian Jones

Dr Flavio Corsin

Prof. T. Aoki

### IMPRESSIONS OF DAAVII

The DAAVII conference was held in Taipei, Taiwan, from June 22<sup>nd</sup> to June 26<sup>th</sup> 2008 at the Howard International House, Taipei. The theme of the conference was "Communication, co-operation and co-ordination: core issues in aquatic health management". Over 300 participants representing 31 countries were there.

Like many I arrived in Taipei late at night after a long connecting flight and was delighted to be met at the airport by the enthusiastic team of welcomers who facilitated our transfer to the hotels. The accommodation was of a very high

standard, close to the subway system and to the National Taiwan University Campus.

The icebreaker on Sunday night was very well attended and the food and drink was abundant. The formal proceedings got underway on Monday morning with a magnificent display of drumming by some of the students, followed by the formal speeches and the opening Keynote address.

It could be forgiven if, after the first two days of talks, it seemed like it was the shrimp immunology symposium. Wednesday corrected that impression with a morning of fish disease papers before the afternoon social activity. A number of tours were on offer: The National Palace Museum or the Yangmingshan National Park. I chose the latter, which was perhaps a poor choice as on Wednesday afternoon it rained. In an effort to see the volcanic fumaroles, most of us managed to get totally wet, despite disposable plastic raincoats, but it was still a very happy group that, following a sumptuous dinner, returned to the hotel.



Thursday was a bit of a mixture, including a small group of papers on mollusk diseases, closing with a thought-provoking message by Kjersti Gravengen on aquaculture scenarios towards 2030, and a challenging presentation on disease transmission risks posed by frozen shrimp for human consumption. The banquet on Thursday night was again of the high standard we had all come to expect, with a lovely musical performance by a youth orchestra, and entertainment items including a magician, a demonstration of omelet making by dancing Thai students and a modern dance routine initiated by some of the Japanese student contingent.

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### DAAVII STUDENT ORAL AND POSTER AWARDS

All students were invited to compete for the Student Awards in the DAAVII Posters and Oral Presentations session. Award certificates and cash prizes as described below were presented at the 7th Symposium of Diseases of Asian Aquaculture in Taipei, Taiwan. Awards were announced at the symposium dinner on Thursday, June 26th.

The top three participants in each category will each win a cash prize. The cash prizes for the winners are as follows:

	Poster Award	Oral Presentation Award
1st Prize	500 USD	500 USD
2nd Prize	400 USD	400 USD
3rd Prize	300 USD	300 USD



**ORAL FIRST PRIZE:** Mr. Yu-chi Wu, National Taiwan University, Taiwan.  
**Abstract Title:** Barramundi (*Lates calcarifer*) Mx protein interferes with Betanodavirus replication



**ORAL SECOND PRIZE:** Ms. Annette Boerlage, Wageningen University, Netherlands. **Abstract Title:** A mathematical model for transmission of *Clonorchis sinensis* and *Opisthorchis viverrini* in integrated livestock-fish farming systems in Vietnam



**ORAL THIRD PRIZE:** Ms. Emi Iwamoto, Hiroshima University, Japan. **Abstract Title:** Phage therapy against *Streptococcus iniae* infection of Japanese flounder *Paralichthys olivaceus*

**Upcoming conference:** Society for Integrative and Comparative Biology meeting on Parasitic Crustacea: January 3-9, 2009 in Boston, Massachusetts. See in <http://www.vims.edu/tcs/> and look under "SICB."

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**POSTER FIRST PRIZE:** Mr. Fernand Fagutao, Tokyo University, Japan.

**Abstract Title:** Prophenoeloxidase knockdown causes increase in bacterial load in kuruma shrimp haemolymph.



**POSTER SECOND PRIZE:** Mr. Goshi Kato, Tokyo University, Japan. **Abstract Title:** Study for development of vaccine against *Mycobacterium* sp.



**POSTER THIRD PRIZE:** Ms. Sirinit Tharntada, Chulalongkorn University, Thailand. **Abstract Title:** Antiviral activity of anti-lipopolysaccharide factors from the black tiger shrimp, *Penaeus monodon*

### INTERNATIONAL TRAINING PROGRAMMES AT CENTRAL INSTITUTE OF FISHERIES EDUCATION, MUMBAI, INDIA

Central Institute of Fisheries Education (CIFE), the only Deemed University for fisheries in India, is the institution of higher learning and training in fisheries science under Indian Council of Agricultural Research, Government of India, India. CIFE offers Masters and PhD programs in specialized branches of fisheries, undertakes cutting edge research, conducts capacity enhancement programs, and provides technical support and consultancy to development agencies.

At this juncture, CIFE is organizing the following training programs for international students at Mumbai, India.

#### (1) Fisheries Co-management for sustainable livelihood development.

15 - 28 November 2008.

In many developing countries, population pressure and limited alternative employment opportunities, coupled with the inability and reluctance of governmental inactions to take necessary conservation and management decisions, have resulted in severely over fished coastal and inland resources and increased threats to the livelihoods of fishers. This has generated calls for improved management strategies and sustainable use of aquatic resource systems with the active participation of local countries and other stakeholders

#### (2) Gender and development: South Asian Context

4 - 17 December 2008

Gender roles are learned and can be affected by factors such as education or economics. They vary widely within and among cultures. In order to reduce poverty, promote development and achieve gender equality, it is necessary to increase women's access to economic resources, education, information and communication technologies and governance.

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### (3) Trickle down system of aquaculture extension

15 - 28 January 2009

Participatory extension methods are effective, as it involves the clientele for spreading extension message. Considering the shortage of field extension personnel, this approach has become more important. As depicted by its name, TDS of aquaculture extension ensures active flow of information from farmer to farmer, causing lateral spread, through a well-designed extension mechanism. The TDS approach of aquaculture was developed and successfully demonstrated by the FAO / UNDP project to 52 out of 64 districts in Bangladesh. In India this project is making breakthrough in Assam. The present training programme covers the context, concepts and mechanism required to initiate TDS of aquaculture extension.

#### Eligibility and Application:

Fisheries development professionals, teachers and researchers, preferably graduates with field experience. Application form with detailed biodata, passport number, etc. should be sent to the Director Central Institute of Education, Versova, Mumbai- 400 061, India (Email: [director@cife.edu.in](mailto:director@cife.edu.in)). Training fees is US \$ 2000.

#### Intake capacity:

Maximum 20

**For further details please visit CIFE website: [cife.edu.in](http://cife.edu.in)**

2. C is reading a book written by the person sitting opposite him.
3. B is sitting between the essayist and the musician.
4. E is sitting next to the playwright.
5. The essayist is sitting opposite the archaeologist.
6. D is reading a book written by the playwright.
7. A is sitting in the corner and has no interest in archaeology.
8. D is sitting opposite the novelist.
9. E is reading a book written by the musician.
10. F has never read a book of poetry, obviously, he is not a poet.

This is a typical logic problem by Hubert Phillips (1891-1964) – look him up on Wikipedia.

### International Training Course "Biology and Pathology of the Penaeid Shrimp"

Thailand, October 7<sup>th</sup> to 17<sup>th</sup>, 2008  
**Course Co-ordinator** Dr. Timothy W. Flegel

#### 1. Course description

There are two weeks intensive training course covering key aspects of the biology and pathology of penaeid shrimp as they are relevant to the shrimp industry in Pacific Asian countries, especially Thailand. It is designed for either postgraduate students engaged in research on any aspect of the penaeid shrimp technicians or researchers involved in shrimp research which related fields and others who might be interested.

Lectures comprise relevant experts from CENTEX SHRIMP at the Faculty of Science and from other Thai Universities and institutes engaged in research on the white shrimp and black tiger shrimp. Daily sessions consist of three hours morning lectured followed by afternoon practical sessions. There is also one day for field trip to visit hatchery farm and examination at last day.

Lectures cover the life cycle, anatomy, physiology, and immunology of shrimp include information on the nature and

### PUZZLE

Six experts in their respective fields are on a train trip together. They sit facing each other in groups of three. They are an essayist, and archaeologist, a musician, a novelist, a playwright and a poet. Each has written books in their special field and each is now reading a book by one of the others. From the ten facts given below, state each person's profession.

1. A is reading essays.

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diagnosis of all major pathogens. The practical sessions focus on shrimp anatomy and techniques on disease monitoring and diagnosis ranging from gross observation to light and transmission electron microscopy and advance molecular biology techniques such as polymerase chain reaction (PCR).

### 2. Course Objectives

- 1) Understand shrimp biology and the shrimp culture industry
- 2) Understand shrimp anatomy and shrimp histology
- 3) Understand shrimp physiology
- 4) Be able to diagnose shrimp diseases
- 5) Understand disease control in shrimp farm management

Fee is \$US 950 per person for foreigner and 12,840THB (include Vat 7%) for Thai which includes copies of lab and lecture manuals. **Registration deadline is September 5th, 2008.** Training capacity will not exceed 30 persons for laboratory session. This training is lecture with English language.

**Shrimp Biotechnology Business Unit (SBBU)**

**National Center for Genetic Engineering and Biotechnology (BIOTEC)**

**Biotec Pilot Plant Module 2**

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### GLOBAL NEWS

#### **FHS Members participate as Keynote Speakers in major scientific conferences**

29th World Veterinary Congress (theme: Celebrate our Diversity), July 27-31, 2008, Vancouver, British Columbia, Canada (<http://www.worldveterinarycongress2008.com/>). Dr Rohana Subasinghe gave a Keynote Presentation on the Evolution of Asian Aquatic Animal Health Approaches in the session on National/International Strategies VI.

Fifth International Symposium of the Japanese Society for Fish Pathology (theme: The Role of Fish Pathology in Sustainable Aquaculture), October 18-19, 2008, Tokyo, Japan (<http://park.itsc.u-tokyo.ac.jp/jsfp2008/>). FHS members will provide Keynote Presentations, namely: Dr. Franck Berthe on International epidemiology in relation to shellfish disease, Prof. Tim Flegel on Shrimp viral pathogens spread primarily from transboundary movement of living shrimp for aquaculture, not from shrimp exports for human consumption, Prof. C.-F. Lo on Shrimp viral diseases from pathology to pathogenomics, Dr. Melba Reantaso on International trade and aquatic animal health: what did we learn so far in managing the risks? and Prof. Mamoru Yoshimizu on Control strategy of viral diseases of salmonid fish, flounders and shrimp at hatchery and seed production facility.

5th World Fisheries Congress 2008 (theme: Fisheries for Global Welfare and Environmental Conservation), October 20-24, 2008, Yokohama, Japan (<http://www.5thwfc2008.com/>). Dr Melba Reantaso will give Keynote Presentation on Meeting the future demand for aquatic food through aquaculture: the role of aquatic animal health in Sessions 2 (Aquaculture).

#### **FHS Members contribute to two recent major OIE publications**

Two OIE publications recently came out of press: (i) The OIE Global Conference on Aquatic Animal Health (Dodet, B, the OIE Scientific & Technical Department (eds): The OIE Global Conference on Aquatic Animal Health. Dev Biol (Basel, Karger, 2007, vol 129 and (ii) Changing trends in managing aquatic animal disease emergencies. OIE Scientific and Technical Review. Vol. 27(1): April 2008, coordinated by E.-M. Bernoth. Many FHS members have contributed to these two publications including: (i) Managing the koi herpes virus disease outbreak in Indonesia and the lessons learned (Bondad-Reantaso, Sunarto and Subasinghe), (ii) Contribution of science to farm-level aquatic animal health management (Corsin, Mohan), (iii)

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Communication and networking in a regional organization (Mohan, Phillips, Corsin), (iv) Training needs and provision in developing countries of the Asia-Pacific region (Lavilla-Pitogo), (v) Opportunities for training in shrimp diseases (Lightner), (vi) The FAO/NACA Asia Regional Technical Guidelines on Health Management for the Responsible Movement of Live Aquatic Animals: lessons learned from their development and implementation (Subasinghe and

Bondad-Reantaso), (vii) Perspectives on aquatic animal disease contingency planning in the Asia-Pacific region (Mohan, Chinabut and Kanchanakhan), (viii) Farm-level plans and husbandry measures for aquatic animal disease emergencies (Mohan, Phillips, Padiyar) and (ix) Recent applications of biotechnology to novel diagnostics for aquatic animals (Adams, Thompson).



DAAVII banquet - The Thai students prepare to demonstrate how to make an omelette - Thai style!

### ANSWER TO PUZZLE

A = novelist; B = poet; C = playwright; D = musician; E = archaeologist; F = essayist.

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